



REMEDIATION INVESTIGATION REPORT

**1199 SUTTER AVENUE
BROOKLYN, NEW YORK**

**SITE ID # C224141
NYSDEC SPILL NO. 0902686**

Prepared For:

AAA Sutter Realty LLC.
153-157 Seventh Street
Garden City, New York 11530
&

New York State Department of Environmental Conservation
Bureau of Program Management- Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7012

July 28, 2015

Prepared By:

Associated Environmental Services, Ltd.
25 Central Avenue
Hauppauge, New York 11788

TABLE OF CONTENTS

1.0	<u>INTRODUCTION</u>	1
2.0	<u>SITE BACKGROUND</u>	2
2.1	Site Description.....	2
2.2	Previous Investigation.....	2
3.0	<u>METHODOLOGY</u>	7
3.1	Groundwater Monitoring Wells.....	7
3.1.1	Monitoring Well Installation.....	7
3.1.2	Well Development	8
3.1.3	Groundwater Sampling Procedures	8
3.2	Sub-Slab Soil Vapor/Ambient Air Sampling.....	9
3.3	Waste Disposal.....	10
3.4	Quality Assurance	10
3.4.1	Instrument Calibration	10
3.4.2	Decontamination Procedures	10
3.4.3	Chain of Custody Protocol.....	11
3.5	Community Air Monitoring Program	11
4.0	<u>RESULTS</u>	11
4.1	Groundwater Data	11
4.2	Soil Vapor/Indoor & Outdoor Air Data	12
4.3	Data Usability Summary Report	15
5.0	<u>CONCLUSIONS AND RECOMMENDATIONS</u>	16
5.1	Groundwater Quality.....	16
5.2	Soil Vapor Intrusion.....	16

TABLES

Table 1.....	Water-Level Measurements
Table 2.....	Purge Parameter Summary
Table 3.....	Groundwater Sample Data
Table 4.....	Sub-Slab Vapor/Indoor & Outdoor Air Data

FIGURES

Site Location Map.....	Figure 1
Soil Data Map.....	Figure 2
Historical Sample Locations Map.....	Figure 3
Site Plan.....	Figure 4
Groundwater Contour Map.....	Figure 5
Groundwater Data Map.....	Figure 6
Soil Vapor Data Map.....	Figure 7

APPENDICES

Appendix A.....	Laboratory Data Reports
Appendix B.....	Data Usability Summary Report

CERTIFICATION

I, Matthew Boeckel, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the property located at 1199 Sutter Avenue, Brooklyn, New York (Brownfield site #C224141). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Matthew Boeckel

7/28/2015



Qualified Environmental Professional

Date

Signature



1.0 INTRODUCTION

This Remedial Investigation Report (RIR) has been prepared by Associated Environmental Services, Ltd. (AES) for the property located at 1199 Sutter Avenue in Brooklyn, New York (hereinafter referred to as the subject property). The subject property location is depicted on **Figure 1**. The Remedial Investigation was conducted to address the requirements by the New York State Department of Environmental Conservation (NYSDEC) under Order on Consent and Administrative Settlement (Consent Order) relating to contaminant impacts from the former dry cleaning operations at the subject property. The Consent Order supplants NYSDEC Spill No. 0902686 previously assigned to the property.

The Remedial Investigation was conducted in conformance with the approved January 16, 2014 Supplemental Site Characterization Work Plan to acquire additional data as recommended by the NYSDEC. The Remedial Investigation was conducted to complete delineation of current groundwater contamination and flow, and evaluate the potential for soil vapor intrusion. The Remedial Investigation Report provides a brief description of the site history, the methods and procedures utilized to install seven (7) groundwater monitoring wells, groundwater sample collection, soil/ambient vapor data collection, and an evaluation of the analytical results to determine the environmental conditions at the subject property.

2.0 SITE BACKGROUND

The following section provides a description of the subject property and summarizes the previous investigations. A site location map of the property is provided as **Figure 1**.

2.1 Site Description

The subject property is designated as 1199-1221 Sutter Avenue in Brooklyn, New York and bounded by Sutter Avenue to the south, Chestnut Street to the east, residential properties to the north and Crystal Street to the west. The subject property contains a single-story commercial building along the southern portion and an asphalt parking lot covering the northern portion of the subject property. Catch basins within the parking lot direct runoff into the municipal storm water drainage system. The building is divided into five separate retail/office units. A former dry cleaner establishment was located within the eastern-most unit, which is currently occupied by a self-service Laundromat. Sanitary waste and waste water from the Laundromat are discharged to the municipal sewerage system located beneath Sutter Avenue. The building is underlain with a basement segmented for each retail/office unit with utilities, storage and service rooms.

The subject property is located within the Pavement & Buildings-Flatbush-Riverhead Series Soil Map Unit, which is described as anthropogenic urban fill overlying glacial outwash deposits and characterized as a sandy loam. The property is generally flat and is fully developed with impermeable surface cover comprised of building, asphalt parking lot and concrete sidewalks.

The site is underlain by the Upper Glacial Aquifer, which is composed of outwash-plain deposits of stratified sand and gravel. The Upper Glacial Aquifer is the only formation considered in this investigation. Groundwater beneath the subject property is encountered approximately 13 feet below grade and is characterized as Class GA indicating it as a potential source of potable water. Based on regional data, groundwater flow is to the south. Groundwater is not utilized as a source of potable water at the subject property.

2.2 Previous Investigations

In January 2009, an initial investigation comprised of a Phase II Environmental Site Assessment (ESA) was conducted by Atlantic Environmental Solutions, Inc. at the subject property to evaluate a recognized environmental condition (REC) associated with the former dry cleaner operation that was located within the eastern-most unit of the building. As part of this investigation, two soil borings were drilled adjacent to the former dry cleaner's unit to collect soil and groundwater samples for laboratory analysis. The results of the analysis detected a concentration of tetrachloroethene (PCE) above NYSDEC cleanup objective in one soil sample, S3, and in both groundwater samples, S2 and S3. Additionally, concentrations of trichloroethene (TCE) were detected in the groundwater samples in exceedance of the applicable NYSDEC guidance.

Based on the results of the initial investigation, AES conducted a supplemental Phase II subsurface investigation in April 2009. The supplemental investigation was conducted to determine the severity of the PCE and TCE contamination and delineate the extent of the impacts in the soil and groundwater underlying the former dry cleaners. A total of eight soil borings were drilled; six borings, B-1 through B-6, were located within the parking lot and sidewalk adjacent to the building and two borings, B-7 and B-8, were located within the basement area of the former dry cleaners.

A contaminant concentration (i.e., in excess of the NYSDEC guidance values) of PCE was detected in the soil sample from boring B-7, however, no other contaminant concentrations of VOCs were detected in the soil samples from the property. The results of the groundwater sample analysis detected concentrations of PCE at borings B-4 through B-8 in excess of the NYSDEC Ambient Water Quality Standards and Guidance Values (Water Quality Values) provided in the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1. Concentrations of TCE were also detected above the NYSDEC Water Quality Values in borings B-6 through B-8. Finally, concentrations of cis-1,2-dichloroethene (c-1,2-DCE), a common byproduct of PCE and TCE degradation, were detected above the NYSDEC Water Quality Values in the samples from B-5 and B-7.

Based on the results of the supplemental subsurface investigation, AES recommended the injection of potassium permanganate into the subsurface to mitigate the concentrations of PCE, TCE and c-1,2-DCE detected in the groundwater. Coupled with the aforementioned proposed injections, the installation of shallow and deep groundwater monitoring wells was recommended to evaluate and monitor the effectiveness of the proposed remedial approach. Prior to initiating the proposed remedial approach, the NYSDEC was notified of the site conditions and Spill No. 0902686 was assigned for the pending remedial action.

Between August 5, 2009 and August 24, 2009, a four percent solution of potassium permanganate was injected at 12 grid points at intervals of 40, 35, 20, 15, and 10 feet below grade within and adjacent to the former dry cleaner facility. Groundwater samples were collected at the time of injection and then subsequently two months following the injections.

The results of the August 2009 initial groundwater sample analysis detected PCE in one deep well, MW-4D, and in three shallow wells, MW-1S, MW-2S, and MW-4S during the August 2009 initial sampling event. Concentrations of acetone and chloroform in exceedance of their respective NYSDEC Water Quality Values were also detected in well MW-4S at this time. The results of the November 2009 performance monitoring samples indicated the concentration of PCE had decreased in MW-1S and was no longer detected in MW-2S. Concentrations of PCE MW-3S and MW-4S were higher than the August 2009 data, but showed significant improvement from the Phase II Subsurface Investigation data. Degradation products including TCE and c-1,2-DCE were also detected in MW-4S. Concentrations of acetone and chloroform were no longer detected in the

November 2009 samples. Based on the performance data, AES concluded had been effective, but that additional sampling data was warranted to further evaluate the success of the injection program and determine if additional injections should be performed.

On February 25, 2010, groundwater samples were collected from the four shallow monitoring wells (MW-1S through MW-4S). Groundwater data indicated the concentrations of VOCs were generally consistent with the November 2009 concentrations, however, the concentrations of VOCs in well MW-1S had increased since the November 2009 sampling, but remained at roughly one half of the levels detected during the Phase II Subsurface Investigation from April 2009. Thus the increase of VOC concentrations in MW-1S since the November 2009 was likely due to rebound from the initial injection of potassium permanganate at the property. Based on the second set of data, AES recommends a second round of potassium permanganate injections be conducted at greater density than the previous injections in order to fully remediate the residual VOC contamination in the groundwater.

On July 19, 2011 a Site Characterization Investigation was conducted at the site to characterize soil and groundwater quality as well as soil vapor and ambient air quality. Three soil borings, designated B-10 through B-12, were drilled within the rear parking lot behind the Laundromat using Geoprobe direct-push sampling equipment. The soil borings were drilled to approximately 15 feet below grade, and into the water table encountered at approximately 13 feet below grade. Soil samples were collected on a continuous basis throughout the entire depth of the soil boring. A stainless steel hand auger was used to collect soil samples to approximately five feet below grade to assure clearance from potential underground utilities. Soil sample lithology and visual or olfactory indication of contamination (i.e., odor or staining) were noted, and photo-ionization detector (PID) readings were screened in one-foot intervals were measured and recorded on the soil boring logs. Field observations did not indicate obvious indications of contamination. PID readings ranged from approximately 0.5 to 9 part per million (ppm) in Boring B-10 with the five to six-foot interval, exhibiting the highest reading, submitted for laboratory analysis. In Boring B-11, PID readings ranged from approximately 1.5 to 9.6 ppm with the five to six-foot interval, exhibiting the highest PID reading, submitted for laboratory analysis. In Boring B-12, PID readings ranged from approximately 0.1 to 0.9 ppm with the nine to 10-foot interval, exhibiting the highest PID reading, submitted for analysis. The locations of the soil borings and the historical soil data is summarized on **Figure 2 – Soil Data Map.**

One monitoring well, MW-5, was installed along the south-side of Sutter Avenue, downgradient of the subject property, to evaluate possible plume migration, if any. Well MW-5 was constructed of new two-inch diameter, schedule 40 PVC with American Society of Testing Materials (ASTM) F-480 pipe threading and 15 feet of two-inch diameter, 0.020-inch (20-slot) PVC well screen. The well was constructed between 10 to 25 feet below grade (bg) so that the well screen was installed across the top of the water table measured at approximately 13 feet bg. The well was constructed with Morie No. 1 sand emplaced around the screened zone to approximately two feet above the top of the

well screen. A two-foot thick bentonite seal was then emplaced above the sand pack and the remaining annulus was backfilled with shallow soil.

One sub-slab soil vapor sample, SSV-1, was collected beneath the poured concrete slab within the basement of the Laundromat on the subject property. Sub-slab soil vapor sampling point SSV-1 was installed using hand-held power tools in the basement area of the laundromat. The soil vapor point consisted of one-quarter inch polyethylene tubing set approximately two inches beneath the bottom of the concrete floor slab. The annular space surrounding the end of the tubing was filled with washed #1 crushed stone as a filter pack. Bentonite clay was then installed atop of the filter pack and hydrated to prevent atmospheric air infiltration. The initial PID reading during the sampling point purge was recorded to be approximately 760 PPM. Once purged, a laboratory supplied six-liter vacuum Summa canister was connected to the sub-slab sample point and the sample collected over eight hours using a flow regulator calibrated by the laboratory for a flow rate of approximately 0.0125 L/m. The sampling tubing was connected to the Summa canister using the appropriate air-tight compression fitting. Concurrently, indoor air quality and outdoor air quality samples were collected over the same duration as the sub-slab soil vapor sample. The indoor/outdoor air samples were collected using laboratory-supplied six-liter Summa canisters set atop three-foot tall stand to represent the air quality within the typical breathing zone to establish indoor and outdoor ambient air conditions at the subject property.

The soil data indicated that concentrations of tetrachloroethene (PCE) were detected in the three soil boring samples, with one concentration of 1.6 milligrams per kilogram (mg/kg) in B-11 exceeding the UUSCO of 1.3 mg/kg. The concentrations of PCE in B-10 and B-12 were detected well below the UUSCO, however, concentrations of acetone, at 0.17 mg/kg in B-10 and 0.21 mg/kg in B-12, were detected in exceedance of the UUSCO of 0.05 mg/kg. No other concentrations of VOCs were detected in the soil samples above the respective UUSCOs. No concentrations of VOCs detected in the soil samples were above the respective RCUSCOs.

The groundwater data indicated that concentrations of chloroform and PCE were detected in the five water table wells, MW-1S, MW-2S, MW-3S, MW-4 and MW-5. Concentrations of chloroform exceeded the Water Quality Value in the five wells, and ranged from 13 micrograms per liter (ug/L) in MW-2S to 30 ug/L in MW-1S. Concentrations of PCE in the water table wells ranged from 0.73 ug/L in the upgradient well MW-3S to 470 ug/L in well MW-4 located in the basement beneath the laundromat. The concentrations of PCE detected in wells, MW-1S, MW-2S, MW-4 and MW-5 were in exceedance of the NYSDEC Water Quality Value at 5 ug/L. Concentrations of chloroform were detected in wells MW-1D, MW-2D and MW-3D but at levels well below the Water Quality Values. Concentrations of PCE were also detected in wells MW-1D at 6.8 ug/L, MW-2D at 9.6 ug/L, and MW-3D at 20 ug/L, which are in exceedance of the Water Quality Value. Additionally, concentrations of trichloroethene (TCE) and cis-1,2-dichloroethene (c-1,2-DCE) were detected in four water table wells, MW-1S, MW-2S, MW-4, and MW-5, of which the concentrations of TCE in MW-4 and MW-5 and of c-1,2-DCE in MW-5 were above the Water Quality Values.

Concentrations of trans-1,2-dichloroethene (t-1,2-DCE) were detected in samples MW-2S, MW-3S, MW-4, and MW-5, but at levels well below the Water Quality Value. Concentrations of bromodichloromethane were detected in MW-1S, MW-2S and MW-3S, and vinyl chloride was detected in MW-5, but at levels below the respective Water Quality Values. Concentrations of TCE, C-1,2-DCE, and T-1,2-DCE were detected in the samples from MW-1D, MW-2D, and MW-3D, but none were in exceedance of the Water Quality Values in these wells.

The vapor analytical data indicated that sub-slab vapor sample SS-1 detected concentrations of 13 VOCs beneath the building. Of concern from the former use of the property as a dry cleaner, PCE was detected at 428,000 micrograms per cubic meter (ug/m³), TCE was detected at 9,730 ug/m³, c-1,2-DCE was detected at 3,830 ug/m³, 1,1,1-trichloroethane (1,1,1-TCA) was detected at 4,020 ug/m³, 1,2-dichloroethane (1,2-DCA) was detected at 538 ug/m³, 1,1-dichloroethane (1,1-DCA) was detected at 380 ug/m³, t-1,2-DCE was detected at 390 ug/m³, and vinyl chloride (VC) was detected at 795 ug/m³. Additionally, concentrations of Freon 113 at 3,720 ug/m³, chloroform at 444 ug/m³, toluene at 757 ug/m³, ethyl benzene at 330 ug/m³, and styrene at 262 ug/m³ were detected in sample SS-1. The concentrations of PCE, TCE, 1,1,1-TCA, 1,2-DCA, c-1,2-DCE, chloroform, and VC were in exceedance of the USEPA Subsurface Vapor Intrusion Guidance Target Shallow Soil Gas Concentration (TSSGC) values. The indoor air sample, IA-1, detected 27 VOCs within the basement. Of the VOCs detected in the sub-slab vapor sample, chloroform at 38.4 ug/m³, TCE at 1.27 ug/m³, toluene at 11.4 ug/m³, PCE at 68.5 ug/m³, ethyl benzene at 1.7 ug/m³, and styrene at 3.62 ug/m³ were also detected in sample IA-1. The remaining VOCs detected in IA-1 included propylene, dichlorodifluoromethane, chloromethane, ethanol, trichlorofluoromethane, isopropanol, 2-butanone, ethyl acetate, tetrahydrofuran, n-hexane, benzene, cyclohexane, bromodichloromethane, 2,2,4-trimethylpentane, heptane, xylenes, 4-ethyltoluene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, and 1,4-dichlorobenzene. Concentrations of these remaining VOCs in sample IA-1 ranged from 1.9 ug/m³ of 4-ethyltoluene to 920 ug/m³ of ethanol, but with typical concentrations of less than 10 ug/m³. The outdoor air sample, OA-1, detected nine VOCs in the ambient air. The VOCs detected in ambient air included dichlorodifluoromethane, chloromethane, ethanol, acetone, trichlorofluoromethane, isopropanol, 2-butanone, benzene, and toluene. Concentrations of VOCs detected in the ambient air ranged from 0.831 ug/m³ of benzene to 14.9 ug/m³ of ethanol.

The location and designation of the sample points associated with the previous investigations are provided on **Figure 3 – Historical Sample Location Map**. Based upon the previous findings it was determined that a Remedial Investigation should be conducted to delineate the areal extent of the groundwater contamination plume and vapor contamination.

3.0 METHODOLOGY

The Remedial Investigation was performed to further delineate impacted groundwater offsite and determine the potential for soil vapor intrusion to adversely impacted indoor air quality in the building in compliance with the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation.

The groundwater characterization was conducted to determine groundwater flow direction in assessment of potential plume migration and evaluate current groundwater quality downgradient of the subject property. Onsite soil vapor/indoor air/outside air testing was conducted beneath the building to identify the likelihood of vapor intrusion into the building. The following sections describe the procedures and protocols used to conduct the Supplemental Site Characterization.

3.1 Groundwater Monitoring Wells

Seven (7) groundwater monitoring wells, designated as MW-5D, MW-6S, MW-6D, MW-7S, MW-7D, MW-8S and MW-8D, were installed along the south-side of Sutter Avenue, downgradient of the subject property, to evaluate possible plume migration, if any. The location of the monitoring wells is depicted on **Figure 4 – Site Plan**.

3.1.1 Monitoring Well Installation

The wells were constructed of two-inch diameter, schedule 40 PVC with American Society of Testing Materials (ASTM) F-480 pipe threading and 10 feet of two-inch diameter, 0.020-inch (20-slot) PVC well screen. Solvent glue was not used in assembling the well screen or riser casing. The shallow wells will be constructed between 15 to 25 feet below grade (bg) so that the well screen will be installed at the top of the water table. The deep wells will be constructed with the same materials as the shallow wells, but with five feet of well screen installed between 35 and 40 feet bg. The water-level in the borehole was measured immediately before construction of the well. The borehole was drilled to approximately two feet below the proposed depth of the well. The well casing and screen were constructed of new materials which were stored and assembled on clean plastic sheeting. The annulus between the well casing and the borehole was completed with sand pack, a bentonite seal, and backfilled to grade. The sand pack (Morie No. 1 sand) was emplaced so that it extends to a minimum depth of six inches below the bottom of the screen and a minimum depth of two feet above the top of the well screen. The depth to the top of the gravel pack was confirmed by measuring down the annular space between the well casing and the borehole with a weighted tape. A bentonite seal (minimum of two feet) was emplaced above the sand pack. The top of the bentonite seal was measured with a weighted tape and hydrated with potable water prior to backfilling. A protective steel, flush-mounted curb box and locking cap was installed after completion of the well.

3.1.2 Well Development

The newly-installed monitoring wells were developed using a Waterra Hydro-Lift 2 inertial pump. Disposable poly-tubing with a check valve and surge block were lowered into each well and actuated within the well to surge and flush sediments from the well. The water was run through a Horiba U-52 Multi-parameter Meter. The water was monitored for pH, specific conductivity, temperature, dissolved oxygen (DO), oxygen/reduction potential (ORP) and turbidity. The water was purged from the wells until a point of stabilization in the readings and the turbidity was below 50 Nephelometric Turbidity Units (NTUs). Approximately 80 gallons of water were removed during development and placed in 55-gallon drums pending off site disposal.

3.1.3 Groundwater Sampling

The groundwater sampling was performed in accordance with the United States Environmental Protection Agency (USEPA) guidance document EPA/540/S-95/504. Prior to sampling, an automatic laser level was used to determine the elevation of the top of well casing to within 0.01 feet relative to an arbitrary site datum of 20 feet. The top of the well casing was marked using an indelible ink marker to note the measuring point from which to collect water-level measurements within the well. The depth to water was measured to the nearest 0.01 of a foot using a Solinst electronic oil/water interface probe. The water-table elevation was then determined by subtracting the depth to water from the measuring-point elevation. Based upon the data it was determined that groundwater flow is to the south-southeast. The water table contours are depicted on **Figure 5 – Groundwater Contour Map**. The water-level measurements are provided in **Table 1**. To avoid cross contamination between wells, the immersed portion of the water-level indicator was cleaned between measurements with a detergent solution, followed by a potable water rinse.

Prior to sample collection, the wells were purged using the low-flow sampling technique. A Geoprobe Model MBP470 bladder pump and dedicated polyethylene tubing was used to purge the wells at a pumping rate no greater than one-half liter per minute (LPM). While purging the well, field parameters including pH, temperature, specific conductivity, dissolved oxygen, turbidity and oxidation/reduction potential (ORP) were measured at five-minute intervals within a Horiba U-52 Multi-parameter Meter with flow through cell. The wells were considered to be purged when field parameters of the discharge water stabilized within consecutive readings within 10 percent and turbidity was below 50 NTUs. A summary of field parameter measurements collected during purging of the monitoring wells is provided in **Table 2**. The purged water was containerized in a 55-gallon drum pending proper off-site disposal.

Once purged, the pumping rate was slowed to approximately 0.1 LPM, water from the pump discharge was placed directly into laboratory-supplied sample bottles using care not aerate the sample. The samples were then placed in an ice-filled insulated cooler to maintain a temperature of approximately 4° Celsius. The samples were submitted to Phoenix Environmental Laboratories, Inc. for analysis of Target Compound List (TCL) volatile organic compounds (VOCs) using USEPA Method 8260.

3.2 Sub-Slab Soil Vapor/Ambient Air Sampling

One sub-slab soil vapor sample, SSV-1, was collected beneath the poured concrete slab within the basement of the Laundromat on the subject property in compliance with the New York Department of Health (NYSDOH) *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* issued in October of 2006 (hereinafter, the NYSDOH Guidance Document). The location of the sub-slab vapor and soil vapor samples are provided on **Figure 4 – Site Pan.**

Sub-slab soil vapor sampling points SSV-2, SSV-3, SSV-4, and SSV-5 were installed using hand-held power tools in the basement areas of the grocery store, dental office, nail salon, and delicatessen, respectively. The soil vapor points consisted of one-quarter inch polyethylene tubing set approximately two inches beneath the bottom of the concrete floor slab. The annular space surrounding the end of the tubing was filled with washed #1 crushed stone as a filter pack. Bentonite clay was then installed atop of the filter pack and hydrated to prevent atmospheric air infiltration.

As a quality assurance/quality control (QA/QC) measure, a one-gallon container was sealed with bentonite surrounding the sub-slab vapor sampling tube, and helium gas was introduced into the container as a tracer gas. A helium detector was then connected to the sub-slab sampling tubing, which was run through the sealed container, to check for possible leaks in the floor seal. Helium was not detected leaking into the sub-slab vapor points indicating the floor seals were sufficient.

The two temporary soil vapor sampling points, SSV-6 and SSV-7, were installed using a Geoprobe rig. Soil vapor sample point SSV-6 was installed in the northern portion of the Subject Property's parking lot and sample point SSV-7 was installed within the southern sidewalk of Sutter Avenue opposite of the Subject Property. The soil vapor points consisted of one-quarter inch polyethylene tubing set at approximately four feet below grade. The annular space surrounding the tubing was filled with washed #1 crushed stone to approximately three feet below grade as a filter pack and bentonite clay was installed atop of the filter pack to grade to prevent atmospheric air infiltration.

Following installation, the sub-slab vapor and soil vapor sampling points were purged of three tubing volumes at a flow rate no greater than 0.2 liters per minute (L/m) using a PID. The initial PID reading during the sampling point purge was recorded to be approximately 21 PPM in SSV-2, 2.0 PPM in SSV-3, 4.0 PPM in SSV-4, 3.5 PPM in SSV-5, 7.0 PPM in SSV-6, and 1.0 PPM in SSV-7. Once purged, laboratory-supplied 2.7-liter vacuum Summa canisters were connected to the sub-slab vapor and soil vapor sample points and the samples collected over approximately eight hours using a flow regulator calibrated by the laboratory for a flow rate of approximately 0.0125 L/m. The sampling tubing was connected to the Summa canister using the appropriate air-tight compression fitting.

Concurrently, indoor air quality and outdoor air quality samples were collected over the same duration as the sub-slab vapor and soil vapor samples. The indoor/outdoor air samples were collected using laboratory-supplied 2.7-liter Summa canisters set atop three-foot tall stand to represent the air quality within the typical breathing zone to establish indoor air conditions at the Subject Property.

3.3 Waste Disposal

Groundwater from well development and sampling activities was containerized into United States Department of Transportation (USDOT) approved 55-gallon drums, labeled and stored at the rear of the laundromat. Soiled personal protective equipment, disposable sampling equipment, and supplies were placed into a plastic bag and disposed of as trash. The disposal records for the drums at the subject property will be provided upon removal.

3.4 Quality Assurance

The following quality assurance measures were conducted during the Supplemental Site Characterization. A Quality Assurance Officer (QAO) is not believed to be required for this project. These measures were conducted to provide accurate, representative data in the characterization of environmental conditions at the subject property.

3.4.1 Instrument Calibration

The field instruments used to field screen the groundwater parameters and soil vapor were calibrated daily prior to the start of the sampling activities. The calibration and operation of the field instruments was within manufacturer's recommendations during the Supplemental Site Characterization.

3.4.2 Decontamination Procedures

In order to ensure sample integrity and reduce the risk of cross-contamination, all non-disposable sampling equipment was decontaminated before and after each use. The equipment was washed with a detergent and water solution to remove all residual materials, rinsed with potable water, and then allowed to air dry. All disposable materials, such as the groundwater and soil vapor sampling tubing was utilized new and then discarded after a single use.

3.4.3 Chain-of-Custody Protocol

The groundwater and vapor samples that were submitted for laboratory analysis were recorded on a chain-of-custody form. The chain-of-custody form includes information such as the site location, the sample date, the time of sample collection, the required analysis, preservatives utilized, sample designation, and the name and signature of the person who conducted the sampling. Finally, the chain-of-custody is signed by the laboratory representative who received the samples for analysis. Completed copies of the chain-of-custody are included with the laboratory data packages.

3.5 Community Air Monitoring Program

The Community Air Monitoring Plan (CAMP) as established in the Work Plan was conducted during all intrusive field work. Continuous monitoring of VOCs was conducted using a MiniRAE 2000 PID at the appropriate upwind and downwind locations. Based on the site setting and the proposed scope of work, AES did not perform particulate monitoring during the Site Characterization. The PID was calibrated at least once daily in compliance with the manufacturer's specifications. At no time during the Site Characterization did the downwind VOC concentrations exceed the established action level of five ppm above background.

4.0 RESULTS

Copies of the laboratory analytical reports for the groundwater and vapor/air samples are provided in Appendix A. The groundwater samples were submitted for analysis of Target Compound List (TCL) volatile organic compounds (VOCs) USEPA Method 8260. The analytical results for the groundwater samples were compared to the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (Water Quality Values).

Soil vapor, indoor air and outdoor ambient air samples were submitted for analysis of VOCs using USEPA Method TO-15. The analytical results for the vapor/air samples were compared to the NYSDOH Guidance Document decision matrices provided therein and the USEPA OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathways from Groundwater and Soils (Subsurface Vapor Intrusion Guidance) dated November 2002.

4.1 Groundwater Data

Groundwater elevation data indicates groundwater flow is to the south-southeast, consistent with regional groundwater conditions. The groundwater beneath the subject property is observed at a hydraulic gradient of approximately 0.0062 feet per foot.

The data for the groundwater sample collected from MW-5D indicated that acetone was present at 6 micrograms per liter (ug/L), chloroform at 0.88 ug/L, cis-1,2-dichloroethene at 0.44 ug/L, tetrachloroethene (PERC) at 1.9 ug/L and trichloroethene (TCE) at 1.8 ug/L. None of the detected concentrations exceeded the respective NYSDEC Water Quality Standards.

The data for the groundwater sample collected from MW-6S indicated that acetone was present at 4 ug/L, chloroform at 0.54 ug/L and PERC at 1.4 ug/L. None of the detected concentrations exceeded the respective NYSDEC Water Quality Standards.

The data for the groundwater sample collected from MW-6D indicated that acetone was present at 6.9 ug/L, chloroform at 0.58 ug/L, and PERC at 0.32 ug/L. None of the detected concentrations exceeded the respective NYSDEC Water Quality Standards.

The data for the groundwater sample collected from MW-7S indicated that acetone was present at 3.7 ug/L, chloroform at 1.4 ug/L, PERC at 8.2 ug/L and TCE at 0.52 ug/L. None of the detected concentrations exceeded the respective NYSDEC Water Quality Standards with the exception of PERC which was above the Groundwater Standard of 5 ug/L.

The data for the groundwater sample collected from MW-7D indicated that acetone was present at 3.7 ug/L, chloroform at 2.3 ug/L, cis-1,2-dichloroethene at 1.8 ug/L, PERC at 1.9 ug/L and TCE at 3.2 ug/L. None of the detected concentrations exceeded the respective NYSDEC Water Quality Standards.

The data for the groundwater sample collected from MW-8S indicated that acetone was present at 4.3 ug/L, cis-1,2-dichloroethene at 3.2 ug/L, PERC at 11 ug/L and TCE at 1.5 ug/L. None of the detected concentrations exceeded the respective NYSDEC Water Quality Standards with the exception of PERC.

The data for the groundwater sample collected from MW-8D indicated that chloroform was detected at 0.88 ug/L and PERC at 3.5 ug/L. None of the detected concentrations exceeded the respective NYSDEC Water Quality Standards.

A summary of the current VOC concentrations detected in the groundwater monitoring wells as well as the historical groundwater data at the subject property is provided in **Table 3** and depicted on **Figure 6 – Groundwater Data Map**. The analytical data report is included in **Appendix A**.

4.2 Soil Vapor/Indoor & Outdoor Air Data

Analysis of the sub-slab vapor sample SSV-2 detected concentrations of eight VOCs beneath the grocery store portion of the building. Of concern from the former use of the property as a dry cleaner, tetrachloroethene (PCE) was detected at 20,100 micrograms per cubic meter (ug/m³), and

trichloroethene (TCE) was detected at 677 ug/m³. Additionally, concentrations of chloroform at 222 ug/m³, toluene at 40.7 ug/m³, ethyl benzene at 11 ug/m³, m+p xylene at 41 ug/m³, o xylene at 13.9 ug/m³, and 1,2,4-trimethylbenzene at 16 ug/m³ were detected in sample SSV-2. The concentrations of PCE, TCE, and chloroform were in exceedance of the USEPA Subsurface Vapor Intrusion Guidance Target Shallow Soil Gas Concentration (TSSGC) values.

Analysis of the sub-slab vapor sample SSV-3 detected concentrations of 18 VOCs beneath the dental office portion of the building. Of concern from the former use of the property as a dry cleaner, PCE was detected at 0.678 ug/m³, and 1,1,1-trichloroethane (1,1,1-TCA) was detected at 0.207 ug/m³. Additionally, concentrations of dichlorodifluoromethane at 9.2 ug/m³, 1,3-butadiene at 8.5 ug/m³, chloroethane at 0.161 ug/m³, trichlorofluoromethane at 5.61 ug/m³, Freon 113 at 0.537 ug/m³, chloroform at 2.57 ug/m³, 1,2-dichloroethane at 0.271 ug/m³, benzene at 3.35 ug/m³, toluene at 43.3 ug/m³, ethyl benzene at 11.3 ug/m³, m+p xylene at 46.9 ug/m³, styrene at 0.485 ug/m³, o xylene at 15.9 ug/m³, 4-ethyltoluene at 5.9 ug/m³, 1,3,5-trimethylbenzene at 5.75 ug/m³, and 1,2,4-trimethylbenzene at 21.5 ug/m³ were detected in sample SSV-3. No concentrations of the VOCs detected in sample SSV-3 were in exceedance of the USEPA Subsurface Vapor Intrusion Guidance TSSGC values.

Analysis of the sub-slab vapor sample SSV-4 detected concentrations of 18 VOCs beneath the nail salon portion of the building. Of concern from the former use of the property as a dry cleaner, PCE was detected at 16.4 ug/m³, TCE was detected at 0.167 ug/m³, and 1,1,1-TCA was detected at 0.235 ug/m³. Additionally, concentrations of dichlorodifluoromethane at 9.05 ug/m³, 1,3-butadiene at 15 ug/m³, chloroethane at 0.063 ug/m³, trichlorofluoromethane at 4.07 ug/m³, Freon 113 at 0.69 ug/m³, chloroform at 6.79 ug/m³, benzene at 6.71 ug/m³, toluene at 45.6 ug/m³, ethyl benzene at 14.6 ug/m³, m+p xylene at 59.9 ug/m³, styrene at 0.553 ug/m³, o xylene at 27.1 ug/m³, 4-ethyltoluene at 6.49 ug/m³, 1,3,5-trimethylbenzene at 6.49 ug/m³, and 1,2,4-trimethylbenzene at 23.9 ug/m³ were detected in sample SSV-4. The concentration of 1,3-butadiene was in exceedance of the USEPA Subsurface Vapor Intrusion Guidance TSSGC value.

Analysis of the sub-slab vapor sample SSV-5 detected concentrations of 20 VOCs beneath the delicatessen portion of the building. Of concern from the former use of the property as a dry cleaner, PCE was detected at 2.9 ug/m³, TCE was detected at 2.09 ug/m³, carbon tetrachloride (carbon tet) was detected at 0.176 ug/m³, and cis-1,2-dichloroethene (c-1,2-DCE) was detected at 0.163 ug/m³. Additionally, concentrations of dichlorodifluoromethane at 4.32 ug/m³, 1,3-butadiene at 1.67 ug/m³, chloroethane at 0.087 ug/m³, trichlorofluoromethane at 5.62 ug/m³, Freon 113 at 0.606 ug/m³, chloroform at 18.6 ug/m³, 1,2-dichloroethane at 0.409 ug/m³, benzene at 4.92 ug/m³, toluene at 55.4 ug/m³, ethyl benzene at 13.0 ug/m³, m+p xylene at 52.6 ug/m³, styrene at 0.528 ug/m³, o xylene at 17.7 ug/m³, 4-ethyltoluene at 6.24 ug/m³, 1,3,5-trimethylbenzene at 5.95 ug/m³, and 1,2,4-trimethylbenzene at 22.9 ug/m³ were detected in sample SSV-5. No concentrations of the VOCs detected in sample SSV-5 were in exceedance of the USEPA Subsurface Vapor Intrusion Guidance TSSGC values.

Analysis of the soil vapor sample SSV-6 detected concentrations of eight VOCs beneath the northern portion of the Subject property parking lot. Of concern from the former use of the property as a dry cleaner, PCE was detected at 214 ug/m³, and TCE was detected at 7.69 ug/m³. Additionally, concentrations of 1,3-butadiene at 2.99 ug/m³, toluene at 59.2 ug/m³, ethyl benzene at 11.4 ug/m³, m+p xylene at 41.0 ug/m³, o xylene at 13.9 ug/m³, and 1,2,4-trimethylbenzene at 9.83 ug/m³ were detected in sample SSV-6. No concentrations of the VOCs detected in sample SSV-6 were in exceedance of the USEPA Subsurface Vapor Intrusion Guidance TSSGC values.

Analysis of the soil vapor sample SSV-7 detected concentrations of 10 VOCs beneath the sidewalk along the south side of Sutter Avenue. No concentrations of the VOCs commonly associated with the former use of the property as a dry cleaner were detected in sample SSV-7. Concentrations of dichlorodifluoromethane at 3.16 ug/m³, 1,3-butadiene at 1.37 ug/m³, benzene at 4.54 ug/m³, toluene at 50.5 ug/m³, ethyl benzene at 11.2 ug/m³, m+p xylene at 42.3 ug/m³, o xylene at 14.2 ug/m³, 4-ethyltoluene at 4.23 ug/m³, 1,3,5-trimethylbenzene at 4.18 ug/m³, and 1,2,4-trimethylbenzene at 15.1 ug/m³ were detected in sample SSV-7. No concentrations of the VOCs detected in sample SSV-7 were in exceedance of the USEPA Subsurface Vapor Intrusion Guidance TSSGC values.

The indoor air sample, ASV-2, detected 20 VOCs within the basement of the grocery store. Of the VOCs detected in the corresponding sub-slab vapor sample SSV-2; chloroform at 8.74 ug/m³, toluene at 10.9 ug/m³, PCE at 1.89 ug/m³, ethyl benzene at 1.34 ug/m³, m+p xylenes at 5.21 ug/m³, o xylene at 2.16 ug/m³, and 1,2,4-trimethylbenzene at 4.36 ug/m³ were also detected in sample ASV-2. The remaining VOCs detected in ASV-2 included dichlorodifluoromethane, chloromethane, 1,3-butadiene, chloroethane, trichlorofluoromethane, Freon 113, benzene, carbon tet, bromodichloromethane, styrene, 4-ethyltoluene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, and 1,4-dichlorobenzene. Concentrations of these remaining VOCs in sample ASV-2 ranged from 0.124 ug/m³ of chloroethane to 8.99 ug/m³ of trichlorofluoromethane, but with typical concentrations of less than 2 ug/m³.

The indoor air sample, ASV-3, detected 21 VOCs within the basement of the dental office. Of the VOCs detected in the corresponding sub-slab vapor sample SSV-3; dichlorodifluoromethane at 2.18 ug/m³, 1,3-butadiene at 0.407 ug/m³, chloroethane at 0.092 ug/m³, trichlorofluoromethane at 7.19 ug/m³, Freon 113 at 0.713 ug/m³, chloroform at 8.06 ug/m³, benzene at 1.44 ug/m³, toluene at 14.7 ug/m³, PCE at 0.983 ug/m³, ethyl benzene at 1.35 ug/m³, m+p xylenes at 4.86 ug/m³, styrene at 0.732 ug/m³, o xylene at 1.83 ug/m³, 4-ethyltoluene at 1.29 ug/m³, 1,3,5-trimethylbenzene at 1.34 ug/m³, and 1,2,4-trimethylbenzene at 4.49 ug/m³ were also detected in sample ASV-3. The remaining VOCs detected in ASV-3 included chloromethane, carbon tet, bromodichloromethane, TCE, and 1,4-dichlorobenzene. Concentrations of these remaining VOCs in sample ASV-3 ranged from 0.113 ug/m³ of TCE to 1.73 ug/m³ of chloromethane, but with typical concentrations of less than 1 ug/m³.

The indoor air sample, ASV-4, detected 20 VOCs within the basement of the nail salon. Of the VOCs detected in the corresponding sub-slab vapor sample SSV-4; dichlorodifluoromethane at 3.45 ug/m³, 1,3-butadiene at 0.341 ug/m³, chloroethane at 0.069 ug/m³, trichlorofluoromethane at 5.55 ug/m³, Freon 113 at 0.636 ug/m³, chloroform at 4.88 ug/m³, benzene at 1.33 ug/m³, toluene at 39.2 ug/m³, PCE at 0.976 ug/m³, ethyl benzene at 2.01 ug/m³, m+p xylenes at 6.04 ug/m³, styrene at 0.728 ug/m³, o xylene at 2.25 ug/m³, 4-ethyltoluene at 1.42 ug/m³, 1,3,5-trimethylbenzene at 1.47 ug/m³, and 1,2,4-trimethylbenzene at 4.51 ug/m³ were also detected in sample ASV-4. The remaining VOCs detected in ASV-4 included chloromethane, methylene chloride, carbon tet, and 1,4-dichlorobenzene. Concentrations of these remaining VOCs in sample ASV-4 ranged from 0.484 ug/m³ of carbon tet to 7.5 ug/m³ of methylene chloride, but with typical concentrations of less than 2 ug/m³.

The indoor air sample, ASV-5, detected 21 VOCs within the basement of the delicatessen. Of the VOCs detected in the corresponding sub-slab vapor sample SSV-5; dichlorodifluoromethane at 4.29 ug/m³, 1,3-butadiene at 0.192 ug/m³, chloroethane at 0.063 ug/m³, trichlorofluoromethane at 6.18 ug/m³, Freon 113 at 0.981 ug/m³, chloroform at 4.88 ug/m³, benzene at 1.03 ug/m³, carbon tet at 0.497 ug/m³, toluene at 5.88 ug/m³, PCE at 0.685 ug/m³, ethyl benzene at 0.786 ug/m³, m+p xylenes at 2.81 ug/m³, styrene at 0.366 ug/m³, o xylene at 1.16 ug/m³, 4-ethyltoluene at 0.787 ug/m³, 1,3,5-trimethylbenzene at 0.846 ug/m³, and 1,2,4-trimethylbenzene at 2.85 ug/m³ were also detected in sample ASV-5. The remaining VOCs detected in ASV-5 included chloromethane, methylene chloride, bromodichloromethane, and 1,4-dichlorobenzene. Concentrations of these remaining VOCs in sample ASV-5 ranged from 0.141 ug/m³ of bromodichloromethane to 4.79 ug/m³ of methylene chloride, but with typical concentrations of less than 2 ug/m³.

The outdoor air sample, OA-1, detected 21 VOCs in the ambient air. The VOCs detected in ambient air included dichlorodifluoromethane, chloromethane, 1,3-butadiene, chloroethane, trichlorofluoromethane, methylene chloride, Freon 113, trans-1,2-dichloroethene, chloroform, 1,2-dichloroethane, benzene, carbon tet, toluene, PCE, ethylbenzene, m+p xylenes, styrene, o xylene, 4-ethyltoluene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, and 4-dichlorobenzene. Concentrations of VOCs detected in the ambient air ranged from 0.069 ug/m³ of chloroethane to 73.1 ug/m³ of toluene. A summary of the sub-slab vapor and indoor/outdoor air sample data is provided in **Table 4** and is depicted on **Figure 7 – Soil Vapor/Ambient Air Data Map**. The analytical data report is included in **Appendix A**.

4.3 Data Usability Summary Report

The analytical results were provided as a New York Analytical Services Protocol (ASP) Category B data packages. The laboratory data packages are being evaluated by MJW Corporation to determine if the data is appropriate and accurate for the evaluation of the site conditions. A Data Usability Summary Report as described in Appendix 2B of DER-10 will be provided upon receipt.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Groundwater Quality

Groundwater elevation data collected during the Site Characterization has identified groundwater flow beneath the subject property is to the south-southeast, consistent with regional groundwater flow. Groundwater flow was measured at a gradient of 0.0062 feet per foot.

Groundwater sampling was conducted in wells MW-5D, MW-6S, MW-6D, MW-7S, MW-7D, MW-8S and MW-8D using low-flow purge and sampling procedures to assess current conditions at the property. Measurements of temperature, specific conductivity, pH, DO, ORP, and turbidity were determined to have stabilized prior to sample collection. Samples were collected directly from the bladder pump discharge operating at approximately 0.1 LPM, properly preserved, and submitted to Phoenix Environmental Laboratories, Inc.

The analytical data for the groundwater samples collected from MW-5D, MW-6S, MW-6D, MW-7D and MW-8D indicated that there were no contaminants detected above the respective NYSDEC Groundwater Standards. The data for the samples from MW-7S and MW-8S indicated that PERC was detected slightly above the respective Groundwater Standard in both samples.

AES recommends to monitor and sample the wells on a quarterly basis to track the degradation of the contaminant plume. Groundwater samples will be collected using the established low-flow protocols for the property and submit the samples for laboratory analysis of TCL VOCs using USEPA Method 8260.

5.2 Soil Vapor Intrusion

Of the compounds identified in the NYSDOH Guidance, the concentrations of VOCs detected in the sub-slab soil vapor sample SSV-2 will necessitate mitigation as indicated by the decision matrices criteria regardless of the indoor air quality. Concentrations of PCE and chloroform, reported in the sub-slab vapor SSV-2, were also detected in the indoor air sample, however, no concentration of TCE was reported in the corresponding indoor air sample. The data from the additional sub-slab vapor samples from beneath the Subject Property building in the areas of the dentist office, nail salon, and delicatessen did not detect actionable concentrations as indicated by the NYSDOH decision matrices.

The soil vapor data from SSV-7 located south of Sutter Avenue shows no detectable concentrations of the VOCs related to the former dry cleaning operations at the Subject Property. However, the data from soil vapor sample SSV-6 from beneath the northern portion of the parking lot of the subject property detected concentrations of PCE and TCE which indicate future monitoring of soil vapor in this area may be warranted.

AES recommends the installation and operation of a sub-slab depressurization system beneath the Laundromat and grocery store portions of the building. The system will be designed and installed in conformance with the USEPA Radon Prevention in the Design and Construction of Schools and Other Large Buildings, June 1994. Prior to installation, a pilot test will be conducted to assure proper coverage and design of the sub-slab depressurization system.

Subsequent to installation and initial operation of the sub-slab depressurization system beneath the building, AES recommends the installation of a permanent vapor monitoring point in the parking lot covering the northern portion of the Subject Property. Subsequent testing at this location would be utilized to determine if additional mitigation could be warranted in this portion of the site.

Prepared By:



Matthew Boeckel
Project Manager
Associated Environmental Services, Ltd.

TABLES



**Associated
Environmental
Services, Ltd.**

Table 1
Water-Level Measurements
1199 Sutter Avenue, Brooklyn, New York
NYSDEC Site ID # 224141

Monitoring Well	Date	Measuring Point Elevation (feet)	Depth to Water (feet)	Water Table Elevation (feet)
MW-1S	10/14/2009	15.79	12.50	3.29
	2/25/2010		13.15	2.64
	7/19/2011		12.67	3.12
	3/20/2015		11.75	4.04
MW-1D	10/14/2009	15.90	12.58	3.32
	7/19/2011		12.74	3.16
	3/20/2015		11.83	4.07
MW-2S	10/14/2009	16.33	13.03	3.30
	2/25/2010		12.52	3.81
	7/19/2011		13.19	3.14
	3/20/2015		12.35	3.98
MW-2D	10/14/2009	16.44	13.12	3.32
	7/19/2011		13.29	3.15
	3/20/2015		12.43	4.01
MW-3S	10/14/2009	16.40	12.94	3.46
	2/25/2010		13.46	2.94
	7/19/2011		13.10	3.30
	3/20/2015		12.15	4.25
MW-3D	10/14/2009	16.78	13.36	3.42
	7/19/2011		13.52	3.26
	3/20/2015		12.56	4.22
MW-4S	10/14/2009	NA	5.08	NA
	2/25/2010		5.69	NA
	7/19/2011		5.85	NA
	3/20/2015		5.55	NA
MW-5S	7/19/2011	16.13	13.15	2.98
	3/20/2015		12.68	3.45
MW-5D	3/20/2015	16.09	12.67	3.42
MW-6S	3/20/2015	15.70	12.22	3.48

Table 1
Water-Level Measurements
1199 Sutter Avenue, Brooklyn, New York
NYSDEC Site ID # 224141

MW-6D	3/20/2015	15.16	11.71	3.45
MW-7S	3/20/2015	16.34	12.90	3.44
MW-7D	3/20/2015	16.38	12.95	3.43
MW-8S	3/20/2015	16.10	13.03	3.07
MW-8D	3/20/2015	16.35	13.31	3.04



Table 2.
Purge Parameter Summary
1199 Sutter Avenue
Brooklyn, New York
NYSDEC Site ID #224141

Monitoring Well	Date	Time	pH (units)	Specific Conductivity (mS/cm)	Temp (degrees C)	Dissolved Oxygen (mg/L)	Redox (mV)
MW-3S	7/20/11	8:06	3.85	0.000	27.71	7.93	241
		8:11	4.05	0.000	24.36	8.94	228
		8:16	4.18	0.000	23.52	8.96	217
		8:21	4.30	0.000	23.13	8.91	202
		8:26	4.32	0.000	22.38	9.12	195
		8:31	4.36	0.000	22.34	9.13	197
MW-5	7/20/11	9:00	3.88	0.001	26.48	8.80	235
		9:05	3.98	0.001	24.66	9.33	230
		9:10	4.15	0.001	21.92	9.77	222
		9:15	4.25	0.000	20.54	9.80	217
		9:20	4.27	0.000	19.83	9.68	213
		9:25	4.30	0.000	19.45	9.61	209
		9:30	4.36	0.000	19.38	9.52	205
MW-2S	7/20/11	9:57	3.95	0.000	24.44	8.87	225
		10:02	3.98	0.000	23.94	9.10	226
		10:07	4.02	0.000	23.20	9.38	220
		10:12	4.15	0.000	22.58	9.52	211
		10:17	4.29	0.000	22.37	9.52	197
		10:22	4.49	0.000	22.04	9.52	179
		10:27	4.48	0.000	21.77	9.53	179
MW-1S	7/20/11	10:52	4.09	0.000	26.83	8.89	209
		10:57	4.18	0.000	26.02	9.13	202
		11:02	4.35	0.000	24.12	9.57	188
		11:07	4.60	0.000	23.35	9.67	169
		11:12	4.88	0.000	22.50	9.73	144
		11:17	4.78	0.000	22.33	9.59	152
		11:22	4.86	0.000	22.29	9.62	147

mS/cm Millisiemen per centimeter
C Celsius
mg/L Milligrams per liter
mV Millivolts
NTU Nephelometric Turbidity Units



Table 2.
Purge Parameter Summary
1199 Sutter Avenue
Brooklyn, New York
NYSDEC Site ID #224141

Monitoring Well	Date	Time	pH (units)	Specific Conductivity (mS/cm)	Temp (degrees C)	Dissolved Oxygen (mg/L)	Redox (mV)
MW-4	7/20/11	12:17	4.19	0.000	27.38	8.73	209
		12:22	4.39	0.000	25.78	8.95	201
		12:27	4.75	0.000	24.41	9.09	180
		12:32	4.93	0.000	22.80	9.16	160
		12:37	4.91	0.000	21.95	9.11	160
		12:42	4.85	0.000	21.40	8.99	162
		12:47	4.83	0.000	21.36	8.99	162
MW-3D	7/20/11	1:42	4.15	0.000	27.29	8.27	202
		1:47	4.24	0.000	26.46	8.56	196
		1:52	4.60	0.000	24.15	9.07	171
		1:57	4.90	0.000	23.40	9.22	149
		2:02	4.90	0.000	22.98	9.22	151
		2:07	4.87	0.000	23.08	9.20	152
MW-2D	7/20/11	2:30	4.19	0.000	27.38	8.73	209
		2:35	4.39	0.000	25.78	8.95	201
		2:40	4.75	0.000	24.41	9.09	180
		2:45	4.93	0.000	22.80	9.16	160
		2:50	4.91	0.000	21.95	9.11	160
		2:55	4.85	0.000	21.40	8.99	162
MW-1D	7/20/11	3:51	4.51	0.000	29.27	8.40	188
		3:56	4.65	0.000	27.33	8.87	181
		4:01	5.22	0.000	25.00	9.25	134
		4:06	5.12	0.000	23.35	9.30	138
		4:11	5.06	0.000	22.88	9.20	143
		4:16	4.97	0.000	22.76	9.05	150
		4:21	4.93	0.000	22.68	8.96	152

mS/cm Millisiemen per centimeter
C Celsius
mg/L Milligrams per liter
mV Millivolts
NTU Nephelometric Turbidity Units



Table 2.
Purge Parameter Summary
1199 Sutter Avenue
Brooklyn, New York
NYSDEC Site ID #224141

Monitoring Well	Date	Time	pH (units)	Specific Conductivity (mS/cm)	Temp (degrees C)	Dissolved Oxygen (mg/L)	Redox (mV)
MW-5D	3/20/15	9:35	5.89	0.805	12.17	3.35	44
		9:40	5.91	0.836	13.72	2.85	36
		9:45	5.91	0.809	14.38	4.08	31
		9:50	5.92	0.807	14.42	4.15	35
		9:55	5.92	0.798	14.06	4.25	41
		10:00	5.92	0.801	14.38	4.52	44
		10:05	5.93	0.807	14.16	4.42	42
MW-6S	3/20/15	9:15	5.98	0.692	12.36	1.96	16
		9:20	5.95	0.656	12.34	1.59	15
		9:25	5.94	0.659	12.35	1.86	22
		9:30	5.93	0.656	12.74	1.64	24
MW-6D	3/20/15	8:30	6.51	1.070	12.74	2.21	24
		8:35	6.31	1.050	13.39	2.23	21
		8:40	6.29	1.040	13.12	2.21	22
		8:45	6.30	1.060	13.13	1.19	23
		8:50	6.27	1.070	13.46	1.22	21
		8:55	6.15	1.070	13.39	1.19	21
		9:00	6.11	1.080	13.39	1.18	21
MW-7S	3/20/15	10:50	5.98	0.934	12.08	6.80	70
		10:55	5.90	1.050	13.31	3.70	91
		11:00	5.87	1.010	13.29	3.39	101
		11:05	5.69	1.040	13.74	3.29	107
		11:10	5.69	1.100	13.65	3.21	103
		11:15	5.88	1.080	13.55	3.29	110
		11:20	5.89	1.120	13.50	3.31	108
		11:25	5.86	1.110	13.63	3.25	105
		11:30	5.79	1.150	13.61	3.30	104
		11:35	5.63	1.120	13.59	3.35	103

mS/cm Millisiemen per centimeter
C Celsius
mg/L Milligrams per liter
mV Millivolts
NTU Nephelometric Turbidity Units



Table 2.
Purge Parameter Summary
1199 Sutter Avenue
Brooklyn, New York
NYSDEC Site ID #224141

Monitoring Well	Date	Time	pH (units)	Specific Conductivity (mS/cm)	Temp (degrees C)	Dissolved Oxygen (mg/L)	Redox (mV)
MW-7D	3/20/15	10:20	5.88	0.770	11.06	7.35	65
		10:25	5.90	0.768	14.88	7.32	61
		10:30	5.90	0.773	13.80	7.04	61
		10:35	5.90	0.772	14.07	7.05	59
		10:40	5.85	0.775	14.17	7.03	58
MW-8S	3/20/15	12:10	5.81	0.906	15.60	1.90	25
		12:15	5.87	0.900	15.59	1.52	25
		12:20	5.83	0.898	15.49	1.34	22
		12:25	5.88	0.899	15.67	1.23	21
		12:30	5.88	0.901	15.79	1.26	22
		12:35	5.90	0.918	16.01	1.19	18
		12:40	5.79	0.899	16.03	1.25	18
		12:40	5.81	0.912	16.05	1.19	19
MW-8D	3/20/15	12:50	5.87	0.816	13.88	5.77	37
		12:55	5.86	0.801	13.99	5.24	33
		1:00	5.86	0.799	13.90	5.30	40
		1:05	5.79	0.812	13.87	5.41	38
		1:10	5.71	0.822	13.91	5.37	38

Table 3

Summary of Groundwater Sample Data
1199 Sutter Avenue
Brooklyn, New York
NYSDEC Site No. #224141

Parameters	Sample Designation: Date: TOGS Value	Corresponding Phase II Data Monitoring Well									Corresponding Phase II Data Monitoring Well														
		B-6					MW-1S				MW-1D			B-5					MW-2S				MW-2D		
		4/1/09	8/27/09	11/2/09	2/25/10	7/20/11	8/27/09	11/2/09	7/20/11	4/1/09	8/27/09	11/2/09	2/25/10	7/20/11	8/27/09	11/2/09	7/20/11								
2-Butanone	50	<3.0	<10	<10	<10	<10	<10	<10	<5	<3.0	<10	<10	<10	<5	<10	<10	<5								
Acetone	50	<2.0	<50	<50	<50	<10	<50	<50	<5	<2.0	<50	<50	<50	<5	<50	<50	<5								
Chloroform	7	<1.0	<5	<5	<5	30	<5	<5	0.9	<1.0	<5	<5	<5	13	<5	<5	1.1								
cis-1,2-Dichloroethene	5	4.6	<5	<5	5.82	0.71 J	<5	<5	<0.5	6.8	<5	<5	<5	0.20 J	<5	<5	<0.5								
Tetrachloroethene	5	380	98.3	48.2	172	84	5	<5	6.8	93	18.9	<5	<5	10	<5	<5	9.6								
Bromodichloromethane	50	<1.0	<5	<5	<5	1.2	<5	<5	<0.5	<1.0	<5	<5	<5	0.63	<5	<5	<0.5								
Vinyl Chloride	2	<1.0	<5	<5	<5	<2.0	<5	<5	<1.0	<1.0	<5	<5	<5	<1.0	<5	<5	<1.0								
trans-1,2-Dichloroethene	5	<1.0	<5	<5	<5	<1.5	<5	<5	0.21 J	<1.0	<5	<5	<5	0.46 J	<5	<5	0.40 J								
Trichloroethene	5	14	<5	<5	8.37	3.2	<5	<5	1.7	2.7	<5	<5	<5	0.36 J	<5	<5	0.95								

Notes:

All data is in micrograms per liter (ug/L)

TOGS - NYSDEC Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values

NA - Not analyzed/not available

Bold indicate an exceedance of the applicable regulatory guidance value.



Table 3

Summary of Groundwater Sample Data
1199 Sutter Avenue
Brooklyn, New York
NYSDEC Site No. #224141

Parameters	Sample Designation: Date: TOGS Value	Corresponding Phase II Monitoring Well									Corresponding Phase II Monitoring Well								
		S2					MW-3S				MW-3D				B-7				
		1/6/09	8/27/09	11/2/09	2/25/10	7/20/11	8/27/09	11/2/09	7/20/11	8/27/09	11/2/09	7/20/11	8/27/09	11/2/09	7/20/11	8/27/09	11/2/09	7/20/11	8/27/09
2-Butanone	50	<0.21	<10	<10	<10	<5	<10	<10	<5	<3.0	24.4	<10	<10	<12	<10	<10	<12	<10	<12
Acetone	50	10.3	<50	<50	<50	<5	<50	<50	<5	<2.0	577	<50	<50	<12	<50	<50	<12	<50	<12
Chloroform	7	<0.14	<5	<5	<5	14	<5	<5	1.8	<1.0	97.7	<5	<5	15	<5	<5	29	<5	29
cis-1,2-Dichloroethene	5	NA	<5	<5	<5	<0.5	<5	<5	0.34 J	81	<5	16.9	<5	4.3	<5	<5	9.8	<5	9.8
Tetrachloroethene	5	187	<5	14.9	<5	0.73	<5	<5	20	610	51	359	348	470	23.1	<5	98	<5	98
Bromodichloromethane	50	<0.14	<5	<5	<5	1.1	<5	<5	<0.5	<1.0	<5	<5	<5	<1.2	<5	<5	<1.2	<5	<1.2
Vinyl Chloride	2	<0.14	<5	<5	<5	<1.0	<5	<5	<1.0	<1.0	<5	<5	<5	<2.5	<5	<5	0.70 J	<5	0.70 J
trans-1,2-Dichloroethene	5	<0.14	<5	<5	<5	0.65 J	<5	<5	0.51 J	<1.0	<5	<5	<5	0.67 J	<5	<5	0.60 J	<5	0.60 J
Trichloroethene	5	1.5	<5	<5	<5	<0.5	<5	<5	1.1	42	<5	20.4	11.9	14	<5	<5	5.2	<5	5.2

Notes:

All data is in micrograms per liter (ug/L)

TOGS - NYSDEC Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values

NA - Not analyzed/not available

Bold indicate an exceedance of the applicable regulatory guidance value.



Table 3

Summary of Groundwater Sample Data
1199 Sutter Avenue
Brooklyn, New York
NYSDEC Site No. #224141

Parameters	Sample Designation: Date: TOGS Value	Monitoring Well	Monitoring Well		Monitoring Well		Monitoring Well	
		MW-5D 3/20/15	MW-6S 3/20/15	MW-6D 3/20/15	MW-7S 3/20/15	MW-7D 3/20/15	MW-8S 3/20/15	MW-8D 3/20/15
Acetone	50	6	4	6.9	3.7	2.7	4.3	<5
Chloroform	7	0.88	0.54	0.58	1.4	2.3	<2	1.1
cis-1,2-Dichloroethene	5	0.44	<1	<1	<1	1.8	3.2	<1
Tetrachloroethene	5	1.9	1.4	0.32	8.2	1.9	11	3.5
Trichloroethene	5	1.8	0.66	<1	0.52	3.2	1.5	1.7

Notes:

All data is in micrograms per liter (ug/L)

TOGS - NYSDEC Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values

NA - Not analyzed/not available

Bold indicate an exceedance of the applicable regulatory guidanc value.



Table 4
Sub-Slab Vapor, Soil Vapor, and Indoor/Outdoor Air Data Summary
1199 Sutter Avenue, Brooklyn, New York
NYSDEC Site #224141

Parameter:	Sample Designation: Sampling Date: Sample Location: USEPA TSSGC	SS-1 7/20/11 Sub-Slab	IA-1 7/20/11 Indoor Air	OA-1 7/20/11 Outdoor Air	SSV-2 4/21/14 Sub-Slab	ASV-2 4/21/14 Indoor Air
Propylene	NA	--	1.91	--	--	--
Dichlorodifluoromethane	2,000	--	3.81	2.38	--	6.03
Chloromethane	NA	--	3.45	1.2	--	1.94
Vinyl Chloride	280	795	--	--	--	--
1,3-Butadiene	8.7	--	--	--	--	0.173
Chloroethane	100,000	--	--	--	--	0.124
Ethanol	NA	--	920	14.9	--	--
Acetone	3,500	--	--	6.44	--	--
Trichlorofluoromethane	7,000	--	27.8	1.4	--	8.99
Isopropanol	NA	--	61.4	1.81	--	--
Methylene Chloride	5,200	--	--	--	--	--
Freon 113	NA	3,720	--	--	--	0.636
trans-1,2-Dichloroethene	NA	390	--	--	--	--
1,1-Dichloroethane	5,000	380	--	--	--	--
2-Butanone	10,000	--	16.5	2.13	--	--
cis-1,2-Dichloroethene	350	3,830	--	--	--	--
Ethyl Acetate	32,000	--	8.11	--	--	--
Chloroform	110	444	38.4	--	222	8.74
Tetrahydrofuran	NA	--	17.5	--	--	--
1,2-Dichloroethane	94	538	--	--	--	--
n-Hexane	2,000	--	7.79	--	--	--
1,1,1-Trichloroethane	22,000	4,020	--	--	--	--
Benzene	310	--	3.77	0.831	--	1.38
Carbon Tetrachloride	160	--	--	--	--	0.566
Cyclohexane	NA	--	2.11	--	--	--
Bromodichloromethane	140	--	1.67	--	--	0.174
Trichloroethene	22	9,730	1.27	--	677	--
2,2,4-Trimethylpentane	NA	--	1.63	--	--	--
Heptane	NA	--	5.04	--	--	--
Toluene	4,000	757	11.4	1.96	40.7	10.9
Tetrachloroethene	810	428,000	68.5	--	20,100	1.89
Ethylbenzene	2,200	330	1.7	--	11	1.34
p+m Xylenes	70,000	--	6.34	--	41	5.21
Styrene	10,000	262	3.62	--	--	0.856
o Xylene	70,000	--	2.96	--	13.9	2.16
4-Ethyltoluene	NA	--	1.9	--	--	1.20
1,3,5-Trimethylbenzene	60	--	2.9	--	--	1.23
1,2,4-trimethylbenzene	60	--	8.65	--	16	4.36
1,4-Dichlorobenzene	8,000	--	2.84	--	--	1.05

Notes:

All concentrations provided in micrograms per cubic meter (ug/m³)

-- Not Detected

NA - Not Applicable/Not Available

TSSGC - Target Shallow Soil Gas Concentration

Bold and outlined values indicate exceedance of the TSSGC.



Table 4
Sub-Slab Vapor, Soil Vapor, and Indoor/Outdoor Air Data Summary
1199 Sutter Avenue, Brooklyn, New York
NYSDEC Site #224141

Parameter:	Sample Designation:		SSV-3	ASV-3	SSV-4	ASV-4	SSV-5	ASV-5
	Sampling Date:		4/21/14	4/21/14	4/21/14	4/21/14	4/21/14	4/21/14
	Sample Location:		Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air
USEPA TSSGC								
Propylene	NA	--	--	--	--	--	--	--
Dichlorodifluoromethane	2,000	9.2	2.18	9.05	3.45	4.32	4.29	
Chloromethane	NA	--	1.73	--	1.68	--	1.52	
Vinyl Chloride	280	--	--	--	--	--	--	
1,3-Butadiene	8.7	8.5	0.407	15	0.341	1.67	0.192	
Chloroethane	100,000	0.161	0.092	0.063	0.069	0.087	0.063	
Ethanol	NA	--	--	--	--	--	--	
Acetone	3,500	--	--	--	--	--	--	
Trichlorofluoromethane	7,000	5.61	7.19	4.07	5.55	5.62	6.18	
Isopropanol	NA	--	--	--	--	--	--	
Methylene Chloride	5,200	--	--	--	7.5	--	4.79	
Freon 113	NA	0.537	0.713	0.69	0.636	0.606	0.981	
trans-1,2-Dichloroethene	NA	--	--	--	--	--	--	
1,1-Dichloroethane	5,000	--	--	--	--	--	--	
2-Butanone	10,000	--	--	--	--	--	--	
cis-1,2-Dichloroethene	350	--	--	--	--	0.163	--	
Ethyl Acetate	32,000	--	--	--	--	--	--	
Chloroform	110	2.57	8.06	6.79	4.88	18.6	4.88	
Tetrahydrofuran	NA	--	--	--	--	--	--	
1,2-Dichloroethane	94	0.271	--	--	--	0.409	--	
n-Hexane	2,000	--	--	--	--	--	--	
1,1,1-Trichloroethane	22,000	0.207	--	0.235	--	--	--	
Benzene	310	3.35	1.44	6.71	1.33	4.92	1.03	
Carbon Tetrachloride	160	--	0.516	--	0.484	0.176	0.497	
Cyclohexane	NA	--	--	--	--	--	--	
Bromodichloromethane	140	--	0.194	--	--	--	0.141	
Trichloroethene	22	--	0.113	0.167	--	2.09	--	
2,2,4-Trimethylpentane	NA	--	--	--	--	--	--	
Heptane	NA	--	--	--	--	--	--	
Toluene	4,000	43.3	14.7	45.6	39.2	55.4	5.88	
Tetrachloroethene	810	0.678	0.983	16.4	0.976	2.9	0.685	
Ethylbenzene	2,200	11.3	1.35	14.6	2.01	13.0	0.786	
p+m Xylenes	70,000	46.9	4.86	59.9	6.04	52.6	2.81	
Styrene	10,000	0.485	0.732	0.553	0.728	0.528	0.366	
o Xylene	70,000	15.9	1.83	27.1	2.25	17.7	1.16	
4-Ethyltoluene	NA	5.9	1.29	6.49	1.42	6.24	0.787	
1,3,5-Trimethylbenzene	60	5.75	1.34	6.49	1.47	5.95	0.846	
1,2,4-trimethylbenzene	60	21.5	4.49	23.9	4.51	22.9	2.85	
1,4-Dichlorobenzene	8,000	--	0.613	--	0.601	--	0.367	

Notes:

All concentrations provided in micrograms per cubic meter (ug/m³)

-- Not Detected

NA - Not Applicable/Not Available

TSSGC - Target Shallow Soil Gas Concentration

Bold and outlined values indicate exceedance of the TSSGC.



Table 4
Sub-Slab Vapor, Soil Vapor, and Indoor/Outdoor Air Data Summary
1199 Sutter Avenue, Brooklyn, New York
NYSDEC Site #224141

Parameter:	Sample Designation:	SSV-6	SSV-7	OA-1
	Sampling Date:	4/21/14	4/21/14	4/21/14
	Sample Location:	Soil Gas	Soil Gas	Outdoor Air
	USEPA			
	TSSGC			
Propylene	NA	--	--	--
Dichlorodifluoromethane	2,000	--	3.16	2.78
Chloromethane	NA	--	--	1.18
Vinyl Chloride	280	--	--	--
1,3-Butadiene	8.7	2.99	1.37	0.201
Chloroethane	100,000	--	--	0.069
Ethanol	NA	--	--	--
Acetone	3,500	--	--	--
Trichlorofluoromethane	7,000	--	--	2.49
Isopropanol	NA	--	--	--
Methylene Chloride	5,200	--	--	12.9
Freon 113	NA	--	--	0.621
trans-1,2-Dichloroethene	NA	--	--	0.135
1,1-Dichloroethane	5,000	--	--	--
2-Butanone	10,000	--	--	--
cis-1,2-Dichloroethene	350	--	--	--
Ethyl Acetate	32,000	--	--	--
Chloroform	110	--	--	0.156
Tetrahydrofuran	NA	--	--	--
1,2-Dichloroethane	94	--	--	1.64
n-Hexane	2,000	--	--	--
1,1,1-Trichloroethane	22,000	--	--	--
Benzene	310	--	4.54	11.1
Carbon Tetrachloride	160	--	--	0.384
Cyclohexane	NA	--	--	--
Bromodichloromethane	140	--	--	--
Trichloroethene	22	7.69	--	--
2,2,4-Trimethylpentane	NA	--	--	--
Heptane	NA	--	--	--
Toluene	4,000	59.2	50.5	73.1
Tetrachloroethene	810	214	--	0.156
Ethylbenzene	2,200	11.4	11.2	9.73
p+m Xylenes	70,000	41	42.3	37.2
Styrene	10,000	--	--	0.298
o Xylene	70,000	13.9	14.2	11.4
4-Ethyltoluene	NA	--	4.23	3.26
1,3,5-Trimethylbenzene	60	--	4.18	3.62
1,2,4-trimethylbenzene	60	9.83	15.1	12.3
1,4-Dichlorobenzene	8,000	--	--	--

Notes:

All concentrations provided in micrograms per cubic meter (ug/m³)

-- Not Detected

NA - Not Applicable/Not Available

TSSGC - Target Shallow Soil Gas Concentration

Bold and outlined values indicate exceedance of the TSSGC.



FIGURES

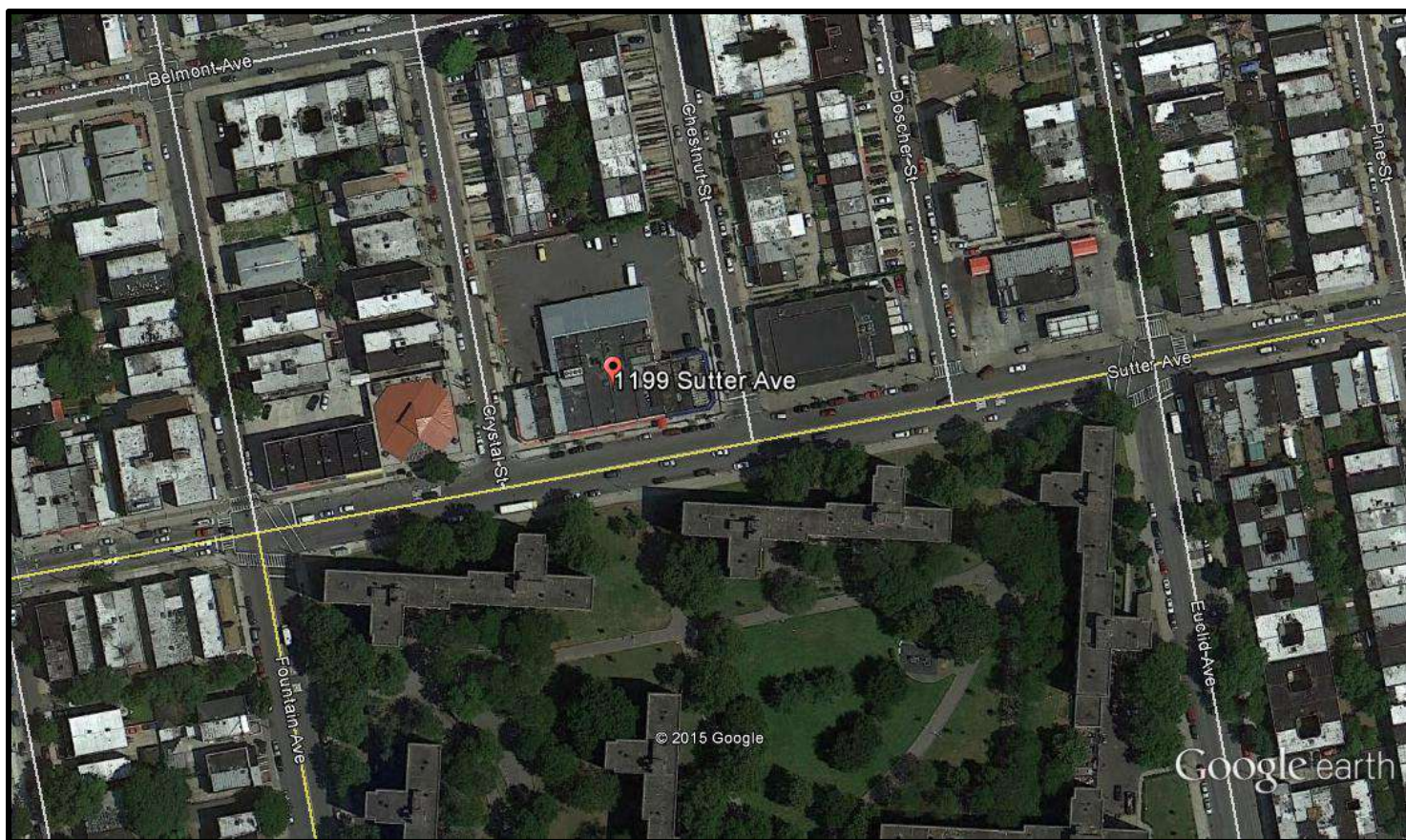


FIGURE 1 – SITE LOCATION MAP

**NYSDEC SITE IDENTIFICATION #C224141
1199 SUTTER AVENUE
BROOKLYN, NEW YORK**



**Associated
Environmental
Services, Ltd.**

Legend

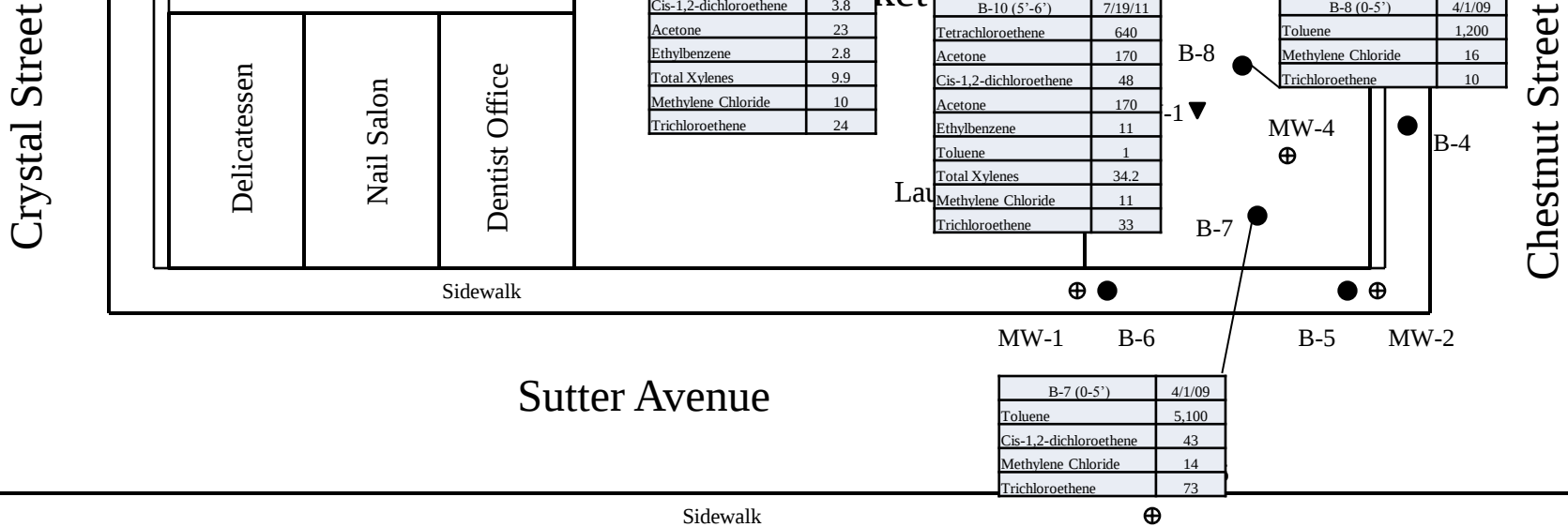
⊕ Monitoring Well Location and Designation

MW-1

● Soil Boring Location and Designation

B-3

All results in parts per billion (ppb)



**Associated
Environmental
Services, Ltd.**

1199-1221 Sutter Avenue
Brooklyn, New York

Figure 2
Soil Data Map



Legend

⊕

MW-1

Monitoring Well Location and Designation

●

B-3

Soil Boring Location and Designation

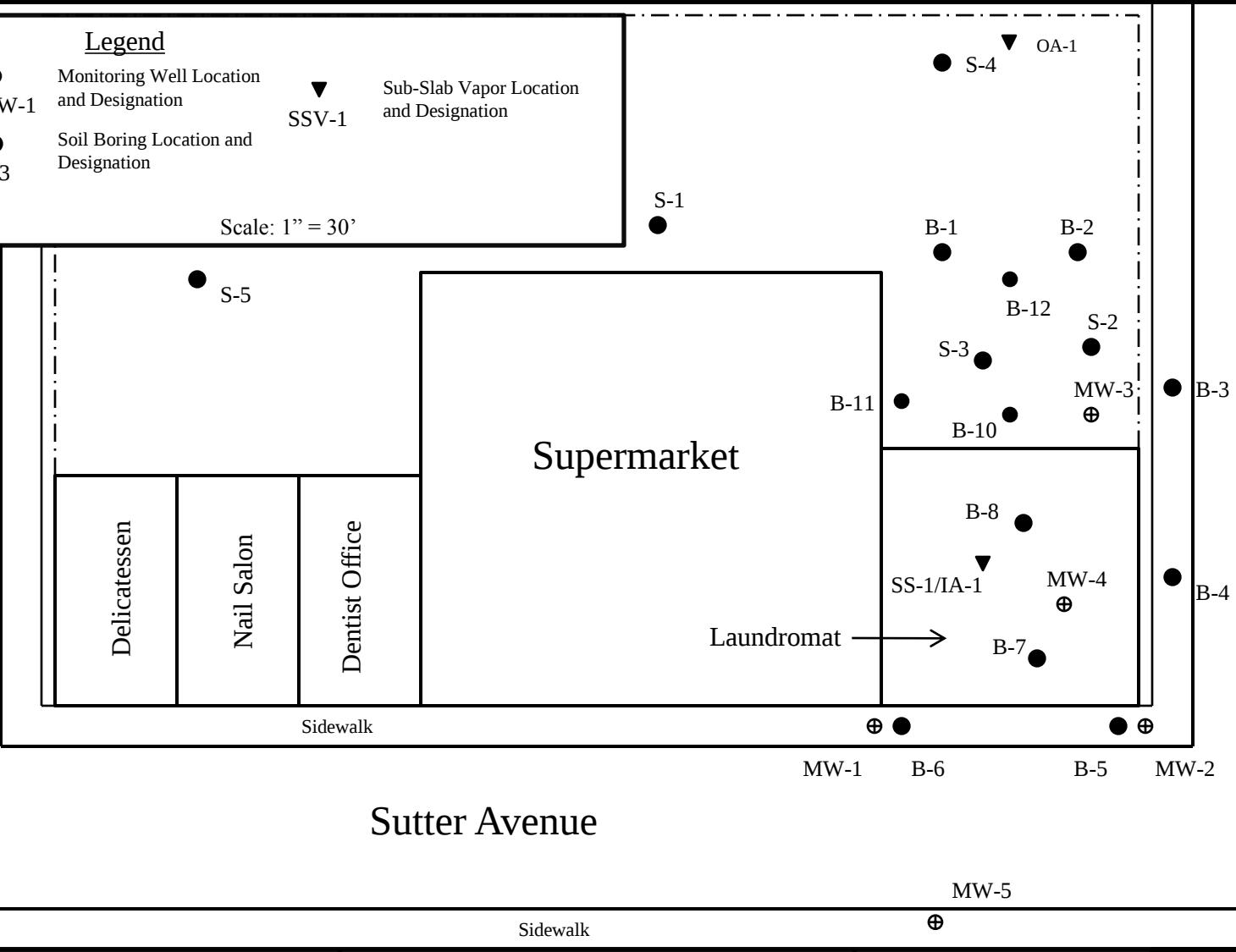
▼

SSV-1

Sub-Slab Vapor Location and Designation

Scale: 1" = 30'

Crystal Street



Chestnut Street

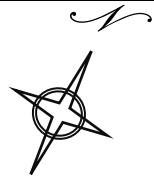
Sutter Avenue

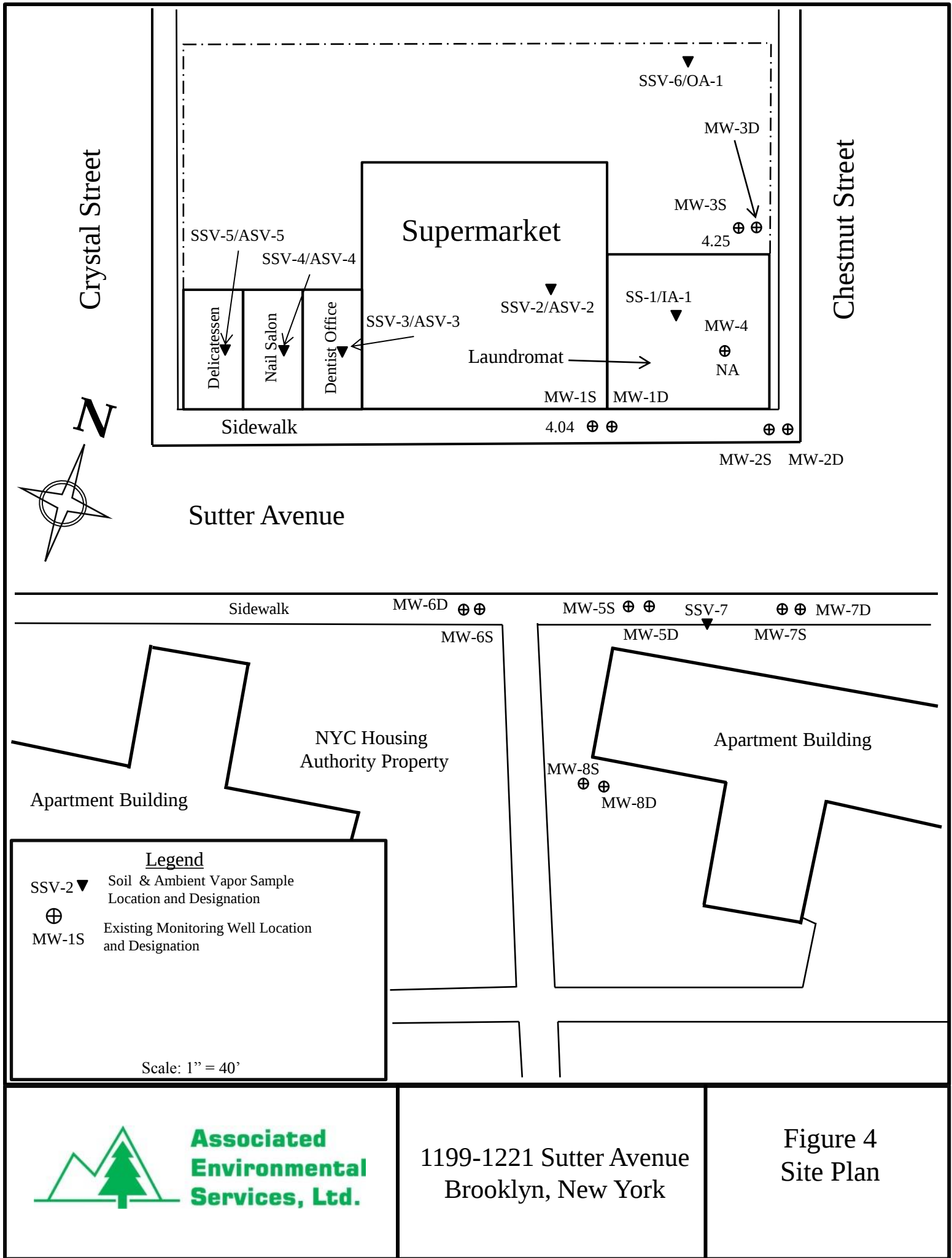


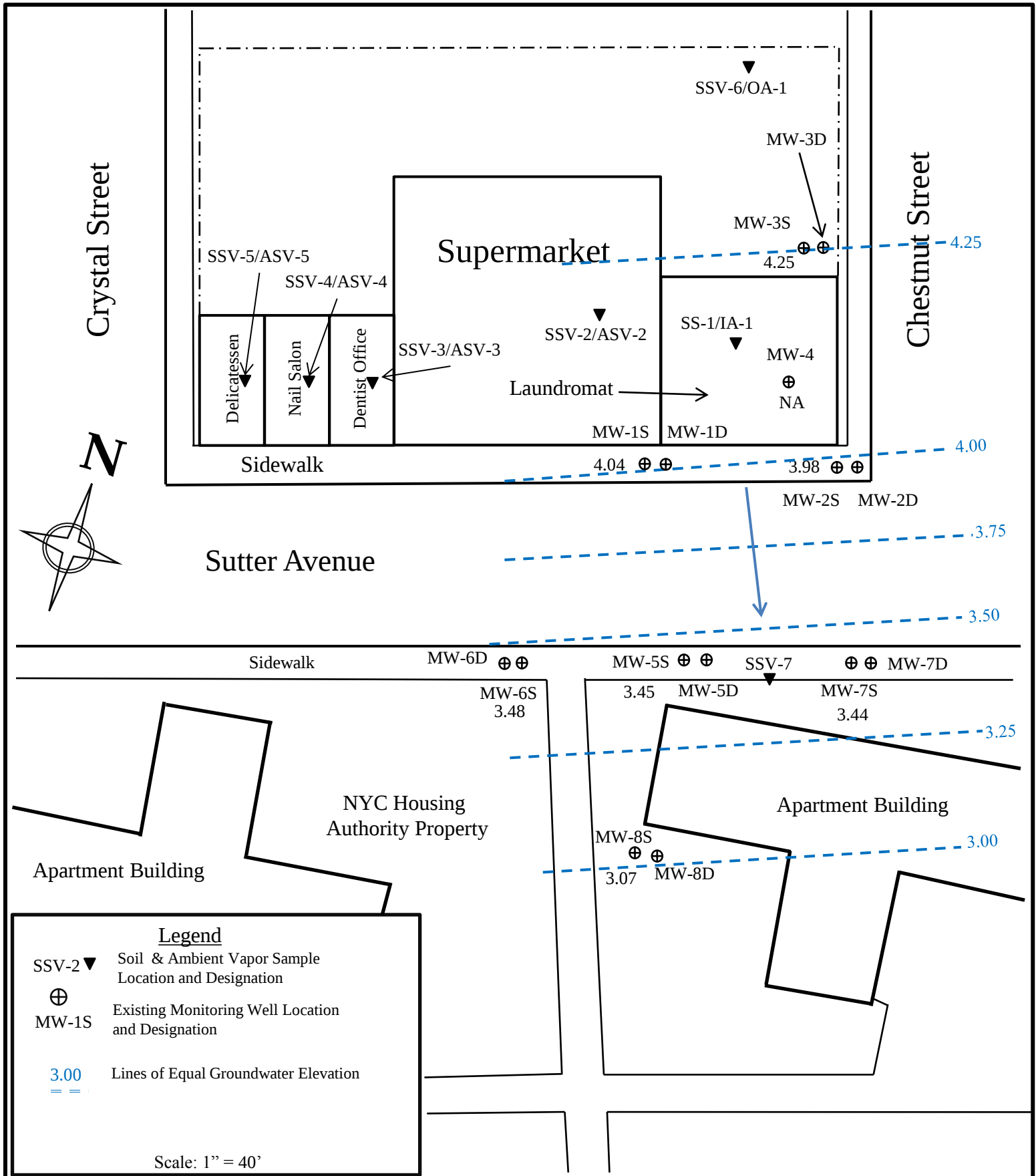
**Associated
Environmental
Services, Ltd.**

1199-1221 Sutter Avenue
Brooklyn, New York

**Figure 3
Historical Sample
Location Map**



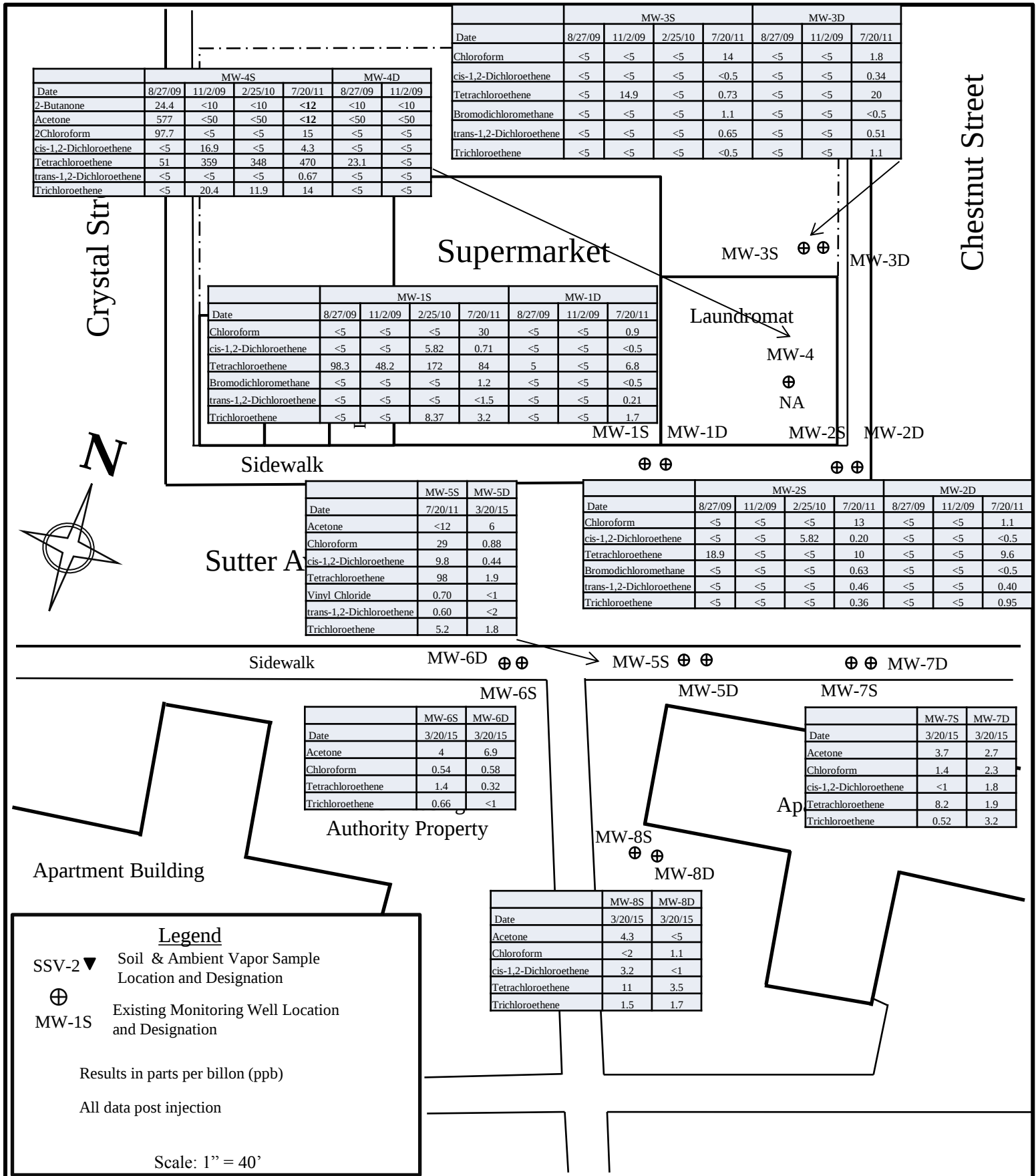




**Associated
Environmental
Services, Ltd.**

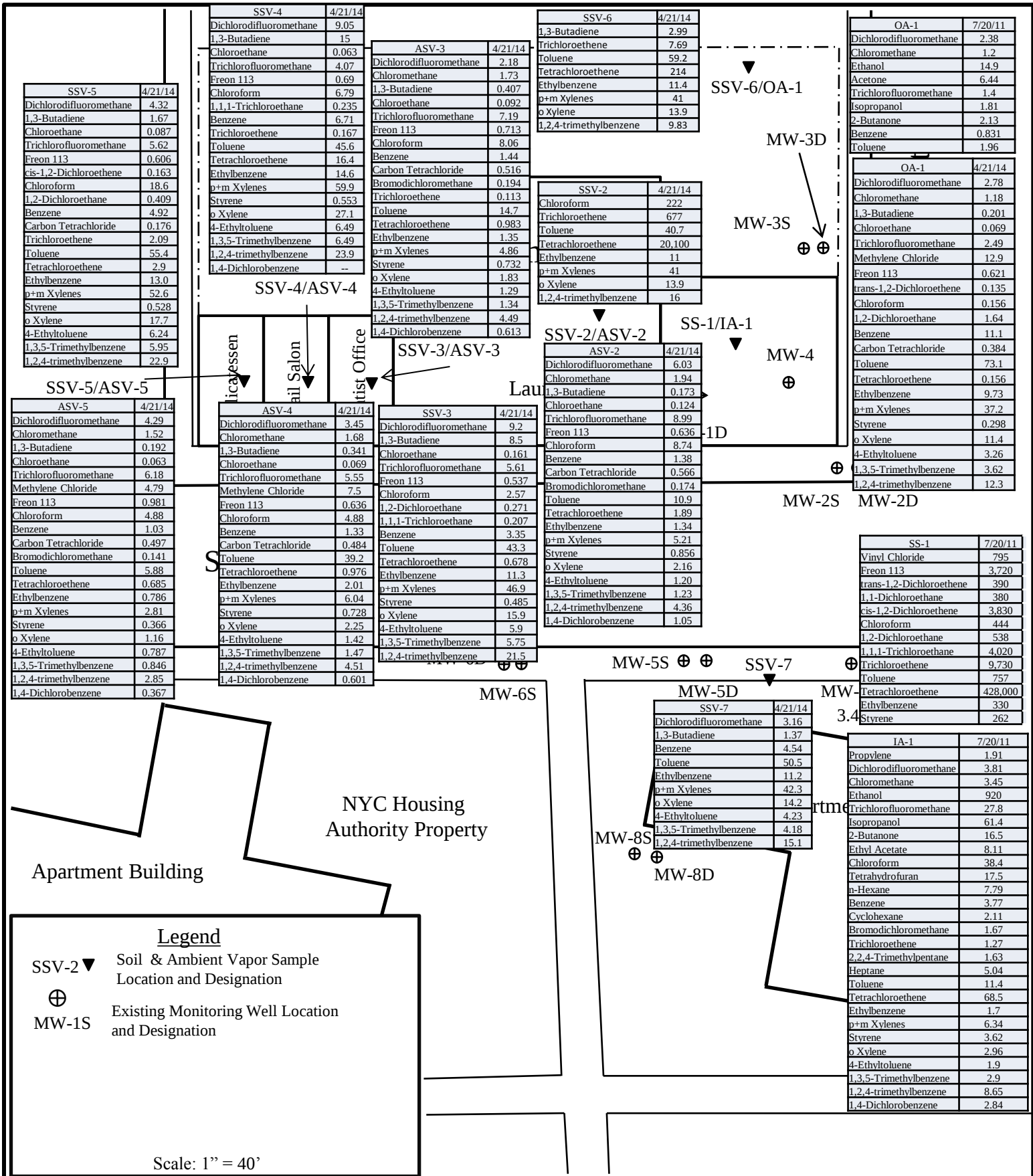
1199-1221 Sutter Avenue
Brooklyn, New York

Figure 5
Groundwater Contour Map



1199-1221 Sutter Avenue
Brooklyn, New York

Figure 6
Groundwater Data Map



**Associated
Environmental
Services, Ltd.**

1199-1221 Sutter Avenue
Brooklyn, New York

Figure 7
Soil Vapor/Ambient Air
Data Map

APPENDIX A – LABORATORY DATA REPORTS

Table of Contents

GBH86681_Report for SUTTER AVE	3
COC	48
GBH86681-Data Package-VOA	49
<i>Cover Page</i>	49
<i>Organic Flags</i>	50
<i>Non-Conformance Summary</i>	51
<i>Monitoring Compound Recovery (Form 2)</i>	52
<i>Spike Recovery (Form 3)</i>	53
BH86681 LCS/LCSD	53
BH86681 MS/MSD	56
<i>Method Blank Summary (Form 4)</i>	59
<i>Tune Summary (Form 5)</i>	60
CHEM17 - 0323S12.D	60
CHEM17 - 0324S01.D	61
<i>Internal Standard (Form 8)</i>	62
CHEM17 - 03/23/15 15:50	62
CHEM17 - 03/24/15 09:42	63
<i>Analysis Data Sheet (Form 1)</i>	64
BH86681 / MW-5D	64
BH86682 / MW-6S	72
BH86683 / MW-6D	79
BH86684 / MW-7S	86
BH86685 / MW-7D	93
BH86686 / MW-8S	101
BH86687 / MW-8D	108
BH86688 / FIELD BLANK	115
BH86689 / TRIP BLANK	122
<i>Initial Calibration Summary (Form 6)</i>	129
<i>Continuing Calibration Summary (Form 7)</i>	149

CHEM17 - 03/24/15 09:42	149
CHEM17 - 03/24/15 16:00	154
<i>Analysis Data Sheet QC (Form 1)</i>	159
BH86681 LCS	159
BH86681 LCSD	164
BH86681 MS	169
BH86681 MSD	174
BH86681 BLANK	179
<i>Injection Log</i>	184
Injection Log - CHEM17 03/23/15	184
Injection Log - CHEM17 03/24/15	185



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



**NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE**

Client: Associated Environmental Services
Project: SUTTER AVENUE
Laboratory Project: GBH86681



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



NY Analytical Services Protocol Format

April 09, 2015

SDG I.D.: GBH86681

Associated Environmental Services SUTTER AVENUE

Methodology Summary

Volatiles

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update V, Method 8260C and Environmental Protection Agency, EPA-600/4-79-020, Revised March 1983 (Methods 624) as printed in 40CFR part 136.

Sample Id Cross Reference

Client Id	Lab Id	Matrix
MW-5D	BH86681	GROUND WATER
MW-6S	BH86682	GROUND WATER
MW-6D	BH86683	GROUND WATER
MW-7S	BH86684	GROUND WATER
MW-7D	BH86685	GROUND WATER
MW-8S	BH86686	GROUND WATER
MW-8D	BH86687	GROUND WATER
FIELD BLANK	BH86688	GROUND WATER
TRIP BLANK	BH86689	GROUND WATER



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



NY Analytical Services Protocol Format

April 09, 2015

SDG I.D.: GBH86681

Associated Environmental Services SUTTER AVENUE

Laboratory Chronicle

The samples in this delivery group were received at 4°C.

Sample	Analysis	Collection Date	Extraction Date	Analysis Date	Analyst	Hold Time Met
BH86681	1,4-dioxane	03/20/15	03/24/15	03/24/15	MH	Y
BH86681	Volatiles	03/20/15	03/24/15	03/24/15	MH	Y
BH86682	1,4-dioxane	03/20/15	03/24/15	03/24/15	MH	Y
BH86682	Volatiles	03/20/15	03/24/15	03/24/15	MH	Y
BH86683	1,4-dioxane	03/20/15	03/24/15	03/24/15	MH	Y
BH86683	Volatiles	03/20/15	03/24/15	03/24/15	MH	Y
BH86684	1,4-dioxane	03/20/15	03/24/15	03/24/15	MH	Y
BH86684	Volatiles	03/20/15	03/24/15	03/24/15	MH	Y
BH86685	1,4-dioxane	03/20/15	03/24/15	03/24/15	MH	Y
BH86685	Volatiles	03/20/15	03/24/15	03/24/15	MH	Y
BH86686	1,4-dioxane	03/20/15	03/24/15	03/24/15	MH	Y
BH86686	Volatiles	03/20/15	03/24/15	03/24/15	MH	Y
BH86687	1,4-dioxane	03/20/15	03/24/15	03/24/15	MH	Y
BH86687	Volatiles	03/20/15	03/24/15	03/24/15	MH	Y
BH86688	1,4-dioxane	03/20/15	03/24/15	03/24/15	MH	Y
BH86688	Volatiles	03/20/15	03/24/15	03/24/15	MH	Y
BH86689	1,4-dioxane	03/20/15	03/24/15	03/24/15	MH	Y
BH86689	Volatiles	03/20/15	03/24/15	03/24/15	MH	Y



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

April 09, 2015

SDG I.D.: GBH86681

Version 1: Analysis results minus QC and forms.

Version 2: Complete report with QC and forms.

8260 Volatile Organics:

1,2-Dibromoethane, 1,2,3 Trichloropropane, and 1,2-Dibromo-3-chloropropane do not meet NY TOGS GA criteria, these compounds are analyzed by GC/ECD method 504 or 8011 to achieve this criteria.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

03/20/15
03/23/15

Time

10:05
16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86681

Project ID: SUTTER AVENUE
Client ID: MW-5D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
<u>Volatiles</u>								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	6.0	S 5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chlorobenzene	ND		2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroethane	ND		2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroform	0.88	J	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloromethane	ND		2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,2-Dichloroethene	0.44	J	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Cyclohexane	ND		5.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Dibromochloromethane	ND		1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Ethylbenzene	ND		1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Isopropylbenzene	ND		1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
m&p-Xylene	ND		1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Methylacetate	ND		2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methylcyclohexane	ND		2.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methylene chloride	ND		3.0	0.25	ug/L	1	03/24/15	MH	SW8260C
o-Xylene	ND		1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Styrene	ND		1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Tetrachloroethene	1.9		1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Toluene	ND		2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Total Xylenes	ND		0.87	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichloroethene	1.8		1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Vinyl chloride	ND		1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
<u>QA/QC Surrogates</u>									
% 1,2-dichlorobenzene-d4	100				%	1	03/24/15	MH	70 - 130 %
% Bromofluorobenzene	98				%	1	03/24/15	MH	70 - 130 %
% Dibromofluoromethane	98				%	1	03/24/15	MH	70 - 130 %
% Toluene-d8	100				%	1	03/24/15	MH	70 - 130 %

Volatile Library Search Top 10

Completed

03/25/15

MH

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------------	-------	----------	-----------	----	-----------

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

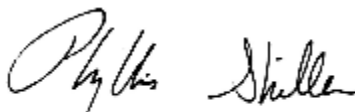
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

April 09, 2015



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

03/20/15
03/23/15

Time

9:30
16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86682

Project ID: SUTTER AVENUE
Client ID: MW-6S

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
<u>Volatiles</u>								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	4.0	JS 5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroform	0.54	J 2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
m&p-Xylene	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methylene chloride	ND	3.0	0.25	ug/L	1	03/24/15	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Tetrachloroethene	1.4	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Total Xylenes	ND	0.87	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichloroethene	0.66	J 1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	103			%	1	03/24/15	MH	70 - 130 %
% Bromofluorobenzene	98			%	1	03/24/15	MH	70 - 130 %
% Dibromofluoromethane	99			%	1	03/24/15	MH	70 - 130 %
% Toluene-d8	99			%	1	03/24/15	MH	70 - 130 %

Volatile Library Search Top 10

Completed

03/25/15

MH

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------------	-------	----------	-----------	----	-----------

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

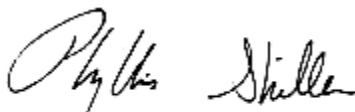
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

April 09, 2015



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

03/20/15
03/23/15

Time

9:00
16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86683

Project ID: SUTTER AVENUE
Client ID: MW-6D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
<u>Volatiles</u>								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	6.9	S 5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroform	0.58	J 2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
m&p-Xylene	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methylene chloride	ND	3.0	0.25	ug/L	1	03/24/15	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Tetrachloroethene	0.32	J 1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Total Xylenes	ND	0.87	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	03/24/15	MH	70 - 130 %
% Bromofluorobenzene	100			%	1	03/24/15	MH	70 - 130 %
% Dibromofluoromethane	100			%	1	03/24/15	MH	70 - 130 %
% Toluene-d8	101			%	1	03/24/15	MH	70 - 130 %

Volatile Library Search Top 10

Completed

03/25/15

MH

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------------	-------	----------	-----------	----	-----------

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

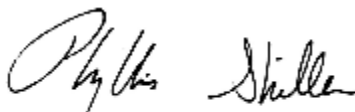
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

April 09, 2015



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

03/20/15
03/23/15

Time

12:00
16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86684

Project ID: SUTTER AVENUE
Client ID: MW-7S

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
<u>Volatiles</u>								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	3.7	JS 5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroform	1.4	J 2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
m&p-Xylene	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methylene chloride	ND	3.0	0.25	ug/L	1	03/24/15	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Tetrachloroethene	8.2	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Total Xylenes	ND	0.87	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichloroethene	0.52	J 1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	03/24/15	MH	70 - 130 %
% Bromofluorobenzene	98			%	1	03/24/15	MH	70 - 130 %
% Dibromofluoromethane	100			%	1	03/24/15	MH	70 - 130 %
% Toluene-d8	99			%	1	03/24/15	MH	70 - 130 %

Volatile Library Search Top 10

Completed

03/25/15

MH

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------------	-------	----------	-----------	----	-----------

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

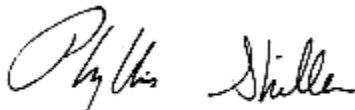
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

April 09, 2015



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

03/20/15
03/23/15

Time

10:40
16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86685

Project ID: SUTTER AVENUE
Client ID: MW-7D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
<u>Volatiles</u>								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	2.7	JS 5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroform	2.3	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,2-Dichloroethene	1.8	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
m&p-Xylene	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methylene chloride	ND	3.0	0.25	ug/L	1	03/24/15	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Tetrachloroethene	1.9	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Total Xylenes	ND	0.87	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichloroethene	3.2	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	03/24/15	MH	70 - 130 %
% Bromofluorobenzene	98			%	1	03/24/15	MH	70 - 130 %
% Dibromofluoromethane	104			%	1	03/24/15	MH	70 - 130 %
% Toluene-d8	99			%	1	03/24/15	MH	70 - 130 %

Volatile Library Search Top 10

Completed

03/25/15

MH

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------------	-------	----------	-----------	----	-----------

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

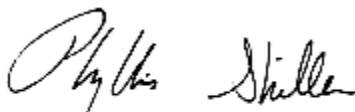
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

April 09, 2015



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

03/20/15
03/23/15

Time

12:45
16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86686

Project ID: SUTTER AVENUE
Client ID: MW-8S

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
<u>Volatiles</u>								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	4.3	JS 5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroform	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,2-Dichloroethene	3.2	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
m&p-Xylene	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methylene chloride	ND	3.0	0.25	ug/L	1	03/24/15	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Tetrachloroethene	11	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Total Xylenes	ND	0.87	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichloroethene	1.5	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	102			%	1	03/24/15	MH	70 - 130 %
% Bromofluorobenzene	98			%	1	03/24/15	MH	70 - 130 %
% Dibromofluoromethane	104			%	1	03/24/15	MH	70 - 130 %
% Toluene-d8	100			%	1	03/24/15	MH	70 - 130 %

Volatile Library Search Top 10

Completed

03/25/15

MH

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------------	-------	----------	-----------	----	-----------

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

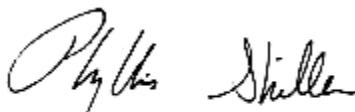
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

April 09, 2015



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

03/20/15
03/23/15

Time

13:10
16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86687

Project ID: SUTTER AVENUE
Client ID: MW-8D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
<u>Volatiles</u>								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	ND	5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroform	1.1	J 2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
m&p-Xylene	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methylene chloride	ND	3.0	0.25	ug/L	1	03/24/15	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Tetrachloroethene	3.5	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Total Xylenes	ND	0.87	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichloroethene	1.7	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	99			%	1	03/24/15	MH	70 - 130 %
% Bromofluorobenzene	97			%	1	03/24/15	MH	70 - 130 %
% Dibromofluoromethane	104			%	1	03/24/15	MH	70 - 130 %
% Toluene-d8	100			%	1	03/24/15	MH	70 - 130 %
Volatile Library Search Top 10	Completed					03/25/15	MH	

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------------	-------	----------	-----------	----	-----------

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

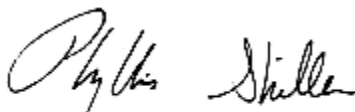
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

April 09, 2015



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

03/20/15
03/23/15

Time

11:00
16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86688

Project ID: SUTTER AVENUE
Client ID: FIELD BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
<u>Volatiles</u>								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	4.0	JS 5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	0.26	J 1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroform	2.1	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloromethane	0.36	J 2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
m&p-Xylene	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methylene chloride	ND	3.0	0.25	ug/L	1	03/24/15	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Total Xylenes	ND	0.87	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	03/24/15	MH	70 - 130 %
% Bromofluorobenzene	98			%	1	03/24/15	MH	70 - 130 %
% Dibromofluoromethane	104			%	1	03/24/15	MH	70 - 130 %
% Toluene-d8	99			%	1	03/24/15	MH	70 - 130 %

Volatile Library Search Top 10

Completed

03/25/15

MH

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------------	-------	----------	-----------	----	-----------

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

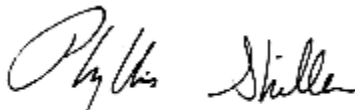
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

April 09, 2015



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

03/20/15
03/23/15

Time

6:00
16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86689

Project ID: SUTTER AVENUE
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>1,4-dioxane</u>								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
<u>Volatiles</u>								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	4.3	JS 5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	0.26	J 1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloroform	2.1	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
m&p-Xylene	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	03/24/15	MH	SW8260C
Methylene chloride	ND	3.0	0.25	ug/L	1	03/24/15	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Total Xylenes	ND	0.87	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	100			%	1	03/24/15	MH	70 - 130 %
% Bromofluorobenzene	99			%	1	03/24/15	MH	70 - 130 %
% Dibromofluoromethane	103			%	1	03/24/15	MH	70 - 130 %
% Toluene-d8	100			%	1	03/24/15	MH	70 - 130 %

Volatile Library Search Top 10

Completed

03/25/15

MH

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------------	-------	----------	-----------	----	-----------

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

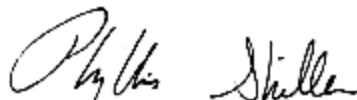
BRL=Below Reporting Level J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit

Comments:

TRIP BLANK INCLUDED.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

April 09, 2015

CLIENT ID

MW-5D

Lab Name: Phoenix Environmental Labs

Client: AESHAUP

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBH86681

Matrix:(soil/water) WATER

Lab Sample ID: BH86681

Sample wt/vol: 25 (g/mL) mL

Lab File ID: 0324S08.D

Level: (low/med)

Date Received: 03/23/15

% Moisture: not dec.	100
----------------------	-----

Date Analyzed: 03/24/15

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 1

Purge Volume	25000	(uL)
--------------	-------	------

Soil Aliquot Vol (uL): n.a.

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

[illegible]

FORM I VOA-TIC

CLIENT ID

MW-6S

Client: AESHAUP

SDG No.: GBH86681

Lab Sample ID: BH86682

Lab File ID: 0324S09.D

Date Received: 03/23/15

Date Analyzed: 03/24/15

Dilution Factor: 1

Soil Aliquot Vol (uL): n.a.

CONCENTRATION UNITS:

FORM I VOA-TIC

CLIENT ID

MW-6D

Client: AESHAUP

SDG No.: GBH86681

Lab Sample ID: BH86683

Lab File ID: 0324S10.D

Date Received: 03/23/15

Date Analyzed: 03/24/15

Dilution Factor: 1

Soil Aliquot Vol (uL): n.a.

CONCENTRATION UNITS:

FORM I VOA-TIC

CLIENT ID

MW-7S

Client: AESHAUP

SDG No.: GBH86681

Lab Sample ID: BH86684

Lab File ID: 0324S11.D

Date Received: 03/23/15

Date Analyzed: 03/24/15

Dilution Factor: 1

Soil Aliquot Vol (uL): n.a.

CONCENTRATION UNITS:

[illegible]

CLIENT ID

MW-7D

Lab Name: Phoenix Environmental Labs

Client: AESHAUP

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBH86681

Matrix:(soil/water) WATER

Lab Sample ID: BH86685

Sample wt/vol: 25 (g/mL) mL

Lab File ID: 0324S12.D

Level: (low/med)

Date Received: 03/23/15

% Moisture: not dec.	100
----------------------	-----

Date Analyzed: 03/24/15

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 1

Purge Volume	25000	(uL)
--------------	-------	------

Soil Aliquot Vol (uL): n.a.

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

[illegible]

FORM I VOA-TIC

CLIENT ID

MW-8S

Lab Name: Phoenix Environmental Labs

Client: AESHAUP

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBH86681

Matrix:(soil/water) WATER

Lab Sample ID: BH86686

Sample wt/vol: 25 (g/mL) mL

Lab File ID: 0324S13.D

Level: (low/med)

Date Received: 03/23/15

% Moisture: not dec.	100
----------------------	-----

Date Analyzed: 03/24/15

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 1

Purge Volume	25000	(uL)
--------------	-------	------

Soil Aliquot Vol (uL): n.a.

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

[illegible]

FORM I VOA-TIC

CLIENT ID

MW-8D

Client: AESHAUP

SDG No.: GBH86681

Lab Sample ID: BH86687

Lab File ID: 0324S14.D

Date Received: 03/23/15

Date Analyzed: 03/24/15

Dilution Factor: 1

Soil Aliquot Vol (uL): n.a.

CONCENTRATION UNITS:

FORM I VOA-TIC

CLIENT ID

FIELD BLANK

Lab Name: Phoenix Environmental Labs

Client: AESHAUP

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBH86681

Matrix:(soil/water) WATER

Lab Sample ID: BH86688

Sample wt/vol: 25 (g/mL) mL

Lab File ID: 0324S15.D

Level: (low/med)

Date Received: 03/23/15

% Moisture: not dec.	100
----------------------	-----

Date Analyzed: 03/24/15

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 1

Purge Volume	25000	(uL)
--------------	-------	------

Soil Aliquot Vol (uL): n.a.

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

[illegible]

FORM I VOA-TIC

CLIENT ID

TRIP BLANK

Lab Name: Phoenix Environmental Labs

Client: AESHAUP

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBH86681

Matrix:(soil/water) WATER

Lab Sample ID: BH86689

Sample wt/vol: 25 (g/mL) mL

Lab File ID: 0324S16.D

Level: (low/med)

Date Received: 03/23/15

% Moisture: not dec.	100
----------------------	-----

Date Analyzed: 03/24/15

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 1

Purge Volume	25000	(uL)
--------------	-------	------

Soil Aliquot Vol (uL): n.a.

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

[illegible]

FORM I VOA-TIC



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

April 09, 2015

QA/QC Data

SDG I.D.: GBH86681

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 302518 (ug/L), QC Sample No: BH86681 (BH86681, BH86682, BH86683, BH86684, BH86685, BH86686, BH86687, BH86688, BH86689)									
<u>Volatiles (TCL) - Ground Water</u>									
1,1,1-Trichloroethane	ND	97	96	1.0	88	102	14.7	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	104	99	4.9	84	100	17.4	70 - 130	30
1,1,2-Trichloroethane	ND	95	94	1.1	93	99	6.3	70 - 130	30
1,1-Dichloroethane	ND	97	97	0.0	90	98	8.5	70 - 130	30
1,1-Dichloroethene	ND	100	97	3.0	82	98	17.8	70 - 130	30
1,2,3-Trichlorobenzene	ND	107	102	4.8	85	100	16.2	70 - 130	30
1,2,4-Trichlorobenzene	ND	100	97	3.0	86	97	12.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	91	94	3.2	89	94	5.5	70 - 130	30
1,2-Dibromoethane	ND	97	98	1.0	90	101	11.5	70 - 130	30
1,2-Dichlorobenzene	ND	100	96	4.1	89	98	9.6	70 - 130	30
1,2-Dichloroethane	ND	100	100	0.0	95	102	7.1	70 - 130	30
1,2-Dichloropropane	ND	95	95	0.0	88	95	7.7	70 - 130	30
1,3-Dichlorobenzene	ND	100	98	2.0	90	100	10.5	70 - 130	30
1,4-Dichlorobenzene	ND	98	96	2.1	89	97	8.6	70 - 130	30
1,4-dioxane	ND	95	103	8.1	88	91	3.4	70 - 130	30
2-Hexanone	ND	98	94	4.2	97	107	9.8	70 - 130	30
4-Methyl-2-pentanone	ND	96	94	2.1	97	104	7.0	70 - 130	30
Acetone	ND	100	94	6.2	94	100	6.2	70 - 130	30
Benzene	ND	97	94	3.1	87	96	9.8	70 - 130	30
Bromochloromethane	ND	102	100	2.0	96	102	6.1	70 - 130	30
Bromodichloromethane	ND	105	102	2.9	94	103	9.1	70 - 130	30
Bromoform	ND	101	97	4.0	89	99	10.6	70 - 130	30
Bromomethane	ND	110	116	5.3	82	109	28.3	70 - 130	30
Carbon Disulfide	ND	98	98	0.0	84	97	14.4	70 - 130	30
Carbon tetrachloride	ND	92	90	2.2	83	98	16.6	70 - 130	30
Chlorobenzene	ND	97	95	2.1	89	98	9.6	70 - 130	30
Chloroethane	ND	91	92	1.1	82	93	12.6	70 - 130	30
Chloroform	ND	100	99	1.0	92	99	7.3	70 - 130	30
Chloromethane	ND	94	91	3.2	89	95	6.5	70 - 130	30
cis-1,2-Dichloroethene	ND	99	98	1.0	93	98	5.2	70 - 130	30
cis-1,3-Dichloropropene	ND	101	100	1.0	90	99	9.5	70 - 130	30
Dibromochloromethane	ND	105	100	4.9	94	104	10.1	70 - 130	30
Dichlorodifluoromethane	ND	83	86	3.6	74	92	21.7	70 - 130	30
Ethylbenzene	ND	96	94	2.1	87	97	10.9	70 - 130	30
Isopropylbenzene	ND	93	91	2.2	86	95	9.9	70 - 130	30
m&p-Xylene	ND	95	93	2.1	87	97	10.9	70 - 130	30
Methyl ethyl ketone	ND	94	101	7.2	93	<10	NC	70 - 130	30 m
Methyl t-butyl ether (MTBE)	ND	105	102	2.9	91	103	12.4	70 - 130	30
Methylcyclohexane	ND	83	82	1.2	76	93	20.1	70 - 130	30
Methylene chloride	ND	74	75	1.3	69	74	7.0	70 - 130	30 m

QA/QC Data

SDG I.D.: GBH86681

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
o-Xylene	ND	98	95	3.1	87	98	11.9	70 - 130	30
Styrene	ND	97	95	2.1	89	99	10.6	70 - 130	30
Tetrachloroethene	ND	92	91	1.1	84	95	12.3	70 - 130	30
Toluene	ND	96	94	2.1	87	95	8.8	70 - 130	30
trans-1,2-Dichloroethene	ND	98	101	3.0	85	99	15.2	70 - 130	30
trans-1,3-Dichloropropene	ND	103	102	1.0	91	101	10.4	70 - 130	30
Trichloroethene	ND	94	92	2.2	88	96	8.7	70 - 130	30
Trichlorofluoromethane	ND	87	89	2.3	82	101	20.8	70 - 130	30
Trichlorotrifluoroethane	ND	88	91	3.4	80	100	22.2	70 - 130	30
Vinyl chloride	ND	95	95	0.0	82	92	11.5	70 - 130	30
% 1,2-dichlorobenzene-d4	97	101	99	2.0	100	99	1.0	70 - 130	30
% Bromofluorobenzene	95	99	100	1.0	103	103	0.0	70 - 130	30
% Dibromofluoromethane	88	100	106	5.8	102	102	0.0	70 - 130	30
% Toluene-d8	98	98	100	2.0	100	102	2.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

m = This parameter is outside laboratory ms/msd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

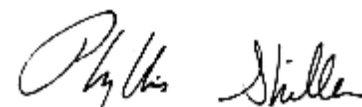
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

April 09, 2015

Sample Criteria Exceedences Report

GBH86681 - AESHAUP

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BH86681	\$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BH86681	\$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BH86682	\$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BH86682	\$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BH86683	\$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BH86683	\$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BH86684	\$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BH86684	\$DP8260_TCL	Tetrachloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	8.2	1.0	5	5	ug/L
BH86684	\$DP8260_TCL	Tetrachloroethene	NY / TOGS - Water Quality / GA Criteria	8.2	1.0	5	5	ug/L
BH86684	\$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BH86685	\$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BH86685	\$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BH86686	\$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BH86686	\$DP8260_TCL	Tetrachloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	11	1.0	5	5	ug/L
BH86686	\$DP8260_TCL	Tetrachloroethene	NY / TOGS - Water Quality / GA Criteria	11	1.0	5	5	ug/L
BH86686	\$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BH86687	\$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BH86687	\$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BH86688	\$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BH86688	\$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BH86689	\$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BH86689	\$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



NY Temperature Narration

April 09, 2015

SDG I.D.: GBH86681

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)



NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823

Client Services (860) 645-8726

Customer: Associated Environmental Services Project: Sutter Avenue
Address: 25 Central Avenue Report to: ACS
Haverhill, NY Invoice to: ACS

Contact Options:

Fax: ☐
Phone: ☐
Email: ☒ info@phoenixlabs.com

Coolant: IPK ☐ ICE ☐ No ☐
Cooler: Year ☐ No ☐
Temp ☐ °C ☐ Pg of

This section MUST be completed with Bottle Quantities.

Client Sample Information - Identification				Analysis Request	
PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	
810081	MW-5D	GW	3/20/15	10:05	X
810082	MW-6S	GW	3/20/15	9:30	X
810083	MW-6D	GW	3/20/15	9:00	X
810084	MW-7S	GW	3/20/15	12:00	X
810085	MW-7D	GW	3/20/15	10:40	X
810086	MW-8S	GW	3/20/15	12:45	X
810087	MW-8D	GW	3/20/15	1:10	X
810088	Field Blank	RW	3/20/15	11:00	X
810089	Trip Blank	aw	3/20/15	6:00	X

Relinquished by: <u>[Signature]</u>	Accepted by: <u>[Signature]</u>	Date: <u>3-23-15</u>	Time: <u>9:30</u>
Comments, Special Requirements or Regulations: <u>* TB recd w/o custody seal</u>		Turnaround: ☐ 1 Day ☐ 2 Days ☒ 3 Days ☐ 5 Days ☐ 10 Days ☐ Other * SURCHARGE APPLIES	
Data Format: ☐ Phoenix Std Report ☒ Excel ☐ PDF ☐ GIS/Key ☐ EQUIS ☐ NJ Hazsite EDD ☐ NY EZ EDD (ASP) ☐ Other		Data Package: ☐ NJ Reduced Deliv. ☒ NY Enhanced (ASP B) ☐ Other	
State where samples were collected: <u>NY</u>			



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

Client: Associated Environmental Services

SUTTER AVENUE

Laboratory Project: GBH86681

Volatiles

Organic Data Flags

MDL: Method Detection Limit
The minimum reportable concentration that can be measured with 99% confidence, as defined in 40CFR part 136 (Appendix B).

PQL(RL): Practical Quantitation Level or Reporting Level
This value is at or above the MDL and is supported by the lowest calibration standard.

- Q Qualifiers:

- U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the “U” represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.
- J - The value is estimated. This flag is used
 - a) on form 1 when the compound is reported above the MDL, but below the PQL, and
 - b) on the Tentatively Identified Compound (TIC) form for all compounds identified
- X - The concentration is not reported. A volatile purging or related issue maybe related for this compound.
- JL- The value is estimated. This flag is used on the form 1 when a compound is evaluated to the requested criteria. This value may be below the MDL.
- N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.
- S - This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.
- B - This compound was also present in the method blank
- D - The reported concentration is the result of a diluted analysis.
- E - The reported value is estimated because the concentration exceeded the calibration range.
- A - Indicates that the tentatively identified compound is a suspected aldol condensation product.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



NY ANALYTICAL SERVICES PROTOCOL

April 07, 2015

SDG I.D.: GBH86681

SUTTER AVENUE Associated Environmental Services

Conformance / Non-Conformance Summary

Volatile Organic Compounds:

Form 2: All surrogate recoveries met method criteria.

Form 3: Laboratory Criteria for the Lab Control Sample/Lab Control Sample Duplicate (LCS/LCSD) and Matrix Spike (MS): 90% of compounds are within 70-130% for LCS/LCSD and RPDs less than 30% (these limits are reflected on the form IIIs). Compounds with recoveries and/or RPDs outside laboratory control limits are flagged with an asterisk on form III.

Form 5: BFB Tunes met method criteria. All samples and closing standards were analyzed within 12 hours from their injection.

Form 6: The initial calibration analyzed on CHEM17 on 03/23/2015 met ASP criteria for all target compounds, with the following exceptions: The minimum RRF was not met for 1,1,2,2-Tetrachloroethane; and the minimum RRF was not met for Bromomethane for all points, but the average was achieved.

Form 7: The continuing calibration standard 0324S03.D on CHEM17 met ASP criteria for all target compounds, with the following exception: The minimum RRF was not met for 1,1,2,2-Tetrachloroethane. The closing continuing calibration standard 0324S19.D on CHEM17 met ASP criteria for all target compounds.

Form 8: All internal standard areas and retention times met method criteria.

Observations: The client requested the 8260 TCL compound list for this sample set.
All compounds striked through on quantitation report are less than MDL for that compound.
All compounds highlighted on a quantitation report are reported from a HL or diluted analysis.

No other observations are noted.

04/07/15

Jonathon Carlson
Project Manager

Date

2C
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Phoenix Environmental Labs Client: AESHAUP
 Lab Code: Phoenix Case No.: SDG: GBH86681
 QC Batch Id: 302518 QC Sample Id: BH86681

	CLIENT ID	SMC1 DBFM #	SMC2 TOL #	SMC3 BFB #	SMC4 DCB #	TOT OUT
01	BH86681 LCS	100	98	99	101	0
02	BH86681 LCSD	106	100	100	99	0
03	BH86681 BLANK	88	98	95	97	0
04	MW-5D	98	100	98	100	0
05	MW-6S	99	99	98	103	0
06	MW-6D	100	101	100	101	0
07	MW-7S	100	99	98	101	0
08	MW-7D	104	99	98	101	0
09	MW-8S	104	100	98	102	0
10	MW-8D	104	100	97	99	0
11	FIELD BLANK	104	99	98	101	0
12	TRIP BLANK	103	100	99	100	0
13	BH86681 MS	102	100	103	100	0
14	BH86681 MSD	102	102	103	99	0
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

			<u>QC LIMITS</u>
SMC1	DBFM	Dibromofluoromethane	(70-130)
SMC2	TOL	Toluene-d8	(70-130)
SMC3	BFB	Bromofluorobenzene	(70-130)
SMC4	DCB	1,2-dichlorobenzene-d4	(70-130)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

FORM II VOA
FORM II VOA

3C
WATER VOLATILE LCS SPIKE / LCS SPIKE DUPLICATE RECOVERY

Lab Name: Phoenix Environmental Labs Client: AESHAUP

Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No: GBH86681

LCS Spike - Client Id: BH86681 LCS Level:(low/med) Low

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	LCS CONCENTRATION ug/L	LCS % REC #	QC. LIMITS REC.	
Dichlorodifluoromethane	10	0.0	8.347	83	70	130
Chloromethane	10	0.0	9.351	94	70	130
Vinyl Chloride	10	0.0	9.454	95	70	130
Bromomethane	10	0.0	11.04	110	70	130
Chloroethane	10	0.0	9.088	91	70	130
Trichlorofluoromethane	10	0.0	8.716	87	70	130
1,1-Dichloroethene	10	0.0	10.02	100	70	130
Trichlorotrifluoroethane	10	0.0	8.774	88	70	130
Acetone	10	0.0	9.980	100	70	130
Carbon Disulfide	10	0.0	9.791	98	70	130
METHYLACETATE	10	0.0	9.709	97	70	130
Methylene Chloride	10	0.0	7.420	74	70	130
Trans-1,2-Dichloroethene	10	0.0	9.806	98	70	130
1,1-Dichloroethane	10	0.0	9.730	97	70	130
Cis-1,2-Dichloroethene	10	0.0	9.863	99	70	130
Methyl Ethyl Ketone	10	0.0	9.439	94	70	130
Bromochloromethane	10	0.0	10.23	102	70	130
CYCLOHEXANE	10	0.0	8.386	84	70	130
Chloroform	10	0.0	10.01	100	70	130
COMPOUND	SPIKE ADDED ug/L	LCSD CONCENTRATION ug/L	LCSD % REC #	% RPD	QC LIMITS	
					RPD	REC.
Dichlorodifluoromethane	10	8.600	86	3.6	30	70 130
Chloromethane	10	9.128	91	3.2	30	70 130
Vinyl Chloride	10	9.532	95	0.0	30	70 130
Bromomethane	10	11.56	116	5.3	30	70 130
Chloroethane	10	9.188	92	1.1	30	70 130
Trichlorofluoromethane	10	8.942	89	2.3	30	70 130
1,1-Dichloroethene	10	9.741	97	3.0	30	70 130
Trichlorotrifluoroethane	10	9.132	91	3.4	30	70 130
Acetone	10	9.431	94	6.2	30	70 130
Carbon Disulfide	10	9.820	98	0.0	30	70 130
METHYLACETATE	10	10.13	101	4.0	30	70 130
Methylene Chloride	10	7.508	75	1.3	30	70 130
Trans-1,2-Dichloroethene	10	10.10	101	3.0	30	70 130
1,1-Dichloroethane	10	9.694	97	0.0	30	70 130
Cis-1,2-Dichloroethene	10	9.817	98	1.0	30	70 130
Methyl Ethyl Ketone	10	10.13	101	7.2	30	70 130
Bromochloromethane	10	9.970	100	2.0	30	70 130
CYCLOHEXANE	10	8.217	82	2.4	30	70 130
Chloroform	10	9.853	99	1.0	30	70 130

FORM III VOA

3C
WATER VOLATILE LCS SPIKE / LCS SPIKE DUPLICATE RECOVERY

Lab Name: Phoenix Environmental Labs Client: AESHAUP

Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No: GBH86681

LCS Spike - Client Id: BH86681 LCS Level:(low/med) Low

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	LCS CONCENTRATION ug/L	LCS % REC #	QC. LIMITS REC.	
1,1,1-Trichloroethane	10	0.0	9.697	97	70	130
Methyl t-Butyl Ether (MTBE)	10	0.0	10.45	105	70	130
Carbon Tetrachloride	10	0.0	9.153	92	70	130
Benzene	10	0.0	9.750	98	70	130
1,2-Dichloroethane	10	0.0	10.03	100	70	130
METHYLCYCLOHEXANE	10	0.0	8.277	83	70	130
Trichloroethene	10	0.0	9.375	94	70	130
1,2-dichloropropane	10	0.0	9.477	95	70	130
Bromodichloromethane	10	0.0	10.46	105	70	130
cis-1,3-Dichloropropene	10	0.0	10.08	101	70	130
4-Methyl-2-Pentanone	10	0.0	9.637	96	70	130
Toluene	10	0.0	9.563	96	70	130
1,2-Dibromoethane	10	0.0	9.720	97	70	130
trans-1,3-Dichloropropene	10	0.0	10.31	103	70	130
1,1,2-Trichloroethane	10	0.0	9.537	95	70	130
Tetrachloroethene	10	0.0	9.162	92	70	130
2-Hexanone	10	0.0	9.849	98	70	130
Dibromochloromethane	10	0.0	10.47	105	70	130
Chlorobenzene	10	0.0	9.743	97	70	130
COMPOUND	SPIKE ADDED ug/L	LCSD CONCENTRATION ug/L	LCSD % REC #	% RPD	QC LIMITS	
					RPD	REC.
1,1,1-Trichloroethane	10	9.576	96	1.0	30	70 130
Methyl t-Butyl Ether (MTBE)	10	10.23	102	1.9	30	70 130
Carbon Tetrachloride	10	9.006	90	2.2	30	70 130
Benzene	10	9.445	94	4.2	30	70 130
1,2-Dichloroethane	10	9.957	100	0.0	30	70 130
METHYLCYCLOHEXANE	10	8.183	82	1.2	30	70 130
Trichloroethene	10	9.185	92	2.2	30	70 130
1,2-dichloropropane	10	9.463	95	0.0	30	70 130
Bromodichloromethane	10	10.23	102	2.9	30	70 130
cis-1,3-Dichloropropene	10	10.04	100	1.0	30	70 130
4-Methyl-2-Pentanone	10	9.429	94	2.1	30	70 130
Toluene	10	9.387	94	2.1	30	70 130
1,2-Dibromoethane	10	9.769	98	1.0	30	70 130
trans-1,3-Dichloropropene	10	10.20	102	1.0	30	70 130
1,1,2-Trichloroethane	10	9.399	94	1.1	30	70 130
Tetrachloroethene	10	9.094	91	1.1	30	70 130
2-Hexanone	10	9.351	94	4.2	30	70 130
Dibromochloromethane	10	9.986	100	4.9	30	70 130
Chlorobenzene	10	9.512	95	2.1	30	70 130

FORM III VOA

3C
WATER VOLATILE LCS SPIKE / LCS SPIKE DUPLICATE RECOVERY

Lab Name: Phoenix Environmental Labs Client: AESHAUP

Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No: GBH86681

LCS Spike - Client Id: BH86681 LCS Level:(low/med) Low

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	LCS CONCENTRATION ug/L	LCS % REC #	QC. LIMITS REC.	
Ethylbenzene	10	0.0	9.642	96	70	130
m&p-Xylene	20	0.0	18.99	95	70	130
o-Xylene	10	0.0	9.776	98	70	130
Styrene	10	0.0	9.728	97	70	130
Bromoform	10	0.0	10.14	101	70	130
Isopropylbenzene	10	0.0	9.289	93	70	130
1,1,2,2-Tetrachloroethane	10	0.0	10.44	104	70	130
1,3-Dichlorobenzene	10	0.0	10.04	100	70	130
1,4-Dichlorobenzene	10	0.0	9.756	98	70	130
1,2-Dichlorobenzene	10	0.0	10.00	100	70	130
1,2-Dibromo-3-Chloropropane	10	0.0	9.139	91	70	130
1,2,4-Trichlorobenzene	10	0.0	10.00	100	70	130
1,2,3-Trichlorobenzene	10	0.0	10.68	107	70	130
1,4-Dioxane	200	0.0	190.4	95	70	130
COMPOUND	SPIKE ADDED ug/L	LCSD CONCENTRATION ug/L	LCSD % REC #	% RPD	QC LIMITS	
					RPD	REC.
Ethylbenzene	10	9.373	94	2.1	30	70 130
m&p-Xylene	20	18.56	93	2.1	30	70 130
o-Xylene	10	9.502	95	3.1	30	70 130
Styrene	10	9.534	95	2.1	30	70 130
Bromoform	10	9.736	97	4.0	30	70 130
Isopropylbenzene	10	9.106	91	2.2	30	70 130
1,1,2,2-Tetrachloroethane	10	9.922	99	4.9	30	70 130
1,3-Dichlorobenzene	10	9.814	98	2.0	30	70 130
1,4-Dichlorobenzene	10	9.597	96	2.1	30	70 130
1,2-Dichlorobenzene	10	9.650	97	3.0	30	70 130
1,2-Dibromo-3-Chloropropane	10	9.446	94	3.2	30	70 130
1,2,4-Trichlorobenzene	10	9.720	97	3.0	30	70 130
1,2,3-Trichlorobenzene	10	10.24	102	4.8	30	70 130
1,4-Dioxane	200	206.7	103	8.1	30	70 130

FORM III VOA

WATER VOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Phoenix Environmental Labs Client: AESHAUPLab Code: Phoenix Case No: _____ SAS No: _____ SDG No: GBH86681Matrix Spike - Client Id: BH86681 MS Level:(low/med) Low

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC #	QC. LIMITS REC.		
Dichlorodifluoromethane	10.00	0.0	7.421	74	70	130	
Chloromethane	10.00	0.0	8.934	89	70	130	
Vinyl Chloride	10.00	0.0	8.194	82	70	130	
Bromomethane	10.00	0.0	8.201	82	70	130	
Chloroethane	10.00	0.0	8.219	82	70	130	
Trichlorofluoromethane	10.00	0.0	8.210	82	70	130	
1,1-Dichloroethene	10.00	0.0	8.237	82	70	130	
Trichlorotrifluoroethane	10.00	0.0	7.976	80	70	130	
Acetone	10.00	0.0	9.443	94	70	130	
Carbon Disulfide	10.00	0.0	8.420	84	70	130	
METHYLACETATE	10.00	0.0	9.300	93	70	130	
Methylene Chloride	10.00	0.0	6.869	69 *	70	130	
Trans-1,2-Dichloroethene	10.00	0.0	8.548	85	70	130	
1,1-Dichloroethane	10.00	0.0	8.992	90	70	130	
Cis-1,2-Dichloroethene	10.00	0.0	9.322	93	70	130	
Methyl Ethyl Ketone	10.00	0.0	9.253	93	70	130	
Bromochloromethane	10.00	0.0	9.558	96	70	130	
CYCLOHEXANE	10.00	0.0	7.801	78	70	130	
Chloroform	10.00	0.0	9.197	92	70	130	
COMPOUND	SPIKE ADDED ug/L	MSD CONCENTRATION ug/L	MSD % REC #	% RPD	#	QC LIMITS	
						RPD	REC.
Dichlorodifluoromethane	10.00	9.174	92	21.7	30	70	130
Chloromethane	10.00	9.471	95	6.5	30	70	130
Vinyl Chloride	10.00	9.209	92	11.5	30	70	130
Bromomethane	10.00	10.85	109	27.4	30	70	130
Chloroethane	10.00	9.317	93	12.6	30	70	130
Trichlorofluoromethane	10.00	10.14	101	20.8	30	70	130
1,1-Dichloroethene	10.00	9.815	98	17.8	30	70	130
Trichlorotrifluoroethane	10.00	10.01	100	22.2	30	70	130
Acetone	10.00	10.03	100	6.2	30	70	130
Carbon Disulfide	10.00	9.659	97	14.4	30	70	130
METHYLACETATE	10.00	9.911	99	6.3	30	70	130
Methylene Chloride	10.00	7.420	74	7.0	30	70	130
Trans-1,2-Dichloroethene	10.00	9.890	99	15.2	30	70	130
1,1-Dichloroethane	10.00	9.812	98	8.5	30	70	130
Cis-1,2-Dichloroethene	10.00	9.812	98	5.2	30	70	130
Methyl Ethyl Ketone	10.00	0	0 *	200.0 *	30	70	130
Bromochloromethane	10.00	10.21	102	6.1	30	70	130
CYCLOHEXANE	10.00	9.698	97	21.7	30	70	130
Chloroform	10.00	9.939	99	7.3	30	70	130

FORM III VOA

WATER VOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Phoenix Environmental Labs Client: AESHAUPLab Code: Phoenix Case No: _____ SAS No: _____ SDG No: GBH86681Matrix Spike - Client Id: BH86681 MS Level:(low/med) Low

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC #	QC. LIMITS REC.		
1,1,1-Trichloroethane	10.00	0.0	8.773	88	70	130	
Methyl t-Butyl Ether (MTBE)	10.00	0.0	9.086	91	70	130	
Carbon Tetrachloride	10.00	0.0	8.349	83	70	130	
Benzene	10.00	0.0	8.745	87	70	130	
1,2-Dichloroethane	10.00	0.0	9.532	95	70	130	
METHYLCYCLOHEXANE	10.00	0.0	7.645	76	70	130	
Trichloroethene	10.00	0.0	8.769	88	70	130	
1,2-dichloropropane	10.00	0.0	8.842	88	70	130	
Bromodichloromethane	10.00	0.0	9.372	94	70	130	
cis-1,3-Dichloropropene	10.00	0.0	8.973	90	70	130	
4-Methyl-2-Pentanone	10.00	0.0	9.714	97	70	130	
Toluene	10.00	0.0	8.749	87	70	130	
1,2-Dibromoethane	10.00	0.0	8.967	90	70	130	
trans-1,3-Dichloropropene	10.00	0.0	9.146	91	70	130	
1,1,2-Trichloroethane	10.00	0.0	9.257	93	70	130	
Tetrachloroethene	10.00	0.0	8.440	84	70	130	
2-Hexanone	10.00	0.0	9.678	97	70	130	
Dibromochloromethane	10.00	0.0	9.409	94	70	130	
Chlorobenzene	10.00	0.0	8.949	89	70	130	
COMPOUND	SPIKE ADDED ug/L	MSD CONCENTRATION ug/L	MSD % REC #	% RPD	#	QC LIMITS	
						RPD	REC.
1,1,1-Trichloroethane	10.00	10.22	102	14.7	30	70	130
Methyl t-Butyl Ether (MTBE)	10.00	10.26	103	12.4	30	70	130
Carbon Tetrachloride	10.00	9.792	98	16.6	30	70	130
Benzene	10.00	9.592	96	9.8	30	70	130
1,2-Dichloroethane	10.00	10.25	103	7.1	30	70	130
METHYLCYCLOHEXANE	10.00	9.285	93	20.1	30	70	130
Trichloroethene	10.00	9.611	96	8.7	30	70	130
1,2-dichloropropane	10.00	9.492	95	7.7	30	70	130
Bromodichloromethane	10.00	10.27	103	9.1	30	70	130
cis-1,3-Dichloropropene	10.00	9.907	99	9.5	30	70	130
4-Methyl-2-Pentanone	10.00	10.43	104	7.0	30	70	130
Toluene	10.00	9.522	95	8.8	30	70	130
1,2-Dibromoethane	10.00	10.06	101	11.5	30	70	130
trans-1,3-Dichloropropene	10.00	10.07	101	10.4	30	70	130
1,1,2-Trichloroethane	10.00	9.890	99	6.3	30	70	130
Tetrachloroethene	10.00	9.477	95	12.3	30	70	130
2-Hexanone	10.00	10.72	107	9.8	30	70	130
Dibromochloromethane	10.00	10.36	104	10.1	30	70	130
Chlorobenzene	10.00	9.829	98	9.6	30	70	130

FORM III VOA

WATER VOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Phoenix Environmental Labs Client: AESHAUPLab Code: Phoenix Case No: _____ SAS No: _____ SDG No: GBH86681Matrix Spike - Client Id: BH86681 MS Level:(low/med) Low

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC #	QC. LIMITS REC.	
Ethylbenzene	10.00	0.0	8.704	87	70	130
m&p-Xylene	20.00	0.0	17.46	87	70	130
o-Xylene	10.00	0.0	8.660	87	70	130
Styrene	10.00	0.0	8.906	89	70	130
Bromoform	10.00	0.0	8.887	89	70	130
Isopropylbenzene	10.00	0.0	8.585	86	70	130
1,1,2,2-Tetrachloroethane	10.00	0.0	8.409	84	70	130
1,3-Dichlorobenzene	10.00	0.0	8.975	90	70	130
1,4-Dichlorobenzene	10.00	0.0	8.905	89	70	130
1,2-Dichlorobenzene	10.00	0.0	8.909	89	70	130
1,2-Dibromo-3-Chloropropane	10.00	0.0	8.914	89	70	130
1,2,4-Trichlorobenzene	10.00	0.0	8.551	86	70	130
1,2,3-Trichlorobenzene	10.00	0.0	8.543	85	70	130
1,4-Dioxane	200.0	0.0	175.5	88	70	130
COMPOUND	SPIKE ADDED ug/L	MSD CONCENTRATION ug/L	MSD % REC #	% RPD	QC LIMITS	
					RPD	REC.
Ethylbenzene	10.00	9.706	97	10.9	30	70 130
m&p-Xylene	20.00	19.33	97	10.9	30	70 130
o-Xylene	10.00	9.849	98	11.9	30	70 130
Styrene	10.00	9.885	99	10.6	30	70 130
Bromoform	10.00	9.872	99	10.6	30	70 130
Isopropylbenzene	10.00	9.539	95	9.9	30	70 130
1,1,2,2-Tetrachloroethane	10.00	9.952	100	17.4	30	70 130
1,3-Dichlorobenzene	10.00	10.04	100	10.5	30	70 130
1,4-Dichlorobenzene	10.00	9.719	97	8.6	30	70 130
1,2-Dichlorobenzene	10.00	9.775	98	9.6	30	70 130
1,2-Dibromo-3-Chloropropane	10.00	9.368	94	5.5	30	70 130
1,2,4-Trichlorobenzene	10.00	9.728	97	12.0	30	70 130
1,2,3-Trichlorobenzene	10.00	9.994	100	16.2	30	70 130
1,4-Dioxane	200.0	182.5	91	3.4	30	70 130

FORM III VOA

4A
VOLATILE METHOD BLANK SUMMARY

Client ID

BH86681 BLANK

Lab Name: Phoenix Environmental Labs

Client: AESHAUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GBH86681

Lab File ID: 0324S07.D

Lab Sample ID: BH86681 BLK

Date Analyzed: 03/24/2015

Time Analyzed: 11:24

GC Column: rtx-vms

Lab Batch ID: 302518

Instrument ID: CHEM17

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	BH86681 LCS	BH86681 LCS	0324S04.D	10:05
02	BH86681 LCSD	BH86681 LCSD	0324S05.D	10:28
03	MW-5D	BH86681	0324S08.D	11:47
04	MW-6S	BH86682	0324S09.D	12:10
05	MW-6D	BH86683	0324S10.D	12:33
06	MW-7S	BH86684	0324S11.D	12:56
07	MW-7D	BH86685	0324S12.D	13:19
08	MW-8S	BH86686	0324S13.D	13:42
09	MW-8D	BH86687	0324S14.D	14:05
10	FIELD BLANK	BH86688	0324S15.D	14:28
11	TRIP BLANK	BH86689	0324S16.D	14:51
12	BH86681 MS	BH86681 MS	0324S17.D	15:14
13	BH86681 MSD	BH86681 MSD	0324S18.D	15:37
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV VOA

5B
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: AESHAUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GBH86681

Lab File ID: 0323S12.D

BFB Injection Date: 03/23/15

Instrument ID: CHEM17

BFB Injection Time: 14:18

GC Column: rtx-vms

Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% if mass 95	26.7
75	30.0 - 60.0% of mass 95	58.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	77.9
175	5.0 - 9.0% of mass 174	6.5 (8.3)1
176	95.0 - 101.0% of mass 174	75.9 (97.4)2
177	5.0 - 9.0% of mass 176	4.9 (6.4)3

1-Value is % mass 95

2-Value is % mass 174

3-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ICAL 0.50	VOA-.5 PPB STD.	0323S13.D	03/23/15	14:41
02	ICAL 2.0	VOA-2 PPB STD.	0323S14.D	03/23/15	15:04
03	ICAL 4.0	VOA-4 PPB STD.	0323S15.D	03/23/15	15:27
04	ICAL 10	VOA-10 PPB STD.	0323S16.D	03/23/15	15:50
05	ICAL 20	VOA-20 PPB STD.	0323S17.D	03/23/15	16:13
06	ICAL 30	VOA-30 PPB STD.	0323S18.D	03/23/15	16:36
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

FORM V DIOX

5B
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: AESHAUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GBH86681

Lab File ID: 0324S01.D

BFB Injection Date: 03/24/15

Instrument ID: CHEM17

BFB Injection Time: 08:56

GC Column: rtx-vms

Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% if mass 95	26.9
75	30.0 - 60.0% of mass 95	57.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	Greater than 50.0% of mass 95	76.4
175	5.0 - 9.0% of mass 174	5.9 (7.7)1
176	95.0 - 101.0% of mass 174	73.8 (96.6)2
177	5.0 - 9.0% of mass 176	5.0 (6.8)3

1-Value is % mass 95

2-Value is % mass 174

3-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCAL 10	VOA-10 PPB STD.	0324S03.D	03/24/15	09:42
02	BH86681 LCS	VOA-LCS-10 PPB STD.	0324S04.D	03/24/15	10:05
03	BH86681 LCSD	VOA-LCSD-10 PPB STD.	0324S05.D	03/24/15	10:28
04	BH86681 BLANK	HCL BLANK	0324S07.D	03/24/15	11:24
05	MW-5D	BH86681	0324S08.D	03/24/15	11:47
06	MW-6S	BH86682	0324S09.D	03/24/15	12:10
07	MW-6D	BH86683	0324S10.D	03/24/15	12:33
08	MW-7S	BH86684	0324S11.D	03/24/15	12:56
09	MW-7D	BH86685	0324S12.D	03/24/15	13:19
10	MW-8S	BH86686	0324S13.D	03/24/15	13:42
11	MW-8D	BH86687	0324S14.D	03/24/15	14:05
12	FIELD BLANK	BH86688	0324S15.D	03/24/15	14:28
13	TRIP BLANK	BH86689	0324S16.D	03/24/15	14:51
14	BH86681 MS	SPIKE 10-PPB	0324S17.D	03/24/15	15:14
15	BH86681 MSD	SPIKED 10-PPB	0324S18.D	03/24/15	15:37
16	CCCAL 10	VOA-10 PPB STD.	0324S19.D	03/24/15	16:00
17					
18					
19					
20					
21					
22					
23					
24					
25					

FORM V DIOX

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Phoenix Environmental Labs Client: AESHAUP
 Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBH86681
 Lab File Id: 0323S16.D Date Analyzed: 03/23/15
 Instrument ID: CHEM17 Time Analyzed: 15:50
 GC Column: rtx-vms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #	IS 4 (DCB) AREA #	RT #
12 HOUR STD	162363	3.99	218784	4.35	182135	6.43	101794	8.05
UPPER LIMIT	332844	4.49	448507	4.85	373377	6.93	208678	8.55
LOWER LIMIT	80370	3.49	108298	3.85	90157	5.93	50388	7.55
CLIENT ID								
01 ICAL 0.50	170347	3.99	229127	4.35	193634	6.43	111730	8.05
02 ICAL 2.0	169744	3.99	228347	4.35	191249	6.43	110188	8.05
03 ICAL 4.0	171351	3.99	228932	4.35	196214	6.43	112194	8.05
04 ICAL 20	167217	3.99	224500	4.35	184604	6.43	105568	8.05
05 ICAL 30	161526	3.99	218672	4.35	187850	6.43	109545	8.05
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

IS1 (PFB) = Pentafluorobenzene
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5
 IS4 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Phoenix Environmental Labs Client: AESHAUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBH86681

Lab File Id: 0324S03.D Date Analyzed: 03/24/15

Instrument ID: CHEM17 Time Analyzed: 9:42

GC Column: rtx-vms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #	IS 4 (DCB) AREA #	RT #
12 HOUR STD	149444	3.99	206717	4.35	174854	6.43	101237	8.05
UPPER LIMIT	306360	4.49	423770	4.85	358451	6.93	207536	8.55
LOWER LIMIT	73975	3.49	102325	3.85	86553	5.93	50112	7.55
CLIENT ID								
01 BH86681 LCS	149209	3.99	206113	4.35	175531	6.43	99539	8.05
02 BH86681 LCSD	150093	3.99	211085	4.35	179800	6.43	103439	8.05
03 BH86681 BLANK	160129	3.99	211491	4.35	177919	6.43	92934	8.05
04 MW-5D	152007	3.99	209191	4.35	184191	6.43	101582	8.05
05 MW-6S	150925	3.99	207600	4.35	182597	6.43	101576	8.05
06 MW-6D	152272	3.99	208699	4.35	183200	6.43	102596	8.05
07 MW-7S	151263	3.99	207245	4.35	181203	6.43	100892	8.05
08 MW-7D	151720	3.99	210174	4.35	184189	6.43	103305	8.05
09 MW-8S	149644	3.99	205296	4.35	180739	6.43	100537	8.05
10 MW-8D	150440	3.99	211524	4.35	186413	6.43	103102	8.05
11 FIELD BLANK	152969	3.99	212123	4.35	185135	6.43	104286	8.05
12 TRIP BLANK	153224	3.99	208352	4.35	185424	6.43	103693	8.05
13 BH86681 MS	145143	3.99	196712	4.35	166215	6.43	95438	8.05
14 BH86681 MSD	148383	3.99	203209	4.35	170181	6.43	99164	8.05
15 CCCAL 10	145300	3.99	202158	4.35	167869	6.43	94038	8.05
16								
17								
18								
19								
20								
21								
22								

IS1 (PFB) = Pentafluorobenzene
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5
 IS4 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

MW-5D

Client: AESHAUP Lab: Phoenix Env. Labs

SDG No.: GBH86681 Lab Sample ID: BH86681

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0324S08.D

Level: (low/med/meth): Low Date Received: 03/23/15

% Moisture: n.a. Date Analyzed: 03/24/15

Instrument: CHEM17 Column: rtx-vms Dilution Factor: 1

Purge Volume 25000 (uL) pH: < 2 Soil Aliquot Vol: n.a. (uL)

Matrix: (soil/water) WATER CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONC.	Q	MDL/LOD	RL/PQL
75-71-8	Dichlorodifluoromethane	1.0	U	0.25	1.0
74-87-3	Chloromethane	2.0	U	0.25	2.0
75-01-4	Vinyl Chloride	1.0	U	0.25	1.0
74-83-9	Bromomethane	2.0	U	0.25	2.0
75-00-3	Chloroethane	2.0	U	0.25	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.25	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.25	1.0
76-13-1	Trichlorotrifluoroethane	1.0	U	0.25	1.0
67-64-1	Acetone	6.0	S	2.5	5.0
75-15-0	Carbon Disulfide	1.0	U	0.25	1.0
79-20-9	METHYLACETATE	2.5	U	2.5	2.5
75-09-2	Methylene Chloride	3.0	U	0.25	3.0
156-60-5	Trans-1,2-Dichloroethene	2.0	U	0.25	2.0
75-34-3	1,1-Dichloroethane	2.0	U	0.25	2.0
156-59-2	Cis-1,2-Dichloroethene	0.44	J	0.25	1.0
78-93-3	Methyl Ethyl Ketone	2.5	U	2.5	2.5
74-97-5	Bromochloromethane	1.0	U	0.25	1.0
110-82-7	CYCLOHEXANE	5.0	U	0.50	5.0
67-66-3	Chloroform	0.88	J	0.25	2.0
71-55-6	1,1,1-Trichloroethane	2.0	U	0.25	2.0
1634-04-4	Methyl t-Butyl Ether (MTBE)	1.0	U	0.25	1.0
56-23-5	Carbon Tetrachloride	1.0	U	0.25	1.0
71-43-2	Benzene	0.70	U	0.25	0.70
107-06-2	1,2-Dichloroethane	0.6	U	0.25	0.6
108-87-2	METHYLCYCLOHEXANE	2.0	U	0.50	2.0
79-01-6	Trichloroethene	1.8		0.25	1.0
78-87-5	1,2-dichloropropane	1.0	U	0.25	1.0
75-27-4	Bromodichloromethane	1.0	U	0.25	1.0
10061-01-5	cis-1,3-Dichloropropene	0.40	U	0.25	0.40
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5
108-88-3	Toluene	2.0	U	0.25	2.0
106-93-4	1,2-Dibromoethane	1.0	U	0.25	1.0
10061-02-6	trans-1,3-Dichloropropene	0.40	U	0.25	0.40
79-00-5	1,1,2-Trichloroethane	1.0	U	0.25	1.0
127-18-4	Tetrachloroethene	1.9		0.25	1.0
591-78-6	2-Hexanone	2.5	U	2.5	2.5

FORM I VOA

MW-5D

Client:	AESHAUP			Lab:	Phoenix Env. Labs	
SDG No.:	GBH86681			Lab Sample ID:	BH86681	
Sample wt/vol:	25	(g/mL)	mL	Lab File ID:	0324S08.D	
Level: (low/med/meth):	Low			Date Received:	03/23/15	
% Moisture:	n.a.			Date Analyzed:	03/24/15	
Instrument:	CHEM17	Column:	rtx-vms	Dilution Factor:	1	
Purge Volume	25000	(uL)	pH: < 2	Soil Aliquot Vol:	n.a.	(uL)
Matrix: (soil/water)	WATER			CONCENTRATION UNITS: (ug/L or ug/Kg)		
					ug/L	

[illegible]

FORM I VOA

CLIENT ID

MW-5D

Client: AESHAUP

SDG No.: GBH86681

Lab Sample ID: BH86681

Lab File ID: 0324S08.D

Date Received: 03/23/15

Date Analyzed: 03/24/15

Dilution Factor: 1

Soil Aliquot Vol (uL): n.a.

CONCENTRATION UNITS:

[illegible]

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S08.D
 Acq On : 24 Mar 2015 11:47 am
 Operator :
 Sample : BH86681
 Misc : MW-5D
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 11:10:07 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

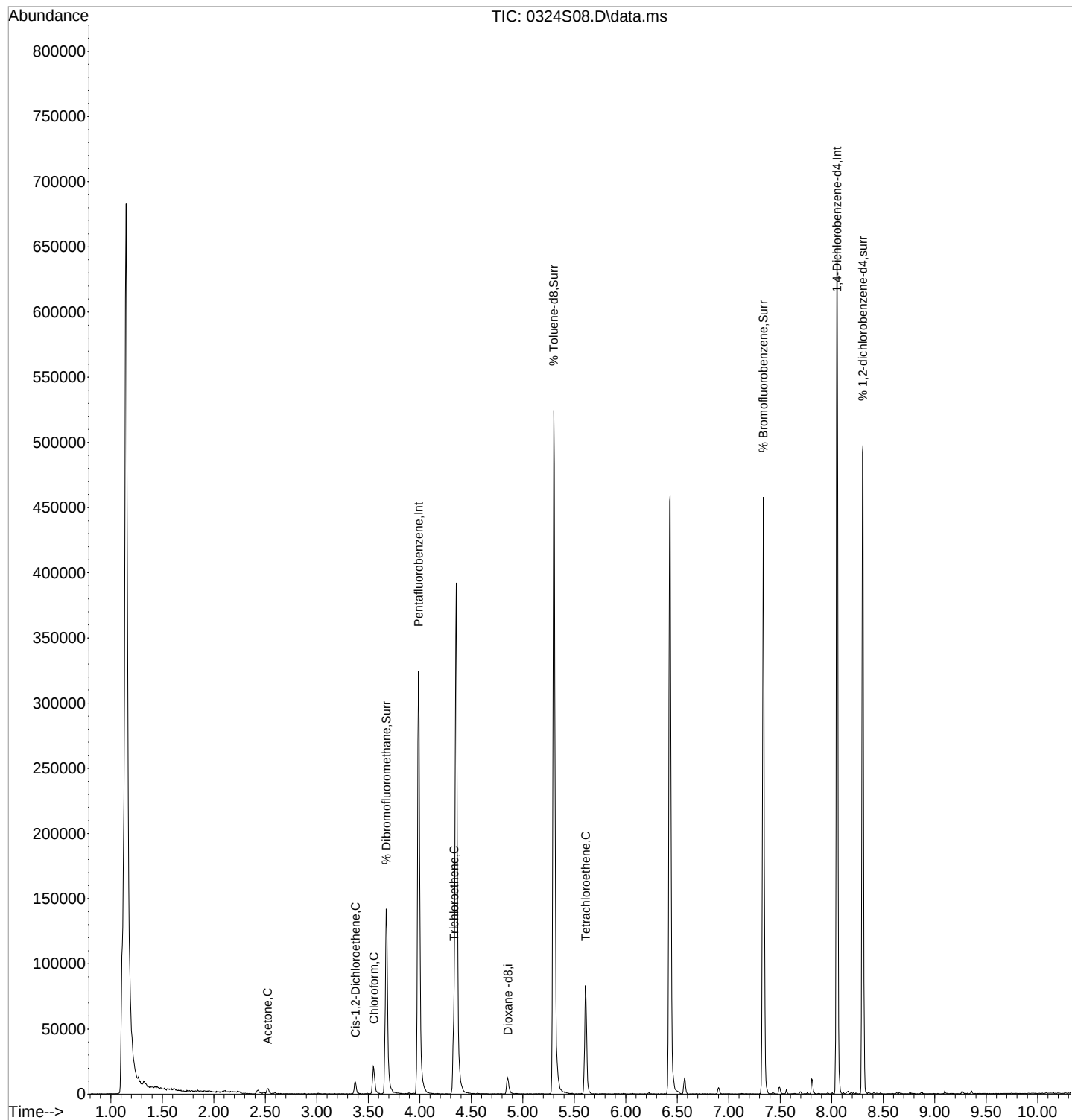
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

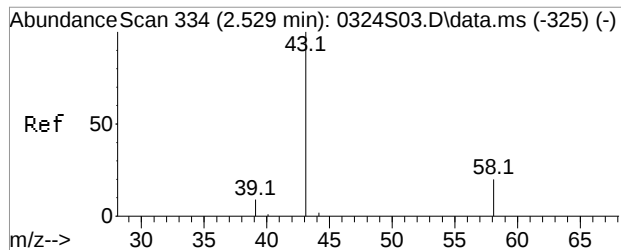
Internal Standards						
1) Pentafluorobenzene	3.988	168	152007	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.355	114	209191	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	184191	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	101582	10.00	ug/l	# 0.00
63) Dioxane -d8	4.857	96	6582	500.00	ug/l	0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.675	192	11858	9.77	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	=	97.70%	
36) % Toluene-d8	5.301	98	251933	9.98	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	=	99.80%	
52) % Bromofluorobenzene	7.336	95	98678	9.77	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	=	97.70%	
54) % 1,2-dichlorobenzene-d4	8.303	152	77867	9.99	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	=	99.90%	
Target Compounds						
						Qvalue
11) Acetone	2.524	43	4466	5.97	ug/l	# 62
18) Cis-1,2-Dichloroethene	3.376	96	2716	0.44	ug/l	# 67
22) Chloroform	3.554	83	12038	0.88	ug/l	100
31) Trichloroethene	4.334	130	13886	1.75	ug/l	# 69
42) Tetrachloroethene	5.610	164	13628	1.90	ug/l	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
Data File : 0324S08.D
Acq On : 24 Mar 2015 11:47 am
Operator :
Sample : BH86681
Misc : MW-5D
ALS Vial : 1 Sample Multiplier: 1

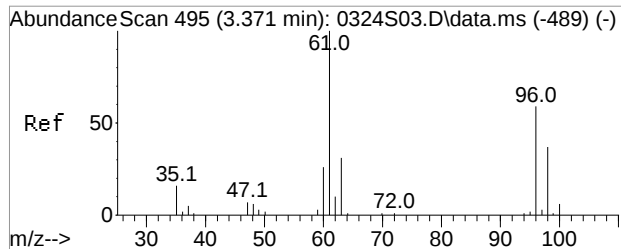
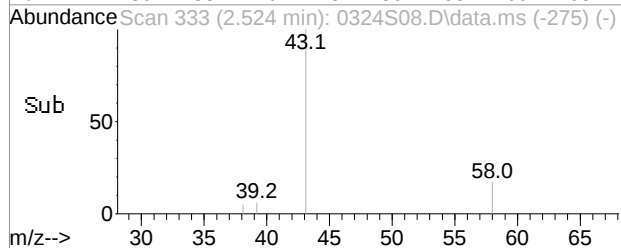
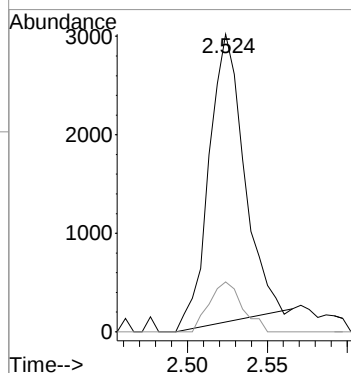
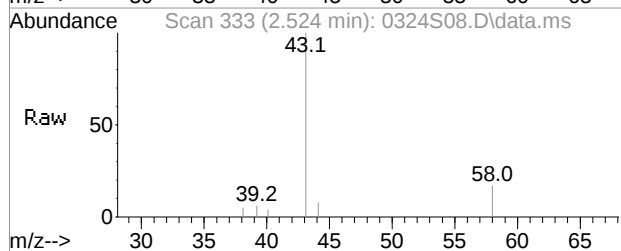
Quant Time: Mar 25 11:10:07 2015
Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Mar 24 08:24:49 2015
Response via : Initial Calibration





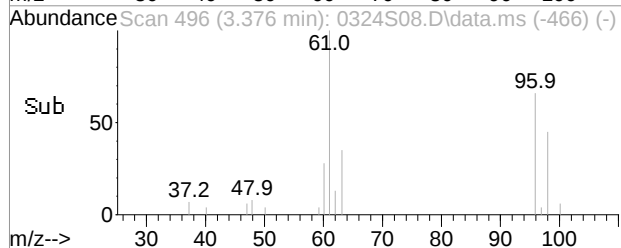
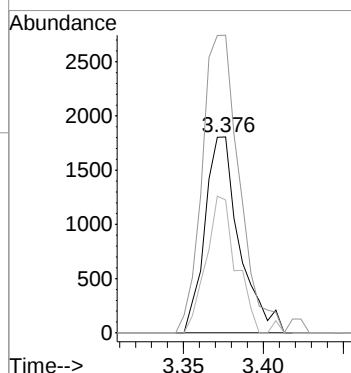
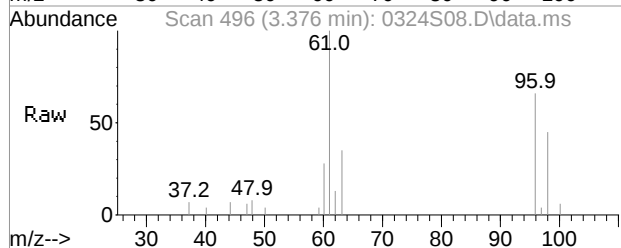
#11
Acetone
Concen: 5.97 ug/l
RT: 2.524 min Scan# 333
Delta R.T. 0.005 min
Lab File: 0324S08.D
Acq: 24 Mar 2015 11:47 am

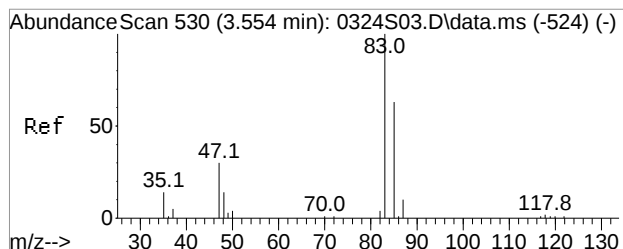
Tgt Ion: 43 Resp: 4466
Ion Ratio Lower Upper
43 100
58 16.4 31.5 47.3#



#18
Cis-1,2-Dichloroethene
Concen: 0.44 ug/l
RT: 3.376 min Scan# 496
Delta R.T. 0.005 min
Lab File: 0324S08.D
Acq: 24 Mar 2015 11:47 am

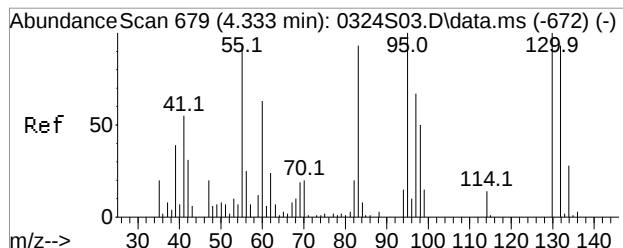
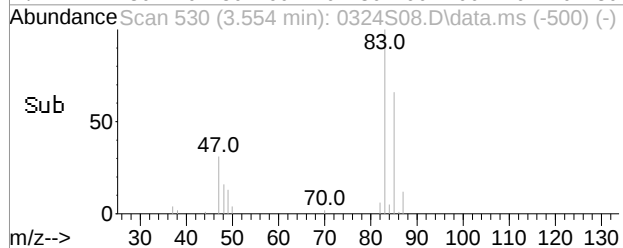
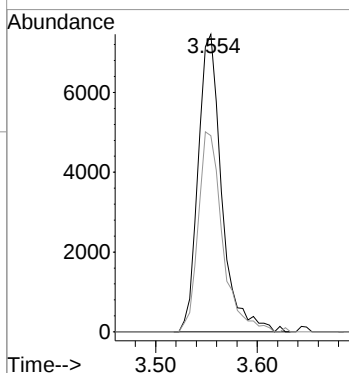
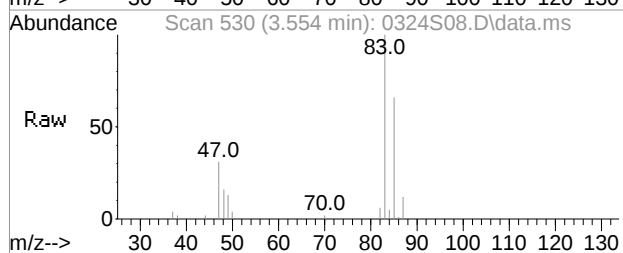
Tgt Ion: 96 Resp: 2716
Ion Ratio Lower Upper
96 100
61 164.0 88.0 132.0#
98 60.8 48.0 72.0





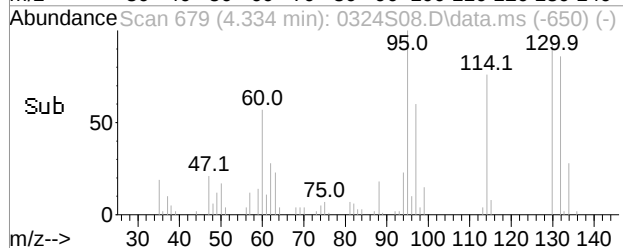
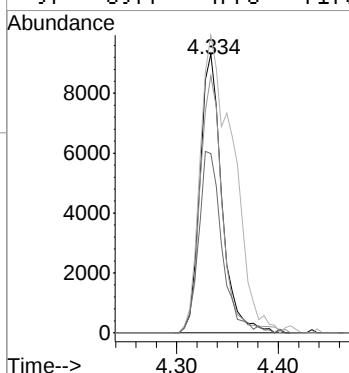
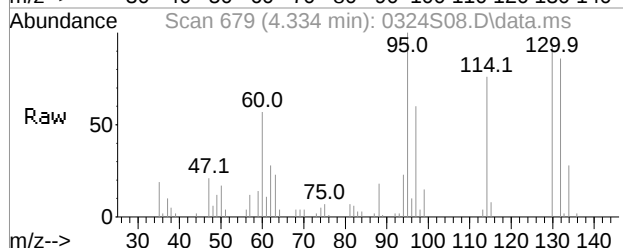
#22
Chloroform
Concen: 0.88 ug/l
RT: 3.554 min Scan# 530
Delta R.T. 0.005 min
Lab File: 0324S08.D
Acq: 24 Mar 2015 11:47 am

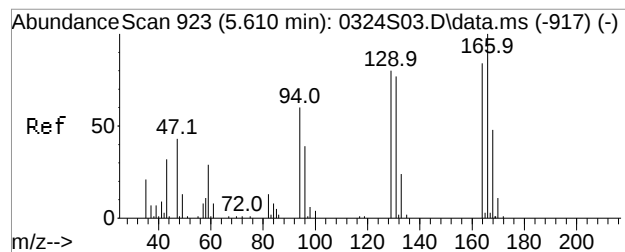
Tgt Ion: 83 Resp: 12038
Ion Ratio Lower Upper
83 100
85 65.9 46.1 86.1



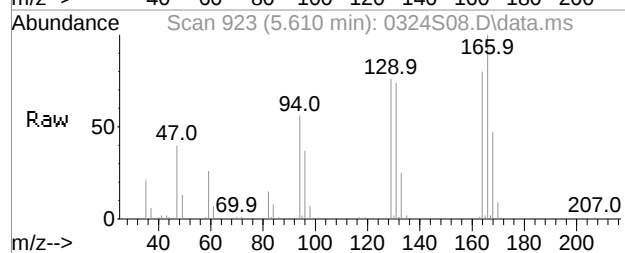
#31
Trichloroethene
Concen: 1.75 ug/l
RT: 4.334 min Scan# 679
Delta R.T. -0.000 min
Lab File: 0324S08.D
Acq: 24 Mar 2015 11:47 am

Tgt Ion: 130 Resp: 13886
Ion Ratio Lower Upper
130 100
132 94.0 77.5 116.3
95 160.9 73.3 109.9#
97 69.7 47.5 71.3



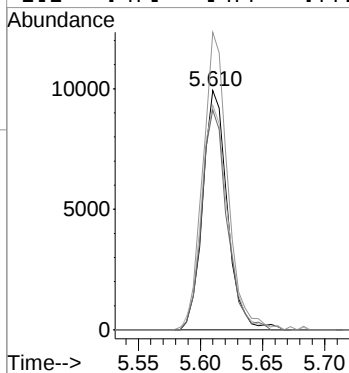
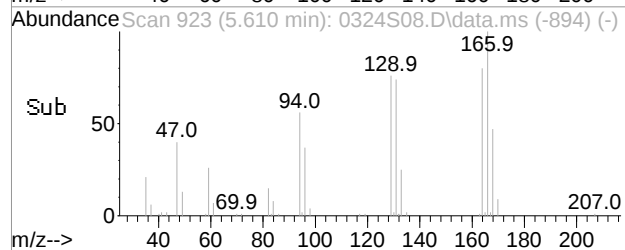


#42
Tetrachloroethene
Concen: 1.90 ug/l
RT: 5.610 min Scan# 923
Delta R.T. -0.000 min
Lab File: 0324S08.D
Acq: 24 Mar 2015 11:47 am



Tgt Ion:164 Resp: 13628

Ion	Ratio	Lower	Upper
164	100		
166	125.9	103.5	155.3
129	100.3	67.4	101.2
131	94.0	64.7	97.1



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

MW-6S

Client: AESHAUP Lab: Phoenix Env. Labs

SDG No.: GBH86681 Lab Sample ID: BH86682

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0324S09.D

Level: (low/med/meth): Low Date Received: 03/23/15

% Moisture: n.a. Date Analyzed: 03/24/15

Instrument: CHEM17 Column: rtx-vms Dilution Factor: 1

Purge Volume 25000 (uL) pH: < 2 Soil Aliquot Vol: n.a. (uL)

Matrix: (soil/water) WATER CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONC.	Q	MDL/LOD	RL/PQL
75-71-8	Dichlorodifluoromethane	1.0	U	0.25	1.0
74-87-3	Chloromethane	2.0	U	0.25	2.0
75-01-4	Vinyl Chloride	1.0	U	0.25	1.0
74-83-9	Bromomethane	2.0	U	0.25	2.0
75-00-3	Chloroethane	2.0	U	0.25	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.25	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.25	1.0
76-13-1	Trichlorotrifluoroethane	1.0	U	0.25	1.0
67-64-1	Acetone	4.0	JS	2.5	5.0
75-15-0	Carbon Disulfide	1.0	U	0.25	1.0
79-20-9	METHYLACETATE	2.5	U	2.5	2.5
75-09-2	Methylene Chloride	3.0	U	0.25	3.0
156-60-5	Trans-1,2-Dichloroethene	2.0	U	0.25	2.0
75-34-3	1,1-Dichloroethane	2.0	U	0.25	2.0
156-59-2	Cis-1,2-Dichloroethene	1.0	U	0.25	1.0
78-93-3	Methyl Ethyl Ketone	2.5	U	2.5	2.5
74-97-5	Bromochloromethane	1.0	U	0.25	1.0
110-82-7	CYCLOHEXANE	5.0	U	0.50	5.0
67-66-3	Chloroform	0.54	J	0.25	2.0
71-55-6	1,1,1-Trichloroethane	2.0	U	0.25	2.0
1634-04-4	Methyl t-Butyl Ether (MTBE)	1.0	U	0.25	1.0
56-23-5	Carbon Tetrachloride	1.0	U	0.25	1.0
71-43-2	Benzene	0.70	U	0.25	0.70
107-06-2	1,2-Dichloroethane	0.6	U	0.25	0.6
108-87-2	METHYLCYCLOHEXANE	2.0	U	0.50	2.0
79-01-6	Trichloroethene	0.66	J	0.25	1.0
78-87-5	1,2-dichloropropane	1.0	U	0.25	1.0
75-27-4	Bromodichloromethane	1.0	U	0.25	1.0
10061-01-5	cis-1,3-Dichloropropene	0.40	U	0.25	0.40
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5
108-88-3	Toluene	2.0	U	0.25	2.0
106-93-4	1,2-Dibromoethane	1.0	U	0.25	1.0
10061-02-6	trans-1,3-Dichloropropene	0.40	U	0.25	0.40
79-00-5	1,1,2-Trichloroethane	1.0	U	0.25	1.0
127-18-4	Tetrachloroethene	1.4		0.25	1.0
591-78-6	2-Hexanone	2.5	U	2.5	2.5

FORM I VOA

MW-6S

Client:	AESHAUP			Lab:	Phoenix Env. Labs	
SDG No.:	GBH86681			Lab Sample ID:	BH86682	
Sample wt/vol:	25	(g/mL)	mL	Lab File ID:	0324S09.D	
Level: (low/med/meth):	Low			Date Received:	03/23/15	
% Moisture:	n.a.			Date Analyzed:	03/24/15	
Instrument:	CHEM17	Column:	rtx-vms	Dilution Factor:	1	
Purge Volume	25000	(uL)	pH: < 2	Soil Aliquot Vol:	n.a.	(uL)
Matrix: (soil/water)	WATER			CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		

[illegible]

FORM I VOA

CLIENT ID

MW-6S

Client: AESHAUP

SDG No.: GBH86681

Lab Sample ID: BH86682

Lab File ID: 0324S09.D

Date Received: 03/23/15

Date Analyzed: 03/24/15

Dilution Factor: 1

Soil Aliquot Vol (uL): n.a.

CONCENTRATION UNITS:

FORM I VOA-TIC

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S09.D
 Acq On : 24 Mar 2015 12:10 pm
 Operator :
 Sample : BH86682
 Misc : MW-6S
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 11:10:09 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

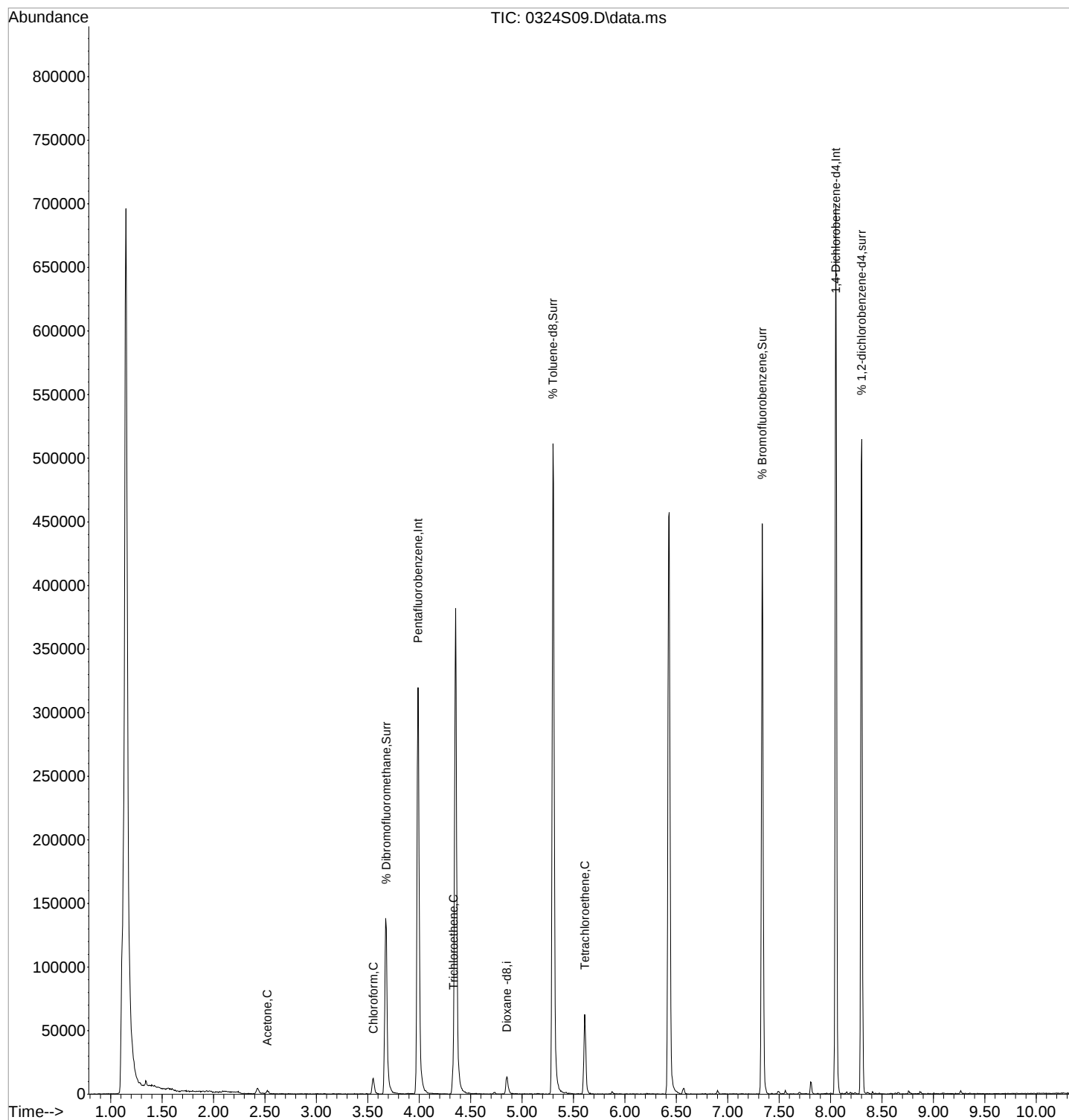
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

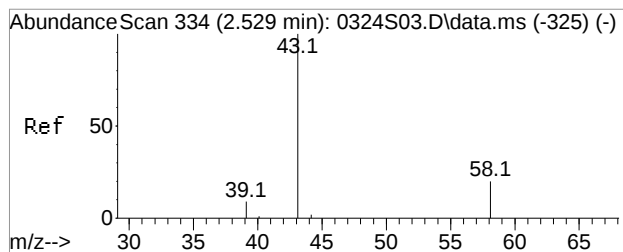
Internal Standards						
1) Pentafluorobenzene	3.988	168	150925	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	207600	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	182597	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	101576	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	7383	500.00	ug/l	0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.680	192	11896	9.87	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	=	98.70%	
36) % Toluene-d8	5.301	98	248326	9.91	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	=	99.10%	
52) % Bromofluorobenzene	7.336	95	98099	9.80	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	=	98.00%	
54) % 1,2-dichlorobenzene-d4	8.303	152	79909	10.26	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	=	102.60%	
Target Compounds						
						Qvalue
11) Acetone	2.524	43	2942	3.96	ug/l	# 63
22) Chloroform	3.554	83	7253	0.54	ug/l	96
31) Trichloroethene	4.334	130	5195	0.66	ug/l	# 29
42) Tetrachloroethene	5.610	164	9976	1.40	ug/l	# 90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
Data File : 0324S09.D
Acq On : 24 Mar 2015 12:10 pm
Operator :
Sample : BH86682
Misc : MW-6S
ALS Vial : 1 Sample Multiplier: 1

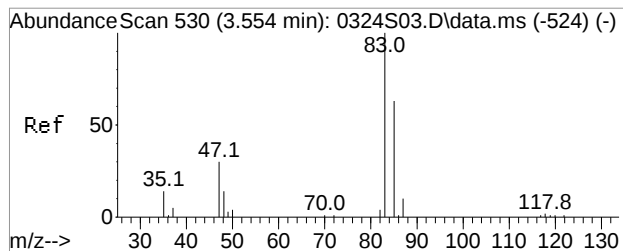
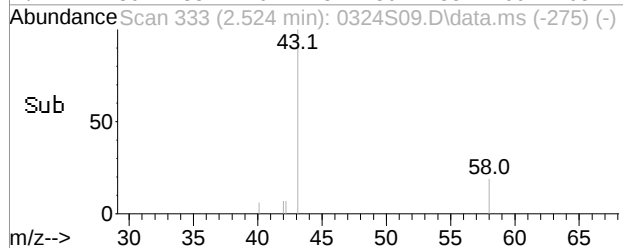
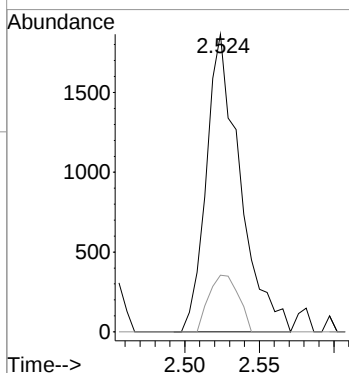
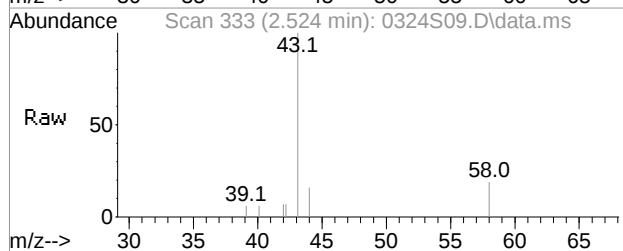
Quant Time: Mar 25 11:10:09 2015
Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Mar 24 08:24:49 2015
Response via : Initial Calibration





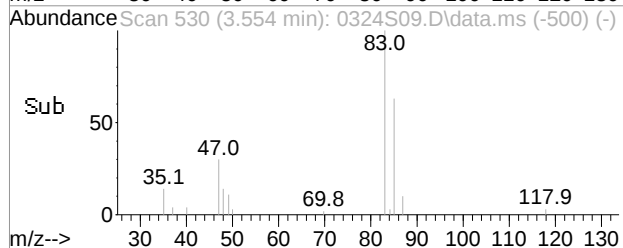
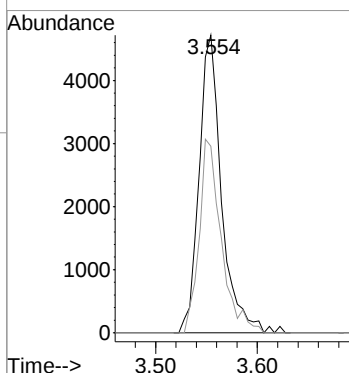
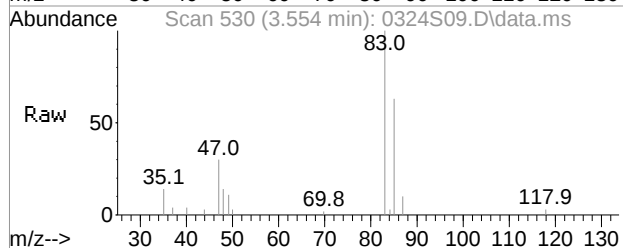
#11
Acetone
Concen: 3.96 ug/l
RT: 2.524 min Scan# 333
Delta R.T. 0.005 min
Lab File: 0324S09.D
Acq: 24 Mar 2015 12:10 pm

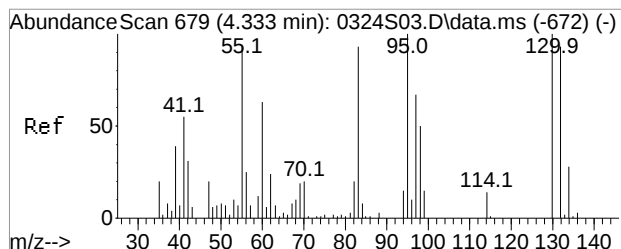
Tgt Ion: 43 Resp: 2942
Ion Ratio Lower Upper
43 100
58 16.7 31.5 47.3#



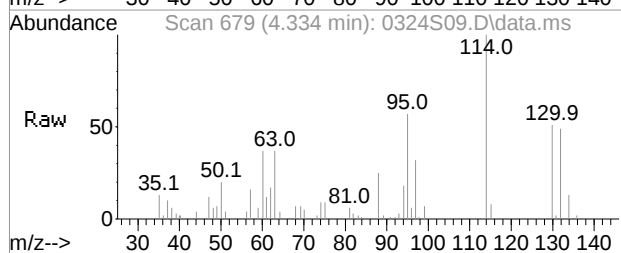
#22
Chloroform
Concen: 0.54 ug/l
RT: 3.554 min Scan# 530
Delta R.T. 0.005 min
Lab File: 0324S09.D
Acq: 24 Mar 2015 12:10 pm

Tgt Ion: 83 Resp: 7253
Ion Ratio Lower Upper
83 100
85 62.7 46.1 86.1

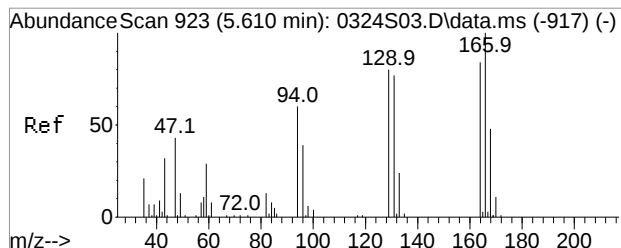
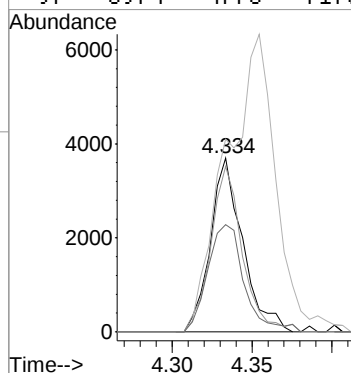
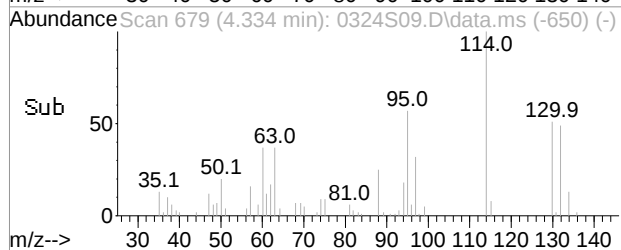




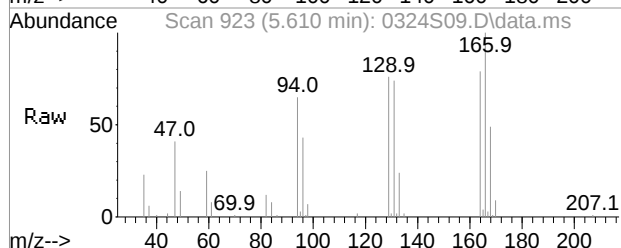
#31
Trichloroethene
Concen: 0.66 ug/l
RT: 4.334 min Scan# 679
Delta R.T. -0.000 min
Lab File: 0324S09.D
Acq: 24 Mar 2015 12:10 pm



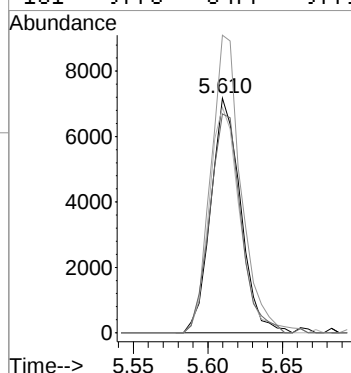
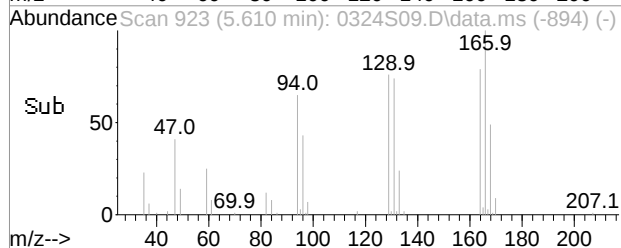
Tgt Ion:130 Resp: 5195
Ion Ratio Lower Upper
130 100
132 93.1 77.5 116.3
95 262.4 73.3 109.9#
97 69.4 47.5 71.3



#42
Tetrachloroethene
Concen: 1.40 ug/l
RT: 5.610 min Scan# 923
Delta R.T. -0.000 min
Lab File: 0324S09.D
Acq: 24 Mar 2015 12:10 pm



Tgt Ion:164 Resp: 9976
Ion Ratio Lower Upper
164 100
166 129.1 103.5 155.3
129 99.3 67.4 101.2
131 97.5 64.7 97.1#



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

MW-6D

Client: AESHAUP Lab: Phoenix Env. Labs

SDG No.: GBH86681 Lab Sample ID: BH86683

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0324S10.D

Level: (low/med/meth): Low Date Received: 03/23/15

% Moisture: n.a. Date Analyzed: 03/24/15

Instrument: CHEM17 Column: rtx-vms Dilution Factor: 1

Purge Volume 25000 (uL) pH: < 2 Soil Aliquot Vol: n.a. (uL)

Matrix: (soil/water) WATER CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONC.	Q	MDL/LOD	RL/PQL
75-71-8	Dichlorodifluoromethane	1.0	U	0.25	1.0
74-87-3	Chloromethane	2.0	U	0.25	2.0
75-01-4	Vinyl Chloride	1.0	U	0.25	1.0
74-83-9	Bromomethane	2.0	U	0.25	2.0
75-00-3	Chloroethane	2.0	U	0.25	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.25	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.25	1.0
76-13-1	Trichlorotrifluoroethane	1.0	U	0.25	1.0
67-64-1	Acetone	6.9	S	2.5	5.0
75-15-0	Carbon Disulfide	1.0	U	0.25	1.0
79-20-9	METHYLACETATE	2.5	U	2.5	2.5
75-09-2	Methylene Chloride	3.0	U	0.25	3.0
156-60-5	Trans-1,2-Dichloroethene	2.0	U	0.25	2.0
75-34-3	1,1-Dichloroethane	2.0	U	0.25	2.0
156-59-2	Cis-1,2-Dichloroethene	1.0	U	0.25	1.0
78-93-3	Methyl Ethyl Ketone	2.5	U	2.5	2.5
74-97-5	Bromochloromethane	1.0	U	0.25	1.0
110-82-7	CYCLOHEXANE	5.0	U	0.50	5.0
67-66-3	Chloroform	0.58	J	0.25	2.0
71-55-6	1,1,1-Trichloroethane	2.0	U	0.25	2.0
1634-04-4	Methyl t-Butyl Ether (MTBE)	1.0	U	0.25	1.0
56-23-5	Carbon Tetrachloride	1.0	U	0.25	1.0
71-43-2	Benzene	0.70	U	0.25	0.70
107-06-2	1,2-Dichloroethane	0.6	U	0.25	0.6
108-87-2	METHYLCYCLOHEXANE	2.0	U	0.50	2.0
79-01-6	Trichloroethene	1.0	U	0.25	1.0
78-87-5	1,2-dichloropropane	1.0	U	0.25	1.0
75-27-4	Bromodichloromethane	1.0	U	0.25	1.0
10061-01-5	cis-1,3-Dichloropropene	0.40	U	0.25	0.40
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5
108-88-3	Toluene	2.0	U	0.25	2.0
106-93-4	1,2-Dibromoethane	1.0	U	0.25	1.0
10061-02-6	trans-1,3-Dichloropropene	0.40	U	0.25	0.40
79-00-5	1,1,2-Trichloroethane	1.0	U	0.25	1.0
127-18-4	Tetrachloroethene	0.32	J	0.25	1.0
591-78-6	2-Hexanone	2.5	U	2.5	2.5

FORM I VOA

MW-6D

Client:	AESHAUP			Lab:	Phoenix Env. Labs	
SDG No.:	GBH86681			Lab Sample ID:	BH86683	
Sample wt/vol:	25	(g/mL)	mL	Lab File ID:	0324S10.D	
Level: (low/med/meth):	Low			Date Received:	03/23/15	
% Moisture:	n.a.			Date Analyzed:	03/24/15	
Instrument:	CHEM17	Column:	rtx-vms	Dilution Factor:	1	
Purge Volume	25000	(uL)	pH: < 2	Soil Aliquot Vol:	n.a.	(uL)
Matrix: (soil/water)	WATER			CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		

[illegible]

FORM I VOA

CLIENT ID

MW-6D

Client: AESHAUP

SDG No.: GBH86681

Lab Sample ID: BH86683

Lab File ID: 0324S10.D

Date Received: 03/23/15

Date Analyzed: 03/24/15

Dilution Factor: 1

Soil Aliquot Vol (uL): n.a.

CONCENTRATION UNITS:

FORM I VOA-TIC

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S10.D
 Acq On : 24 Mar 2015 12:33 pm
 Operator :
 Sample : BH86683
 Misc : MW-6D
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 12:35:36 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

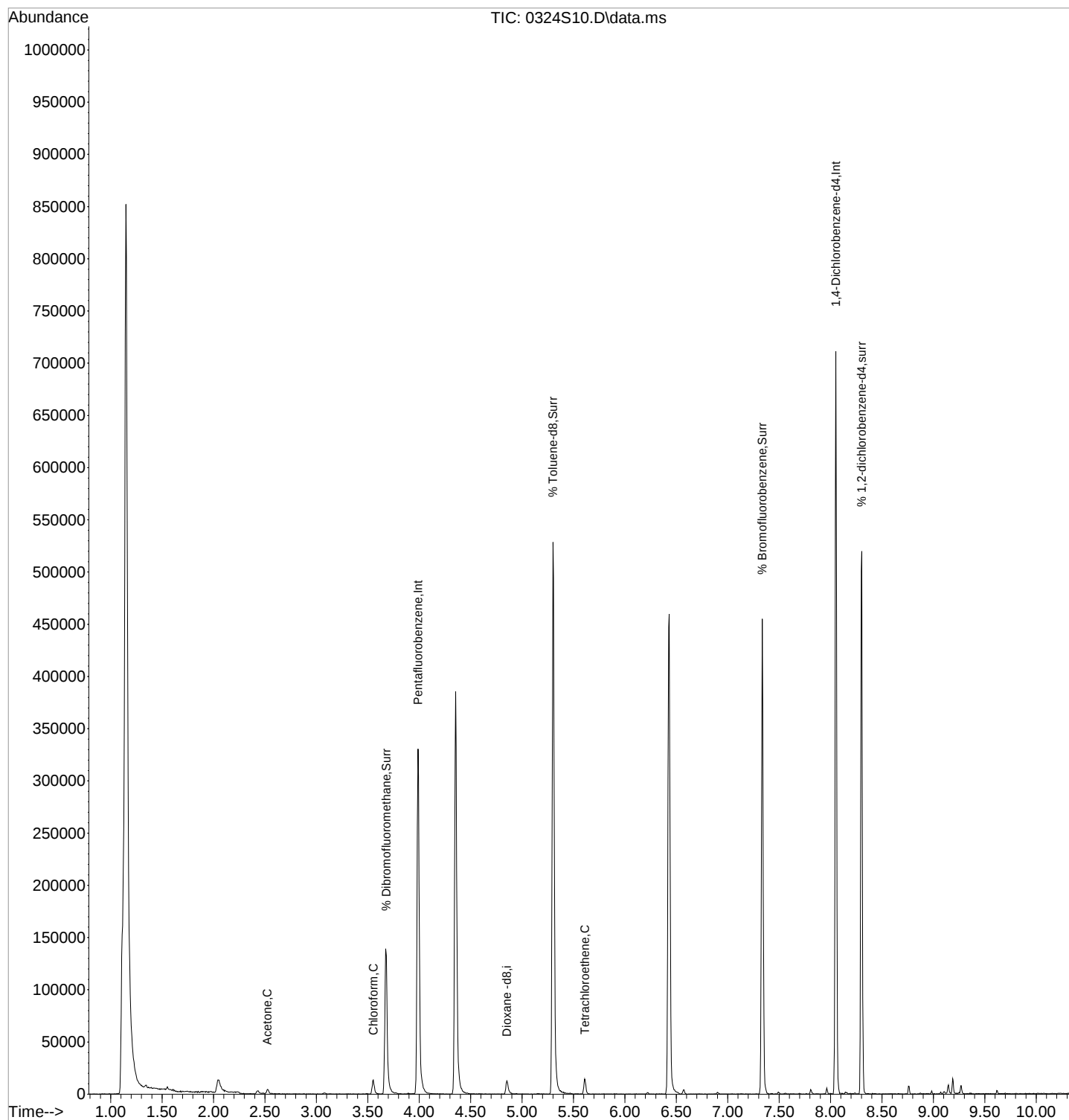
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

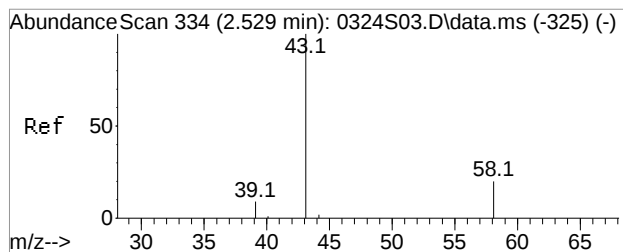
Internal Standards						
1) Pentafluorobenzene	3.988	168	152272	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	208699	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	183200	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	102596	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	6697	500.00	ug/l	0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.680	192	12170	10.01	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 100.10%			
36) % Toluene-d8	5.301	98	254815	10.12	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 101.20%			
52) % Bromofluorobenzene	7.336	95	99948	9.95	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 99.50%			
54) % 1,2-dichlorobenzene-d4	8.303	152	79537	10.11	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 101.10%			
Target Compounds						
						Qvalue
11) Acetone	2.524	43	5169m	6.90	ug/l	
22) Chloroform	3.554	83	7896	0.58	ug/l	89
42) Tetrachloroethene	5.610	164	2304	0.32	ug/l	# 83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
Data File : 0324S10.D
Acq On : 24 Mar 2015 12:33 pm
Operator :
Sample : BH86683
Misc : MW-6D
ALS Vial : 1 Sample Multiplier: 1

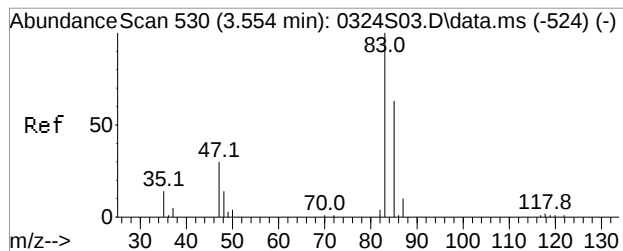
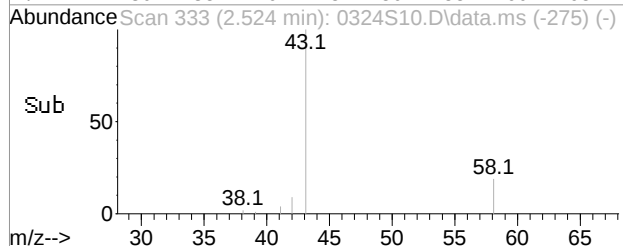
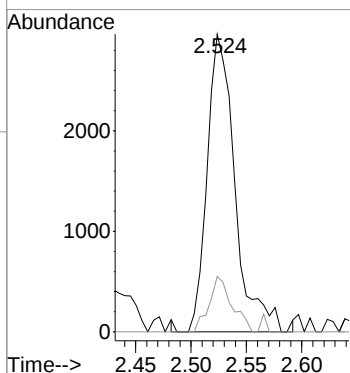
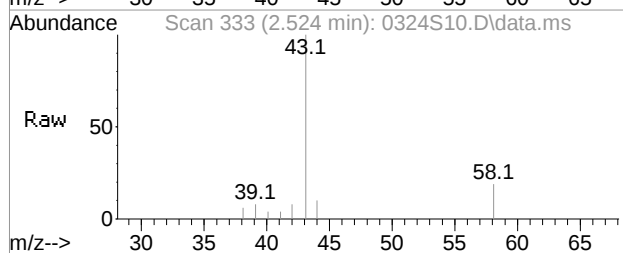
Quant Time: Mar 25 12:35:36 2015
Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Mar 24 08:24:49 2015
Response via : Initial Calibration





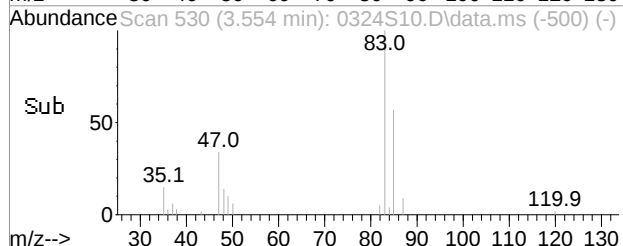
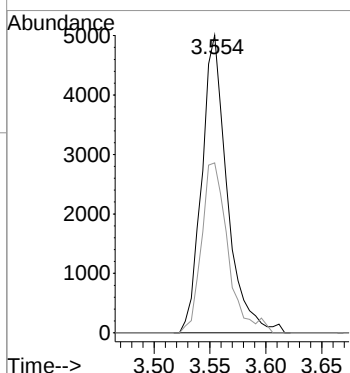
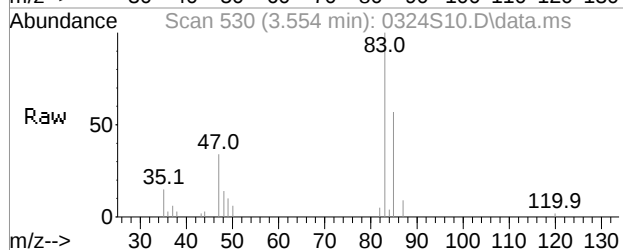
#11
Acetone
Concen: 6.90 ug/l m
RT: 2.524 min Scan# 333
Delta R.T. 0.005 min
Lab File: 0324S10.D
Acq: 24 Mar 2015 12:33 pm

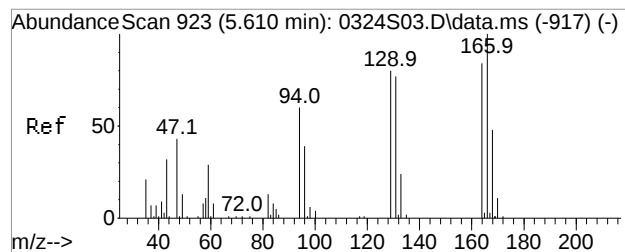
Tgt Ion: 43 Resp: 5169
Ion Ratio Lower Upper
43 100
58 1.1 31.5 47.3#



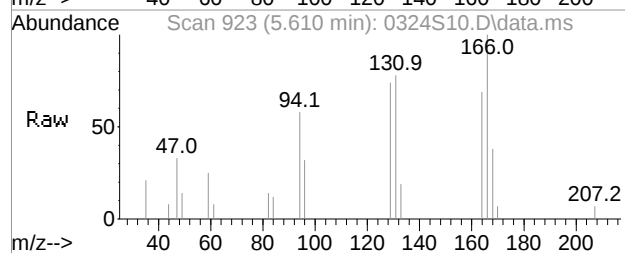
#22
Chloroform
Concen: 0.58 ug/l
RT: 3.554 min Scan# 530
Delta R.T. 0.005 min
Lab File: 0324S10.D
Acq: 24 Mar 2015 12:33 pm

Tgt Ion: 83 Resp: 7896
Ion Ratio Lower Upper
83 100
85 57.1 46.1 86.1

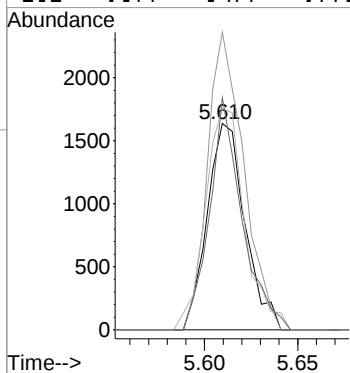
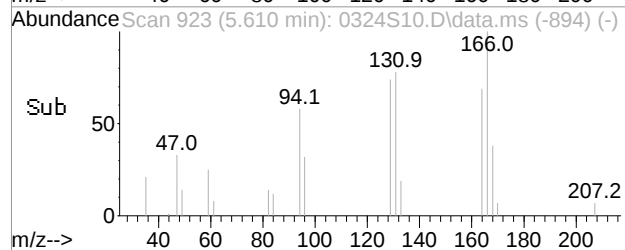




#42
Tetrachloroethene
Concen: 0.32 ug/l
RT: 5.610 min Scan# 923
Delta R.T. -0.000 min
Lab File: 0324S10.D
Acq: 24 Mar 2015 12:33 pm



Tgt Ion:164 Resp: 2304
Ion Ratio Lower Upper
164 100
166 138.0 103.5 155.3
129 112.1 67.4 101.2#
131 96.7 64.7 97.1



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

MW-7S

Client: AESHAUP Lab: Phoenix Env. Labs

SDG No.: GBH86681 Lab Sample ID: BH86684

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0324S11.D

Level: (low/med/meth): Low Date Received: 03/23/15

% Moisture: n.a. Date Analyzed: 03/24/15

Instrument: CHEM17 Column: rtx-vms Dilution Factor: 1

Purge Volume 25000 (uL) pH: < 2 Soil Aliquot Vol: n.a. (uL)

Matrix: (soil/water) WATER CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONC.	Q	MDL/LOD	RL/PQL
75-71-8	Dichlorodifluoromethane	1.0	U	0.25	1.0
74-87-3	Chloromethane	2.0	U	0.25	2.0
75-01-4	Vinyl Chloride	1.0	U	0.25	1.0
74-83-9	Bromomethane	2.0	U	0.25	2.0
75-00-3	Chloroethane	2.0	U	0.25	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.25	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.25	1.0
76-13-1	Trichlorotrifluoroethane	1.0	U	0.25	1.0
67-64-1	Acetone	3.7	JS	2.5	5.0
75-15-0	Carbon Disulfide	1.0	U	0.25	1.0
79-20-9	METHYLACETATE	2.5	U	2.5	2.5
75-09-2	Methylene Chloride	3.0	U	0.25	3.0
156-60-5	Trans-1,2-Dichloroethene	2.0	U	0.25	2.0
75-34-3	1,1-Dichloroethane	2.0	U	0.25	2.0
156-59-2	Cis-1,2-Dichloroethene	1.0	U	0.25	1.0
78-93-3	Methyl Ethyl Ketone	2.5	U	2.5	2.5
74-97-5	Bromochloromethane	1.0	U	0.25	1.0
110-82-7	CYCLOHEXANE	5.0	U	0.50	5.0
67-66-3	Chloroform	1.4	J	0.25	2.0
71-55-6	1,1,1-Trichloroethane	2.0	U	0.25	2.0
1634-04-4	Methyl t-Butyl Ether (MTBE)	1.0	U	0.25	1.0
56-23-5	Carbon Tetrachloride	1.0	U	0.25	1.0
71-43-2	Benzene	0.70	U	0.25	0.70
107-06-2	1,2-Dichloroethane	0.6	U	0.25	0.6
108-87-2	METHYLCYCLOHEXANE	2.0	U	0.50	2.0
79-01-6	Trichloroethene	0.52	J	0.25	1.0
78-87-5	1,2-dichloropropane	1.0	U	0.25	1.0
75-27-4	Bromodichloromethane	1.0	U	0.25	1.0
10061-01-5	cis-1,3-Dichloropropene	0.40	U	0.25	0.40
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5
108-88-3	Toluene	2.0	U	0.25	2.0
106-93-4	1,2-Dibromoethane	1.0	U	0.25	1.0
10061-02-6	trans-1,3-Dichloropropene	0.40	U	0.25	0.40
79-00-5	1,1,2-Trichloroethane	1.0	U	0.25	1.0
127-18-4	Tetrachloroethene	8.2		0.25	1.0
591-78-6	2-Hexanone	2.5	U	2.5	2.5

FORM I VOA

MW-7S

Client:	AESHAUP			Lab:	Phoenix Env. Labs	
SDG No.:	GBH86681			Lab Sample ID:	BH86684	
Sample wt/vol:	25	(g/mL)	mL	Lab File ID:	0324S11.D	
Level: (low/med/meth):	Low			Date Received:	03/23/15	
% Moisture:	n.a.			Date Analyzed:	03/24/15	
Instrument:	CHEM17	Column:	rtx-vms	Dilution Factor:	1	
Purge Volume	25000	(uL)	pH: < 2	Soil Aliquot Vol:	n.a.	(uL)
Matrix: (soil/water)	WATER			CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		

[illegible]

FORM I VOA

CLIENT ID

MW-7S

Client: AESHAUP

SAS No.:

SDG No.: GBH86681

Lab Sample ID: BH86684

Lab File ID: 0324S11.D

Date Received: 03/23/15

Date Analyzed: 03/24/15

Dilution Factor: 1

Soil Aliquot Vol (uL): n.a.

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/L

FORM I VOA-TIC

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S11.D
 Acq On : 24 Mar 2015 12:56 pm
 Operator :
 Sample : BH86684
 Misc : MW-7S
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 12:36:11 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

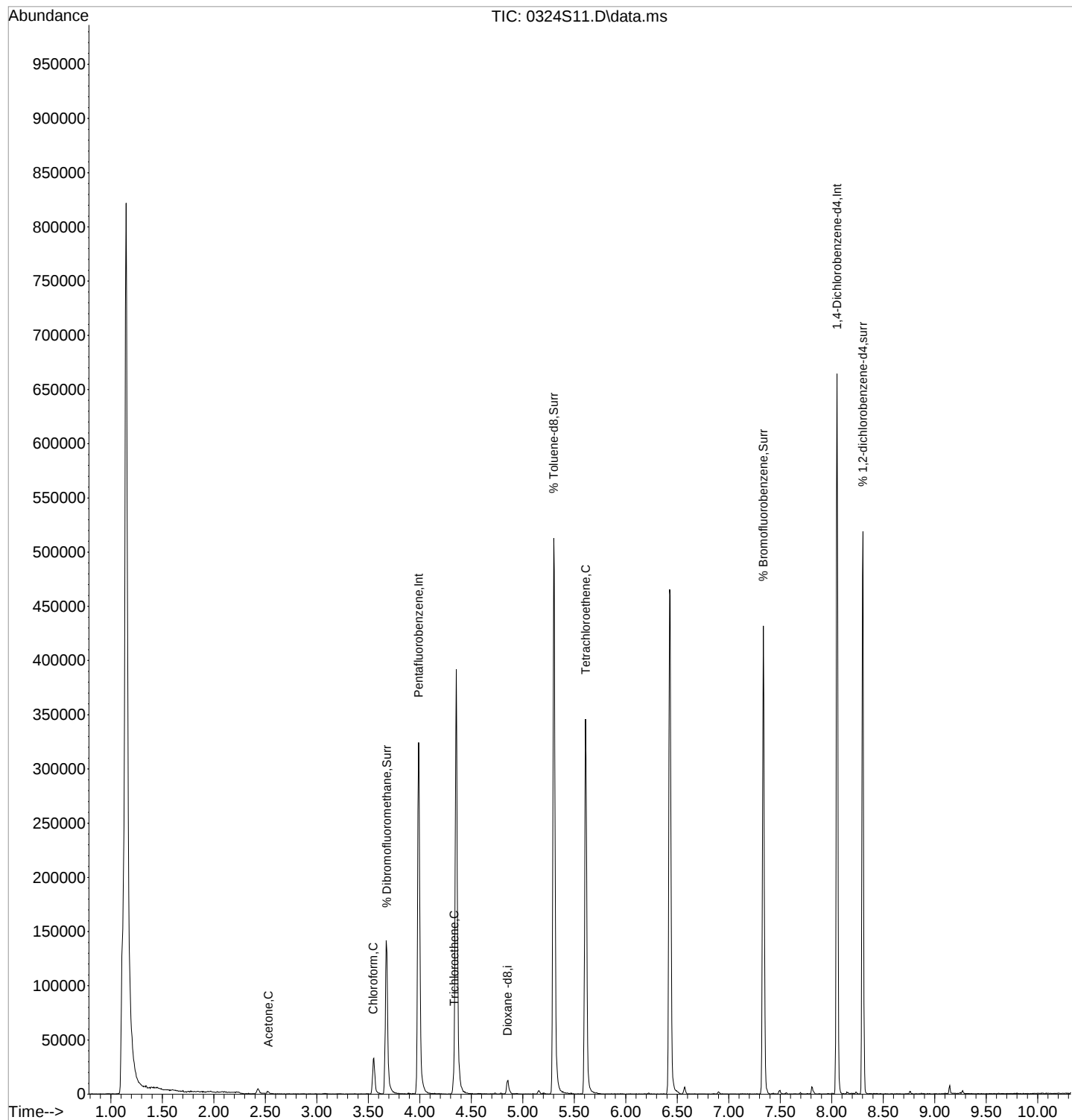
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

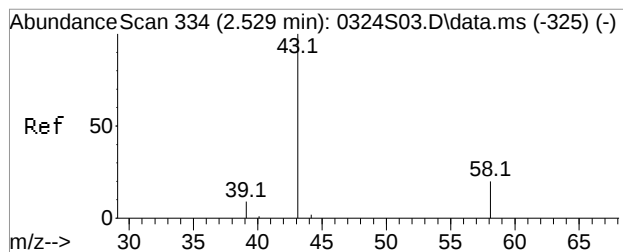
Internal Standards						
1) Pentafluorobenzene	3.988	168	151263	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.355	114	207245	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	181203	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	100892	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	7084	500.00	ug/l	# 0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.680	192	12035	9.97	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 99.70%			
36) % Toluene-d8	5.301	98	246998	9.87	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 98.70%			
52) % Bromofluorobenzene	7.336	95	97638	9.83	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 98.30%			
54) % 1,2-dichlorobenzene-d4	8.303	152	78185	10.10	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 101.00%			
Target Compounds						
						Qvalue
11) Acetone	2.529	43	2773m	3.73	ug/l	
22) Chloroform	3.549	83	19524	1.44	ug/l	92
31) Trichloroethene	4.334	130	4081	0.52	ug/l	# 11
42) Tetrachloroethene	5.610	164	57672	8.17	ug/l	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
Data File : 0324S11.D
Acq On : 24 Mar 2015 12:56 pm
Operator :
Sample : BH86684
Misc : MW-7S
ALS Vial : 1 Sample Multiplier: 1

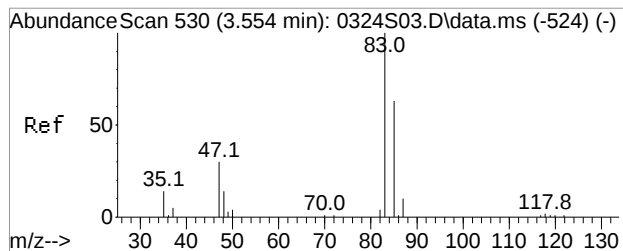
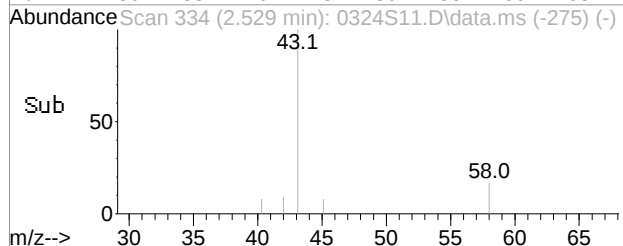
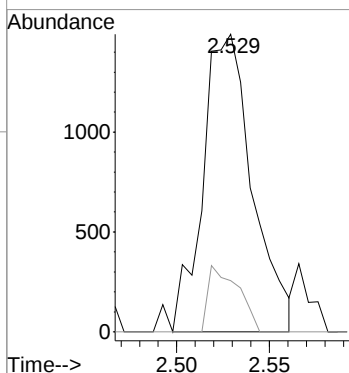
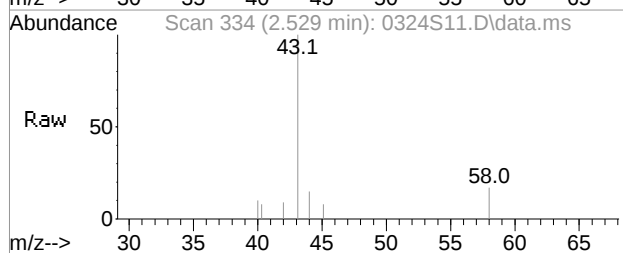
Quant Time: Mar 25 12:36:11 2015
Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Mar 24 08:24:49 2015
Response via : Initial Calibration





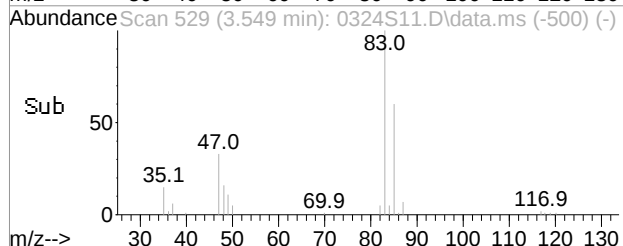
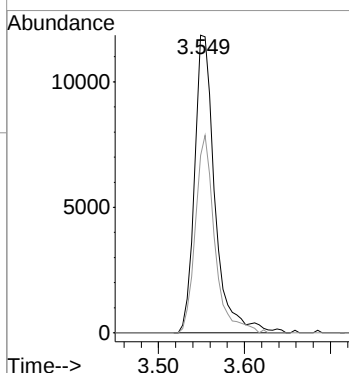
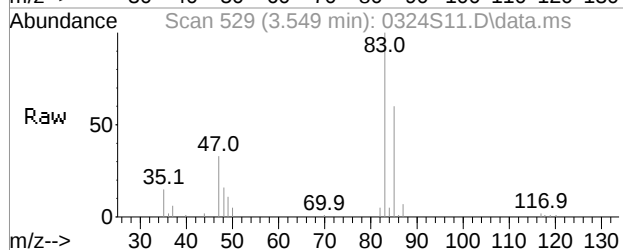
#11
Acetone
Concen: 3.73 ug/l m
RT: 2.529 min Scan# 334
Delta R.T. 0.010 min
Lab File: 0324S11.D
Acq: 24 Mar 2015 12:56 pm

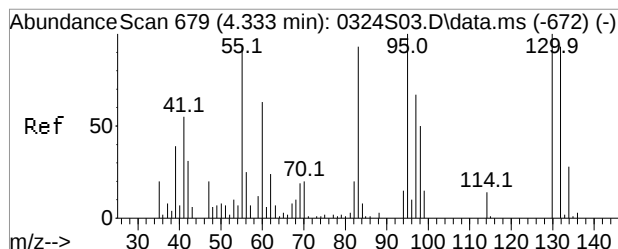
Tgt Ion: 43 Resp: 2773
Ion Ratio Lower Upper
43 100
58 13.5 31.5 47.3#



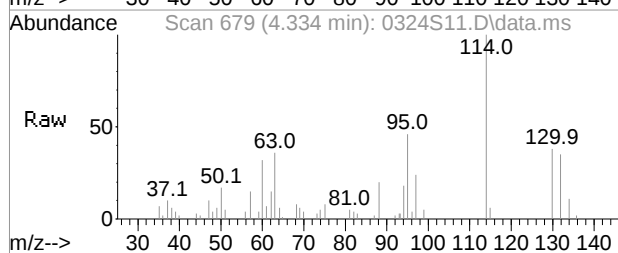
#22
Chloroform
Concen: 1.44 ug/l
RT: 3.549 min Scan# 529
Delta R.T. 0.000 min
Lab File: 0324S11.D
Acq: 24 Mar 2015 12:56 pm

Tgt Ion: 83 Resp: 19524
Ion Ratio Lower Upper
83 100
85 59.6 46.1 86.1

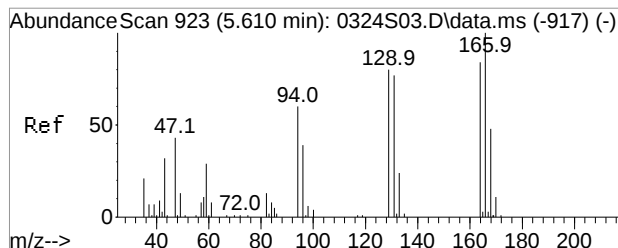
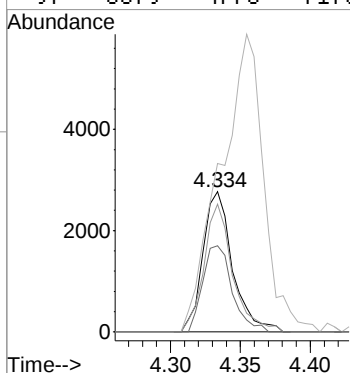
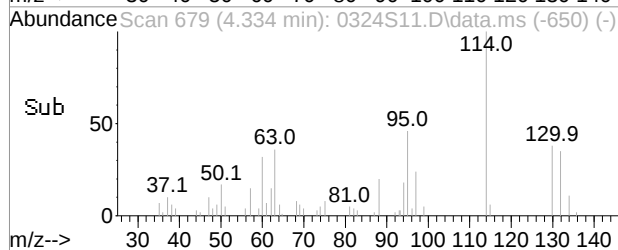




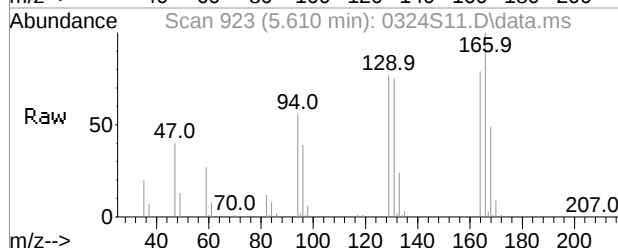
#31
Trichloroethene
Concen: 0.52 ug/l
RT: 4.334 min Scan# 679
Delta R.T. -0.000 min
Lab File: 0324S11.D
Acq: 24 Mar 2015 12:56 pm



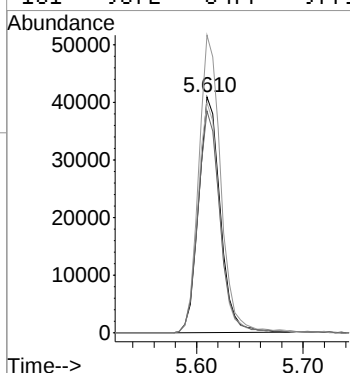
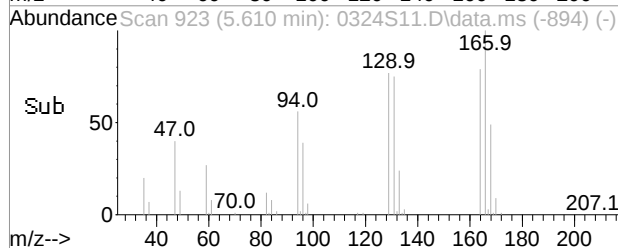
Tgt Ion:130 Resp: 4081
Ion Ratio Lower Upper
130 100
132 88.2 77.5 116.3
95 310.4 73.3 109.9#
97 60.9 47.5 71.3



#42
Tetrachloroethene
Concen: 8.17 ug/l
RT: 5.610 min Scan# 923
Delta R.T. -0.000 min
Lab File: 0324S11.D
Acq: 24 Mar 2015 12:56 pm



Tgt Ion:164 Resp: 57672
Ion Ratio Lower Upper
164 100
166 128.2 103.5 155.3
129 97.7 67.4 101.2
131 95.2 64.7 97.1



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

MW-7D

Client: AESHAUP Lab: Phoenix Env. Labs

SDG No.: GBH86681 Lab Sample ID: BH86685

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0324S12.D

Level: (low/med/meth): Low Date Received: 03/23/15

% Moisture: n.a. Date Analyzed: 03/24/15

Instrument: CHEM17 Column: rtx-vms Dilution Factor: 1

Purge Volume 25000 (uL) pH: < 2 Soil Aliquot Vol: n.a. (uL)

Matrix: (soil/water) WATER CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONC.	Q	MDL/LOD	RL/PQL
75-71-8	Dichlorodifluoromethane	1.0	U	0.25	1.0
74-87-3	Chloromethane	2.0	U	0.25	2.0
75-01-4	Vinyl Chloride	1.0	U	0.25	1.0
74-83-9	Bromomethane	2.0	U	0.25	2.0
75-00-3	Chloroethane	2.0	U	0.25	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.25	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.25	1.0
76-13-1	Trichlorotrifluoroethane	1.0	U	0.25	1.0
67-64-1	Acetone	2.7	JS	2.5	5.0
75-15-0	Carbon Disulfide	1.0	U	0.25	1.0
79-20-9	METHYLACETATE	2.5	U	2.5	2.5
75-09-2	Methylene Chloride	3.0	U	0.25	3.0
156-60-5	Trans-1,2-Dichloroethene	2.0	U	0.25	2.0
75-34-3	1,1-Dichloroethane	2.0	U	0.25	2.0
156-59-2	Cis-1,2-Dichloroethene	1.8		0.25	1.0
78-93-3	Methyl Ethyl Ketone	2.5	U	2.5	2.5
74-97-5	Bromochloromethane	1.0	U	0.25	1.0
110-82-7	CYCLOHEXANE	5.0	U	0.50	5.0
67-66-3	Chloroform	2.3		0.25	2.0
71-55-6	1,1,1-Trichloroethane	2.0	U	0.25	2.0
1634-04-4	Methyl t-Butyl Ether (MTBE)	1.0	U	0.25	1.0
56-23-5	Carbon Tetrachloride	1.0	U	0.25	1.0
71-43-2	Benzene	0.70	U	0.25	0.70
107-06-2	1,2-Dichloroethane	0.6	U	0.25	0.6
108-87-2	METHYLCYCLOHEXANE	2.0	U	0.50	2.0
79-01-6	Trichloroethene	3.2		0.25	1.0
78-87-5	1,2-dichloropropane	1.0	U	0.25	1.0
75-27-4	Bromodichloromethane	1.0	U	0.25	1.0
10061-01-5	cis-1,3-Dichloropropene	0.40	U	0.25	0.40
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5
108-88-3	Toluene	2.0	U	0.25	2.0
106-93-4	1,2-Dibromoethane	1.0	U	0.25	1.0
10061-02-6	trans-1,3-Dichloropropene	0.40	U	0.25	0.40
79-00-5	1,1,2-Trichloroethane	1.0	U	0.25	1.0
127-18-4	Tetrachloroethene	1.9		0.25	1.0
591-78-6	2-Hexanone	2.5	U	2.5	2.5

FORM I VOA

MW-7D

Client:	AESHAUP			Lab:	Phoenix Env. Labs	
SDG No.:	GBH86681			Lab Sample ID:	BH86685	
Sample wt/vol:	25	(g/mL)	mL	Lab File ID:	0324S12.D	
Level: (low/med/meth):	Low			Date Received:	03/23/15	
% Moisture:	n.a.			Date Analyzed:	03/24/15	
Instrument:	CHEM17	Column:	rtx-vms	Dilution Factor:	1	
Purge Volume	25000	(uL)	pH: < 2	Soil Aliquot Vol:	n.a.	(uL)
Matrix: (soil/water)	WATER			CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		

[illegible]

FORM I VOA

CLIENT ID

MW-7D

Client: AESHAUP

SAS No.:

SDG No.: GBH86681

Lab Sample ID: BH86685

Lab File ID: 0324S12.D

Date Received: 03/23/15

Date Analyzed: 03/24/15

Dilution Factor: 1

Soil Aliquot Vol (uL): n.a.

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/L

FORM I VOA-TIC

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S12.D
 Acq On : 24 Mar 2015 1:19 pm
 Operator :
 Sample : BH86685
 Misc : MW-7D
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 11:10:15 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

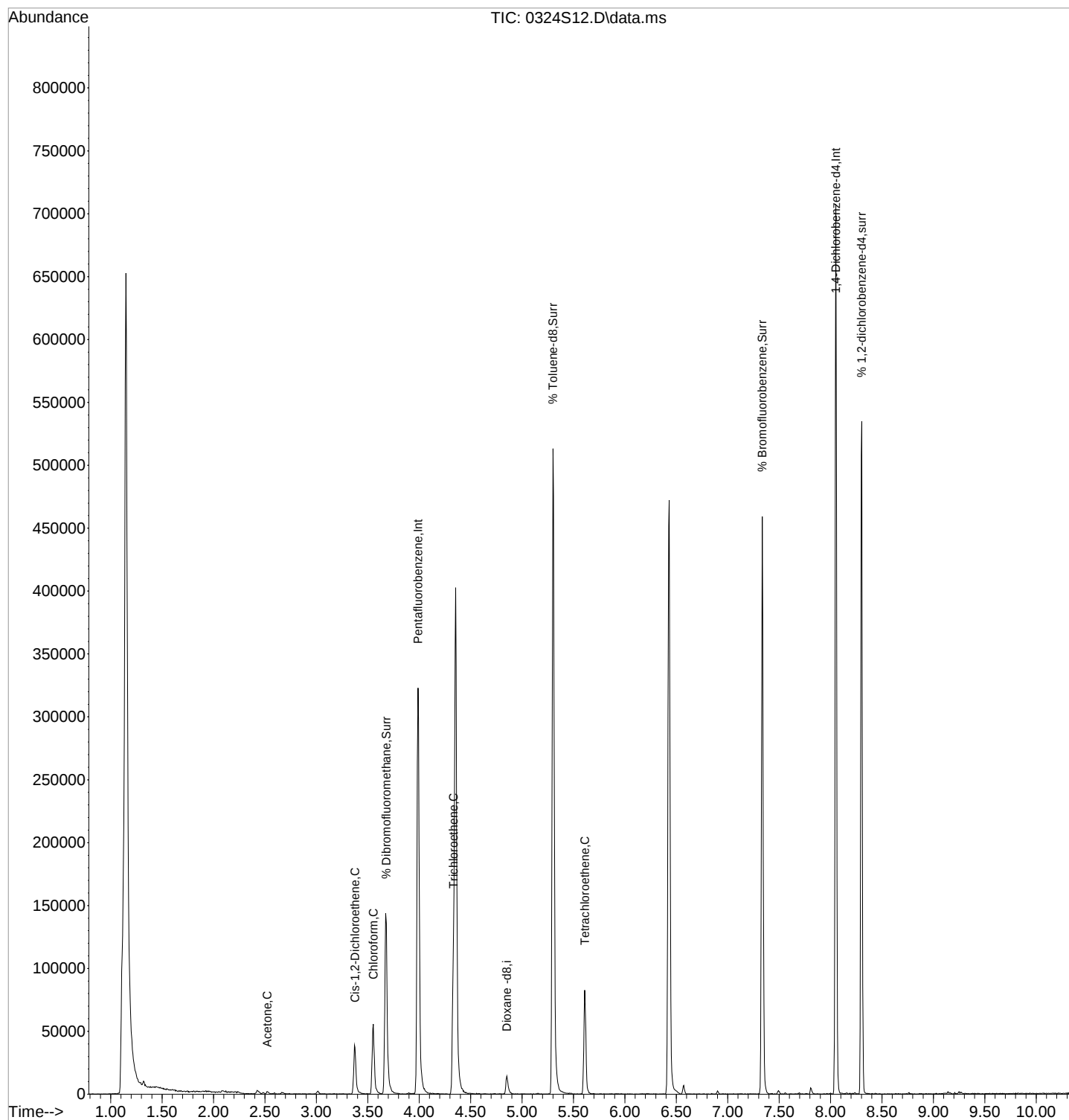
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

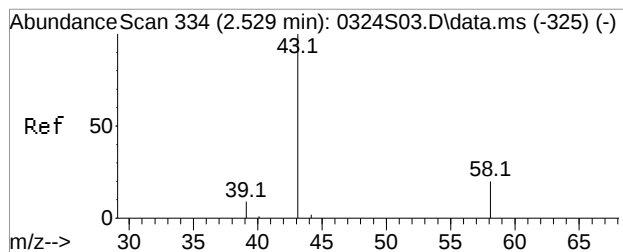
Internal Standards						
1) Pentafluorobenzene	3.988	168	151720	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	210174	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	184189	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	103305	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	7758	500.00	ug/l	0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.680	192	12598	10.40	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	= 104.00%		
36) % Toluene-d8	5.301	98	249995	9.85	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	= 98.50%		
52) % Bromofluorobenzene	7.336	95	98833	9.79	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	= 97.90%		
54) % 1,2-dichlorobenzene-d4	8.303	152	80339	10.14	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	= 101.40%		
Target Compounds						
						Qvalue
11) Acetone	2.524	43	2044	2.74	ug/l	# 58
18) Cis-1,2-Dichloroethene	3.376	96	11260	1.82	ug/l	# 60
22) Chloroform	3.554	83	30851	2.27	ug/l	98
31) Trichloroethene	4.333	130	25179	3.17	ug/l	# 79
42) Tetrachloroethene	5.610	164	13547	1.89	ug/l	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
Data File : 0324S12.D
Acq On : 24 Mar 2015 1:19 pm
Operator :
Sample : BH86685
Misc : MW-7D
ALS Vial : 1 Sample Multiplier: 1

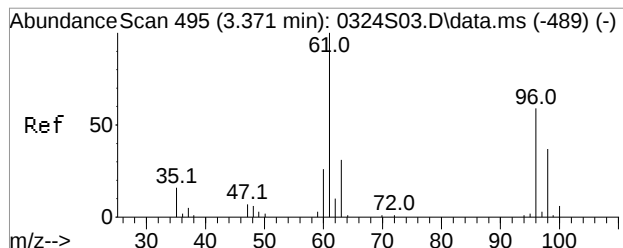
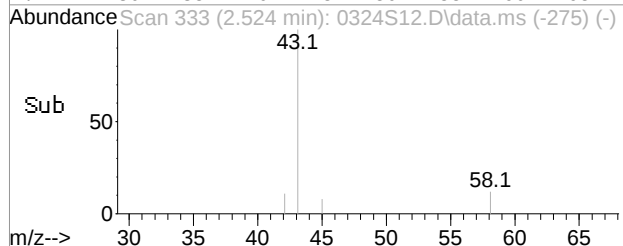
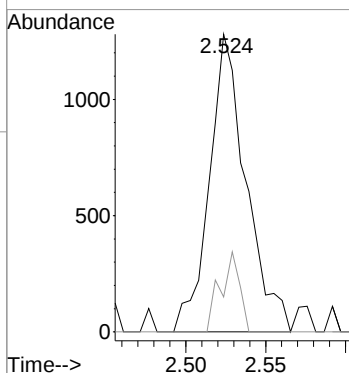
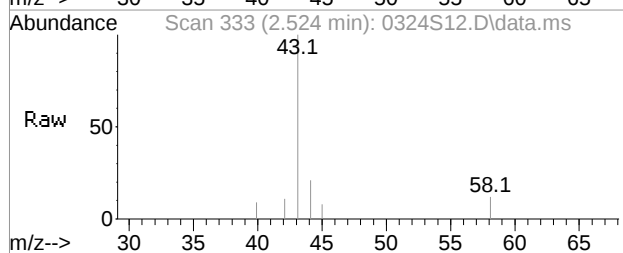
Quant Time: Mar 25 11:10:15 2015
Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Mar 24 08:24:49 2015
Response via : Initial Calibration





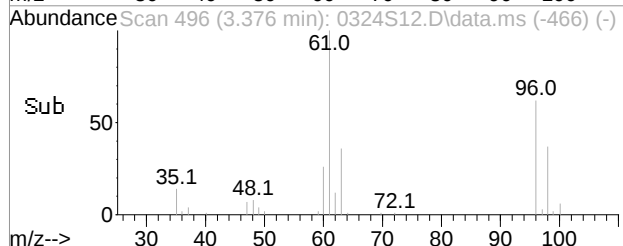
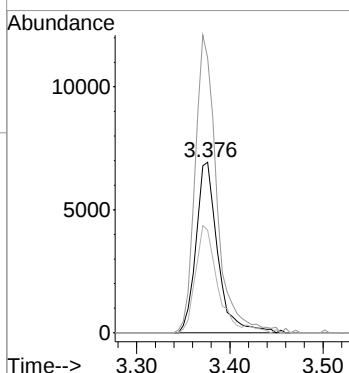
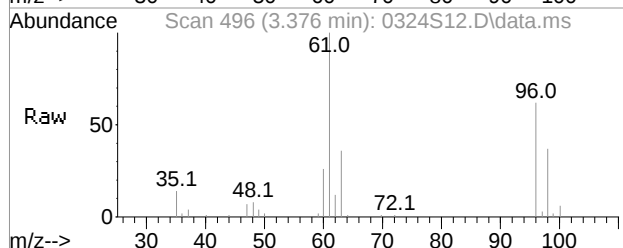
#11
Acetone
Concen: 2.74 ug/l
RT: 2.524 min Scan# 333
Delta R.T. 0.005 min
Lab File: 0324S12.D
Acq: 24 Mar 2015 1:19 pm

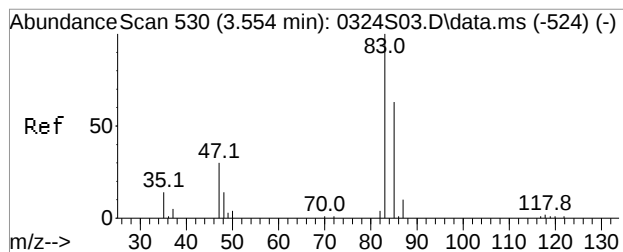
Tgt Ion: 43 Resp: 2044
Ion Ratio Lower Upper
43 100
58 13.9 31.5 47.3#



#18
Cis-1,2-Dichloroethene
Concen: 1.82 ug/l
RT: 3.376 min Scan# 496
Delta R.T. 0.005 min
Lab File: 0324S12.D
Acq: 24 Mar 2015 1:19 pm

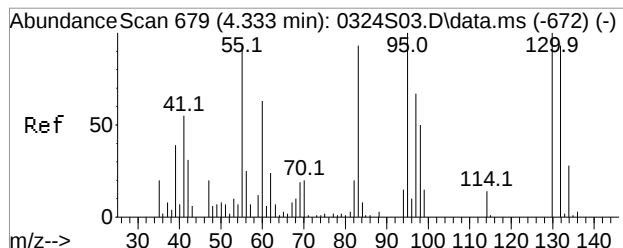
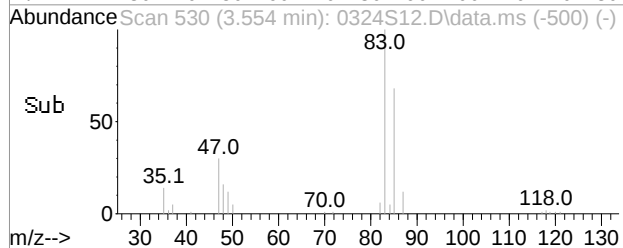
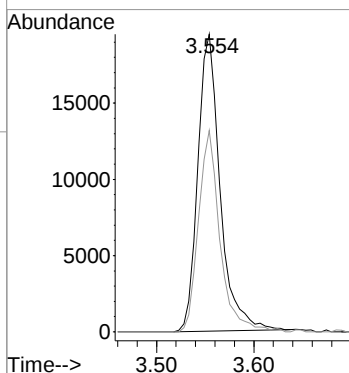
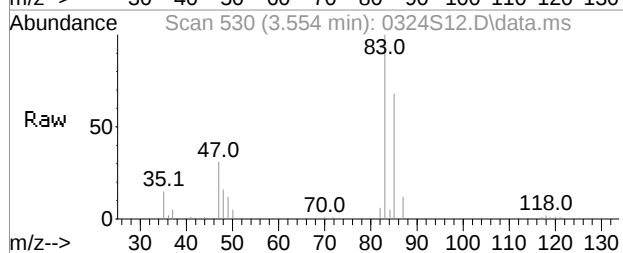
Tgt Ion: 96 Resp: 11260
Ion Ratio Lower Upper
96 100
61 174.2 88.0 132.0#
98 57.9 48.0 72.0





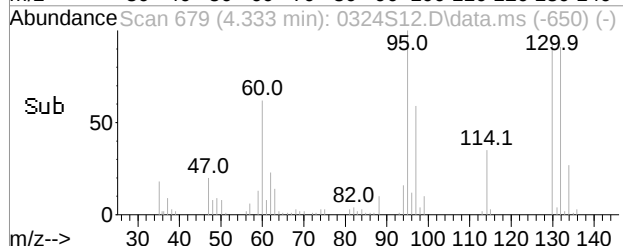
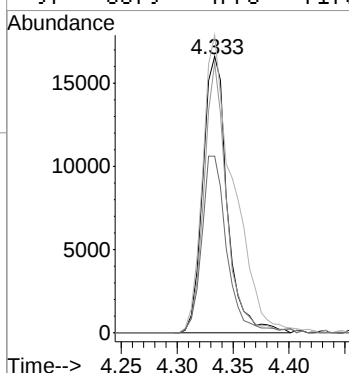
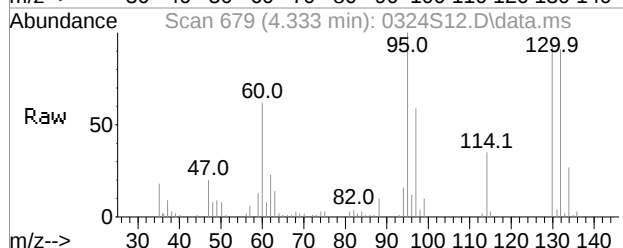
#22
Chloroform
Concen: 2.27 ug/l
RT: 3.554 min Scan# 530
Delta R.T. 0.005 min
Lab File: 0324S12.D
Acq: 24 Mar 2015 1:19 pm

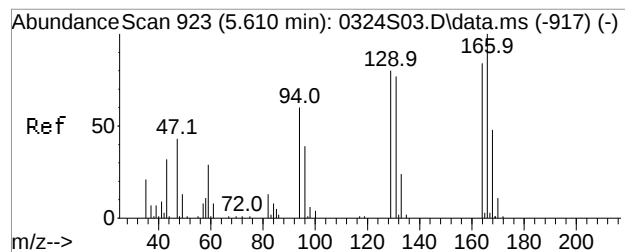
Tgt Ion: 83 Resp: 30851
Ion Ratio Lower Upper
83 100
85 67.6 46.1 86.1



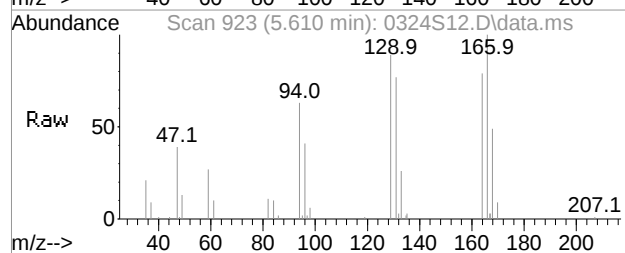
#31
Trichloroethene
Concen: 3.17 ug/l
RT: 4.333 min Scan# 679
Delta R.T. -0.001 min
Lab File: 0324S12.D
Acq: 24 Mar 2015 1:19 pm

Tgt Ion: 130 Resp: 25179
Ion Ratio Lower Upper
130 100
132 91.5 77.5 116.3
95 136.0 73.3 109.9#
97 65.9 47.5 71.3

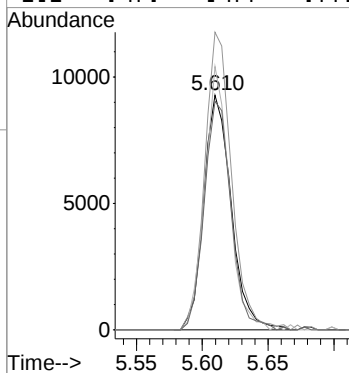
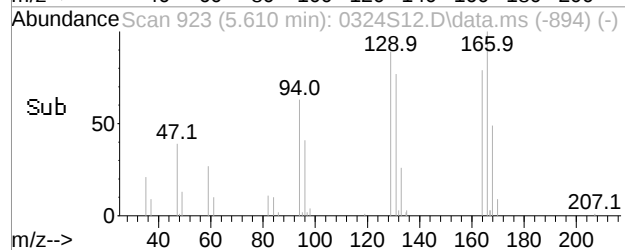




#42
Tetrachloroethene
Concen: 1.89 ug/l
RT: 5.610 min Scan# 923
Delta R.T. -0.000 min
Lab File: 0324S12.D
Acq: 24 Mar 2015 1:19 pm



Tgt Ion:164 Resp: 13547
Ion Ratio Lower Upper
164 100
166 124.0 103.5 155.3
129 100.5 67.4 101.2
131 94.9 64.7 97.1



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

MW-8S

Client: AESHAUP Lab: Phoenix Env. Labs

SDG No.: GBH86681 Lab Sample ID: BH86686

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0324S13.D

Level: (low/med/meth): Low Date Received: 03/23/15

% Moisture: n.a. Date Analyzed: 03/24/15

Instrument: CHEM17 Column: rtx-vms Dilution Factor: 1

Purge Volume 25000 (uL) pH: < 2 Soil Aliquot Vol: n.a. (uL)

Matrix: (soil/water) WATER CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONC.	Q	MDL/LOD	RL/PQL
75-71-8	Dichlorodifluoromethane	1.0	U	0.25	1.0
74-87-3	Chloromethane	2.0	U	0.25	2.0
75-01-4	Vinyl Chloride	1.0	U	0.25	1.0
74-83-9	Bromomethane	2.0	U	0.25	2.0
75-00-3	Chloroethane	2.0	U	0.25	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.25	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.25	1.0
76-13-1	Trichlorotrifluoroethane	1.0	U	0.25	1.0
67-64-1	Acetone	4.3	JS	2.5	5.0
75-15-0	Carbon Disulfide	1.0	U	0.25	1.0
79-20-9	METHYLACETATE	2.5	U	2.5	2.5
75-09-2	Methylene Chloride	3.0	U	0.25	3.0
156-60-5	Trans-1,2-Dichloroethene	2.0	U	0.25	2.0
75-34-3	1,1-Dichloroethane	2.0	U	0.25	2.0
156-59-2	Cis-1,2-Dichloroethene	3.2		0.25	1.0
78-93-3	Methyl Ethyl Ketone	2.5	U	2.5	2.5
74-97-5	Bromochloromethane	1.0	U	0.25	1.0
110-82-7	CYCLOHEXANE	5.0	U	0.50	5.0
67-66-3	Chloroform	2.0	U	0.25	2.0
71-55-6	1,1,1-Trichloroethane	2.0	U	0.25	2.0
1634-04-4	Methyl t-Butyl Ether (MTBE)	1.0	U	0.25	1.0
56-23-5	Carbon Tetrachloride	1.0	U	0.25	1.0
71-43-2	Benzene	0.70	U	0.25	0.70
107-06-2	1,2-Dichloroethane	0.6	U	0.25	0.6
108-87-2	METHYLCYCLOHEXANE	2.0	U	0.50	2.0
79-01-6	Trichloroethene	1.5		0.25	1.0
78-87-5	1,2-dichloropropane	1.0	U	0.25	1.0
75-27-4	Bromodichloromethane	1.0	U	0.25	1.0
10061-01-5	cis-1,3-Dichloropropene	0.40	U	0.25	0.40
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5
108-88-3	Toluene	2.0	U	0.25	2.0
106-93-4	1,2-Dibromoethane	1.0	U	0.25	1.0
10061-02-6	trans-1,3-Dichloropropene	0.40	U	0.25	0.40
79-00-5	1,1,2-Trichloroethane	1.0	U	0.25	1.0
127-18-4	Tetrachloroethene	11		0.25	1.0
591-78-6	2-Hexanone	2.5	U	2.5	2.5

FORM I VOA

MW-8S

Client:	AESHAUP			Lab:	Phoenix Env. Labs	
SDG No.:	GBH86681			Lab Sample ID:	BH86686	
Sample wt/vol:	25	(g/mL)	mL	Lab File ID:	0324S13.D	
Level: (low/med/meth):	Low			Date Received:	03/23/15	
% Moisture:	n.a.			Date Analyzed:	03/24/15	
Instrument:	CHEM17	Column:	rtx-vms	Dilution Factor:	1	
Purge Volume	25000	(uL)	pH: < 2	Soil Aliquot Vol:	n.a.	(uL)
Matrix: (soil/water)	WATER			CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		

[illegible]

FORM I VOA

CLIENT ID

MW-8S

Client: AESHAUP

SDG No.: GBH86681

Lab Sample ID: BH86686

Lab File ID: 0324S13.D

Date Received: 03/23/15

Date Analyzed: 03/24/15

Dilution Factor: 1

Soil Aliquot Vol (uL): n.a.

CONCENTRATION UNITS:

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S13.D
 Acq On : 24 Mar 2015 1:42 pm
 Operator :
 Sample : BH86686
 Misc : MW-8S
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 11:10:17 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

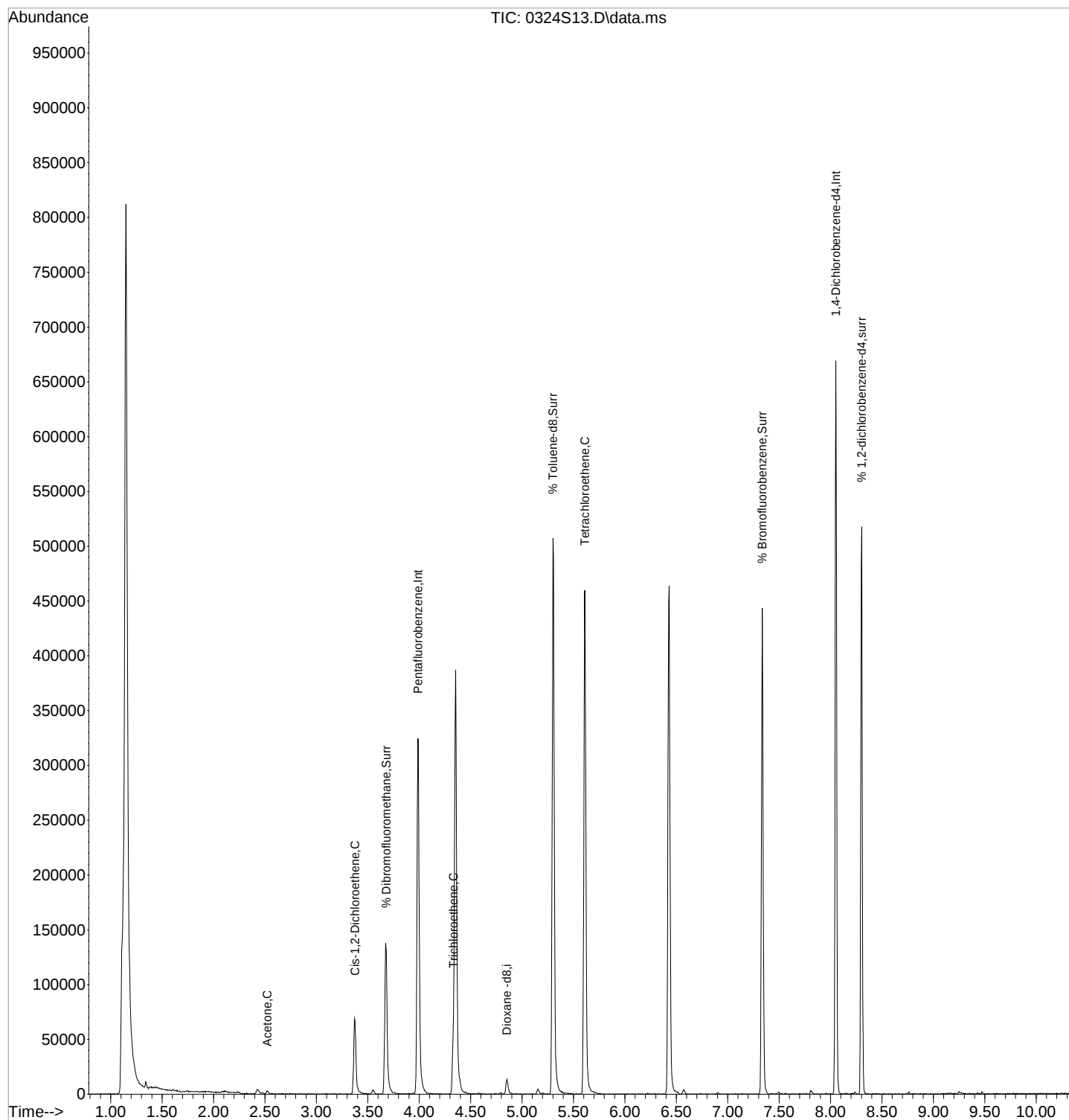
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

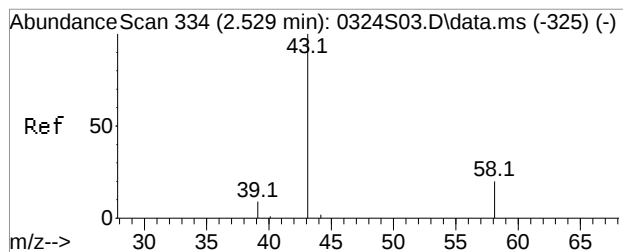
Internal Standards						
1) Pentafluorobenzene	3.988	168	149644	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	205296	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	180739	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	100537	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	7262	500.00	ug/l	0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.680	192	12376	10.36	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 103.60%			
36) % Toluene-d8	5.301	98	247894	10.00	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 100.00%			
52) % Bromofluorobenzene	7.336	95	96944	9.78	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 97.80%			
54) % 1,2-dichlorobenzene-d4	8.303	152	78430	10.17	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 101.70%			
Target Compounds						
						Qvalue
11) Acetone	2.524	43	3202	4.35	ug/l	# 59
18) Cis-1,2-Dichloroethene	3.376	96	19376	3.17	ug/l	# 54
31) Trichloroethene	4.334	130	11911	1.53	ug/l	# 65
42) Tetrachloroethene	5.610	164	75020	10.66	ug/l	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
Data File : 0324S13.D
Acq On : 24 Mar 2015 1:42 pm
Operator :
Sample : BH86686
Misc : MW-8S
ALS Vial : 1 Sample Multiplier: 1

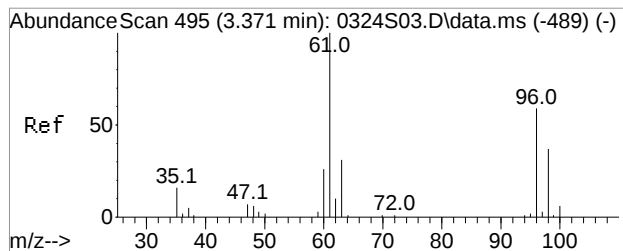
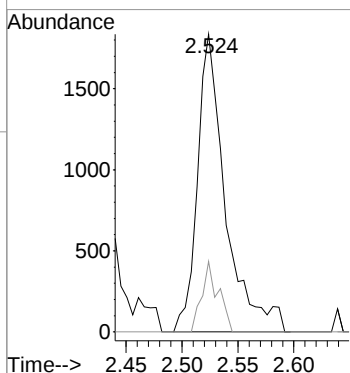
Quant Time: Mar 25 11:10:17 2015
Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Mar 24 08:24:49 2015
Response via : Initial Calibration





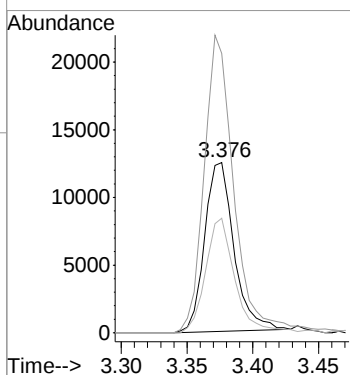
#11
Acetone
Concen: 4.35 ug/l
RT: 2.524 min Scan# 333
Delta R.T. 0.005 min
Lab File: 0324S13.D
Acq: 24 Mar 2015 1:42 pm

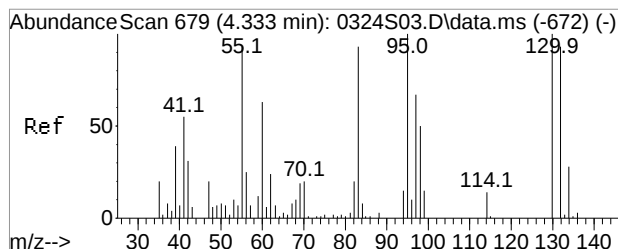
Tgt Ion: 43 Resp: 3202
Ion Ratio Lower Upper
43 100
58 14.0 31.5 47.3#



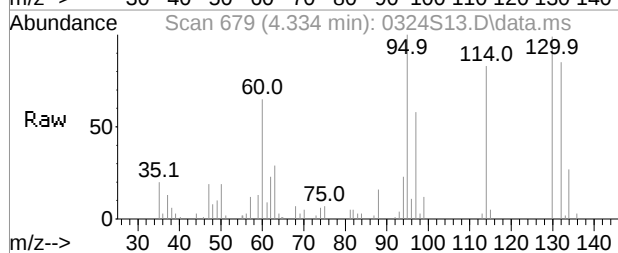
#18
Cis-1,2-Dichloroethene
Concen: 3.17 ug/l
RT: 3.376 min Scan# 496
Delta R.T. 0.005 min
Lab File: 0324S13.D
Acq: 24 Mar 2015 1:42 pm

Tgt Ion: 96 Resp: 19376
Ion Ratio Lower Upper
96 100
61 180.4 88.0 132.0#
98 66.1 48.0 72.0

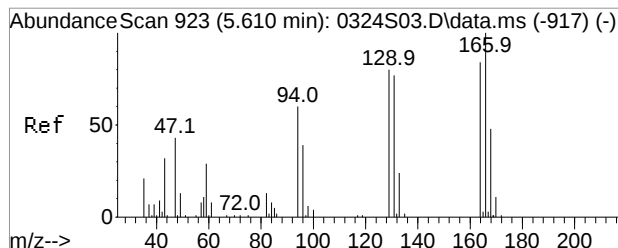
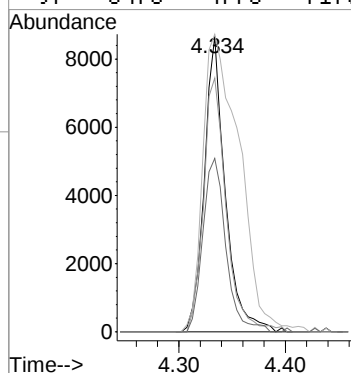
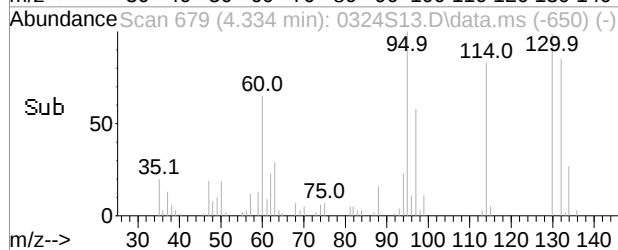




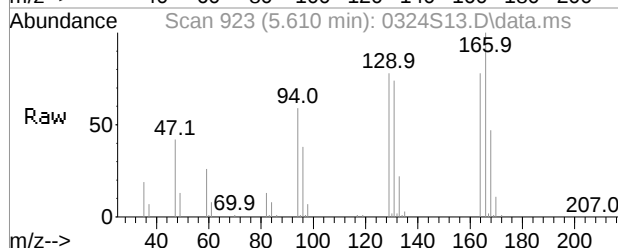
#31
Trichloroethene
Concen: 1.53 ug/l
RT: 4.334 min Scan# 679
Delta R.T. -0.000 min
Lab File: 0324S13.D
Acq: 24 Mar 2015 1:42 pm



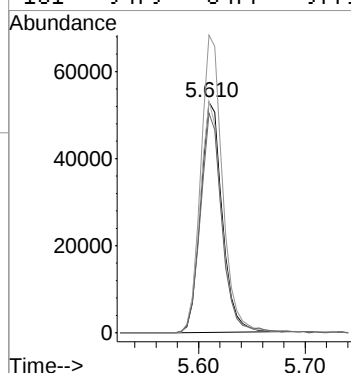
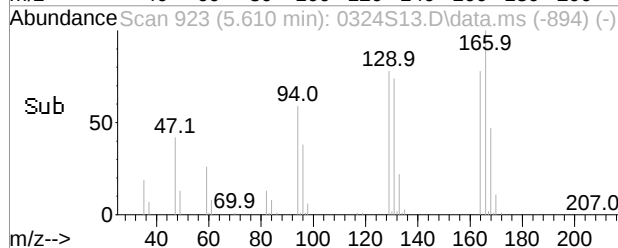
Tgt Ion:130 Resp: 11911
Ion Ratio Lower Upper
130 100
132 92.7 77.5 116.3
95 174.4 73.3 109.9#
97 64.3 47.5 71.3



#42
Tetrachloroethene
Concen: 10.66 ug/l
RT: 5.610 min Scan# 923
Delta R.T. -0.000 min
Lab File: 0324S13.D
Acq: 24 Mar 2015 1:42 pm



Tgt Ion:164 Resp: 75020
Ion Ratio Lower Upper
164 100
166 130.1 103.5 155.3
129 99.2 67.4 101.2
131 94.9 64.7 97.1



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

MW-8D

Client: AESHAUP Lab: Phoenix Env. Labs

SDG No.: GBH86681 Lab Sample ID: BH86687

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0324S14.D

Level: (low/med/meth): Low Date Received: 03/23/15

% Moisture: n.a. Date Analyzed: 03/24/15

Instrument: CHEM17 Column: rtx-vms Dilution Factor: 1

Purge Volume 25000 (uL) pH: < 2 Soil Aliquot Vol: n.a. (uL)

Matrix: (soil/water) WATER CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONC.	Q	MDL/LOD	RL/PQL
75-71-8	Dichlorodifluoromethane	1.0	U	0.25	1.0
74-87-3	Chloromethane	2.0	U	0.25	2.0
75-01-4	Vinyl Chloride	1.0	U	0.25	1.0
74-83-9	Bromomethane	2.0	U	0.25	2.0
75-00-3	Chloroethane	2.0	U	0.25	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.25	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.25	1.0
76-13-1	Trichlorotrifluoroethane	1.0	U	0.25	1.0
67-64-1	Acetone	5.0	U	2.5	5.0
75-15-0	Carbon Disulfide	1.0	U	0.25	1.0
79-20-9	METHYLACETATE	2.5	U	2.5	2.5
75-09-2	Methylene Chloride	3.0	U	0.25	3.0
156-60-5	Trans-1,2-Dichloroethene	2.0	U	0.25	2.0
75-34-3	1,1-Dichloroethane	2.0	U	0.25	2.0
156-59-2	Cis-1,2-Dichloroethene	1.0	U	0.25	1.0
78-93-3	Methyl Ethyl Ketone	2.5	U	2.5	2.5
74-97-5	Bromochloromethane	1.0	U	0.25	1.0
110-82-7	CYCLOHEXANE	5.0	U	0.50	5.0
67-66-3	Chloroform	1.1	J	0.25	2.0
71-55-6	1,1,1-Trichloroethane	2.0	U	0.25	2.0
1634-04-4	Methyl t-Butyl Ether (MTBE)	1.0	U	0.25	1.0
56-23-5	Carbon Tetrachloride	1.0	U	0.25	1.0
71-43-2	Benzene	0.70	U	0.25	0.70
107-06-2	1,2-Dichloroethane	0.6	U	0.25	0.6
108-87-2	METHYLCYCLOHEXANE	2.0	U	0.50	2.0
79-01-6	Trichloroethene	1.7		0.25	1.0
78-87-5	1,2-dichloropropane	1.0	U	0.25	1.0
75-27-4	Bromodichloromethane	1.0	U	0.25	1.0
10061-01-5	cis-1,3-Dichloropropene	0.40	U	0.25	0.40
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5
108-88-3	Toluene	2.0	U	0.25	2.0
106-93-4	1,2-Dibromoethane	1.0	U	0.25	1.0
10061-02-6	trans-1,3-Dichloropropene	0.40	U	0.25	0.40
79-00-5	1,1,2-Trichloroethane	1.0	U	0.25	1.0
127-18-4	Tetrachloroethene	3.5		0.25	1.0
591-78-6	2-Hexanone	2.5	U	2.5	2.5

FORM I VOA

MW-8D

Client:	AESHAUP			Lab:	Phoenix Env. Labs	
SDG No.:	GBH86681			Lab Sample ID:	BH86687	
Sample wt/vol:	25	(g/mL)	mL	Lab File ID:	0324S14.D	
Level: (low/med/meth):	Low			Date Received:	03/23/15	
% Moisture:	n.a.			Date Analyzed:	03/24/15	
Instrument:	CHEM17	Column:	rtx-vms	Dilution Factor:	1	
Purge Volume	25000	(uL)	pH: < 2	Soil Aliquot Vol:	n.a.	(uL)
Matrix: (soil/water)	WATER			CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		

FORM I VOA

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S14.D
 Acq On : 24 Mar 2015 2:05 pm
 Operator :
 Sample : BH86687
 Misc : MW-8D
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 11:10:19 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

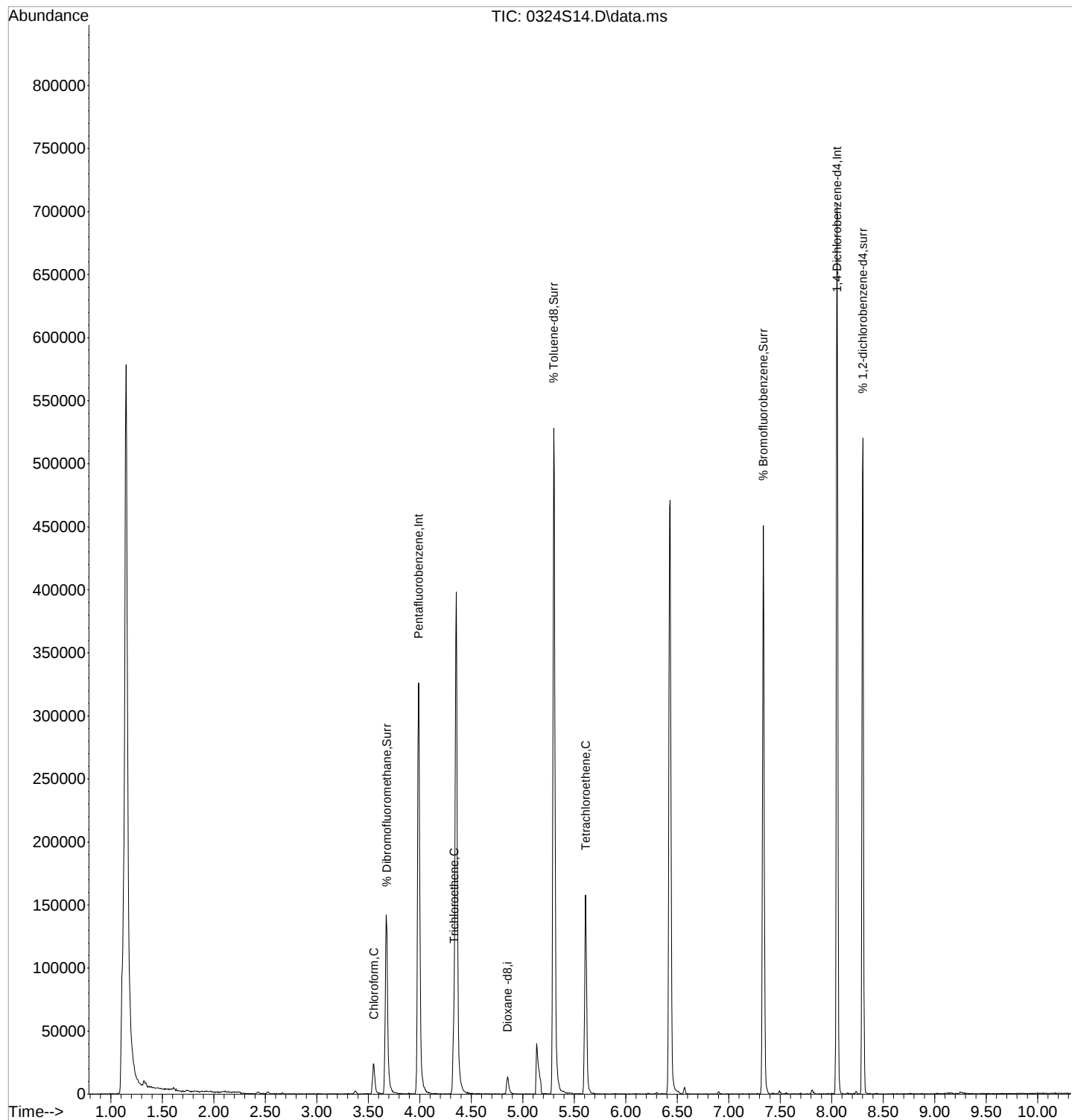
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

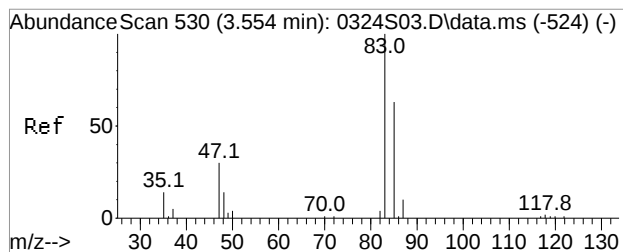
Internal Standards						
1) Pentafluorobenzene	3.988	168	150440	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	211524	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	186413	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	103102	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	7214	500.00	ug/l	0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.680	192	12433	10.35	ug/l	0.00
Spiked Amount 10.000	Range 75	- 125	Recovery	=	103.50%	
36) % Toluene-d8	5.301	98	255786	10.02	ug/l	0.00
Spiked Amount 10.000	Range 75	- 125	Recovery	=	100.20%	
52) % Bromofluorobenzene	7.336	95	99519	9.74	ug/l	0.00
Spiked Amount 10.000	Range 75	- 125	Recovery	=	97.40%	
54) % 1,2-dichlorobenzene-d4	8.303	152	78189	9.89	ug/l	0.00
Spiked Amount 10.000	Range 75	- 125	Recovery	=	98.90%	
Target Compounds						
						Qvalue
22) Chloroform	3.554	83	14653	1.09	ug/l	95
31) Trichloroethene	4.334	130	13688	1.71	ug/l	# 65
42) Tetrachloroethene	5.610	164	25193	3.47	ug/l	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
Data File : 0324S14.D
Acq On : 24 Mar 2015 2:05 pm
Operator :
Sample : BH86687
Misc : MW-8D
ALS Vial : 1 Sample Multiplier: 1

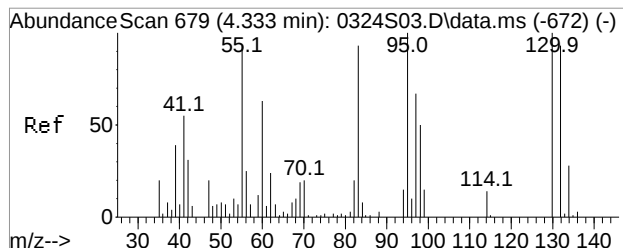
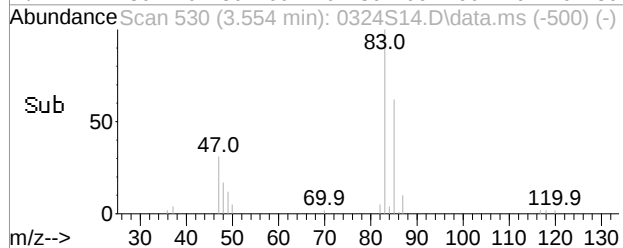
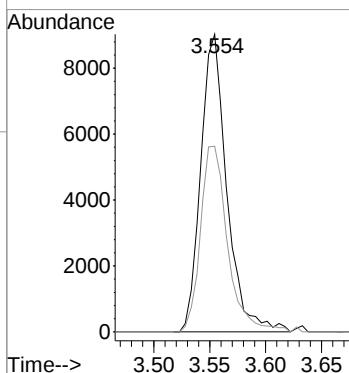
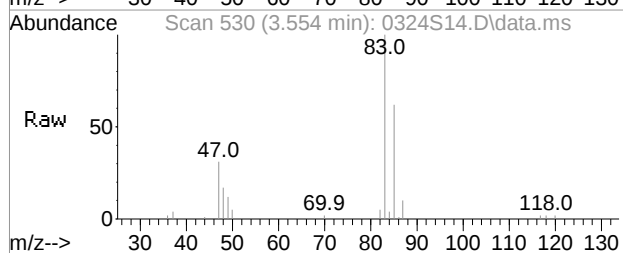
Quant Time: Mar 25 11:10:19 2015
Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Mar 24 08:24:49 2015
Response via : Initial Calibration





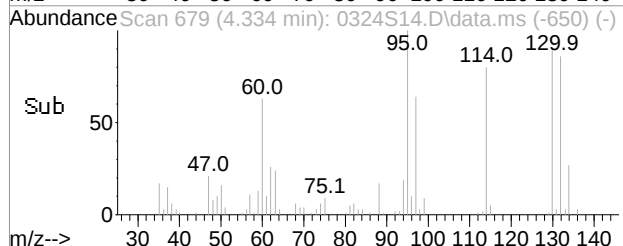
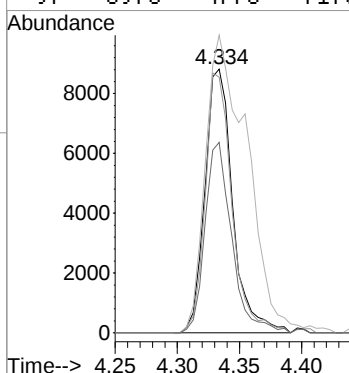
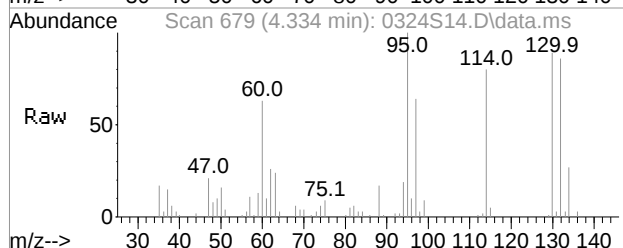
#22
Chloroform
Concen: 1.09 ug/l
RT: 3.554 min Scan# 530
Delta R.T. 0.005 min
Lab File: 0324S14.D
Acq: 24 Mar 2015 2:05 pm

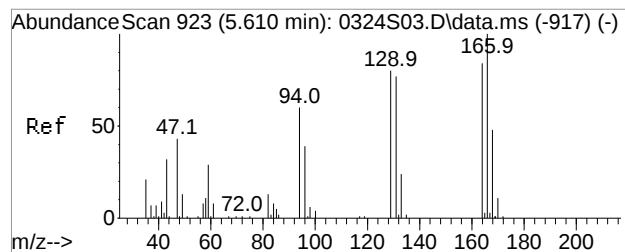
Tgt Ion: 83 Resp: 14653
Ion Ratio Lower Upper
83 100
85 62.4 46.1 86.1



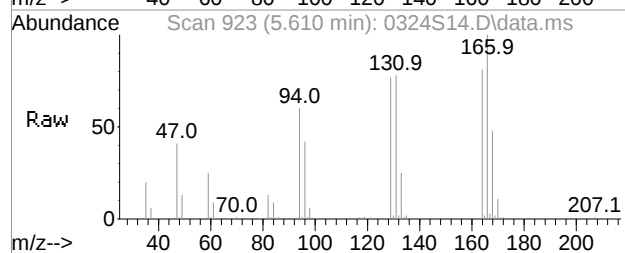
#31
Trichloroethene
Concen: 1.71 ug/l
RT: 4.334 min Scan# 679
Delta R.T. -0.000 min
Lab File: 0324S14.D
Acq: 24 Mar 2015 2:05 pm

Tgt Ion: 130 Resp: 13688
Ion Ratio Lower Upper
130 100
132 94.7 77.5 116.3
95 170.4 73.3 109.9#
97 69.6 47.5 71.3

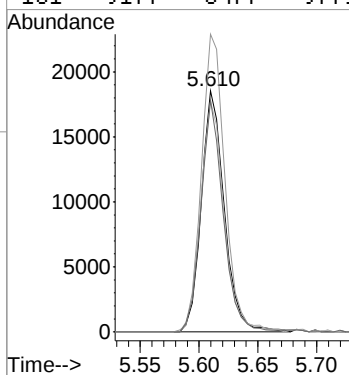
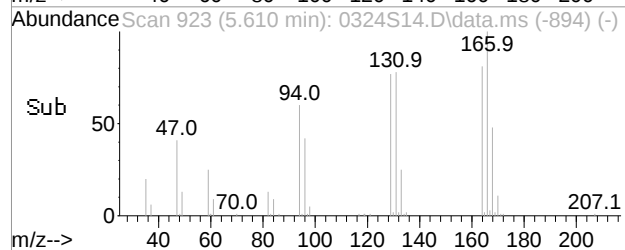




#42
Tetrachloroethene
Concen: 3.47 ug/l
RT: 5.610 min Scan# 923
Delta R.T. -0.000 min
Lab File: 0324S14.D
Acq: 24 Mar 2015 2:05 pm



Tgt Ion:	164	Resp:	25193
Ion	Ratio	Lower	Upper
164	100		
166	124.9	103.5	155.3
129	98.0	67.4	101.2
131	91.7	64.7	97.1



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

FIELD BLANK

Client: AESHAUP Lab: Phoenix Env. Labs

SDG No.: GBH86681 Lab Sample ID: BH86688

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0324S15.D

Level: (low/med/meth): Low Date Received: 03/23/15

% Moisture: n.a. Date Analyzed: 03/24/15

Instrument: CHEM17 Column: rtx-vms Dilution Factor: 1

Purge Volume 25000 (uL) pH: < 2 Soil Aliquot Vol: n.a. (uL)

Matrix: (soil/water) WATER CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONC.	Q	MDL/LOD	RL/PQL
75-71-8	Dichlorodifluoromethane	1.0	U	0.25	1.0
74-87-3	Chloromethane	0.36	J	0.25	2.0
75-01-4	Vinyl Chloride	1.0	U	0.25	1.0
74-83-9	Bromomethane	2.0	U	0.25	2.0
75-00-3	Chloroethane	2.0	U	0.25	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.25	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.25	1.0
76-13-1	Trichlorotrifluoroethane	1.0	U	0.25	1.0
67-64-1	Acetone	4.0	JS	2.5	5.0
75-15-0	Carbon Disulfide	1.0	U	0.25	1.0
79-20-9	METHYLACETATE	2.5	U	2.5	2.5
75-09-2	Methylene Chloride	3.0	U	0.25	3.0
156-60-5	Trans-1,2-Dichloroethene	2.0	U	0.25	2.0
75-34-3	1,1-Dichloroethane	2.0	U	0.25	2.0
156-59-2	Cis-1,2-Dichloroethene	1.0	U	0.25	1.0
78-93-3	Methyl Ethyl Ketone	2.5	U	2.5	2.5
74-97-5	Bromochloromethane	1.0	U	0.25	1.0
110-82-7	CYCLOHEXANE	5.0	U	0.50	5.0
67-66-3	Chloroform	2.1		0.25	2.0
71-55-6	1,1,1-Trichloroethane	2.0	U	0.25	2.0
1634-04-4	Methyl t-Butyl Ether (MTBE)	1.0	U	0.25	1.0
56-23-5	Carbon Tetrachloride	1.0	U	0.25	1.0
71-43-2	Benzene	0.70	U	0.25	0.70
107-06-2	1,2-Dichloroethane	0.6	U	0.25	0.6
108-87-2	METHYLCYCLOHEXANE	2.0	U	0.50	2.0
79-01-6	Trichloroethene	1.0	U	0.25	1.0
78-87-5	1,2-dichloropropane	1.0	U	0.25	1.0
75-27-4	Bromodichloromethane	0.26	J	0.25	1.0
10061-01-5	cis-1,3-Dichloropropene	0.40	U	0.25	0.40
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5
108-88-3	Toluene	2.0	U	0.25	2.0
106-93-4	1,2-Dibromoethane	1.0	U	0.25	1.0
10061-02-6	trans-1,3-Dichloropropene	0.40	U	0.25	0.40
79-00-5	1,1,2-Trichloroethane	1.0	U	0.25	1.0
127-18-4	Tetrachloroethene	1.0	U	0.25	1.0
591-78-6	2-Hexanone	2.5	U	2.5	2.5

FORM I VOA

FIELD BLANK

Client:	AESHAUP			Lab:	Phoenix Env. Labs	
SDG No.:	GBH86681			Lab Sample ID:	BH86688	
Sample wt/vol:	25	(g/mL)	mL	Lab File ID:	0324S15.D	
Level: (low/med/meth):	Low			Date Received:	03/23/15	
% Moisture:	n.a.			Date Analyzed:	03/24/15	
Instrument:	CHEM17	Column:	rtx-vms	Dilution Factor:	1	
Purge Volume	25000	(uL)	pH: < 2	Soil Aliquot Vol:	n.a.	(uL)
Matrix: (soil/water)	WATER			CONCENTRATION UNITS: (ug/L or ug/Kg)		
					ug/L	

FORM I VOA

CLIENT ID

FIELD BLANK

Lab Name: Phoenix Environmental Labs

Client: AESHAUP

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBH86681

Matrix:(soil/water) WATER

Lab Sample ID: BH86688

Sample wt/vol: 25 (g/mL) mL

Lab File ID: 0324S15.D

Level: (low/med)

Date Received: 03/23/15

% Moisture: not dec.	100
----------------------	-----

Date Analyzed: 03/24/15

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 1

Purge Volume	25000	(uL)
--------------	-------	------

Soil Aliquot Vol (uL): n.a.

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

[illegible]

FORM I VOA-TIC

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S15.D
 Acq On : 24 Mar 2015 2:28 pm
 Operator :
 Sample : BH86688
 Misc : FIELD BLANK
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 12:38:52 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

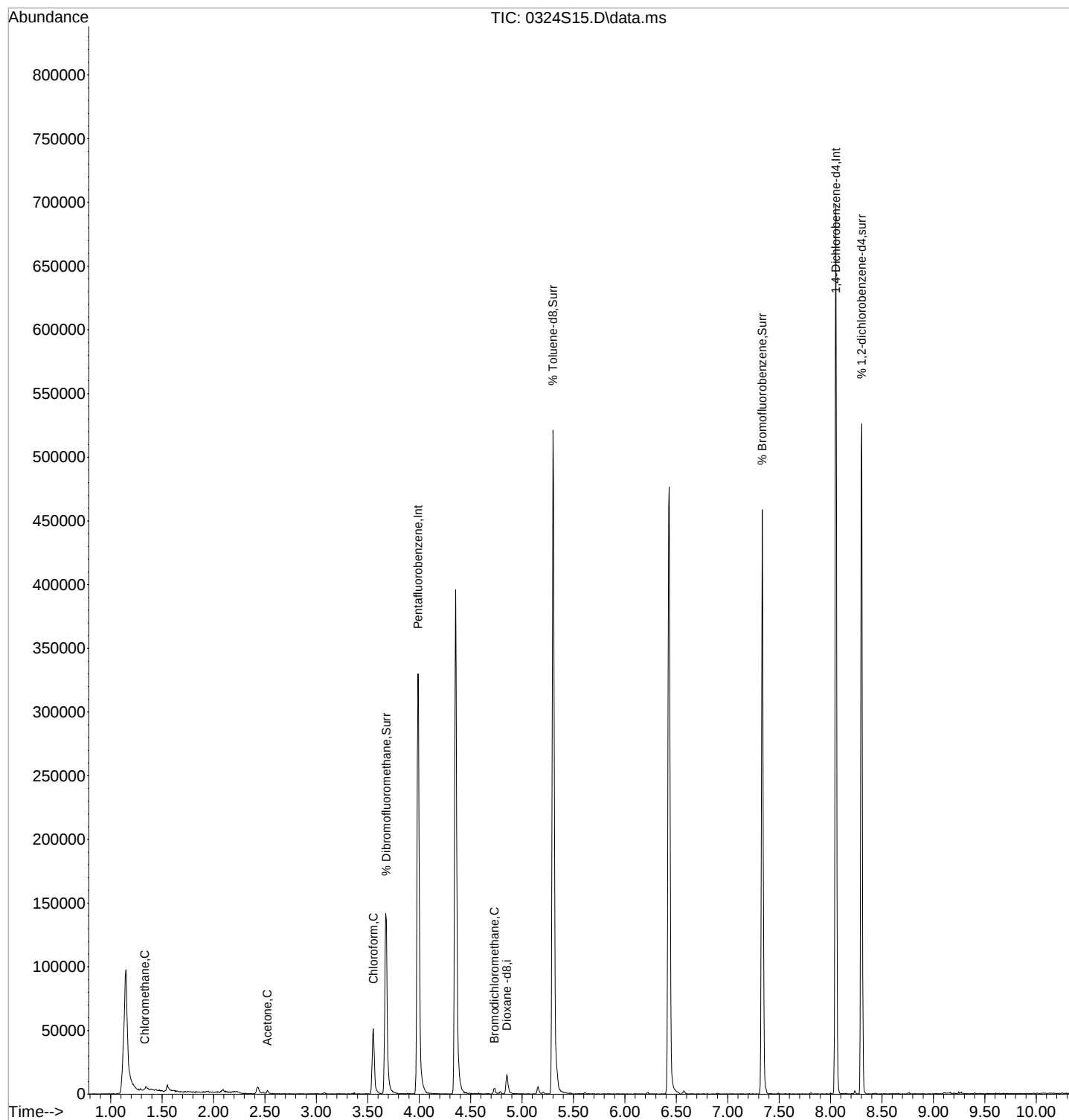
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

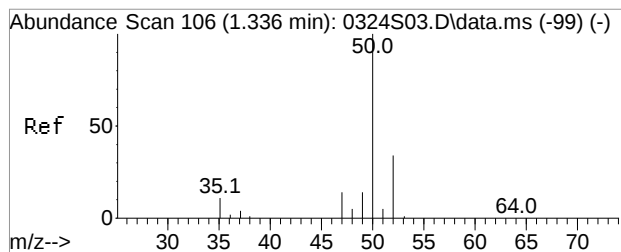
Internal Standards						
1) Pentafluorobenzene	3.988	168	152969	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	212123	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	185135	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	104286m	10.00	ug/l	0.00
63) Dioxane -d8	4.851	96	7989	500.00	ug/l	0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.680	192	12690	10.39	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	=	103.90%	
36) % Toluene-d8	5.301	98	252526	9.86	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	=	98.60%	
52) % Bromofluorobenzene	7.336	95	99710	9.82	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	=	98.20%	
54) % 1,2-dichlorobenzene-d4	8.303	152	81081	10.14	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	=	101.40%	
Target Compounds						
						Qvalue
3) Chloromethane	1.331	50	2540	0.36	ug/l	90
11) Acetone	2.524	43	2987	3.97	ug/l	# 58
22) Chloroform	3.554	83	28472	2.07	ug/l	96
33) Bromodichloromethane	4.731	83	2366	0.26	ug/l	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
Data File : 0324S15.D
Acq On : 24 Mar 2015 2:28 pm
Operator :
Sample : BH86688
Misc : FIELD BLANK
ALS Vial : 1 Sample Multiplier: 1

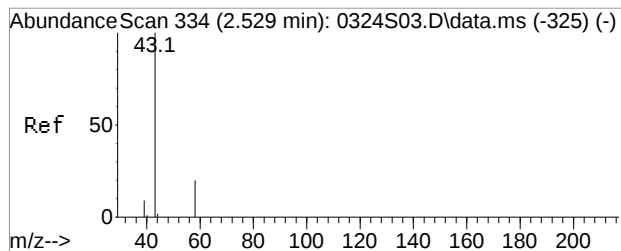
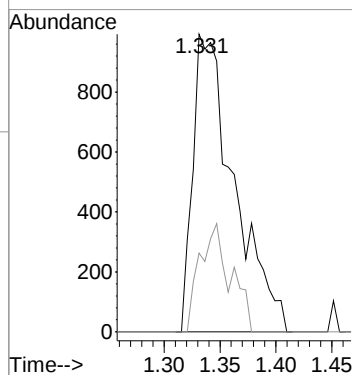
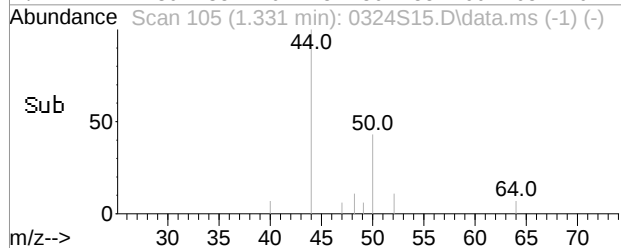
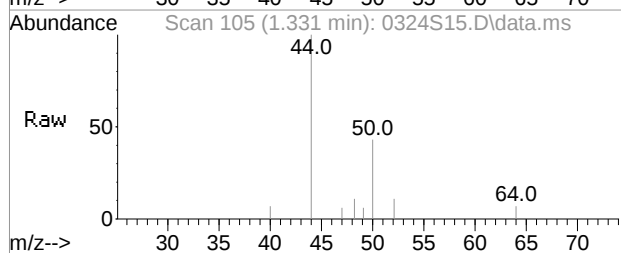
Quant Time: Mar 25 12:38:52 2015
Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Mar 24 08:24:49 2015
Response via : Initial Calibration





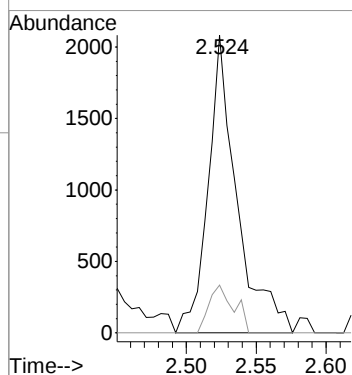
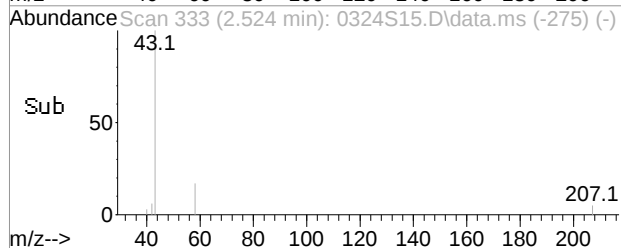
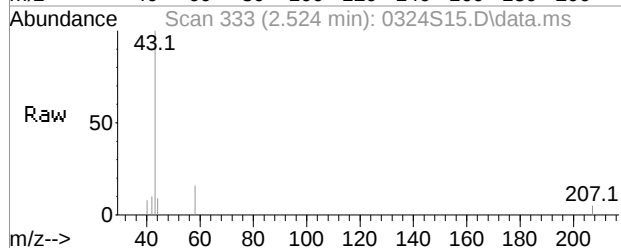
#3
Chloromethane
Concen: 0.36 ug/l
RT: 1.331 min Scan# 105
Delta R.T. 0.005 min
Lab File: 0324S15.D
Acq: 24 Mar 2015 2:28 pm

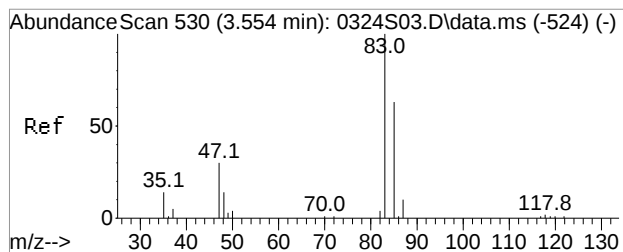
Tgt Ion: 50 Resp: 2540
Ion Ratio Lower Upper
50 100
52 27.2 26.4 39.6



#11
Acetone
Concen: 3.97 ug/l
RT: 2.524 min Scan# 333
Delta R.T. 0.005 min
Lab File: 0324S15.D
Acq: 24 Mar 2015 2:28 pm

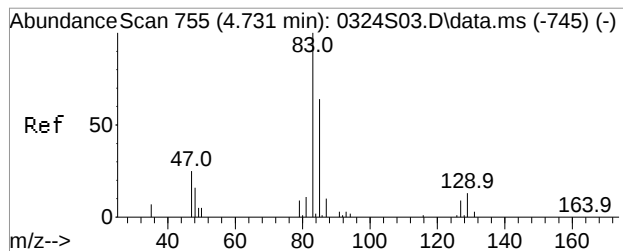
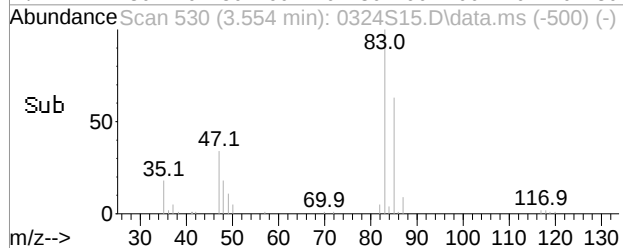
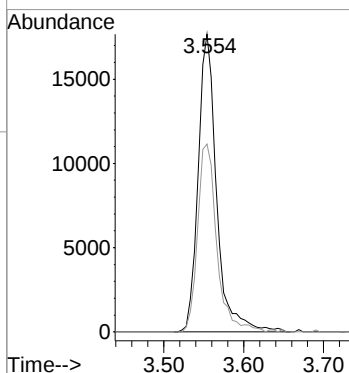
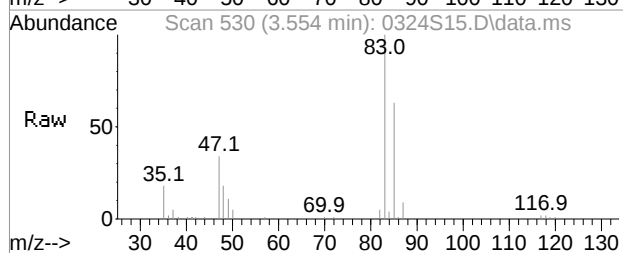
Tgt Ion: 43 Resp: 2987
Ion Ratio Lower Upper
43 100
58 13.9 31.5 47.3#





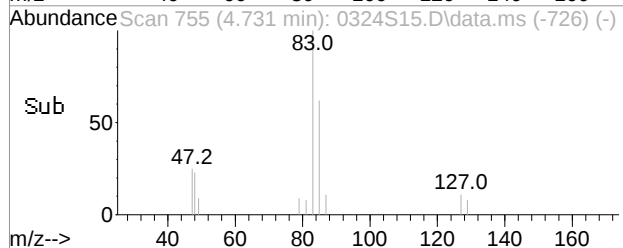
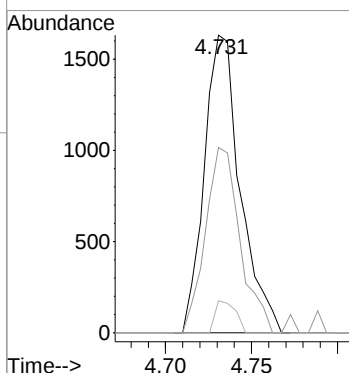
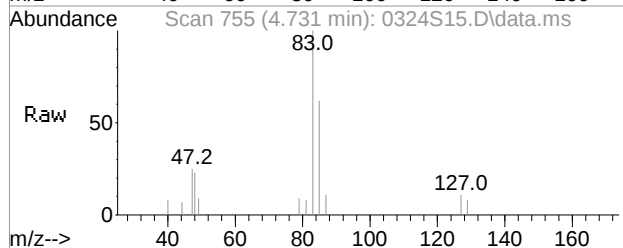
#22
Chloroform
Concen: 2.07 ug/l
RT: 3.554 min Scan# 530
Delta R.T. 0.005 min
Lab File: 0324S15.D
Acq: 24 Mar 2015 2:28 pm

Tgt Ion: 83 Resp: 28472
Ion Ratio Lower Upper
83 100
85 63.1 46.1 86.1



#33
Bromodichloromethane
Concen: 0.26 ug/l
RT: 4.731 min Scan# 755
Delta R.T. -0.000 min
Lab File: 0324S15.D
Acq: 24 Mar 2015 2:28 pm

Tgt Ion: 83 Resp: 2366
Ion Ratio Lower Upper
83 100
85 62.3 45.3 85.3
127 10.7 0.0 30.0



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

TRIP BLANK

Client: AESHAUP Lab: Phoenix Env. Labs

SDG No.: GBH86681 Lab Sample ID: BH86689

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0324S16.D

Level: (low/med/meth): Low Date Received: 03/23/15

% Moisture: n.a. Date Analyzed: 03/24/15

Instrument: CHEM17 Column: rtx-vms Dilution Factor: 1

Purge Volume 25000 (uL) pH: < 2 Soil Aliquot Vol: n.a. (uL)

Matrix: (soil/water) WATER CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONC.	Q	MDL/LOD	RL/PQL
75-71-8	Dichlorodifluoromethane	1.0	U	0.25	1.0
74-87-3	Chloromethane	2.0	U	0.25	2.0
75-01-4	Vinyl Chloride	1.0	U	0.25	1.0
74-83-9	Bromomethane	2.0	U	0.25	2.0
75-00-3	Chloroethane	2.0	U	0.25	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.25	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.25	1.0
76-13-1	Trichlorotrifluoroethane	1.0	U	0.25	1.0
67-64-1	Acetone	4.3	JS	2.5	5.0
75-15-0	Carbon Disulfide	1.0	U	0.25	1.0
79-20-9	METHYLACETATE	2.5	U	2.5	2.5
75-09-2	Methylene Chloride	3.0	U	0.25	3.0
156-60-5	Trans-1,2-Dichloroethene	2.0	U	0.25	2.0
75-34-3	1,1-Dichloroethane	2.0	U	0.25	2.0
156-59-2	Cis-1,2-Dichloroethene	1.0	U	0.25	1.0
78-93-3	Methyl Ethyl Ketone	2.5	U	2.5	2.5
74-97-5	Bromochloromethane	1.0	U	0.25	1.0
110-82-7	CYCLOHEXANE	5.0	U	0.50	5.0
67-66-3	Chloroform	2.1		0.25	2.0
71-55-6	1,1,1-Trichloroethane	2.0	U	0.25	2.0
1634-04-4	Methyl t-Butyl Ether (MTBE)	1.0	U	0.25	1.0
56-23-5	Carbon Tetrachloride	1.0	U	0.25	1.0
71-43-2	Benzene	0.70	U	0.25	0.70
107-06-2	1,2-Dichloroethane	0.6	U	0.25	0.6
108-87-2	METHYLCYCLOHEXANE	2.0	U	0.50	2.0
79-01-6	Trichloroethene	1.0	U	0.25	1.0
78-87-5	1,2-dichloropropane	1.0	U	0.25	1.0
75-27-4	Bromodichloromethane	0.26	J	0.25	1.0
10061-01-5	cis-1,3-Dichloropropene	0.40	U	0.25	0.40
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5
108-88-3	Toluene	2.0	U	0.25	2.0
106-93-4	1,2-Dibromoethane	1.0	U	0.25	1.0
10061-02-6	trans-1,3-Dichloropropene	0.40	U	0.25	0.40
79-00-5	1,1,2-Trichloroethane	1.0	U	0.25	1.0
127-18-4	Tetrachloroethene	1.0	U	0.25	1.0
591-78-6	2-Hexanone	2.5	U	2.5	2.5

FORM I VOA

TRIP BLANK

Client:	AESHAUP			Lab:	Phoenix Env. Labs	
SDG No.:	GBH86681			Lab Sample ID:	BH86689	
Sample wt/vol:	25	(g/mL)	mL	Lab File ID:	0324S16.D	
Level: (low/med/meth):	Low			Date Received:	03/23/15	
% Moisture:	n.a.			Date Analyzed:	03/24/15	
Instrument:	CHEM17	Column:	rtx-vms	Dilution Factor:	1	
Purge Volume	25000	(uL)	pH: < 2	Soil Aliquot Vol:	n.a.	(uL)
Matrix: (soil/water)	WATER			CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		

FORM I VOA

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S16.D
 Acq On : 24 Mar 2015 2:51 pm
 Operator :
 Sample : BH86689
 Misc : TRIP BLANK
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 11:10:23 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

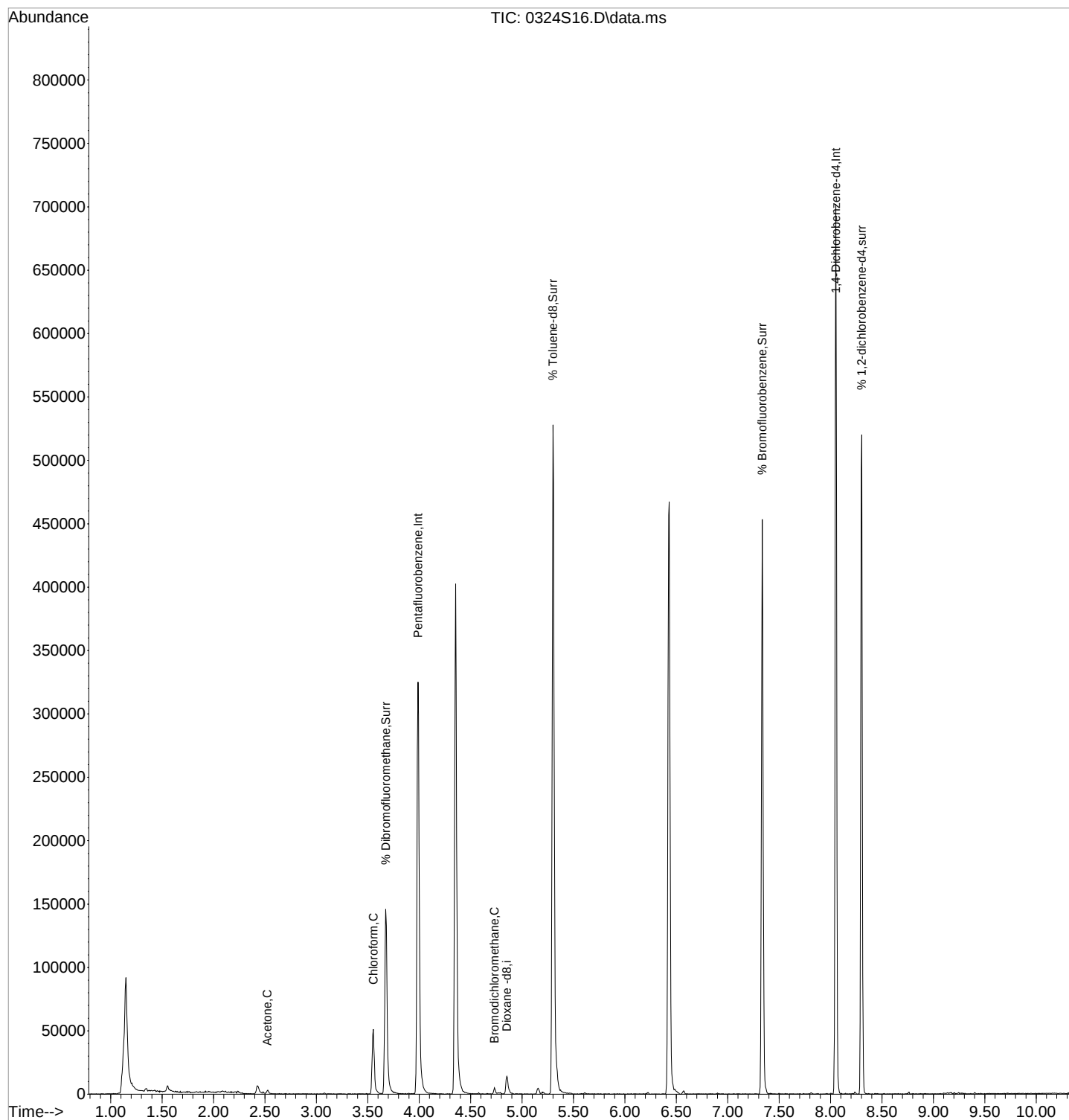
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

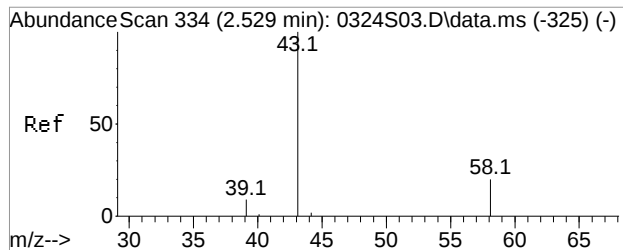
Internal Standards						
1) Pentafluorobenzene	3.988	168	153224	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	208352	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	185424	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	103693	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	7620	500.00	ug/l	# 0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.674	192	12651	10.34	ug/l	0.00
Spiked Amount 10.000	Range 75	- 125	Recovery	=	103.40%	
36) % Toluene-d8	5.301	98	251797	10.01	ug/l	0.00
Spiked Amount 10.000	Range 75	- 125	Recovery	=	100.10%	
52) % Bromofluorobenzene	7.336	95	100706	9.91	ug/l	0.00
Spiked Amount 10.000	Range 75	- 125	Recovery	=	99.10%	
54) % 1,2-dichlorobenzene-d4	8.303	152	79580	10.00	ug/l	0.00
Spiked Amount 10.000	Range 75	- 125	Recovery	=	100.00%	
Target Compounds						
						Qvalue
11) Acetone	2.524	43	3265	4.33	ug/l	# 61
22) Chloroform	3.554	83	28583	2.08	ug/l	98
33) Bromodichloromethane	4.731	83	2346	0.26	ug/l	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
Data File : 0324S16.D
Acq On : 24 Mar 2015 2:51 pm
Operator :
Sample : BH86689
Misc : TRIP BLANK
ALS Vial : 1 Sample Multiplier: 1

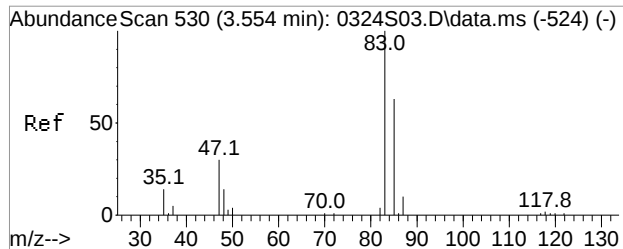
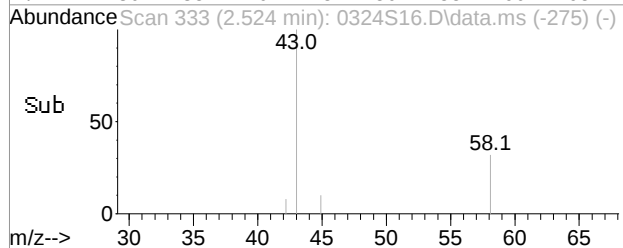
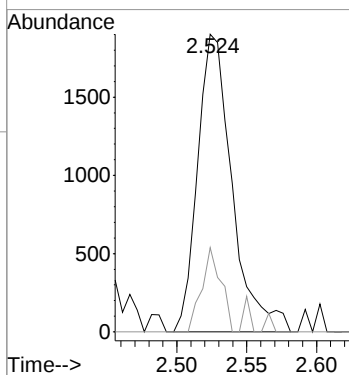
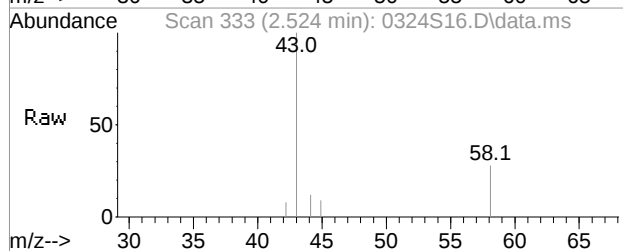
Quant Time: Mar 25 11:10:23 2015
Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Mar 24 08:24:49 2015
Response via : Initial Calibration





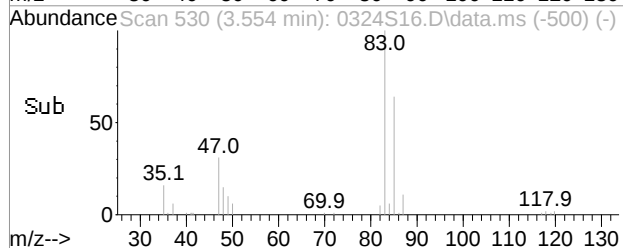
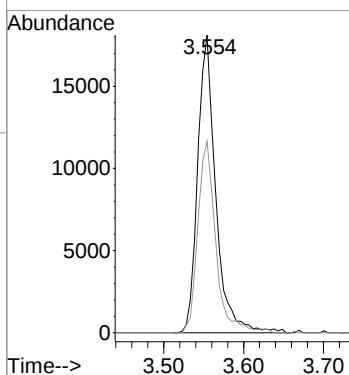
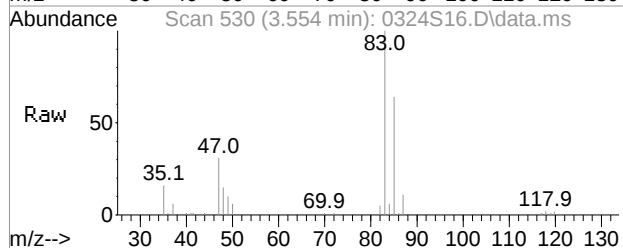
#11
Acetone
Concen: 4.33 ug/l
RT: 2.524 min Scan# 333
Delta R.T. 0.005 min
Lab File: 0324S16.D
Acq: 24 Mar 2015 2:51 pm

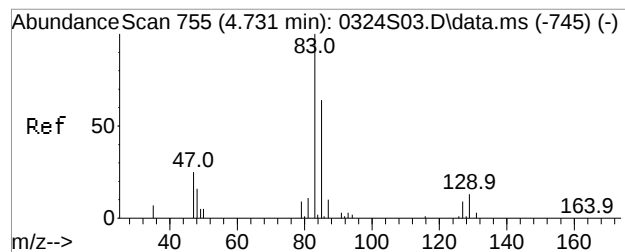
Tgt Ion: 43 Resp: 3265
Ion Ratio Lower Upper
43 100
58 15.7 31.5 47.3#



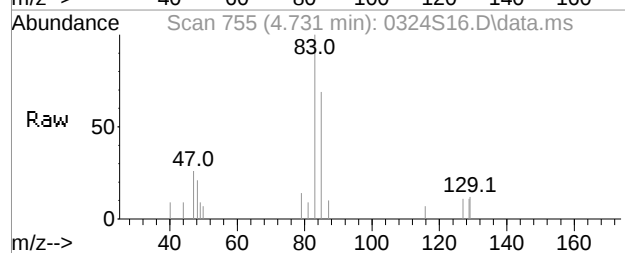
#22
Chloroform
Concen: 2.08 ug/l
RT: 3.554 min Scan# 530
Delta R.T. 0.005 min
Lab File: 0324S16.D
Acq: 24 Mar 2015 2:51 pm

Tgt Ion: 83 Resp: 28583
Ion Ratio Lower Upper
83 100
85 64.4 46.1 86.1

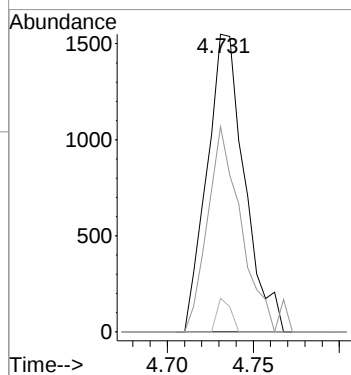
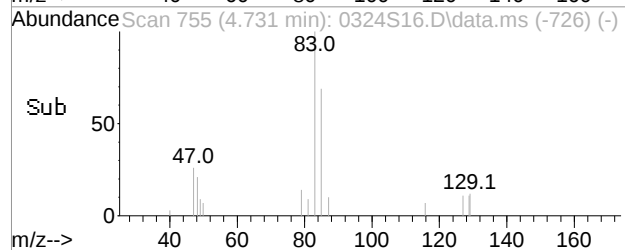




#33
 Bromodichloromethane
 Concen: 0.26 ug/l
 RT: 4.731 min Scan# 755
 Delta R.T. -0.000 min
 Lab File: 0324S16.D
 Acq: 24 Mar 2015 2:51 pm



Tgt Ion: 83 Resp: 2346
 Ion Ratio Lower Upper
 83 100
 85 68.9 45.3 85.3
 127 11.4 0.0 30.0



6B
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs Client: AESHAUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBH86681

Instrument ID: CHEM17 Calibration Date(s): 03/23/15 03/23/15

Heated Purge (Y/N): Y Calibration Time(s): 14:41 16:36

GC Column: rtx-vms

LAB FILE ID:

RRF0.5	<u>0323S13.D</u>	RRF2	<u>0323S14.D</u>	RRF4	<u>0323S15.D</u>
RRF10	<u>0323S16.D</u>	RRF20	<u>0323S17.D</u>	RRF30	<u>0323S18.D</u>

COMPOUND		RRF0.5	RRF2	RRF4	RRF10	RRF20	RRF30	— RRF	% RSD
Dichlorodifluoromethane		0.469	0.564	0.562	0.638	0.558	0.634	0.571	10.8
Chloromethane		0.308	0.466	0.511	0.523	0.469	0.511	0.465	17.3
Vinyl Chloride		0.336	0.398	0.455	0.499	0.437	0.488	0.435	14.0
Bromomethane	#	0.081	0.084	0.104	0.145	0.177		0.118	35.3
Chloroethane		0.268	0.291	0.303	0.326	0.293	0.332	0.302	7.8
Trichlorofluoromethane		0.802	1.006	1.106	1.154	1.020	1.140	1.038	12.6
1,1-Dichloroethene		0.311	0.385	0.411	0.446	0.403	0.450	0.401	12.6
Trichlorotrifluoroethane		0.366	0.454	0.479	0.504	0.441	0.500	0.457	11.2
Acetone			0.060	0.053	0.047	0.041	0.046	0.049	15.2
Carbon Disulfide		0.794	0.917	0.962	1.048	0.913	1.011	0.941	9.5
METHYLACETATE		0.089	0.087	0.083	0.086	0.079	0.087	0.085	4.3
Methylene Chloride		0.767	0.428	0.396	0.370	0.327	0.359	0.441	37.0
Trans-1,2-Dichloroethene		0.341	0.394	0.410	0.447	0.397	0.435	0.404	9.2
1,1-Dichloroethane		0.798	0.925	0.973	1.015	0.915	0.994	0.937	8.4
Cis-1,2-Dichloroethene		0.352	0.374	0.452	0.442	0.396	0.438	0.409	10.1
Methyl Ethyl Ketone		0.057	0.068	0.074	0.068	0.060	0.068	0.066	9.2
Bromochloromethane		0.133	0.151	0.173	0.166	0.154	0.172	0.158	9.6
CYCLOHEXANE		0.677	0.804	0.867	0.919	0.803	0.901	0.829	10.6
Chloroform		0.843	0.875	0.912	0.947	0.868	0.939	0.897	4.7
1,1,1-Trichloroethane		0.883	1.061	1.130	1.193	1.048	1.165	1.080	10.4
Methyl t-Butyl Ether (MTBE)		0.463	0.507	0.576	0.538	0.502	0.558	0.524	7.9
Carbon Tetrachloride		0.457	0.567	0.617	0.655	0.576	0.640	0.585	12.2
Benzene		0.992	1.105	1.192	1.214	1.103	1.207	1.135	7.6
1,2-Dichloroethane		0.361	0.426	0.449	0.455	0.414	0.457	0.427	8.5
METHYLCYCLOHEXANE		0.538	0.586	0.614	0.624	0.543	0.613	0.586	6.5
Trichloroethene		0.321	0.369	0.397	0.406	0.370	0.407	0.378	8.7
1,2-dichloropropane		0.239	0.261	0.289	0.290	0.262	0.290	0.272	7.7
Bromodichloromethane		0.357	0.425	0.460	0.463	0.432	0.481	0.436	10.0
cis-1,3-Dichloropropene		0.328	0.375	0.418	0.420	0.394	0.440	0.396	10.2
4-Methyl-2-Pentanone		0.095	0.120	0.123	0.121	0.113	0.131	0.117	10.6
Toluene		1.171	1.369	1.455	1.494	1.354	1.495	1.390	8.9
1,2-Dibromoethane		0.126	0.148	0.157	0.160	0.150	0.168	0.151	9.4
trans-1,3-Dichloropropene		0.270	0.317	0.353	0.353	0.324	0.371	0.331	11.0
1,1,2-Trichloroethane		0.131	0.147	0.159	0.156	0.146	0.163	0.150	7.8

* The minimum RRF was not met for this compound.

The minimum RRF was not met for all points for this compound, but the average was achieved.

FORM VI VOA

Lab Name:	Phoenix Environmental Labs		Client:	AESHAUP	
Lab Code:	Phoenix	Case No.:		SAS No.:	
				SDG No.:	GBH86681
Instrument ID:	CHEM17	Calibration Date(s):		03/23/15	03/23/15
Heated Purge (Y/N):	Y	Calibration Time(s):		14:41	16:36
GC Column:	rtx-vms				

RRF0.5	<u>0323S13.D</u>	RRF2	<u>0323S14.D</u>	RRF4	<u>0323S15.D</u>
RRF10	<u>0323S16.D</u>	RRF20	<u>0323S17.D</u>	RRF30	<u>0323S18.D</u>

* The minimum RRF was not met for this compound.
The minimum RRF was not met for all points for this compound, but the average was achieved.

Page 130 of 186

Data Path : H:\V2015\CHEM17\03MAR\032315\
 Data File : 0323S13.D
 Acq On : 23 Mar 2015 2:41 pm
 Operator :
 Sample : VOA-.5 PPB STD.
 Misc : ICAL 0.50
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 23 22:45:40 2015
 Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 23 22:44:52 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.988	168	170347	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	229127	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	193634	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	111730	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	8094	500.00	ug/l	0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.674	192	13597	10.15	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	101.50%		
36) % Toluene-d8	5.301	98	274720	10.02	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	100.20%		
52) % Bromofluorobenzene	7.336	95	106707	10.15	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	101.50%		
54) % 1,2-dichlorobenzene-d4	8.303	152	85543	9.93	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	99.30%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.206	85	3997	0.37	ug/l	95
3) Chloromethane	1.337	50	2619	0.29	ug/l	93
4) Vinyl Chloride	1.378	62	2863	0.34	ug/l	# 86
5) Bromomethane	1.582	94	687	0.28	ug/l	# 67
6) Chloroethane	1.666	64	2286	0.41	ug/l	98
7) Trichlorofluoromethane	1.750	101	6830	0.35	ug/l	93
8) 1,1-Dichloroethene	2.090	96	2652	0.35	ug/l	# 43
9) Trichlorotrifluoroethane	2.105	101	3118	0.36	ug/l	# 81
12) Carbon Disulfide	2.111	76	6759	0.38	ug/l	# 91
13) Methylene Chloride	2.482	84	6535	1.04	ug/l	# 76
15) Trans-1,2-Dichloroethene	2.592	96	2907	0.38	ug/l	# 75
17) 1,1-Dichloroethane	3.010	63	6798	0.39	ug/l	93
18) Cis-1,2-Dichloroethene	3.371	96	2996	0.40	ug/l	# 61
19) Methyl Ethyl Ketone	3.769	43	487	24.82	ug/l	# 83
20) Bromochloromethane	3.507	128	1134	0.40	ug/l	# 79
22) Chloroform	3.549	83	7179	0.45	ug/l	98
24) 1,1,1-Trichloroethane	3.690	97	7522	0.37	ug/l	96
26) Methyl t-Butyl Ether (...)	2.670	73	5300	0.43	ug/l	# 79
27) Carbon Tetrachloride	3.648	117	5238	0.35	ug/l	99
28) Benzene	3.941	78	11359	0.41	ug/l	100
31) Trichloroethene	4.333	130	3678	0.40	ug/l	# 2
32) 1,2-dichloropropane	4.694	63	2739	0.41	ug/l	# 87
33) Bromodichloromethane	4.731	83	4094	0.39	ug/l	88
34) cis-1,3-Dichloropropene	5.170	75	3754	0.39	ug/l	90
37) Toluene	5.338	91	13412	0.39	ug/l	99
38) trans-1,3-Dichloropropene	5.636	75	3090	0.38	ug/l	88
39) 1,1,2-Trichloroethane	5.751	97	1500	0.42	ug/l	# 88
40) 1,2-Dibromoethane	6.049	107	1443	0.39	ug/l	84
42) Tetrachloroethene	5.610	164	2936	0.35	ug/l	# 84
44) Dibromochloromethane	5.882	129	2123	0.34	ug/l	92
45) Chlorobenzene	6.441	112	8303	0.38	ug/l	83
46) 1,1,1,2-Tetrachloroethane	6.483	131	2786	0.33	ug/l	91
47) Ethylbenzene	6.462	91	17647	0.39	ug/l	94
48) m&p-Xylene	6.572	106	12140	0.75	ug/l	# 61
49) o-Xylene	6.907	106	5600	0.37	ug/l	# 58
50) Styrene	6.943	104	8158	0.38	ug/l	# 69
51) Bromoform	6.959	173	1127	0.38	ug/l	# 79

Data Path : H:\V2015\CHEM17\03MAR\032315\
 Data File : 0323S13.D
 Acq On : 23 Mar 2015 2:41 pm
 Operator :
 Sample : VOA-.5 PPB STD.
 Misc : ICAL 0.50
 ALS Vial : 1 Sample Multiplier: 1

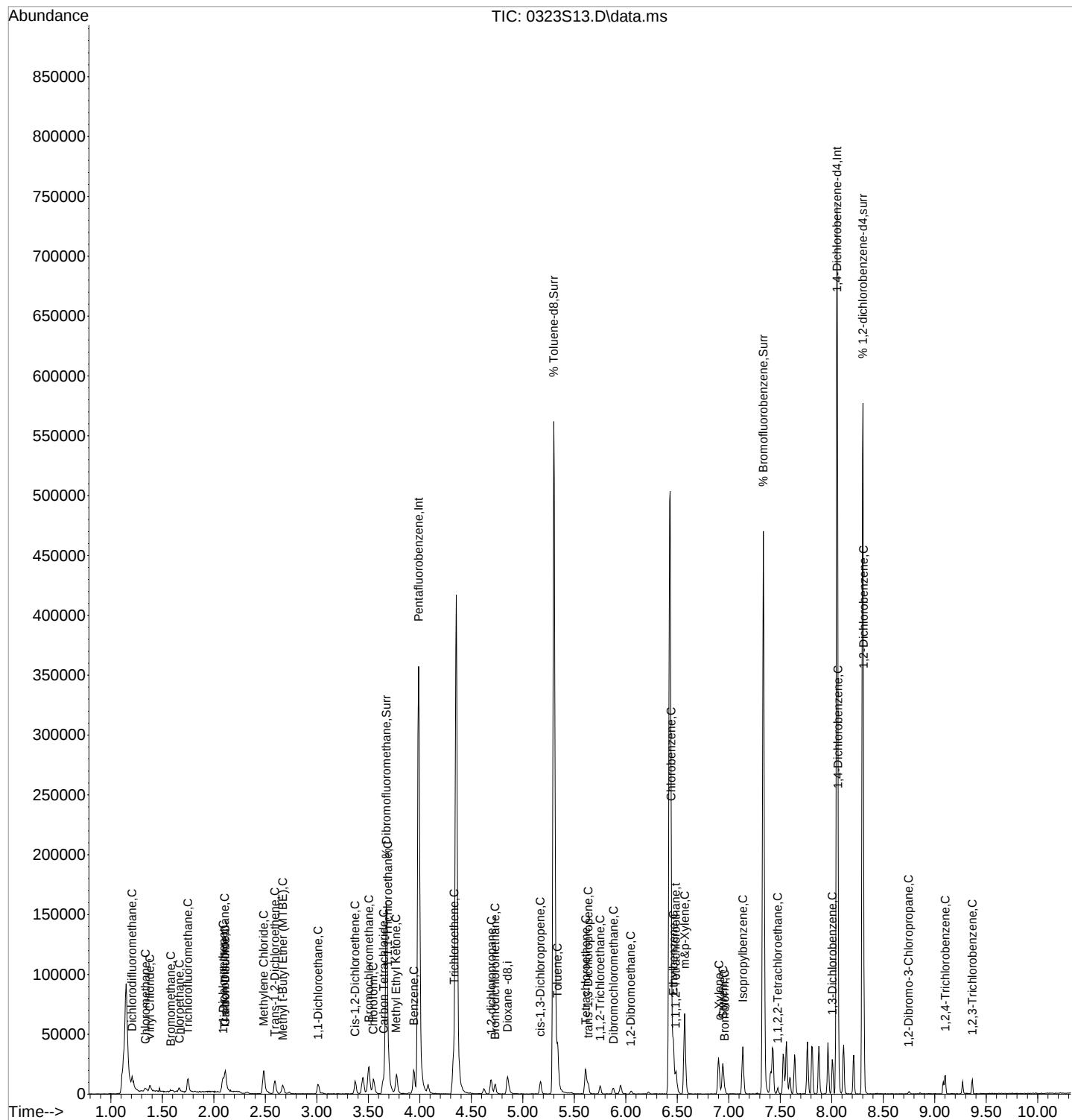
Quant Time: Mar 23 22:45:40 2015
 Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 23 22:44:52 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Isopropylbenzene	7.137	105	17820	0.37	ug/l	95
56) 1,1,2,2-Tetrachloroethane	7.477	83	1309	0.39	ug/l #	92
57) 1,3-Dichlorobenzene	8.005	146	6418	0.37	ug/l #	92
58) 1,4-Dichlorobenzene	8.063	146	6337	0.37	ug/l #	70
59) 1,2-Dichlorobenzene	8.308	146	5457	0.39	ug/l #	74
60) 1,2-Dibromo-3-Chloropr...	8.748	75	492	0.62	ug/l #	30
61) 1,2,4-Trichlorobenzene	9.103	180	2778	0.43	ug/l	96
62) 1,2,3-Trichlorobenzene	9.365	180	1739	0.39	ug/l #	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032315\
Data File : 0323S13.D
Acq On : 23 Mar 2015 2:41 pm
Operator :
Sample : VOA-.5 PPB STD.
Misc : ICAL 0.50
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 23 22:45:40 2015
Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 23 22:44:52 2015
Response via : Initial Calibration



Data Path : H:\V2015\CHEM17\03MAR\032315\
 Data File : 0323S14.D
 Acq On : 23 Mar 2015 3:04 pm
 Operator :
 Sample : VOA-2 PPB STD.
 Misc : ICAL 2.0
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 23 22:45:49 2015
 Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 23 22:44:52 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.988	168	169744	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	228347	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	191249	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	110188	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	7925	500.00	ug/l	# 0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.674	192	13079	9.80	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	98.00%		
36) % Toluene-d8	5.301	98	273309	10.00	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	100.00%		
52) % Bromofluorobenzene	7.336	95	105013	10.11	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	101.10%		
54) % 1,2-dichlorobenzene-d4	8.303	152	85255	10.03	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	100.30%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.206	85	19130	1.77	ug/l	97
3) Chloromethane	1.336	50	15820	1.78	ug/l	100
4) Vinyl Chloride	1.378	62	13499	1.59	ug/l	95
5) Bromomethane	1.588	94	2845	1.16	ug/l	97
6) Chloroethane	1.661	64	9891	1.79	ug/l	98
7) Trichlorofluoromethane	1.750	101	34151	1.74	ug/l	100
8) 1,1-Dichloroethene	2.090	96	13069	1.73	ug/l	# 60
9) Trichlorotrifluoroethane	2.111	101	15417	1.80	ug/l	88
10) Acrolein	2.325	56	3830	10.23	ug/l	98
11) Acetone	2.524	43	2030	2.56	ug/l	# 65
12) Carbon Disulfide	2.111	76	31143	1.75	ug/l	99
13) Methylene Chloride	2.487	84	14513	2.31	ug/l	# 72
15) Trans-1,2-Dichloroethene	2.592	96	13370	1.76	ug/l	# 75
16) Acrylonitrile	3.052	53	1358	1.78	ug/l	# 94
17) 1,1-Dichloroethane	3.010	63	31414	1.82	ug/l	99
18) Cis-1,2-Dichloroethene	3.371	96	12687	1.69	ug/l	# 61
19) Methyl Ethyl Ketone	3.763	43	2316	118.46	ug/l	95
20) Bromochloromethane	3.507	128	5119	1.81	ug/l	# 72
21) CYCLOHEXANE	3.507	56	27305	1.75	ug/l	# 77
22) Chloroform	3.554	83	29704	1.85	ug/l	100
24) 1,1,1-Trichloroethane	3.695	97	36021	1.78	ug/l	96
26) Methyl t-Butyl Ether (...)	2.670	73	23143	1.88	ug/l	# 85
27) Carbon Tetrachloride	3.643	117	25877	1.73	ug/l	92
28) Benzene	3.941	78	50478	1.82	ug/l	100
29) 1,2-Dichloroethane	4.082	62	19474	1.88	ug/l	# 86
30) METHYLCYCLOHEXANE	4.323	55	26740	1.88	ug/l	# 75
31) Trichloroethene	4.333	130	16842	1.82	ug/l	# 71
32) 1,2-dichloropropane	4.694	63	11937	1.80	ug/l	100
33) Bromodichloromethane	4.731	83	19425	1.84	ug/l	96
34) cis-1,3-Dichloropropene	5.170	75	17116	1.78	ug/l	99
37) Toluene	5.338	91	62525	1.83	ug/l	96
38) trans-1,3-Dichloropropene	5.636	75	14497	1.80	ug/l	94
39) 1,1,2-Trichloroethane	5.751	97	6702	1.88	ug/l	95
40) 1,2-Dibromoethane	6.054	107	6751	1.85	ug/l	96
42) Tetrachloroethene	5.610	164	15222	1.84	ug/l	91
44) Dibromochloromethane	5.876	129	10604	1.70	ug/l	100
45) Chlorobenzene	6.441	112	38354	1.79	ug/l	87

Data Path : H:\V2015\CHEM17\03MAR\032315\
 Data File : 0323S14.D
 Acq On : 23 Mar 2015 3:04 pm
 Operator :
 Sample : VOA-2 PPB STD.
 Misc : ICAL 2.0
 ALS Vial : 1 Sample Multiplier: 1

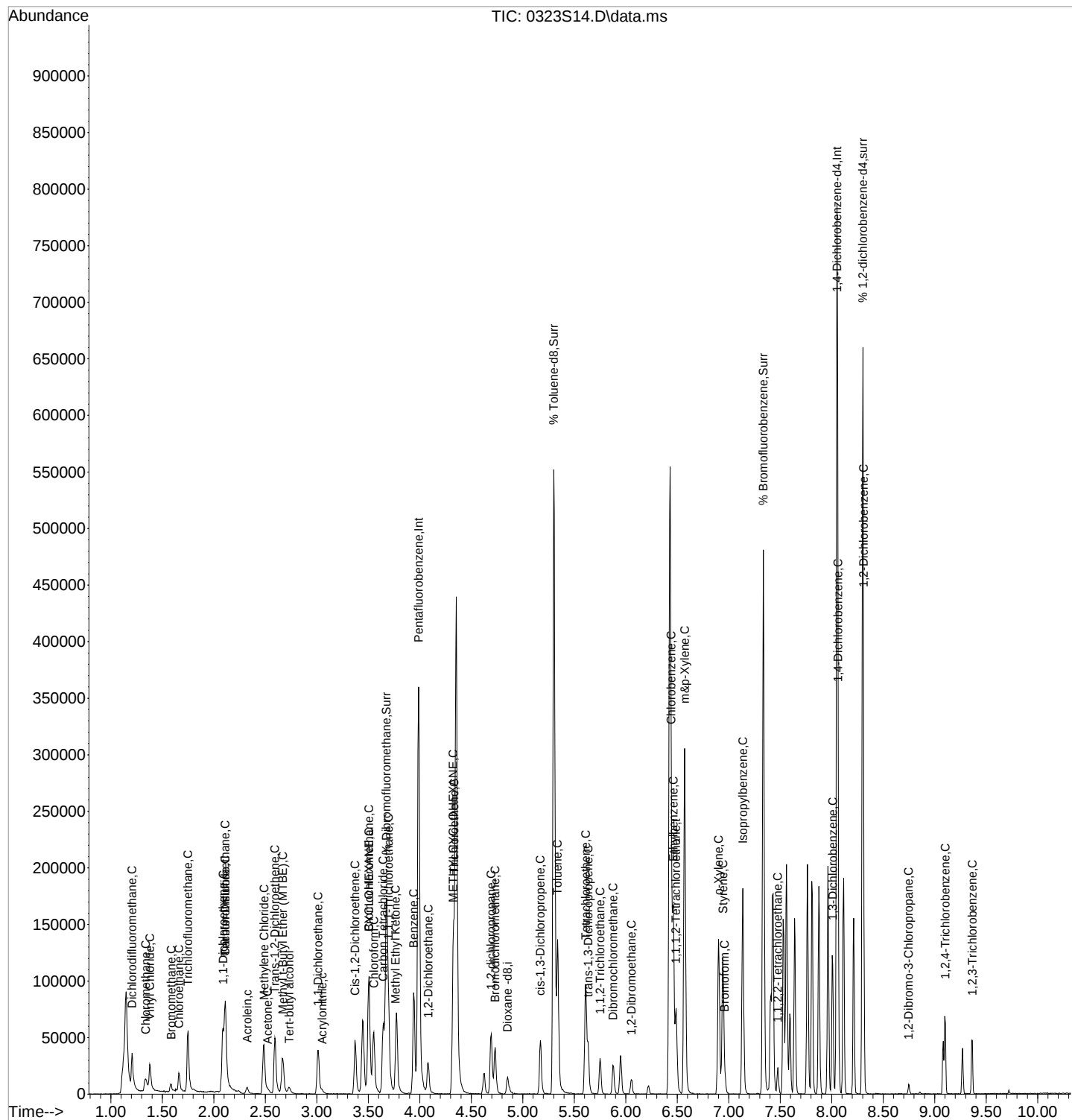
Quant Time: Mar 23 22:45:49 2015
 Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 23 22:44:52 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1,1,2-Tetrachloroethane	6.488	131	14674	1.74	ug/l #	91
47) Ethylbenzene	6.462	91	78516	1.76	ug/l	93
48) m&p-Xylene	6.572	106	56326	3.52	ug/l #	63
49) o-Xylene	6.901	106	26534	1.76	ug/l #	68
50) Styrene	6.943	104	37600	1.78	ug/l #	75
51) Bromoform	6.959	173	5263	1.77	ug/l #	94
55) Isopropylbenzene	7.137	105	84255	1.75	ug/l	92
56) 1,1,2,2-Tetrachloroethane	7.477	83	6166	1.86	ug/l	99
57) 1,3-Dichlorobenzene	8.010	146	30352	1.75	ug/l	95
58) 1,4-Dichlorobenzene	8.063	146	28862	1.72	ug/l #	88
59) 1,2-Dichlorobenzene	8.308	146	24832	1.80	ug/l #	91
60) 1,2-Dibromo-3-Chloropr...	8.748	75	1371	1.76	ug/l #	55
61) 1,2,4-Trichlorobenzene	9.103	180	11142	1.74	ug/l #	93
62) 1,2,3-Trichlorobenzene	9.365	180	7759	1.78	ug/l	95
65) Tert-butyl alcohol	2.733	59	4853	18.72	ug/l #	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032315\
Data File : 0323S14.D
Acq On : 23 Mar 2015 3:04 pm
Operator :
Sample : VOA-2 PPB STD.
Misc : ICAL 2.0
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 23 22:45:49 2015
Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 23 22:44:52 2015
Response via : Initial Calibration



Data Path : H:\V2015\CHEM17\03MAR\032315\
 Data File : 0323S15.D
 Acq On : 23 Mar 2015 3:27 pm
 Operator :
 Sample : VOA-4 PPB STD.
 Misc : ICAL 4.0
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 23 22:45:57 2015
 Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 23 22:44:52 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.988	168	171351	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	228932	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	196214	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	112194	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	7844	500.00	ug/l	# 0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.680	192	13908	10.33	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	103.30%		
36) % Toluene-d8	5.301	98	279545	10.20	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	102.00%		
52) % Bromofluorobenzene	7.336	95	107098	10.05	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	100.50%		
54) % 1,2-dichlorobenzene-d4	8.303	152	85590	9.89	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	98.90%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.206	85	38491	3.52	ug/l	100
3) Chloromethane	1.337	50	34991	3.90	ug/l	99
4) Vinyl Chloride	1.378	62	31150	3.64	ug/l	97
5) Bromomethane	1.582	94	7116	2.87	ug/l	96
6) Chloroethane	1.661	64	20741	3.71	ug/l	# 96
7) Trichlorofluoromethane	1.750	101	75779	3.83	ug/l	97
8) 1,1-Dichloroethene	2.090	96	28167	3.69	ug/l	# 52
9) Trichlorotrifluoroethane	2.111	101	32824	3.80	ug/l	87
10) Acrolein	2.325	56	8246	21.82	ug/l	91
11) Acetone	2.524	43	3661	4.57	ug/l	# 66
12) Carbon Disulfide	2.111	76	65946	3.67	ug/l	97
13) Methylene Chloride	2.487	84	27168	4.29	ug/l	# 69
14) METHYLACETATE	2.602	43	5684	3.87	ug/l	# 73
15) Trans-1,2-Dichloroethene	2.592	96	28108	3.67	ug/l	# 73
16) Acrylonitrile	3.057	53	3095	4.03	ug/l	# 88
17) 1,1-Dichloroethane	3.015	63	66711	3.84	ug/l	99
18) Cis-1,2-Dichloroethene	3.371	96	30954	4.09	ug/l	# 77
19) Methyl Ethyl Ketone	3.769	43	5063	256.55	ug/l	95
20) Bromochloromethane	3.507	128	11832	4.15	ug/l	# 83
21) CYCLOHEXANE	3.502	56	59427	3.78	ug/l	# 79
22) Chloroform	3.554	83	62509	3.85	ug/l	100
24) 1,1,1-Trichloroethane	3.695	97	77457	3.79	ug/l	96
26) Methyl t-Butyl Ether (...)	2.670	73	52768	4.29	ug/l	# 88
27) Carbon Tetrachloride	3.648	117	56473	3.77	ug/l	100
28) Benzene	3.941	78	109161	3.93	ug/l	100
29) 1,2-Dichloroethane	4.082	62	41095	3.95	ug/l	# 85
30) METHYLCYCLOHEXANE	4.323	55	56254	3.94	ug/l	# 75
31) Trichloroethene	4.334	130	36389	3.92	ug/l	# 81
32) 1,2-dichloropropane	4.694	63	26451	3.99	ug/l	98
33) Bromodichloromethane	4.731	83	42074	3.97	ug/l	98
34) cis-1,3-Dichloropropene	5.170	75	38293	3.98	ug/l	99
35) 4-Methyl-2-Pentanone	5.610	43	11294	4.06	ug/l	# 90
37) Toluene	5.338	91	133267	3.90	ug/l	97
38) trans-1,3-Dichloropropene	5.636	75	32345	4.00	ug/l	98
39) 1,1,2-Trichloroethane	5.751	97	14575	4.08	ug/l	95
40) 1,2-Dibromoethane	6.054	107	14396	3.94	ug/l	96
42) Tetrachloroethene	5.610	164	30789	3.62	ug/l	# 91

Data Path : H:\V2015\CHEM17\03MAR\032315\
 Data File : 0323S15.D
 Acq On : 23 Mar 2015 3:27 pm
 Operator :
 Sample : VOA-4 PPB STD.
 Misc : ICAL 4.0
 ALS Vial : 1 Sample Multiplier: 1

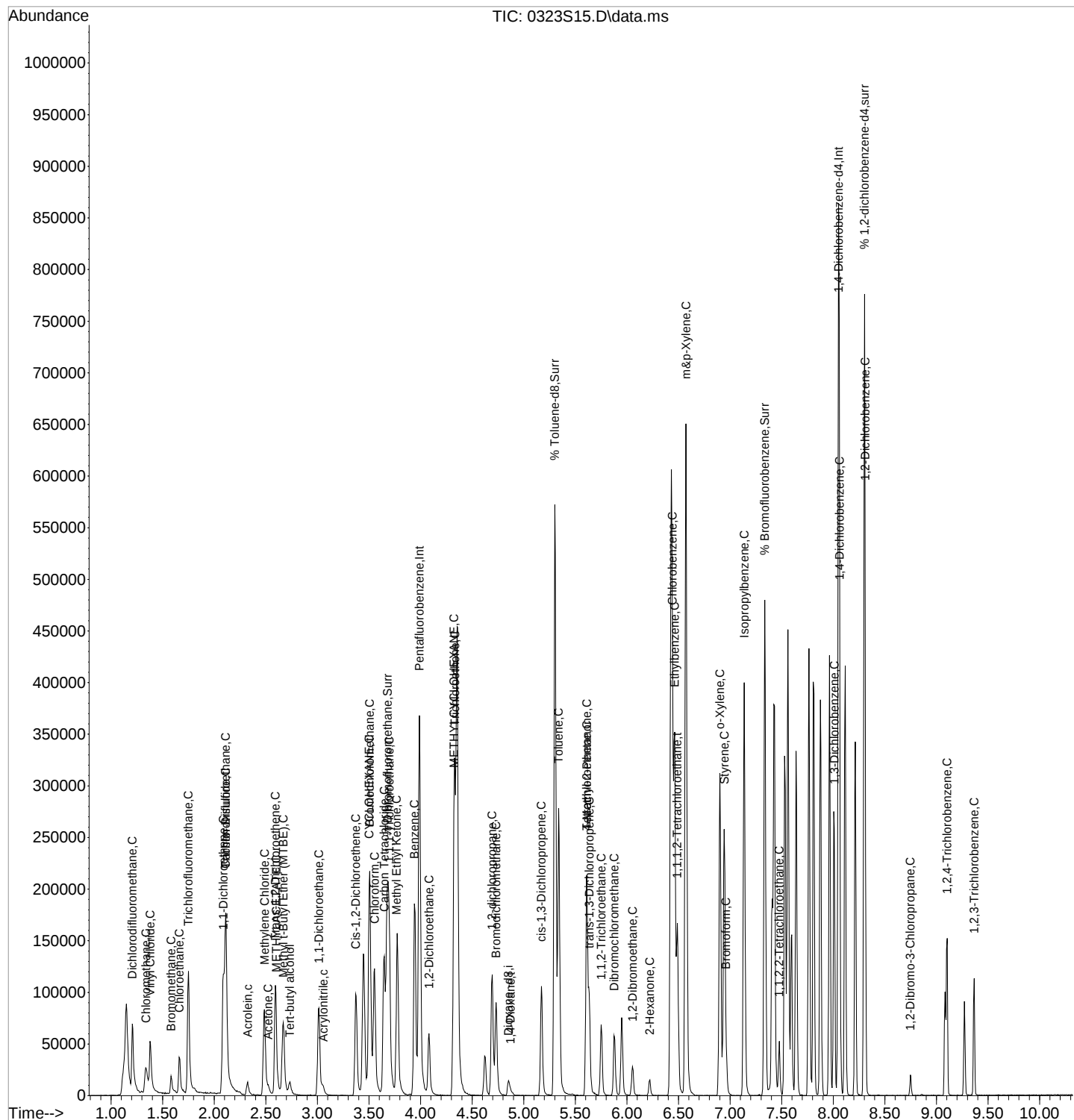
Quant Time: Mar 23 22:45:57 2015
 Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 23 22:44:52 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2-Hexanone	6.222	43	8218	4.19	ug/l #	88
44) Dibromochloromethane	5.876	129	23796	3.71	ug/l	99
45) Chlorobenzene	6.441	112	83092	3.79	ug/l	90
46) 1,1,1,2-Tetrachloroethane	6.488	131	31820	3.67	ug/l	94
47) Ethylbenzene	6.462	91	173283	3.79	ug/l	90
48) m&p-Xylene	6.572	106	122367	7.45	ug/l #	63
49) o-Xylene	6.902	106	57282	3.71	ug/l #	63
50) Styrene	6.943	104	81138	3.74	ug/l #	72
51) Bromoform	6.959	173	11831	3.89	ug/l #	98
55) Isopropylbenzene	7.137	105	178489	3.64	ug/l	93
56) 1,1,2,2-Tetrachloroethane	7.477	83	13118	3.89	ug/l	97
57) 1,3-Dichlorobenzene	8.010	146	66294	3.76	ug/l	96
58) 1,4-Dichlorobenzene	8.063	146	63750	3.74	ug/l #	93
59) 1,2-Dichlorobenzene	8.309	146	53332	3.80	ug/l #	92
60) 1,2-Dibromo-3-Chloropr...	8.748	75	3003	3.79	ug/l #	56
61) 1,2,4-Trichlorobenzene	9.104	180	25339	3.88	ug/l #	96
62) 1,2,3-Trichlorobenzene	9.365	180	17668	3.97	ug/l	95
64) 1,4-Dioxane	4.872	58	1232	85.48	ug/l	78
65) Tert-butyl alcohol	2.733	59	10083	39.30	ug/l	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032315\
Data File : 0323S15.D
Acq On : 23 Mar 2015 3:27 pm
Operator :
Sample : VOA-4 PPB STD.
Misc : ICAL 4.0
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 23 22:45:57 2015
Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 23 22:44:52 2015
Response via : Initial Calibration



Data Path : H:\V2015\CHEM17\03MAR\032315\
 Data File : 0323S16.D
 Acq On : 23 Mar 2015 3:50 pm
 Operator :
 Sample : VOA-10 PPB STD.
 Misc : ICAL 10
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 24 08:23:43 2015
 Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 23 22:44:52 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.988	168	162363	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	218784	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	182135	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	101794	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	6817	500.00	ug/l	# 0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.680	192	12762	10.00	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	100.00%		
36) % Toluene-d8	5.301	98	261837	10.00	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	100.00%		
52) % Bromofluorobenzene	7.336	95	98912	10.00	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	100.00%		
54) % 1,2-dichlorobenzene-d4	8.303	152	78508	10.00	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	100.00%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.206	85	103578	10.00	ug/l	99
3) Chloromethane	1.337	50	84977	10.00	ug/l	99
4) Vinyl Chloride	1.378	62	81052	10.00	ug/l	98
5) Bromomethane	1.582	94	23475	10.00	ug/l	93
6) Chloroethane	1.661	64	53000	10.00	ug/l	98
7) Trichlorofluoromethane	1.750	101	187346	10.00	ug/l	100
8) 1,1-Dichloroethene	2.090	96	72422	10.00	ug/l	# 58
9) Trichlorotrifluoroethane	2.111	101	81833	10.00	ug/l	# 88
10) Acrolein	2.320	56	17901	50.00	ug/l	85
11) Acetone	2.529	43	7590	10.00	ug/l	# 73
12) Carbon Disulfide	2.111	76	170156	10.00	ug/l	97
13) Methylene Chloride	2.487	84	59990	10.00	ug/l	# 70
14) METHYLACETATE	2.602	43	13930	10.00	ug/l	# 74
15) Trans-1,2-Dichloroethene	2.592	96	72612	10.00	ug/l	# 75
16) Acrylonitrile	3.052	53	7279	10.00	ug/l	# 93
17) 1,1-Dichloroethane	3.015	63	164822	10.00	ug/l	99
18) Cis-1,2-Dichloroethene	3.376	96	71770	10.00	ug/l	# 69
19) Methyl Ethyl Ketone	3.763	43	10968m	586.52	ug/l	
20) Bromochloromethane	3.507	128	27007	10.00	ug/l	# 78
21) CYCLOHEXANE	3.507	56	149126	10.00	ug/l	# 77
22) Chloroform	3.554	83	153733	10.00	ug/l	99
24) 1,1,1-Trichloroethane	3.695	97	193732	10.00	ug/l	97
26) Methyl t-Butyl Ether (...)	2.670	73	117643	10.00	ug/l	# 86
27) Carbon Tetrachloride	3.648	117	143242	10.00	ug/l	99
28) Benzene	3.941	78	265679	10.00	ug/l	100
29) 1,2-Dichloroethane	4.082	62	99444	10.00	ug/l	# 85
30) METHYLCYCLOHEXANE	4.323	55	136498	10.00	ug/l	# 75
31) Trichloroethene	4.333	130	88782	10.00	ug/l	# 87
32) 1,2-dichloropropane	4.694	63	63370	10.00	ug/l	100
33) Bromodichloromethane	4.731	83	101240	10.00	ug/l	97
34) cis-1,3-Dichloropropene	5.170	75	91933	10.00	ug/l	99
35) 4-Methyl-2-Pentanone	5.610	43	26558	10.00	ug/l	# 88
37) Toluene	5.338	91	326889	10.00	ug/l	99
38) trans-1,3-Dichloropropene	5.636	75	77267	10.00	ug/l	98
39) 1,1,2-Trichloroethane	5.751	97	34158	10.00	ug/l	95
40) 1,2-Dibromoethane	6.054	107	34907	10.00	ug/l	98
42) Tetrachloroethene	5.610	164	78999	10.00	ug/l	90

Data Path : H:\V2015\CHEM17\03MAR\032315\
 Data File : 0323S16.D
 Acq On : 23 Mar 2015 3:50 pm
 Operator :
 Sample : VOA-10 PPB STD.
 Misc : ICAL 10
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 24 08:23:43 2015
 Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 23 22:44:52 2015
 Response via : Initial Calibration

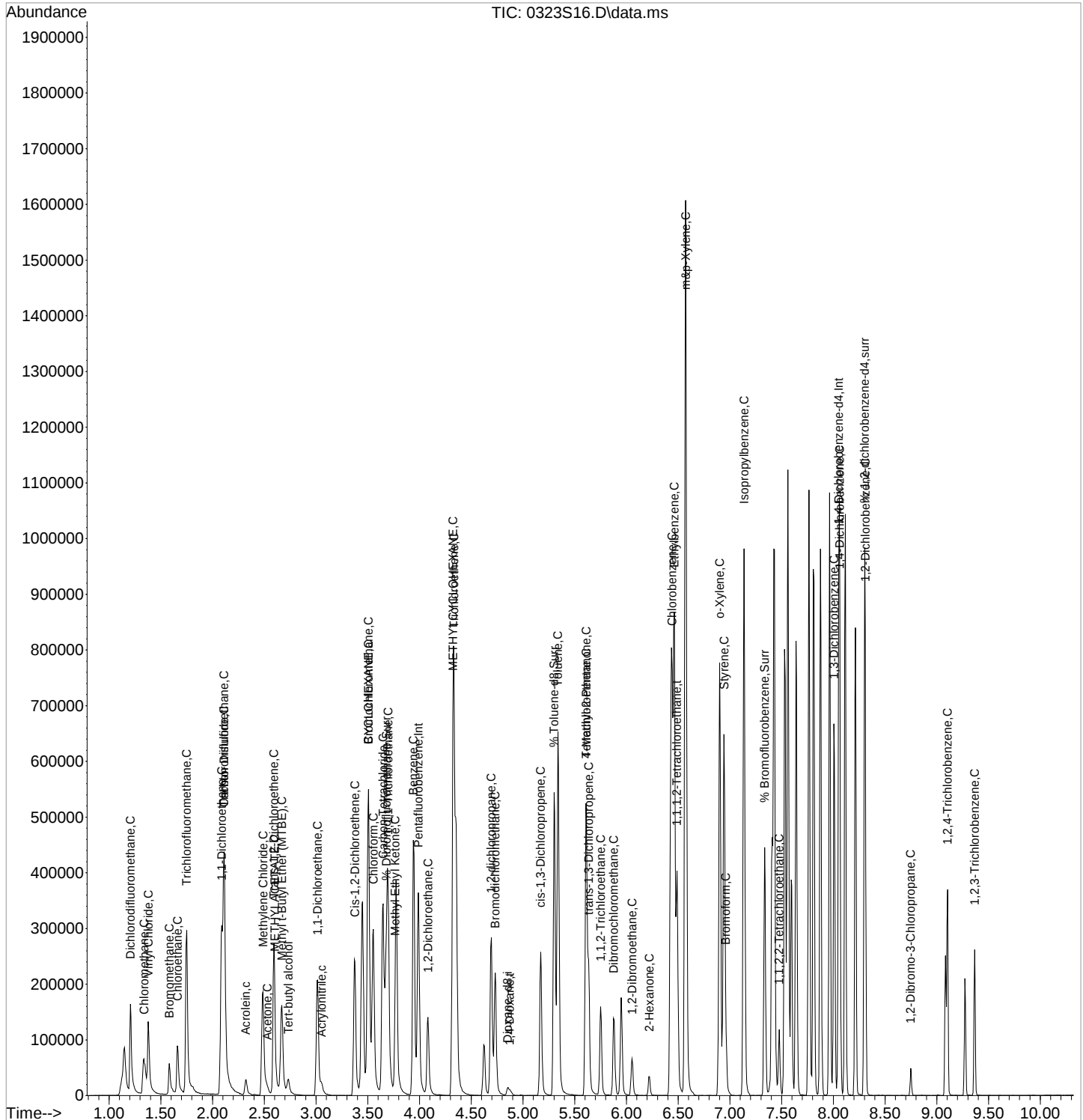
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2-Hexanone	6.222	43	18224	10.00	ug/l #	86
44) Dibromochloromethane	5.876	129	59573	10.00	ug/l	97
45) Chlorobenzene	6.441	112	203765	10.00	ug/l	87
46) 1,1,1,2-Tetrachloroethane	6.488	131	80394	10.00	ug/l	94
47) Ethylbenzene	6.462	91	424468	10.00	ug/l	91
48) m&p-Xylene	6.572	106	305017	20.00	ug/l #	65
49) o-Xylene	6.902	106	143237	10.00	ug/l #	65
50) Styrene	6.943	104	201481	10.00	ug/l #	73
51) Bromoform	6.959	173	28239	10.00	ug/l #	96
55) Isopropylbenzene	7.137	105	444756	10.00	ug/l	94
56) 1,1,2,2-Tetrachloroethane	7.477	83	30626	10.00	ug/l #	98
57) 1,3-Dichlorobenzene	8.005	146	160114	10.00	ug/l #	95
58) 1,4-Dichlorobenzene	8.063	146	154580	10.00	ug/l #	95
59) 1,2-Dichlorobenzene	8.309	146	127350	10.00	ug/l #	95
60) 1,2-Dibromo-3-Chloropr...	8.748	75	7189	10.00	ug/l #	58
61) 1,2,4-Trichlorobenzene	9.104	180	59318	10.00	ug/l #	96
62) 1,2,3-Trichlorobenzene	9.365	180	40339	10.00	ug/l	96
64) 1,4-Dioxane	4.872	58	2505	200.00	ug/l	90
65) Tert-butyl alcohol	2.733	59	22298	100.00	ug/l	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : H:\V2015\CHEM17\03MAR\032315\
Data File : 0323S16.D
Acq On : 23 Mar 2015 3:50 pm
Operator :
Sample : VOA-10 PPB STD.
Misc : ICAL 10
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 24 08:23:43 2015
Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 23 22:44:52 2015
Response via : Initial Calibration



Data Path : H:\V2015\CHEM17\03MAR\032315\
 Data File : 0323S17.D
 Acq On : 23 Mar 2015 4:13 pm
 Operator :
 Sample : VOA-20 PPB STD.
 Misc : ICAL 20
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 24 08:24:35 2015
 Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 23 22:44:52 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.988	168	167217	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	224500	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	184604	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	105568	10.00	ug/l	# 0.00
63) Dioxane -d8	4.857	96	7207	500.00	ug/l	0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.674	192	13233	10.07	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 100.70%			
36) % Toluene-d8	5.301	98	270314	10.06	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 100.60%			
52) % Bromofluorobenzene	7.336	95	101717	10.15	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 101.50%			
54) % 1,2-dichlorobenzene-d4	8.303	152	82105	10.08	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 100.80%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.206	85	186560	17.49	ug/l	99
3) Chloromethane	1.337	50	156700	17.90	ug/l	98
4) Vinyl Chloride	1.378	62	146002	17.49	ug/l	98
5) Bromomethane	1.582	94	59199	24.49	ug/l	98
6) Chloroethane	1.661	64	97915	17.94	ug/l	98
7) Trichlorofluoromethane	1.750	101	341159	17.68	ug/l	99
8) 1,1-Dichloroethene	2.084	96	134744	18.07	ug/l	# 60
9) Trichlorotrifluoroethane	2.111	101	147457	17.50	ug/l	# 88
10) Acrolein	2.325	56	35297	95.73	ug/l	89
11) Acetone	2.524	43	13553	17.34	ug/l	# 72
12) Carbon Disulfide	2.111	76	305338	17.42	ug/l	98
13) Methylene Chloride	2.487	84	109298	17.69	ug/l	# 72
14) METHYLACETATE	2.602	43	26322	18.35	ug/l	# 77
15) Trans-1,2-Dichloroethene	2.592	96	132691	17.74	ug/l	# 76
16) Acrylonitrile	3.052	53	13367	17.83	ug/l	# 88
17) 1,1-Dichloroethane	3.010	63	306040	18.03	ug/l	98
18) Cis-1,2-Dichloroethene	3.371	96	132353	17.91	ug/l	# 70
19) Methyl Ethyl Ketone	3.763	43	20130	1045.22	ug/l	87
20) Bromochloromethane	3.507	128	51457	18.50	ug/l	# 81
21) CYCLOHEXANE	3.507	56	268683	17.49	ug/l	# 87
22) Chloroform	3.554	83	290362	18.34	ug/l	99
24) 1,1,1-Trichloroethane	3.695	97	350330	17.56	ug/l	97
26) Methyl t-Butyl Ether (...)	2.665	73	225201	18.66	ug/l	# 88
27) Carbon Tetrachloride	3.648	117	258501	17.59	ug/l	99
28) Benzene	3.941	78	495161	18.16	ug/l	100
29) 1,2-Dichloroethane	4.082	62	186087	18.24	ug/l	# 85
30) METHYLCYCLOHEXANE	4.328	55	243611	17.39	ug/l	# 74
31) Trichloroethene	4.333	130	166222	18.25	ug/l	89
32) 1,2-dichloropropane	4.694	63	117511	18.07	ug/l	100
33) Bromodichloromethane	4.731	83	194147	18.69	ug/l	98
34) cis-1,3-Dichloropropene	5.170	75	176870	18.75	ug/l	100
35) 4-Methyl-2-Pentanone	5.610	43	50569	18.56	ug/l	# 90
37) Toluene	5.338	91	608061	18.13	ug/l	99
38) trans-1,3-Dichloropropene	5.636	75	145522	18.35	ug/l	100
39) 1,1,2-Trichloroethane	5.751	97	65614	18.72	ug/l	97
40) 1,2-Dibromoethane	6.054	107	67320	18.79	ug/l	92
42) Tetrachloroethene	5.610	164	143576	17.93	ug/l	91

Data Path : H:\V2015\CHEM17\03MAR\032315\
 Data File : 0323S17.D
 Acq On : 23 Mar 2015 4:13 pm
 Operator :
 Sample : VOA-20 PPB STD.
 Misc : ICAL 20
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 24 08:24:35 2015
 Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 23 22:44:52 2015
 Response via : Initial Calibration

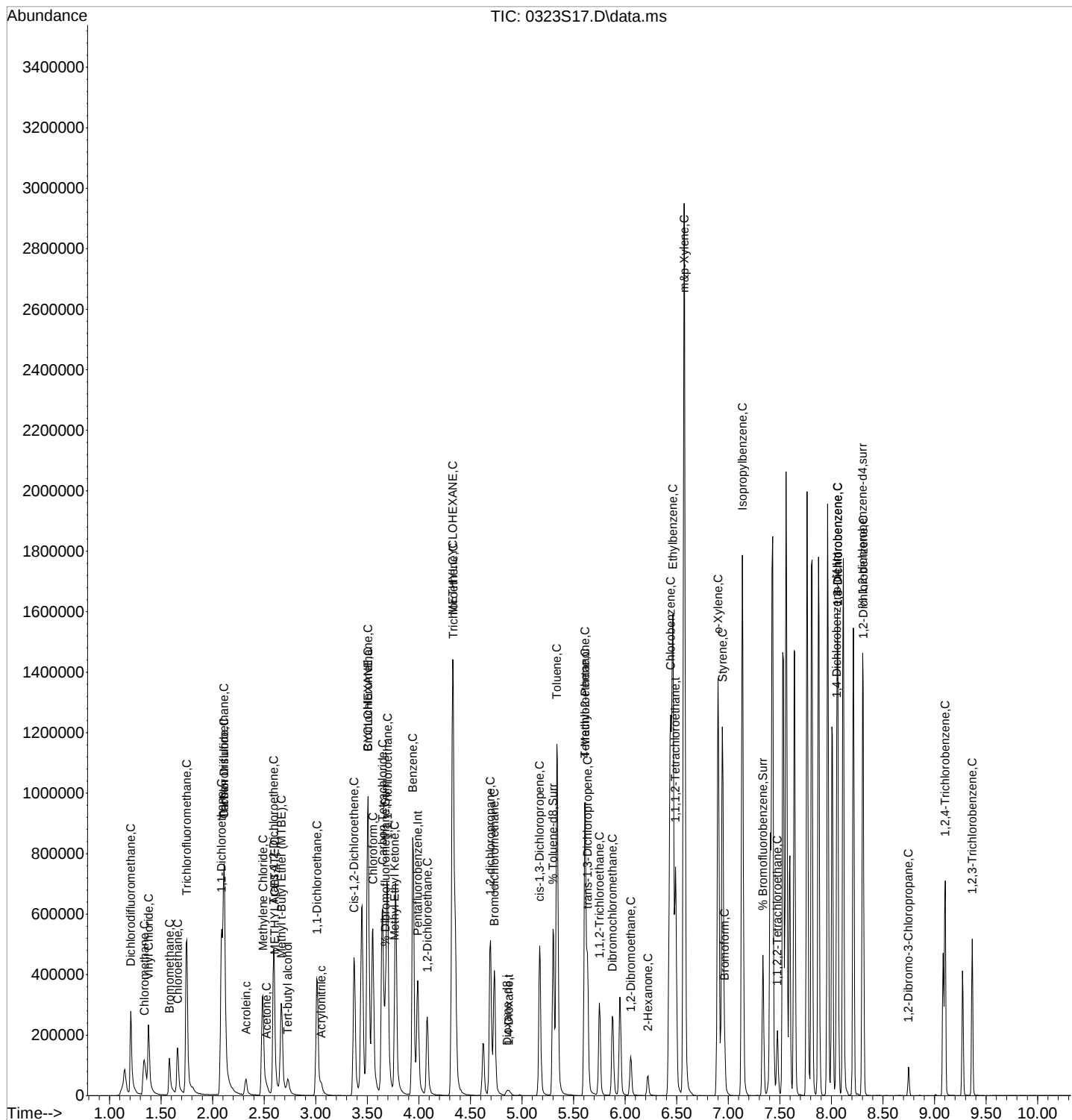
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2-Hexanone	6.222	43	35641	19.30	ug/l #	86
44) Dibromochloromethane	5.876	129	108951	18.04	ug/l	98
45) Chlorobenzene	6.441	112	384419	18.61	ug/l	91
46) 1,1,1,2-Tetrachloroethane	6.488	131	149062	18.29	ug/l	95
47) Ethylbenzene	6.462	91	778207	18.09	ug/l	92
48) m&p-Xylene	6.572	106	567635	36.72	ug/l #	68
49) o-Xylene	6.902	106	263779	18.17	ug/l #	68
50) Styrene	6.943	104	404537m	19.81	ug/l	
51) Bromoform	6.964	173	56472	19.73	ug/l #	95
55) Isopropylbenzene	7.137	105	815382	17.68	ug/l	94
56) 1,1,2,2-Tetrachloroethane	7.477	83	57448	18.09	ug/l	99
57) 1,3-Dichlorobenzene	8.063	146	289925	17.46	ug/l	95
58) 1,4-Dichlorobenzene	8.063	146	289925	18.09	ug/l #	94
59) 1,2-Dichlorobenzene	8.308	146	242177	18.34	ug/l #	94
60) 1,2-Dibromo-3-Chloropr...	8.748	75	13882	18.62	ug/l #	60
61) 1,2,4-Trichlorobenzene	9.103	180	114833	18.67	ug/l #	96
62) 1,2,3-Trichlorobenzene	9.365	180	80924	19.34	ug/l	96
64) 1,4-Dioxane	4.872	58	5123	386.89	ug/l	80
65) Tert-butyl alcohol	2.728	59	41778	177.22	ug/l #	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : H:\V2015\CHEM17\03MAR\032315\
Data File : 0323S17.D
Acq On : 23 Mar 2015 4:13 pm
Operator :
Sample : VOA-20 PPB STD.
Misc : ICAL 20
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 24 08:24:35 2015
Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 23 22:44:52 2015
Response via : Initial Calibration



Data Path : H:\V2015\CHEM17\03MAR\032315\
 Data File : 0323S18.D
 Acq On : 23 Mar 2015 4:36 pm
 Operator :
 Sample : VOA-30 PPB STD.
 Misc : ICAL 30
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 23 22:46:21 2015
 Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 23 22:44:52 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.988	168	161526	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	218672	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	187850	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	109545	10.00	ug/l	# 0.00
63) Dioxane -d8	4.856	96	7126	500.00	ug/l	# 0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.680	192	13449	10.59	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	= 105.90%		
36) % Toluene-d8	5.301	98	267716	10.23	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	= 102.30%		
52) % Bromofluorobenzene	7.336	95	103277	10.12	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	= 101.20%		
54) % 1,2-dichlorobenzene-d4	8.303	152	82326	9.74	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	= 97.40%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.206	85	307237	29.82	ug/l	99
3) Chloromethane	1.336	50	247766	29.31	ug/l	99
4) Vinyl Chloride	1.378	62	236431	29.32	ug/l	99
5) Bromomethane	1.582	94	108390	46.41	ug/l	100
6) Chloroethane	1.655	64	160628	30.46	ug/l	99
7) Trichlorofluoromethane	1.744	101	552222	29.63	ug/l	99
8) 1,1-Dichloroethene	2.084	96	218209	30.29	ug/l	# 59
9) Trichlorotrifluoroethane	2.111	101	242167	29.75	ug/l	# 88
10) Acrolein	2.320	56	58014	162.88	ug/l	93
11) Acetone	2.524	43	22088	29.25	ug/l	# 72
12) Carbon Disulfide	2.111	76	489660	28.93	ug/l	98
13) Methylene Chloride	2.482	84	174167	29.18	ug/l	# 71
14) METHYLACETATE	2.602	43	41895	30.23	ug/l	# 77
15) Trans-1,2-Dichloroethene	2.592	96	210739	29.17	ug/l	# 77
16) Acrylonitrile	3.052	53	22052	30.45	ug/l	# 85
17) 1,1-Dichloroethane	3.010	63	481759	29.38	ug/l	99
18) Cis-1,2-Dichloroethene	3.371	96	212301	29.73	ug/l	# 70
19) Methyl Ethyl Ketone	3.763	43	32723	1758.96	ug/l	85
20) Bromochloromethane	3.507	128	83270	30.99	ug/l	# 82
21) CYCLOHEXANE	3.507	56	436661	29.43	ug/l	# 87
22) Chloroform	3.549	83	455236	29.77	ug/l	99
24) 1,1,1-Trichloroethane	3.695	97	564341	29.28	ug/l	97
26) Methyl t-Butyl Ether (...)	2.665	73	366273	31.15	ug/l	# 88
27) Carbon Tetrachloride	3.643	117	419742	29.32	ug/l	98
28) Benzene	3.941	78	791711	29.81	ug/l	100
29) 1,2-Dichloroethane	4.082	62	299563	30.14	ug/l	# 85
30) METHYLCYCLOHEXANE	4.328	55	401862	29.46	ug/l	# 75
31) Trichloroethene	4.333	130	266954	30.08	ug/l	90
32) 1,2-dichloropropane	4.694	63	190102	30.01	ug/l	99
33) Bromodichloromethane	4.731	83	315597	31.19	ug/l	98
34) cis-1,3-Dichloropropene	5.170	75	288911	31.44	ug/l	99
35) 4-Methyl-2-Pentanone	5.610	43	85960	32.38	ug/l	# 89
37) Toluene	5.338	91	981007	30.03	ug/l	98
38) trans-1,3-Dichloropropene	5.636	75	243487	31.53	ug/l	98
39) 1,1,2-Trichloroethane	5.751	97	107180	31.39	ug/l	94
40) 1,2-Dibromoethane	6.054	107	109859	31.49	ug/l	96
42) Tetrachloroethene	5.610	164	237369	29.13	ug/l	91

Data Path : H:\V2015\CHEM17\03MAR\032315\
 Data File : 0323S18.D
 Acq On : 23 Mar 2015 4:36 pm
 Operator :
 Sample : VOA-30 PPB STD.
 Misc : ICAL 30
 ALS Vial : 1 Sample Multiplier: 1

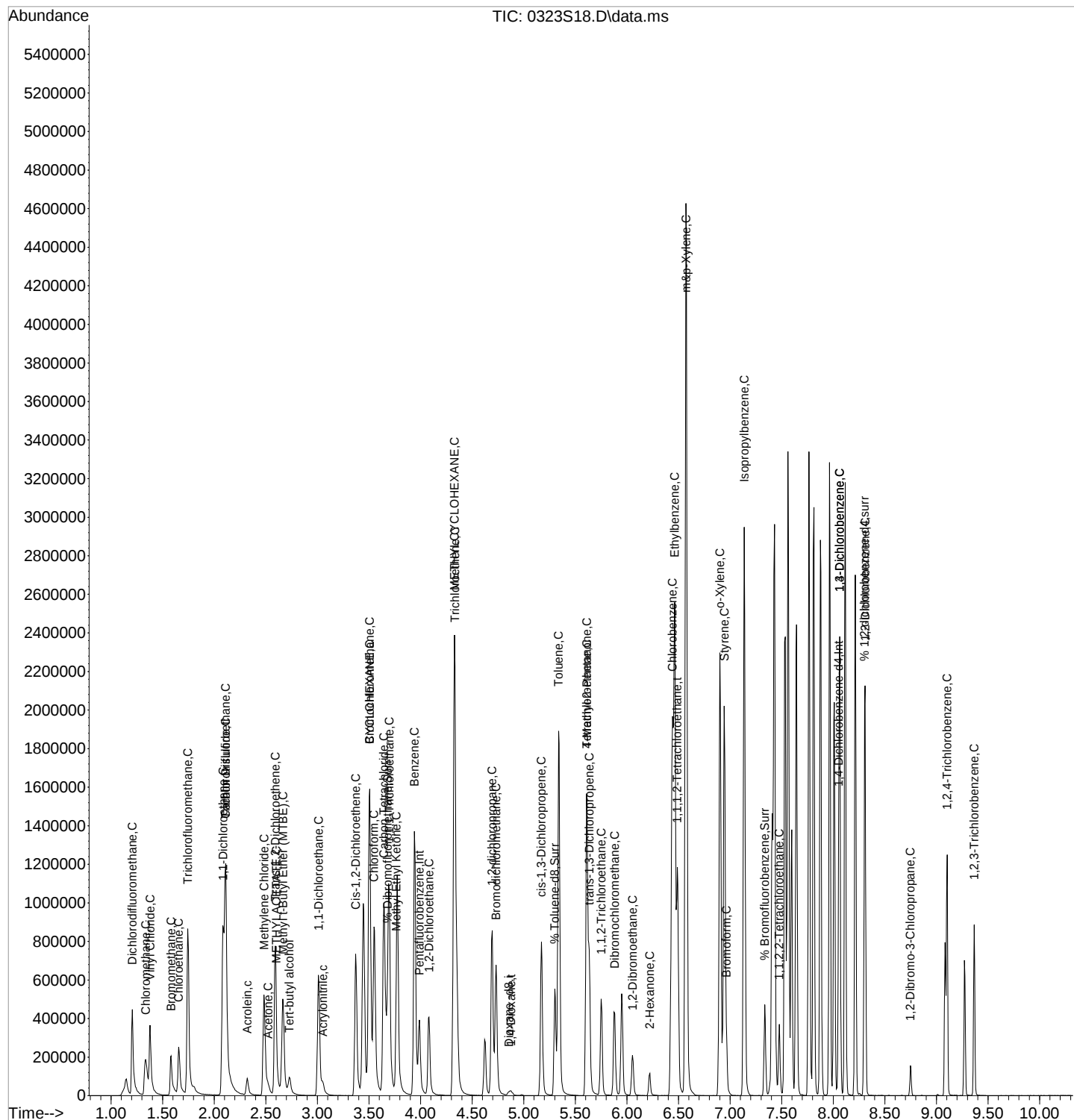
Quant Time: Mar 23 22:46:21 2015
 Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 23 22:44:52 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2-Hexanone	6.221	43	60017	31.93	ug/l #	88
44) Dibromochloromethane	5.882	129	183787	29.91	ug/l	100
45) Chlorobenzene	6.441	112	622540	29.62	ug/l	89
46) 1,1,1,2-Tetrachloroethane	6.488	131	244328	29.47	ug/l	95
47) Ethylbenzene	6.462	91	1244986	28.44	ug/l	92
48) m&p-Xylene	6.572	106	914667	58.15	ug/l #	71
49) o-Xylene	6.901	106	434721	29.43	ug/l #	68
50) Styrene	6.943	104	616646	29.67	ug/l #	74
51) Bromoform	6.964	173	95878	32.92	ug/l #	97
55) Isopropylbenzene	7.137	105	1309363	27.36	ug/l	94
56) 1,1,2,2-Tetrachloroethane	7.477	83	97672	29.64	ug/l	98
57) 1,3-Dichlorobenzene	8.063	146	483729	28.07	ug/l	96
58) 1,4-Dichlorobenzene	8.063	146	483729	29.08	ug/l #	95
59) 1,2-Dichlorobenzene	8.308	146	394700	28.80	ug/l #	95
60) 1,2-Dibromo-3-Chloropr...	8.748	75	23361	30.20	ug/l #	59
61) 1,2,4-Trichlorobenzene	9.103	180	199661	31.28	ug/l #	96
62) 1,2,3-Trichlorobenzene	9.365	180	136016	31.33	ug/l	96
64) 1,4-Dioxane	4.877	58	8029	613.24	ug/l	82
65) Tert-butyl alcohol	2.728	59	72631	311.60	ug/l	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032315\
Data File : 0323S18.D
Acq On : 23 Mar 2015 4:36 pm
Operator :
Sample : VOA-30 PPB STD.
Misc : ICAI 30
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 23 22:46:21 2015
Quant Method : H:\V2015\CHEM17\METHODS\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 23 22:44:52 2015
Response via : Initial Calibration



7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AESHAUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBH86681

Instrument: CHEM17 Calibration Date: 03/24/15 Time: 09:42

Lab File Id: 0324S03.D Init. Calib. Date(s): 03/23/15 03/23/15

Heated Purge (Y/N): Y Init. Calib. Times: 14:41 16:36

GC Column: rtx-vms

COMPOUND	RRF	RRF10	RRF MIN	%D	MAX %D
Dichlorodifluoromethane	0.571	0.416	0.010	27.1	40
Chloromethane	0.465	0.421	0.100	9.5	40
Vinyl Chloride	0.435	0.355	0.100	18.6	25
Bromomethane	0.118	0.118	0.100	0.2	25
Chloroethane	0.302	0.262	0.010	13.5	40
Trichlorofluoromethane	1.038	0.854	0.010	17.7	40
1,1-Dichloroethene	0.401	0.340	0.100	15.1	25
Trichlorotrifluoroethane	0.457	0.373		18.4	
Acetone	0.049	0.045	0.010	8.7	40
Carbon Disulfide	0.941	0.814	0.010	13.5	40
METHYLACETATE	0.085	0.078		8.7	
Methylene Chloride	0.441	0.308	0.010	30.3	40
Trans-1,2-Dichloroethene	0.404	0.359	0.010	11.1	40
1,1-Dichloroethane	0.937	0.853	0.200	9.0	25
Cis-1,2-Dichloroethene	0.409	0.370	0.010	9.4	40
Methyl Ethyl Ketone	0.066	0.059	0.010	10.7	40
Bromochloromethane	0.158	0.147	0.050	7.3	25
CYCLOHEXANE	0.829	0.680		18.0	
Chloroform	0.897	0.837	0.200	6.7	25
1,1,1-Trichloroethane	1.080	0.952	0.100	11.8	25
Methyl t-Butyl Ether (MTBE)	0.524	0.492	0.010	6.2	40
Carbon Tetrachloride	0.585	0.490	0.100	16.3	25
Benzene	1.135	1.002	0.400	11.7	25
1,2-Dichloroethane	0.427	0.396	0.100	7.3	25
METHYLCYCLOHEXANE	0.586	0.456		22.3	
Trichloroethene	0.378	0.321	0.300	15.1	25
1,2-dichloropropane	0.272	0.246	0.010	9.4	40
Bromodichloromethane	0.436	0.408	0.200	6.6	25
cis-1,3-Dichloropropene	0.396	0.365	0.200	7.8	25
4-Methyl-2-Pentanone	0.117	0.114	0.010	3.2	40
Toluene	1.390	1.216	0.400	12.5	25
1,2-Dibromoethane	0.151	0.140		7.8	
trans-1,3-Dichloropropene	0.331	0.307	0.100	7.5	25
1,1,2-Trichloroethane	0.150	0.141	0.100	6.5	25
Tetrachloroethene	0.390	0.325	0.100	16.5	25
2-Hexanone	0.097	0.094	0.010	3.4	40

* Minimum RRF not met for this compound.

7B

Lab Name:	Phoenix Environmental Labs		Client:	AESHAUP	
Lab Code:	Phoenix	Case No.:		SAS No.:	
				SDG No.:	GBH86681
Instrument:	CHEM17	Calibration Date:	03/24/15	Time:	09:42
Lab File Id:	0324S03.D	Init. Calib. Date(s):	03/23/15		03/23/15
Heated Purge (Y/N):	Y	Init. Calib. Times:	14:41		16:36
GC Column:	rtx-vms				

* Minimum RRF not met for this compound.

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S03.D
 Acq On : 24 Mar 2015 9:42 am
 Operator :
 Sample : VOA-10 PPB STD.
 Misc : CCAL 10
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 24 11:10:15 2015
 Quant Title :
 QLast Update : Tue Apr 07 08:10:13 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.988	168	149444	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	206717	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	174854	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	101237	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	7130	500.00	ug/l	# 0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.680	192	12320	10.33	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	103.30%		
36) % Toluene-d8	5.301	98	246563	9.88	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	98.80%		
52) % Bromofluorobenzene	7.336	95	97309	10.15	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	101.50%		
54) % 1,2-dichlorobenzene-d4	8.303	152	77229	9.94	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	99.40%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.206	85	62147	7.29	ug/l	98
3) Chloromethane	1.336	50	62847	9.05	ug/l	98
4) Vinyl Chloride	1.378	62	52978	8.14	ug/l	97
5) Bromomethane	1.582	94	17598	9.98	ug/l	92
6) Chloroethane	1.661	64	39083	8.65	ug/l	100
7) Trichlorofluoromethane	1.750	101	127667	8.23	ug/l	100
8) 1,1-Dichloroethene	2.090	96	50868	8.49	ug/l	# 55
9) Trichlorotrifluoroethane	2.111	101	55772	8.16	ug/l	89
10) Acrolein	2.320	56	16316	49.54	ug/l	97
11) Acetone	2.529	43	6711	9.12	ug/l	# 65
12) Carbon Disulfide	2.111	76	121680	8.65	ug/l	98
13) Methylene Chloride	2.487	84	45947	6.97	ug/l	# 69
14) METHYLACETATE	2.602	43	11585	9.13	ug/l	# 76
15) Trans-1,2-Dichloroethene	2.592	96	53668	8.89	ug/l	# 74
16) Acrylonitrile	3.057	53	5540	9.40	ug/l	# 81
17) 1,1-Dichloroethane	3.015	63	127427	9.10	ug/l	99
18) Cis-1,2-Dichloroethene	3.371	96	55361	9.06	ug/l	# 69
19) Methyl Ethyl Ketone	3.763	43	8776	8.93	ug/l	87
20) Bromochloromethane	3.507	128	21900	9.27	ug/l	# 77
21) CYCLOHEXANE	3.507	56	101586	8.20	ug/l	# 78
22) Chloroform	3.554	83	125139	9.33	ug/l	97
24) 1,1,1-Trichloroethane	3.695	97	142324	8.82	ug/l	97
26) Methyl t-Butyl Ether (...)	2.670	73	101632	9.38	ug/l	# 87
27) Carbon Tetrachloride	3.648	117	101222	8.37	ug/l	98
28) Benzene	3.941	78	207211	8.83	ug/l	100
29) 1,2-Dichloroethane	4.082	62	81867	9.27	ug/l	# 85
30) METHYLCYCLOHEXANE	4.323	55	94174	7.77	ug/l	# 74
31) Trichloroethene	4.333	130	66369	8.49	ug/l	# 85
32) 1,2-dichloropropane	4.694	63	50914	9.06	ug/l	99
33) Bromodichloromethane	4.731	83	84306	9.35	ug/l	98
34) cis-1,3-Dichloropropene	5.170	75	75446	9.22	ug/l	98
35) 4-Methyl-2-Pentanone	5.610	43	23453	9.68	ug/l	# 86
37) Toluene	5.338	91	251453	8.75	ug/l	98
38) trans-1,3-Dichloropropene	5.636	75	63369	9.25	ug/l	95
39) 1,1,2-Trichloroethane	5.751	97	29066	9.35	ug/l	94
40) 1,2-Dibromoethane	6.054	107	28862	9.23	ug/l	99
42) Tetrachloroethene	5.610	164	56904	8.35	ug/l	90
43) 2-Hexanone	6.222	43	16413	9.65	ug/l	# 88

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S03.D
 Acq On : 24 Mar 2015 9:42 am
 Operator :
 Sample : VOA-10 PPB STD.
 Misc : CCAL 10
 ALS Vial : 1 Sample Multiplier: 1

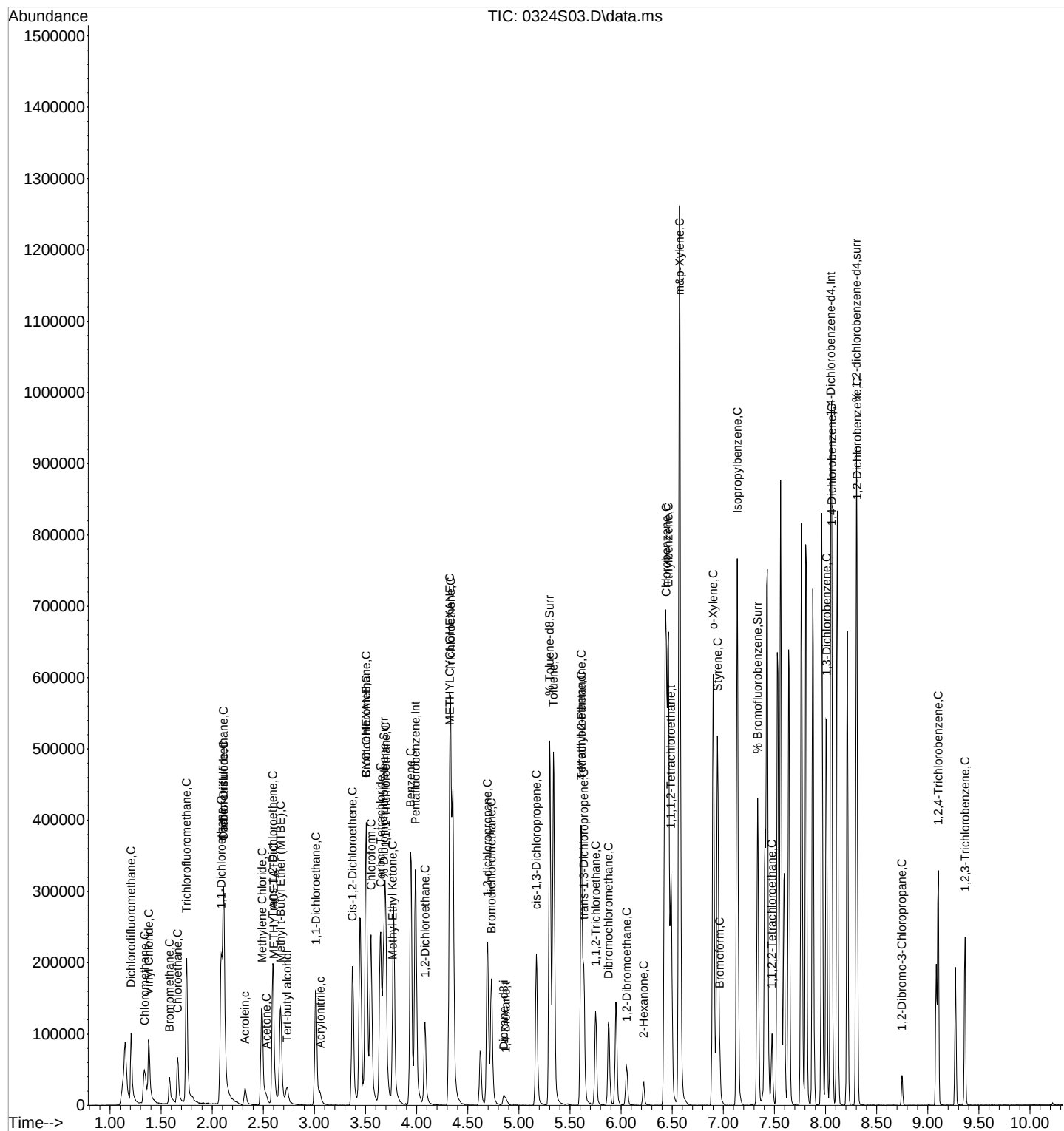
Quant Time: Mar 24 11:10:15 2015
 Quant Title :
 QLast Update : Tue Apr 07 08:10:13 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Dibromochloromethane	5.876	129	47241	9.27	ug/l	98
45) Chlorobenzene	6.441	112	161773	8.98	ug/l	88
46) 1,1,1,2-Tetrachloroethane	6.488	131	63942	9.31	ug/l	94
47) Ethylbenzene	6.462	91	325934	8.79	ug/l	91
48) m&p-Xylene	6.572	106	234991	17.68	ug/l #	63
49) o-Xylene	6.901	106	114207	9.17	ug/l #	69
50) Styrene	6.943	104	160554	8.95	ug/l #	73
51) Bromoform	6.964	173	23436	9.11	ug/l #	97
55) Isopropylbenzene	7.137	105	338207	8.64	ug/l	94
56) 1,1,2,2-Tetrachloroethane	7.477	83	26333	9.31	ug/l	98
57) 1,3-Dichlorobenzene	8.010	146	131028	9.22	ug/l #	94
58) 1,4-Dichlorobenzene	8.063	146	125788	9.06	ug/l #	94
59) 1,2-Dichlorobenzene	8.308	146	104346	8.97	ug/l #	95
60) 1,2-Dibromo-3-Chloropr...	8.748	75	6086	8.49	ug/l #	57
61) 1,2,4-Trichlorobenzene	9.103	180	51164	9.18	ug/l #	95
62) 1,2,3-Trichlorobenzene	9.365	180	36516	9.62	ug/l	94
64) 1,4-Dioxane	4.872	58	2379	179.73	ug/l	80
65) Tert-butyl alcohol	2.733	59	19330	90.03	ug/l #	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
Data File : 0324S03.D
Acq On : 24 Mar 2015 9:42 am
Operator :
Sample : VOA-10 PPB STD.
Misc : CCAL 10
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 24 11:10:15 2015
Quant Title :
QLast Update : Tue Apr 07 08:10:13 2015
Response via : Initial Calibration



7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: AESHAUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBH86681

Instrument: CHEM17 Calibration Date: 03/24/15 Time: 16:00

Lab File Id: 0324S19.D Init. Calib. Date(s): 03/23/15 03/23/15

Heated Purge (Y/N): Y Init. Calib. Times: 14:41 16:36

GC Column: rtx-vms

COMPOUND	RRF	RRF10	RRF MIN	%D	MAX %D
Dichlorodifluoromethane	0.571	0.478	0.010	16.2	50
Chloromethane	0.465	0.424	0.010	8.7	50
Vinyl Chloride	0.435	0.391	0.010	10.1	50
Bromomethane	0.118	0.130	0.010	-9.8	50
Chloroethane	0.302	0.258	0.010	14.6	50
Trichlorofluoromethane	1.038	0.965	0.010	7.0	50
1,1-Dichloroethene	0.401	0.376	0.010	6.4	50
Trichlorotrifluoroethane	0.457	0.417	0.010	8.8	50
Acetone	0.049	0.042	0.010	14.0	50
Carbon Disulfide	0.941	0.848	0.010	9.9	50
METHYLACETATE	0.085	0.075	0.010	11.4	50
Methylene Chloride	0.441	0.294	0.010	33.3	50
Trans-1,2-Dichloroethene	0.404	0.366	0.010	9.4	50
1,1-Dichloroethane	0.937	0.861	0.010	8.1	50
Cis-1,2-Dichloroethene	0.409	0.371	0.010	9.2	50
Methyl Ethyl Ketone	0.066	0.061	0.010	7.7	50
Bromochloromethane	0.158	0.149	0.010	5.8	50
CYCLOHEXANE	0.829	0.734	0.010	11.4	50
Chloroform	0.897	0.837	0.010	6.8	50
1,1,1-Trichloroethane	1.080	1.012	0.010	6.3	50
Methyl t-Butyl Ether (MTBE)	0.524	0.471	0.010	10.2	50
Carbon Tetrachloride	0.585	0.526	0.010	10.1	50
Benzene	1.135	1.004	0.010	11.6	50
1,2-Dichloroethane	0.427	0.402	0.010	5.8	50
METHYLCYCLOHEXANE	0.586	0.502	0.010	14.4	50
Trichloroethene	0.378	0.336	0.010	11.2	50
1,2-dichloropropane	0.272	0.240	0.010	11.5	50
Bromodichloromethane	0.436	0.398	0.010	8.8	50
cis-1,3-Dichloropropene	0.396	0.349	0.010	11.9	50
4-Methyl-2-Pentanone	0.117	0.104	0.010	11.3	50
Toluene	1.390	1.225	0.010	11.8	50
1,2-Dibromoethane	0.151	0.132	0.010	13.0	50
trans-1,3-Dichloropropene	0.331	0.288	0.010	13.2	50
1,1,2-Trichloroethane	0.150	0.128	0.010	15.0	50
Tetrachloroethene	0.390	0.349	0.010	10.4	50
2-Hexanone	0.097	0.088	0.010	9.8	50

* Minimum RRF not met for this compound.

7B

Lab Name: Phoenix Environmental Labs

Client: AESHAUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBH86681

Instrument: CHEM17 Calibration Date: 03/24/15 Time: 16:00

Lab File Id: 0324S19.D Init. Calib. Date(s): 03/23/15 03/23/15

Heated Purge (Y/N):	Y	Init. Calib. Times:	14:41	16:36
---------------------	---	---------------------	-------	-------

GC Column: rtx-vms

[illegible]

* Minimum RRF not met for this compound.

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S19.D
 Acq On : 24 Mar 2015 4:00 pm
 Operator :
 Sample : VOA-10 PPB STD.
 Misc : CCCAL 10
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 11:10:29 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.988	168	145300	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	202158	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	167869	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	94038	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	7023	500.00	ug/l	# 0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.675	192	11533	9.94	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	= 99.40%		
36) % Toluene-d8	5.301	98	244431	10.02	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	= 100.20%		
52) % Bromofluorobenzene	7.336	95	91934	9.99	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	= 99.90%		
54) % 1,2-dichlorobenzene-d4	8.303	152	73640	10.21	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery	= 102.10%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.206	85	69474	8.38	ug/l	99
3) Chloromethane	1.337	50	61632	9.13	ug/l	99
4) Vinyl Chloride	1.378	62	56841	8.99	ug/l	100
5) Bromomethane	1.582	94	18816	10.98	ug/l	96
6) Chloroethane	1.661	64	37510	8.54	ug/l	98
7) Trichlorofluoromethane	1.750	101	140236	9.30	ug/l	99
8) 1,1-Dichloroethene	2.090	96	54561	9.36	ug/l	# 58
9) Trichlorotrifluoroethane	2.111	101	60576	9.12	ug/l	# 89
10) Acrolein	2.325	56	13699	42.78	ug/l	86
11) Acetone	2.524	43	6140	8.59	ug/l	# 73
12) Carbon Disulfide	2.111	76	123149	9.01	ug/l	97
13) Methylene Chloride	2.487	84	42737	6.67	ug/l	# 68
14) METHYLACETATE	2.602	43	10933	8.86	ug/l	# 77
15) Trans-1,2-Dichloroethene	2.592	96	53187	9.06	ug/l	# 74
16) Acrylonitrile	3.052	53	5536	9.66	ug/l	# 84
17) 1,1-Dichloroethane	3.015	63	125097	9.19	ug/l	98
18) Cis-1,2-Dichloroethene	3.371	96	53928	9.08	ug/l	# 67
19) Methyl Ethyl Ketone	3.763	43	8826	9.24	ug/l	89
20) Bromochloromethane	3.507	128	21635	9.42	ug/l	# 80
21) CYCLOHEXANE	3.507	56	106666	8.86	ug/l	# 78
22) Chloroform	3.554	83	121578	9.32	ug/l	95
24) 1,1,1-Trichloroethane	3.695	97	146979	9.37	ug/l	96
26) Methyl t-Butyl Ether (...)	2.670	73	95112	8.98	ug/l	# 87
27) Carbon Tetrachloride	3.648	117	106360	8.99	ug/l	100
28) Benzene	3.941	78	202857	8.84	ug/l	100
29) 1,2-Dichloroethane	4.082	62	81343	9.42	ug/l	# 84
30) METHYLCYCLOHEXANE	4.328	55	101415	8.56	ug/l	# 74
31) Trichloroethene	4.333	130	67911	8.88	ug/l	# 87
32) 1,2-dichloropropane	4.694	63	48601	8.85	ug/l	99
33) Bromodichloromethane	4.731	83	80422	9.12	ug/l	99
34) cis-1,3-Dichloropropene	5.170	75	70531	8.81	ug/l	96
35) 4-Methyl-2-Pentanone	5.610	43	21019	8.87	ug/l	# 87
37) Toluene	5.338	91	247677	8.82	ug/l	98
38) trans-1,3-Dichloropropene	5.636	75	58181	8.68	ug/l	97
39) 1,1,2-Trichloroethane	5.751	97	25830	8.49	ug/l	97
40) 1,2-Dibromoethane	6.054	107	26605	8.70	ug/l	93
42) Tetrachloroethene	5.610	164	58620	8.96	ug/l	91

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S19.D
 Acq On : 24 Mar 2015 4:00 pm
 Operator :
 Sample : VOA-10 PPB STD.
 Misc : CCCAL 10
 ALS Vial : 1 Sample Multiplier: 1

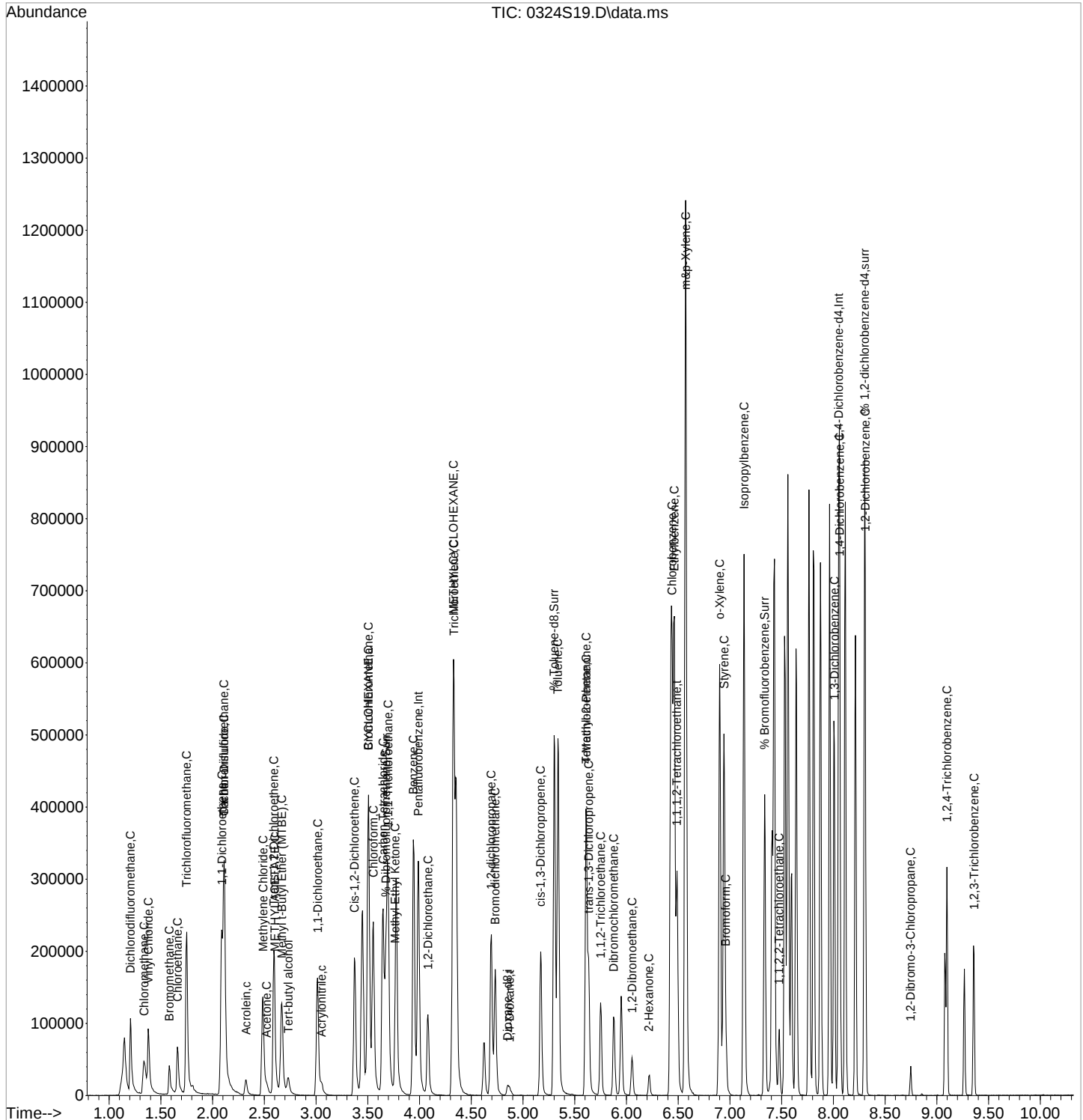
Quant Time: Mar 25 11:10:29 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2-Hexanone	6.216	43	14720	9.02	ug/l #	85
44) Dibromochloromethane	5.876	129	44918	9.18	ug/l	99
45) Chlorobenzene	6.441	112	156618	9.05	ug/l	89
46) 1,1,1,2-Tetrachloroethane	6.488	131	62302	9.45	ug/l #	92
47) Ethylbenzene	6.462	91	323919	9.09	ug/l	90
48) m&p-Xylene	6.572	106	231673	18.16	ug/l #	65
49) o-Xylene	6.902	106	107744	9.01	ug/l #	64
50) Styrene	6.943	104	153558	8.92	ug/l #	72
51) Bromoform	6.959	173	21689	8.78	ug/l #	97
55) Isopropylbenzene	7.137	105	332830	9.15	ug/l	93
56) 1,1,2,2-Tetrachloroethane	7.477	83	23993	9.13	ug/l	99
57) 1,3-Dichlorobenzene	8.010	146	124060	9.40	ug/l #	94
58) 1,4-Dichlorobenzene	8.063	146	118378	9.18	ug/l #	95
59) 1,2-Dichlorobenzene	8.308	146	97447	9.02	ug/l #	93
60) 1,2-Dibromo-3-Chloropr...	8.748	75	5658	8.50	ug/l #	56
61) 1,2,4-Trichlorobenzene	9.098	180	47926	9.26	ug/l #	96
62) 1,2,3-Trichlorobenzene	9.360	180	34098	9.67	ug/l	96
64) 1,4-Dioxane	4.872	58	2331	178.79	ug/l	83
65) Tert-butyl alcohol	2.733	59	16978	80.28	ug/l #	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
Data File : 0324S19.D
Acq On : 24 Mar 2015 4:00 pm
Operator :
Sample : VOA-10 PPB STD.
Misc : CCCAL 10
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 11:10:29 2015
Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Mar 24 08:24:49 2015
Response via : Initial Calibration



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

BH86681 LCS

Client: AESHAUP Lab: Phoenix Env. Labs

SDG No.: GBH86681 Lab Sample ID: BH86681 LCS

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0324S04.D

Level: (low/med/meth): Low Date Received: 03/23/15

% Moisture: n.a. Date Analyzed: 03/24/15

Instrument: CHEM17 Column: rtx-vms Dilution Factor: 1

Purge Volume 25000 (uL) pH: < 2 Soil Aliquot Vol: n.a. (uL)

Matrix: (soil/water) WATER CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONC.	Q	MDL/LOD	RL/PQL
75-71-8	Dichlorodifluoromethane	8.3		0.25	1.0
74-87-3	Chloromethane	9.4		0.25	2.0
75-01-4	Vinyl Chloride	9.5		0.25	1.0
74-83-9	Bromomethane	11		0.25	2.0
75-00-3	Chloroethane	9.1		0.25	2.0
75-69-4	Trichlorofluoromethane	8.7		0.25	1.0
75-35-4	1,1-Dichloroethene	10		0.25	1.0
76-13-1	Trichlorotrifluoroethane	8.8		0.25	1.0
67-64-1	Acetone	10		2.5	5.0
75-15-0	Carbon Disulfide	9.8		0.25	1.0
79-20-9	METHYLACETATE	9.7		2.5	2.5
75-09-2	Methylene Chloride	7.4		0.25	3.0
156-60-5	Trans-1,2-Dichloroethene	9.8		0.25	2.0
75-34-3	1,1-Dichloroethane	9.7		0.25	2.0
156-59-2	Cis-1,2-Dichloroethene	9.9		0.25	1.0
78-93-3	Methyl Ethyl Ketone	9.4		2.5	2.5
74-97-5	Bromochloromethane	10		0.25	1.0
110-82-7	CYCLOHEXANE	8.4		0.50	5.0
67-66-3	Chloroform	10		0.25	2.0
71-55-6	1,1,1-Trichloroethane	9.7		0.25	2.0
1634-04-4	Methyl t-Butyl Ether (MTBE)	10		0.25	1.0
56-23-5	Carbon Tetrachloride	9.2		0.25	1.0
71-43-2	Benzene	9.8		0.25	0.70
107-06-2	1,2-Dichloroethane	10		0.25	1.0
108-87-2	METHYLCYCLOHEXANE	8.3		0.50	2.0
79-01-6	Trichloroethene	9.4		0.25	1.0
78-87-5	1,2-dichloropropane	9.5		0.25	1.0
75-27-4	Bromodichloromethane	10		0.25	1.0
10061-01-5	cis-1,3-Dichloropropene	10		0.25	0.40
108-10-1	4-Methyl-2-Pentanone	9.6		2.5	2.5
108-88-3	Toluene	9.6		0.25	2.0
106-93-4	1,2-Dibromoethane	9.7		0.25	1.0
10061-02-6	trans-1,3-Dichloropropene	10		0.25	0.40
79-00-5	1,1,2-Trichloroethane	9.5		0.25	2.0
127-18-4	Tetrachloroethene	9.2		0.25	1.0
591-78-6	2-Hexanone	9.8		2.5	2.5

FORM I VOA

BH86681 LCS

Client:	AESHAUP			Lab:	Phoenix Env. Labs	
SDG No.:	GBH86681			Lab Sample ID:	BH86681 LCS	
Sample wt/vol:	25	(g/mL)	mL	Lab File ID:	0324S04.D	
Level: (low/med/meth):	Low			Date Received:	03/23/15	
% Moisture:	n.a.			Date Analyzed:	03/24/15	
Instrument:	CHEM17	Column:	rtx-vms	Dilution Factor:	1	
Purge Volume	25000	(uL)	pH: < 2	Soil Aliquot Vol:	n.a.	(uL)
Matrix: (soil/water)	WATER			CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		

[illegible]

FORM I VOA

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S04.D
 Acq On : 24 Mar 2015 10:05 am
 Operator :
 Sample : VOA-LCS-10 PPB STD.
 Misc : BH86681 LCS
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 24 11:10:49 2015
 Quant Title :
 QLast Update : Tue Apr 07 08:10:13 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.988	168	149209	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	206113	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	175531	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	99539	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	6958	500.00	ug/l	# 0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.680	192	11853	9.95	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	99.50%		
36) % Toluene-d8	5.301	98	244832	9.84	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	98.40%		
52) % Bromofluorobenzene	7.336	95	95068	9.88	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	98.80%		
54) % 1,2-dichlorobenzene-d4	8.303	152	77283	10.12	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	101.20%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.206	85	71074	8.35	ug/l	99
3) Chloromethane	1.337	50	64817	9.35	ug/l	99
4) Vinyl Chloride	1.378	62	61404	9.45	ug/l	98
5) Bromomethane	1.582	94	19433	11.04	ug/l	98
6) Chloroethane	1.661	64	40976	9.09	ug/l	99
7) Trichlorofluoromethane	1.750	101	134975	8.72	ug/l	99
8) 1,1-Dichloroethene	2.090	96	59943	10.02	ug/l	# 58
9) Trichlorotrifluoroethane	2.111	101	59866	8.77	ug/l	# 88
10) Acrolein	2.320	56	16360	49.75	ug/l	96
11) Acetone	2.524	43	7328	9.98	ug/l	# 69
12) Carbon Disulfide	2.111	76	137435	9.79	ug/l	99
13) Methylene Chloride	2.482	84	48842	7.42	ug/l	# 71
14) METHYLACETATE	2.602	43	12302	9.71	ug/l	# 77
15) Trans-1,2-Dichloroethene	2.592	96	59112	9.81	ug/l	# 73
16) Acrylonitrile	3.052	53	6286	10.68	ug/l	# 83
17) 1,1-Dichloroethane	3.010	63	136016	9.73	ug/l	99
18) Cis-1,2-Dichloroethene	3.371	96	60165	9.86	ug/l	# 67
19) Methyl Ethyl Ketone	3.769	43	9261	9.44	ug/l	86
20) Bromochloromethane	3.507	128	24141	10.23	ug/l	# 83
21) CYCLOHEXANE	3.507	56	103683	8.39	ug/l	# 78
22) Chloroform	3.554	83	134067	10.01	ug/l	95
24) 1,1,1-Trichloroethane	3.695	97	156257	9.70	ug/l	97
26) Methyl t-Butyl Ether (...)	2.665	73	112855	10.45	ug/l	# 86
27) Carbon Tetrachloride	3.643	117	110387	9.15	ug/l	97
28) Benzene	3.941	78	228173	9.75	ug/l	100
29) 1,2-Dichloroethane	4.083	62	88243	10.03	ug/l	# 84
30) METHYLCYCLOHEXANE	4.323	55	99984	8.28	ug/l	# 74
31) Trichloroethene	4.334	130	73109	9.37	ug/l	# 87
32) 1,2-dichloropropane	4.694	63	53081	9.48	ug/l	100
33) Bromodichloromethane	4.731	83	94050	10.46	ug/l	98
34) cis-1,3-Dichloropropene	5.170	75	82238	10.08	ug/l	99
35) 4-Methyl-2-Pentanone	5.610	43	23289	9.64	ug/l	# 89
37) Toluene	5.338	91	273932	9.56	ug/l	97
38) trans-1,3-Dichloropropene	5.636	75	70426	10.31	ug/l	98
39) 1,1,2-Trichloroethane	5.751	97	29568	9.54	ug/l	96
40) 1,2-Dibromoethane	6.054	107	30315	9.72	ug/l	99
42) Tetrachloroethene	5.610	164	62651	9.16	ug/l	90
43) 2-Hexanone	6.222	43	16812	9.85	ug/l	# 87

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S04.D
 Acq On : 24 Mar 2015 10:05 am
 Operator :
 Sample : VOA-LCS-10 PPB STD.
 Misc : BH86681 LCS
 ALS Vial : 1 Sample Multiplier: 1

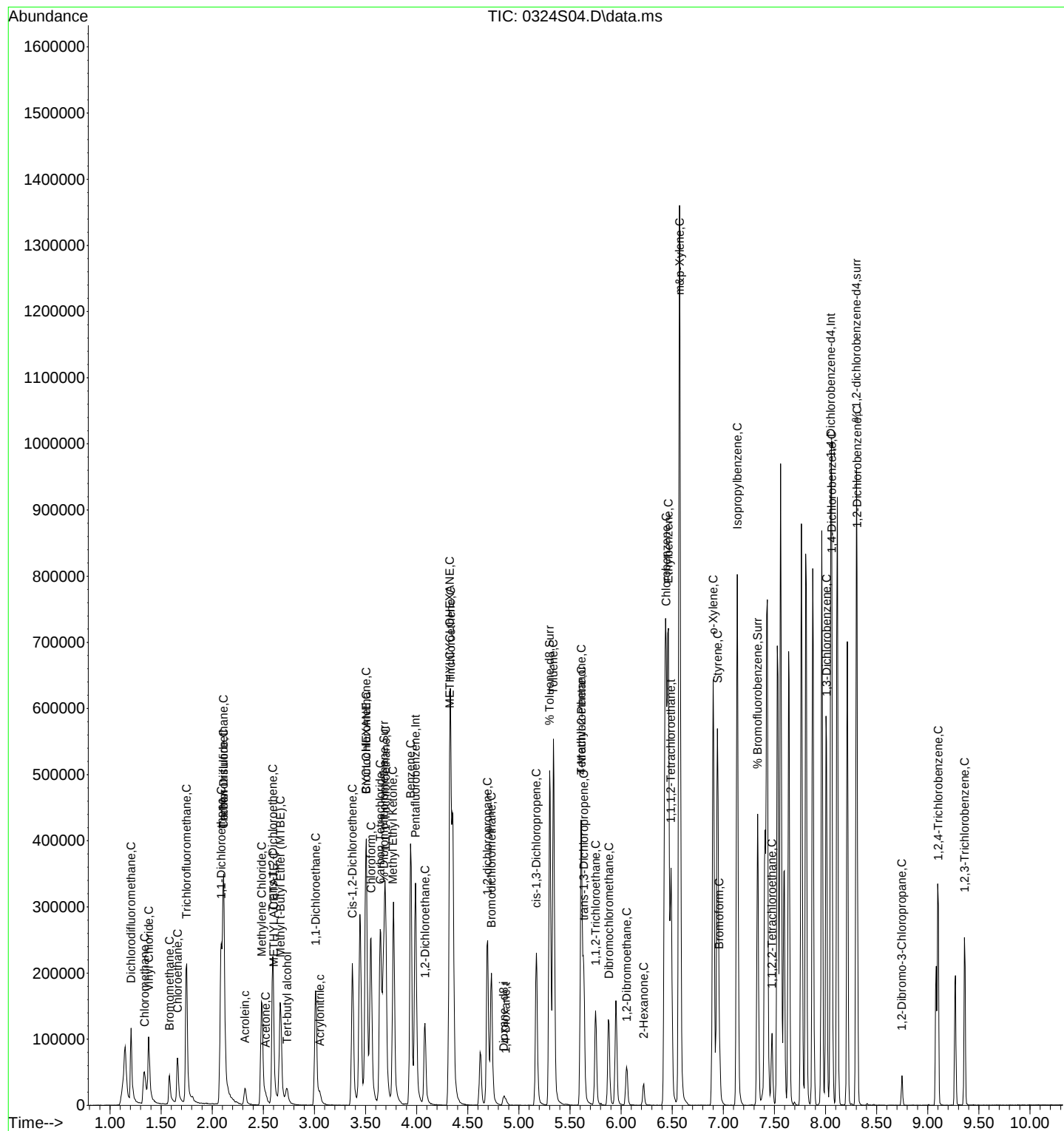
Quant Time: Mar 24 11:10:49 2015
 Quant Title :
 QLast Update : Tue Apr 07 08:10:13 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Dibromochloromethane	5.882	129	53522	10.47	ug/l	98
45) Chlorobenzene	6.441	112	176250	9.74	ug/l	91
46) 1,1,1,2-Tetrachloroethane	6.488	131	71157	10.33	ug/l	94
47) Ethylbenzene	6.462	91	359089	9.64	ug/l	91
48) m&p-Xylene	6.572	106	253401	18.99	ug/l #	64
49) o-Xylene	6.902	106	122244	9.78	ug/l #	67
50) Styrene	6.943	104	175189	9.73	ug/l #	74
51) Bromoform	6.959	173	26178	10.14	ug/l #	97
55) Isopropylbenzene	7.137	105	357621	9.29	ug/l	93
56) 1,1,2,2-Tetrachloroethane	7.477	83	29049	10.44	ug/l	98
57) 1,3-Dichlorobenzene	8.010	146	140292	10.04	ug/l #	95
58) 1,4-Dichlorobenzene	8.063	146	133175	9.76	ug/l #	94
59) 1,2-Dichlorobenzene	8.309	146	114372	10.00	ug/l #	94
60) 1,2-Dibromo-3-Chloropr...	8.748	75	6438	9.14	ug/l #	58
61) 1,2,4-Trichlorobenzene	9.104	180	54781	10.00	ug/l #	96
62) 1,2,3-Trichlorobenzene	9.360	180	39881	10.68	ug/l	96
64) 1,4-Dioxane	4.872	58	2460	190.45	ug/l	82
65) Tert-butyl alcohol	2.733	59	19754	94.28	ug/l	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
Data File : 0324S04.D
Acq On : 24 Mar 2015 10:05 am
Operator :
Sample : VOA-LCS-10 PPB STD.
Misc : BH86681 LCS
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 24 11:10:49 2015
Quant Title :
QLast Update : Tue Apr 07 08:10:13 2015
Response via : Initial Calibration



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

BH86681 LCSD

Client: AESHAUP Lab: Phoenix Env. Labs

SDG No.: GBH86681 Lab Sample ID: BH86681 LCSD

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0324S05.D

Level: (low/med/meth): Low Date Received: 03/23/15

% Moisture: n.a. Date Analyzed: 03/24/15

Instrument: CHEM17 Column: rtx-vms Dilution Factor: 1

Purge Volume 25000 (uL) pH: < 2 Soil Aliquot Vol: n.a. (uL)

Matrix: (soil/water) WATER CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONC.	Q	MDL/LOD	RL/PQL
75-71-8	Dichlorodifluoromethane	8.6		0.25	1.0
74-87-3	Chloromethane	9.1		0.25	2.0
75-01-4	Vinyl Chloride	9.5		0.25	1.0
74-83-9	Bromomethane	12		0.25	2.0
75-00-3	Chloroethane	9.2		0.25	2.0
75-69-4	Trichlorofluoromethane	8.9		0.25	1.0
75-35-4	1,1-Dichloroethene	9.7		0.25	1.0
76-13-1	Trichlorotrifluoroethane	9.1		0.25	1.0
67-64-1	Acetone	9.4		2.5	5.0
75-15-0	Carbon Disulfide	9.8		0.25	1.0
79-20-9	METHYLACETATE	10		2.5	2.5
75-09-2	Methylene Chloride	7.5		0.25	3.0
156-60-5	Trans-1,2-Dichloroethene	10		0.25	2.0
75-34-3	1,1-Dichloroethane	9.7		0.25	2.0
156-59-2	Cis-1,2-Dichloroethene	9.8		0.25	1.0
78-93-3	Methyl Ethyl Ketone	10		2.5	2.5
74-97-5	Bromochloromethane	10		0.25	1.0
110-82-7	CYCLOHEXANE	8.2		0.50	5.0
67-66-3	Chloroform	9.9		0.25	2.0
71-55-6	1,1,1-Trichloroethane	9.6		0.25	2.0
1634-04-4	Methyl t-Butyl Ether (MTBE)	10		0.25	1.0
56-23-5	Carbon Tetrachloride	9.0		0.25	1.0
71-43-2	Benzene	9.4		0.25	0.70
107-06-2	1,2-Dichloroethane	10		0.25	1.0
108-87-2	METHYLCYCLOHEXANE	8.2		0.50	2.0
79-01-6	Trichloroethene	9.2		0.25	1.0
78-87-5	1,2-dichloropropane	9.5		0.25	1.0
75-27-4	Bromodichloromethane	10		0.25	1.0
10061-01-5	cis-1,3-Dichloropropene	10		0.25	0.40
108-10-1	4-Methyl-2-Pentanone	9.4		2.5	2.5
108-88-3	Toluene	9.4		0.25	2.0
106-93-4	1,2-Dibromoethane	9.8		0.25	1.0
10061-02-6	trans-1,3-Dichloropropene	10		0.25	0.40
79-00-5	1,1,2-Trichloroethane	9.4		0.25	2.0
127-18-4	Tetrachloroethene	9.1		0.25	1.0
591-78-6	2-Hexanone	9.4		2.5	2.5

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

BH86681 LCSD

Client:	AESHAUP			Lab:	Phoenix Env. Labs		
SDG No.:	GBH86681			Lab Sample ID:	BH86681 LCSD		
Sample wt/vol:	25	(g/mL)	mL	Lab File ID:	0324S05.D		
Level: (low/med/meth):	Low			Date Received:	03/23/15		
% Moisture:	n.a.			Date Analyzed:	03/24/15		
Instrument:	CHEM17	Column:	rtx-vms	Dilution Factor:	1		
Purge Volume	25000	(uL)	pH: < 2	Soil Aliquot Vol:	n.a. (uL)		
Matrix: (soil/water)	WATER			CONCENTRATION UNITS: (ug/L or ug/Kg)			
					ug/L		

[illegible]

FORM I VOA

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S05.D
 Acq On : 24 Mar 2015 10:28 am
 Operator :
 Sample : VOA-LCSD-10 PPB STD.
 Misc : BH86681 LCSD
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 24 11:10:59 2015
 Quant Title :
 QLast Update : Tue Apr 07 08:10:13 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.988	168	150093	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	211085	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	179800	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	103439	10.00	ug/l	# 0.00
63) Dioxane -d8	4.856	96	7134	500.00	ug/l	# 0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.674	192	12697	10.60	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	106.00%		
36) % Toluene-d8	5.301	98	254594	9.99	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	99.90%		
52) % Bromofluorobenzene	7.336	95	98673	10.01	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	100.10%		
54) % 1,2-dichlorobenzene-d4	8.303	152	78433	9.88	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	98.80%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.206	85	73663	8.60	ug/l	98
3) Chloromethane	1.336	50	63644	9.13	ug/l	96
4) Vinyl Chloride	1.378	62	62281	9.53	ug/l	94
5) Bromomethane	1.582	94	20468	11.56	ug/l	95
6) Chloroethane	1.661	64	41669	9.19	ug/l	98
7) Trichlorofluoromethane	1.750	101	139293	8.94	ug/l	99
8) 1,1-Dichloroethene	2.090	96	58642	9.74	ug/l	# 57
9) Trichlorotrifluoroethane	2.111	101	62680	9.13	ug/l	# 86
10) Acrolein	2.325	56	17242	52.12	ug/l	92
11) Acetone	2.524	43	6966	9.43	ug/l	# 72
12) Carbon Disulfide	2.111	76	138659	9.82	ug/l	99
13) Methylene Chloride	2.487	84	49712	7.51	ug/l	# 66
14) METHYLACETATE	2.607	43	12905	10.12	ug/l	# 79
15) Trans-1,2-Dichloroethene	2.592	96	61231	10.10	ug/l	# 76
16) Acrylonitrile	3.057	53	6454	10.90	ug/l	96
17) 1,1-Dichloroethane	3.015	63	136315	9.69	ug/l	100
18) Cis-1,2-Dichloroethene	3.376	96	60237	9.82	ug/l	# 63
19) Methyl Ethyl Ketone	3.769	43	9998	10.13	ug/l	94
20) Bromochloromethane	3.507	128	23658	9.97	ug/l	# 79
21) CYCLOHEXANE	3.507	56	102195	8.22	ug/l	# 79
22) Chloroform	3.554	83	132711	9.85	ug/l	100
24) 1,1,1-Trichloroethane	3.695	97	155221	9.58	ug/l	96
26) Methyl t-Butyl Ether (...)	2.670	73	113166	10.23	ug/l	# 87
27) Carbon Tetrachloride	3.648	117	111233	9.01	ug/l	99
28) Benzene	3.941	78	226388	9.45	ug/l	100
29) 1,2-Dichloroethane	4.082	62	89750	9.96	ug/l	# 84
30) METHYLCYCLOHEXANE	4.328	55	101237	8.18	ug/l	# 73
31) Trichloroethene	4.333	130	73353	9.18	ug/l	# 87
32) 1,2-dichloropropane	4.694	63	54283	9.46	ug/l	100
33) Bromodichloromethane	4.731	83	94214	10.23	ug/l	96
34) cis-1,3-Dichloropropene	5.170	75	83887	10.04	ug/l	97
35) 4-Methyl-2-Pentanone	5.610	43	23335	9.43	ug/l	# 90
37) Toluene	5.338	91	275394	9.39	ug/l	98
38) trans-1,3-Dichloropropene	5.636	75	71353	10.20	ug/l	100
39) 1,1,2-Trichloroethane	5.751	97	29843	9.40	ug/l	96
40) 1,2-Dibromoethane	6.054	107	31205	9.77	ug/l	93
42) Tetrachloroethene	5.610	164	63697	9.09	ug/l	91
43) 2-Hexanone	6.222	43	16351	9.35	ug/l	# 84

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S05.D
 Acq On : 24 Mar 2015 10:28 am
 Operator :
 Sample : VOA-LCSD-10 PPB STD.
 Misc : BH86681 LCSD
 ALS Vial : 1 Sample Multiplier: 1

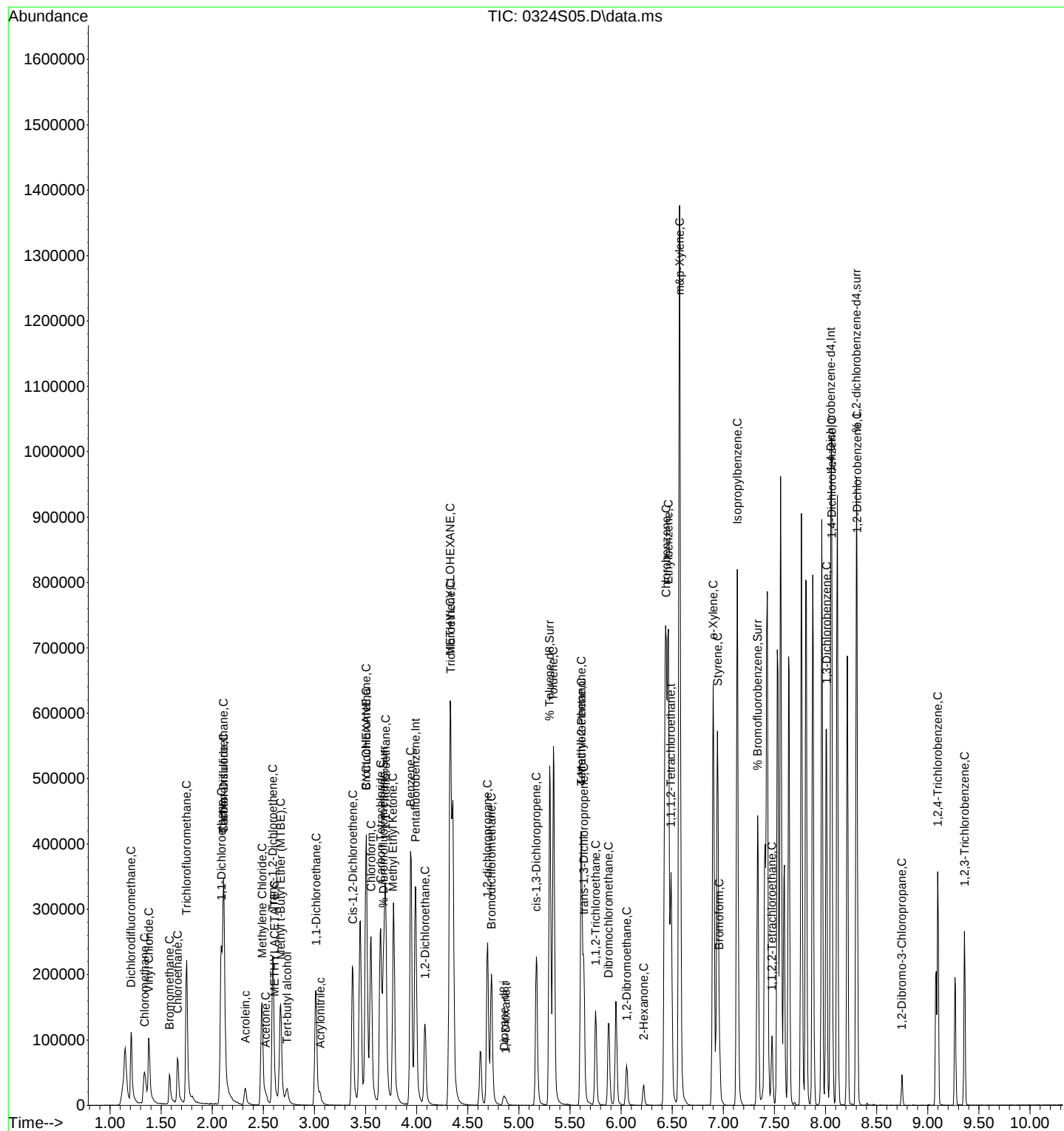
Quant Time: Mar 24 11:10:59 2015
 Quant Title :
 QLast Update : Tue Apr 07 08:10:13 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Dibromochloromethane	5.876	129	52306	9.99	ug/l	96
45) Chlorobenzene	6.441	112	176255	9.51	ug/l	85
46) 1,1,1,2-Tetrachloroethane	6.488	131	69984	9.91	ug/l	93
47) Ethylbenzene	6.462	91	357557	9.37	ug/l	90
48) m&p-Xylene	6.572	106	253704	18.56	ug/l #	63
49) o-Xylene	6.901	106	121706	9.50	ug/l #	66
50) Styrene	6.943	104	175868	9.53	ug/l #	74
51) Bromoform	6.959	173	25757	9.74	ug/l #	98
55) Isopropylbenzene	7.137	105	364284	9.11	ug/l	93
56) 1,1,2,2-Tetrachloroethane	7.477	83	28679	9.92	ug/l #	98
57) 1,3-Dichlorobenzene	8.010	146	142483	9.81	ug/l #	95
58) 1,4-Dichlorobenzene	8.063	146	136141	9.60	ug/l #	94
59) 1,2-Dichlorobenzene	8.308	146	114639	9.65	ug/l #	95
60) 1,2-Dibromo-3-Chloropr...	8.748	75	6915	9.45	ug/l #	55
61) 1,2,4-Trichlorobenzene	9.098	180	55326	9.72	ug/l #	95
62) 1,2,3-Trichlorobenzene	9.360	180	39710	10.23	ug/l	96
64) 1,4-Dioxane	4.872	58	2738	206.74	ug/l	78
65) Tert-butyl alcohol	2.733	59	20040	93.28	ug/l	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
Data File : 0324S05.D
Acq On : 24 Mar 2015 10:28 am
Operator :
Sample : VOA-LCSD-10 PPB STD.
Misc : BH86681 LCSD
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 24 11:10:59 2015
Quant Title :
QLast Update : Tue Apr 07 08:10:13 2015
Response via : Initial Calibration



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

BH86681 MS

Client: AESHAUP Lab: Phoenix Env. Labs

SDG No.: GBH86681 Lab Sample ID: BH86681 MS

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0324S17.D

Level: (low/med/meth): Low Date Received: 03/23/15

% Moisture: n.a. Date Analyzed: 03/24/15

Instrument: CHEM17 Column: rtx-vms Dilution Factor: 1

Purge Volume 25000 (uL) pH: < 2 Soil Aliquot Vol: n.a. (uL)

Matrix: (soil/water) WATER CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONC.	Q	MDL/LOD	RL/PQL
75-71-8	Dichlorodifluoromethane	7.4		0.25	1.0
74-87-3	Chloromethane	8.9		0.25	2.0
75-01-4	Vinyl Chloride	8.2		0.25	1.0
74-83-9	Bromomethane	8.2		0.25	2.0
75-00-3	Chloroethane	8.2		0.25	2.0
75-69-4	Trichlorofluoromethane	8.2		0.25	1.0
75-35-4	1,1-Dichloroethene	8.2		0.25	1.0
76-13-1	Trichlorotrifluoroethane	8.0		0.25	1.0
67-64-1	Acetone	9.4		2.5	5.0
75-15-0	Carbon Disulfide	8.4		0.25	1.0
79-20-9	METHYLACETATE	9.3		2.5	2.5
75-09-2	Methylene Chloride	6.9		0.25	3.0
156-60-5	Trans-1,2-Dichloroethene	8.5		0.25	2.0
75-34-3	1,1-Dichloroethane	9.0		0.25	2.0
156-59-2	Cis-1,2-Dichloroethene	9.3		0.25	1.0
78-93-3	Methyl Ethyl Ketone	9.3		2.5	2.5
74-97-5	Bromochloromethane	9.6		0.25	1.0
110-82-7	CYCLOHEXANE	7.8		0.50	5.0
67-66-3	Chloroform	9.2		0.25	2.0
71-55-6	1,1,1-Trichloroethane	8.8		0.25	2.0
1634-04-4	Methyl t-Butyl Ether (MTBE)	9.1		0.25	1.0
56-23-5	Carbon Tetrachloride	8.3		0.25	1.0
71-43-2	Benzene	8.7		0.25	0.70
107-06-2	1,2-Dichloroethane	9.5		0.25	1.0
108-87-2	METHYLCYCLOHEXANE	7.6		0.50	2.0
79-01-6	Trichloroethene	8.8		0.25	1.0
78-87-5	1,2-dichloropropane	8.8		0.25	1.0
75-27-4	Bromodichloromethane	9.4		0.25	1.0
10061-01-5	cis-1,3-Dichloropropene	9.0		0.25	0.40
108-10-1	4-Methyl-2-Pentanone	9.7		2.5	2.5
108-88-3	Toluene	8.7		0.25	2.0
106-93-4	1,2-Dibromoethane	9.0		0.25	1.0
10061-02-6	trans-1,3-Dichloropropene	9.1		0.25	0.40
79-00-5	1,1,2-Trichloroethane	9.3		0.25	2.0
127-18-4	Tetrachloroethene	8.4		0.25	1.0
591-78-6	2-Hexanone	9.7		2.5	2.5

FORM I VOA

BH86681 MS

Client:	AESHAUP			Lab:	Phoenix Env. Labs	
SDG No.:	GBH86681			Lab Sample ID:	BH86681 MS	
Sample wt/vol:	25	(g/mL)	mL	Lab File ID:	0324S17.D	
Level: (low/med/meth):	Low			Date Received:	03/23/15	
% Moisture:	n.a.			Date Analyzed:	03/24/15	
Instrument:	CHEM17	Column:	rtx-vms	Dilution Factor:	1	
Purge Volume	25000	(uL)	pH: < 2	Soil Aliquot Vol:	n.a.	(uL)
Matrix: (soil/water)	WATER			CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		

[illegible]

FORM I VOA

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S17.D
 Acq On : 24 Mar 2015 3:14 pm
 Operator :
 Sample : SPIKE 10-PPB
 Misc : BH86681 MS
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 11:10:25 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.988	168	145143	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	196712	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	166215	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	95438	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	7310	500.00	ug/l	# 0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.680	192	11863	10.24	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	102.40%		
36) % Toluene-d8	5.301	98	238214	10.03	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	100.30%		
52) % Bromofluorobenzene	7.336	95	93764	10.29	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	102.90%		
54) % 1,2-dichlorobenzene-d4	8.303	152	73164	9.99	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery =	99.90%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.206	85	61466	7.42	ug/l	98
3) Chloromethane	1.337	50	60234	8.93	ug/l	95
4) Vinyl Chloride	1.378	62	51771	8.19	ug/l	97
5) Bromomethane	1.582	94	14042	8.20	ug/l	86
6) Chloroethane	1.661	64	36049	8.22	ug/l	100
7) Trichlorofluoromethane	1.750	101	123673	8.21	ug/l	100
8) 1,1-Dichloroethene	2.090	96	47951	8.24	ug/l	# 53
9) Trichlorotrifluoroethane	2.111	101	52936	7.98	ug/l	# 87
10) Acrolein	2.325	56	14300	44.70	ug/l	90
11) Acetone	2.524	43	6745	9.44	ug/l	# 68
12) Carbon Disulfide	2.111	76	114973	8.42	ug/l	98
13) Methylene Chloride	2.487	84	43984	6.87	ug/l	# 69
14) METHYLACETATE	2.602	43	11462	9.30	ug/l	# 76
15) Trans-1,2-Dichloroethene	2.592	96	50128	8.55	ug/l	# 73
16) Acrylonitrile	3.052	53	5674	9.91	ug/l	# 92
17) 1,1-Dichloroethane	3.015	63	122273	8.99	ug/l	97
18) Cis-1,2-Dichloroethene	3.376	96	55316	9.32	ug/l	# 73
19) Methyl Ethyl Ketone	3.763	43	8831	9.25	ug/l	94
20) Bromochloromethane	3.507	128	21932	9.56	ug/l	# 84
21) CYCLOHEXANE	3.507	56	93819	7.80	ug/l	# 77
22) Chloroform	3.554	83	119792	9.20	ug/l	100
24) 1,1,1-Trichloroethane	3.695	97	137518	8.77	ug/l	97
26) Methyl t-Butyl Ether (...)	2.670	73	93629	9.09	ug/l	# 85
27) Carbon Tetrachloride	3.643	117	96099	8.35	ug/l	93
28) Benzene	3.941	78	195318	8.74	ug/l	100
29) 1,2-Dichloroethane	4.082	62	80069	9.53	ug/l	# 84
30) METHYLCYCLOHEXANE	4.323	55	88136	7.64	ug/l	# 73
31) Trichloroethene	4.333	130	65266	8.77	ug/l	# 87
32) 1,2-dichloropropane	4.694	63	47264	8.84	ug/l	# 97
33) Bromodichloromethane	4.731	83	80451	9.37	ug/l	99
34) cis-1,3-Dichloropropene	5.170	75	69874	8.97	ug/l	97
35) 4-Methyl-2-Pentanone	5.610	43	22403	9.71	ug/l	# 88
37) Toluene	5.338	91	239178	8.75	ug/l	97
38) trans-1,3-Dichloropropene	5.636	75	59632	9.15	ug/l	96
39) 1,1,2-Trichloroethane	5.751	97	27390	9.26	ug/l	95
40) 1,2-Dibromoethane	6.054	107	26691	8.97	ug/l	96
42) Tetrachloroethene	5.610	164	54647	8.44	ug/l	90

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S17.D
 Acq On : 24 Mar 2015 3:14 pm
 Operator :
 Sample : SPIKE 10-PPB
 Misc : BH86681 MS
 ALS Vial : 1 Sample Multiplier: 1

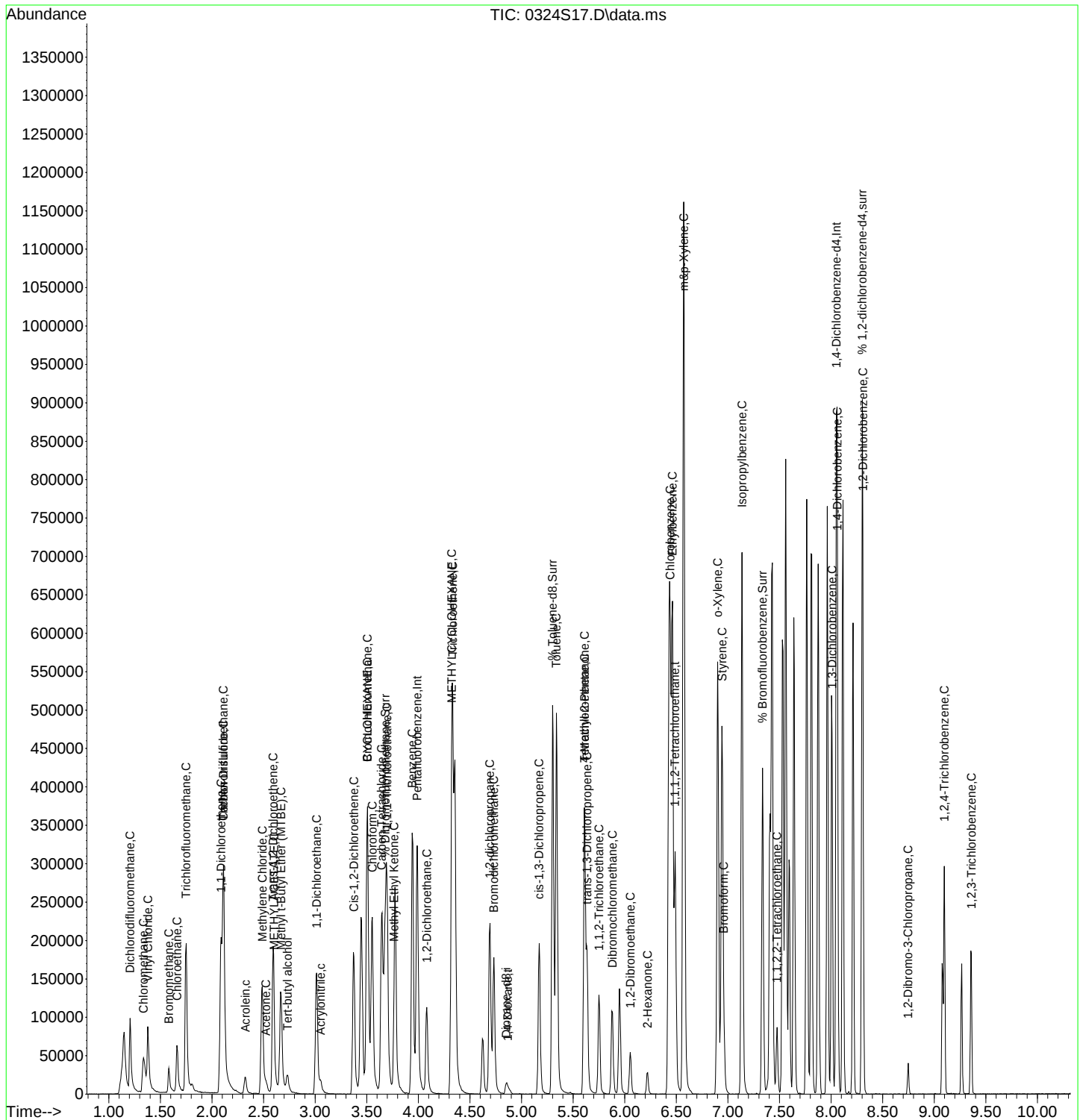
Quant Time: Mar 25 11:10:25 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2-Hexanone	6.222	43	15644	9.68	ug/l #	87
44) Dibromochloromethane	5.882	129	45560	9.41	ug/l	98
45) Chlorobenzene	6.441	112	153304	8.95	ug/l	90
46) 1,1,1,2-Tetrachloroethane	6.488	131	60567	9.28	ug/l	94
47) Ethylbenzene	6.462	91	306974	8.70	ug/l	91
48) m&p-Xylene	6.572	106	220620	17.46	ug/l #	65
49) o-Xylene	6.902	106	102535	8.66	ug/l #	62
50) Styrene	6.943	104	151861	8.91	ug/l #	74
51) Bromoform	6.959	173	21735	8.89	ug/l #	96
55) Isopropylbenzene	7.137	105	316892	8.59	ug/l	92
56) 1,1,2,2-Tetrachloroethane	7.477	83	22425	8.41	ug/l #	96
57) 1,3-Dichlorobenzene	8.010	146	120221	8.97	ug/l #	95
58) 1,4-Dichlorobenzene	8.063	146	116546	8.90	ug/l #	94
59) 1,2-Dichlorobenzene	8.308	146	97649	8.91	ug/l #	93
60) 1,2-Dibromo-3-Chloropr...	8.748	75	6021	8.91	ug/l #	52
61) 1,2,4-Trichlorobenzene	9.098	180	44906	8.55	ug/l #	96
62) 1,2,3-Trichlorobenzene	9.360	180	30582	8.54	ug/l	95
64) 1,4-Dioxane	4.867	58	2382	175.53	ug/l #	74
65) Tert-butyl alcohol	2.733	59	18795	85.38	ug/l	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
Data File : 0324S17.D
Acq On : 24 Mar 2015 3:14 pm
Operator :
Sample : SPIKE 10-PPB
Misc : BH86681 MS
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 11:10:25 2015
Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Mar 24 08:24:49 2015
Response via : Initial Calibration



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

BH86681 MSD

Client: AESHAUP Lab: Phoenix Env. Labs

SDG No.: GBH86681 Lab Sample ID: BH86681 MSD

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0324S18.D

Level: (low/med/meth): Low Date Received: 03/23/15

% Moisture: n.a. Date Analyzed: 03/24/15

Instrument: CHEM17 Column: rtx-vms Dilution Factor: 1

Purge Volume 25000 (uL) pH: < 2 Soil Aliquot Vol: n.a. (uL)

Matrix: (soil/water) WATER CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONC.	Q	MDL/LOD	RL/PQL
75-71-8	Dichlorodifluoromethane	9.2		0.25	1.0
74-87-3	Chloromethane	9.5		0.25	2.0
75-01-4	Vinyl Chloride	9.2		0.25	1.0
74-83-9	Bromomethane	11		0.25	2.0
75-00-3	Chloroethane	9.3		0.25	2.0
75-69-4	Trichlorofluoromethane	10		0.25	1.0
75-35-4	1,1-Dichloroethene	9.8		0.25	1.0
76-13-1	Trichlorotrifluoroethane	10		0.25	1.0
67-64-1	Acetone	10		2.5	5.0
75-15-0	Carbon Disulfide	9.7		0.25	1.0
79-20-9	METHYLACETATE	9.9		2.5	2.5
75-09-2	Methylene Chloride	7.4		0.25	3.0
156-60-5	Trans-1,2-Dichloroethene	9.9		0.25	2.0
75-34-3	1,1-Dichloroethane	9.8		0.25	2.0
156-59-2	Cis-1,2-Dichloroethene	9.8		0.25	1.0
78-93-3	Methyl Ethyl Ketone	0		2.5	2.5
74-97-5	Bromochloromethane	10		0.25	1.0
110-82-7	CYCLOHEXANE	9.7		0.50	5.0
67-66-3	Chloroform	9.9		0.25	2.0
71-55-6	1,1,1-Trichloroethane	10		0.25	2.0
1634-04-4	Methyl t-Butyl Ether (MTBE)	10		0.25	1.0
56-23-5	Carbon Tetrachloride	9.8		0.25	1.0
71-43-2	Benzene	9.6		0.25	0.70
107-06-2	1,2-Dichloroethane	10		0.25	1.0
108-87-2	METHYLCYCLOHEXANE	9.3		0.50	2.0
79-01-6	Trichloroethene	9.6		0.25	1.0
78-87-5	1,2-dichloropropane	9.5		0.25	1.0
75-27-4	Bromodichloromethane	10		0.25	1.0
10061-01-5	cis-1,3-Dichloropropene	9.9		0.25	0.40
108-10-1	4-Methyl-2-Pentanone	10		2.5	2.5
108-88-3	Toluene	9.5		0.25	2.0
106-93-4	1,2-Dibromoethane	10		0.25	1.0
10061-02-6	trans-1,3-Dichloropropene	10		0.25	0.40
79-00-5	1,1,2-Trichloroethane	9.9		0.25	2.0
127-18-4	Tetrachloroethene	9.5		0.25	1.0
591-78-6	2-Hexanone	11		2.5	2.5

FORM I VOA

BH86681 MSD

Client:	AESHAUP			Lab:	Phoenix Env. Labs	
SDG No.:	GBH86681			Lab Sample ID:	BH86681 MSD	
Sample wt/vol:	25	(g/mL)	mL	Lab File ID:	0324S18.D	
Level: (low/med/meth):	Low			Date Received:	03/23/15	
% Moisture:	n.a.			Date Analyzed:	03/24/15	
Instrument:	CHEM17	Column:	rtx-vms	Dilution Factor:	1	
Purge Volume	25000	(uL)	pH: < 2	Soil Aliquot Vol:	n.a.	(uL)
Matrix: (soil/water)	WATER			CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		

[illegible]

FORM I VOA

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S18.D
 Acq On : 24 Mar 2015 3:37 pm
 Operator :
 Sample : SPIKED 10-PPB
 Misc : BH86681 MSD
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 11:10:27 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.988	168	148383	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	203209	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	170181	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	99164	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	7864	500.00	ug/l	# 0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.680	192	12092	10.21	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 102.10%			
36) % Toluene-d8	5.301	98	250457	10.21	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 102.10%			
52) % Bromofluorobenzene	7.336	95	95706	10.26	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 102.60%			
54) % 1,2-dichlorobenzene-d4	8.303	152	75647	9.94	ug/l	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 99.40%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.206	85	77683	9.17	ug/l	99
3) Chloromethane	1.337	50	65285	9.47	ug/l	99
4) Vinyl Chloride	1.378	62	59482	9.21	ug/l	99
5) Bromomethane	1.582	94	19001	10.85	ug/l	99
6) Chloroethane	1.661	64	41774	9.32	ug/l	99
7) Trichlorofluoromethane	1.750	101	156148	10.14	ug/l	100
8) 1,1-Dichloroethene	2.090	96	58413	9.81	ug/l	# 53
9) Trichlorotrifluoroethane	2.111	101	67956	10.01	ug/l	# 87
10) Acrolein	2.320	56	16855	51.54	ug/l	93
11) Acetone	2.524	43	7327	10.03	ug/l	# 72
12) Carbon Disulfide	2.111	76	134837	9.66	ug/l	97
13) Methylene Chloride	2.487	84	48569	7.42	ug/l	# 73
14) METHYLACETATE	2.607	43	12488	9.91	ug/l	# 78
15) Trans-1,2-Dichloroethene	2.592	96	59290	9.89	ug/l	# 76
16) Acrylonitrile	3.052	53	6118	10.46	ug/l	# 81
17) 1,1-Dichloroethane	3.015	63	136398	9.81	ug/l	96
18) Cis-1,2-Dichloroethene	3.371	96	59523	9.81	ug/l	# 68
20) Bromochloromethane	3.507	128	23961	10.21	ug/l	# 81
21) CYCLOHEXANE	3.507	56	119237	9.70	ug/l	# 77
22) Chloroform	3.554	83	132351	9.94	ug/l	99
24) 1,1,1-Trichloroethane	3.695	97	163725	10.22	ug/l	96
26) Methyl t-Butyl Ether (...)	2.670	73	109207	10.26	ug/l	# 85
27) Carbon Tetrachloride	3.643	117	116427	9.79	ug/l	98
28) Benzene	3.941	78	221318	9.59	ug/l	100
29) 1,2-Dichloroethane	4.082	62	88942	10.25	ug/l	# 83
30) METHYLCYCLOHEXANE	4.328	55	110581	9.28	ug/l	# 74
31) Trichloroethene	4.333	130	73892	9.61	ug/l	# 87
32) 1,2-dichloropropane	4.694	63	52415	9.49	ug/l	99
33) Bromodichloromethane	4.731	83	91045	10.27	ug/l	98
34) cis-1,3-Dichloropropene	5.170	75	79691	9.91	ug/l	100
35) 4-Methyl-2-Pentanone	5.610	43	24838	10.43	ug/l	# 88
37) Toluene	5.338	91	268912	9.52	ug/l	98
38) trans-1,3-Dichloropropene	5.636	75	67841	10.07	ug/l	98
39) 1,1,2-Trichloroethane	5.751	97	30230	9.89	ug/l	95
40) 1,2-Dibromoethane	6.054	107	30948	10.06	ug/l	90
42) Tetrachloroethene	5.610	164	62827	9.48	ug/l	90
43) 2-Hexanone	6.222	43	17736	10.72	ug/l	89

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S18.D
 Acq On : 24 Mar 2015 3:37 pm
 Operator :
 Sample : SPIKED 10-PPB
 Misc : BH86681 MSD
 ALS Vial : 1 Sample Multiplier: 1

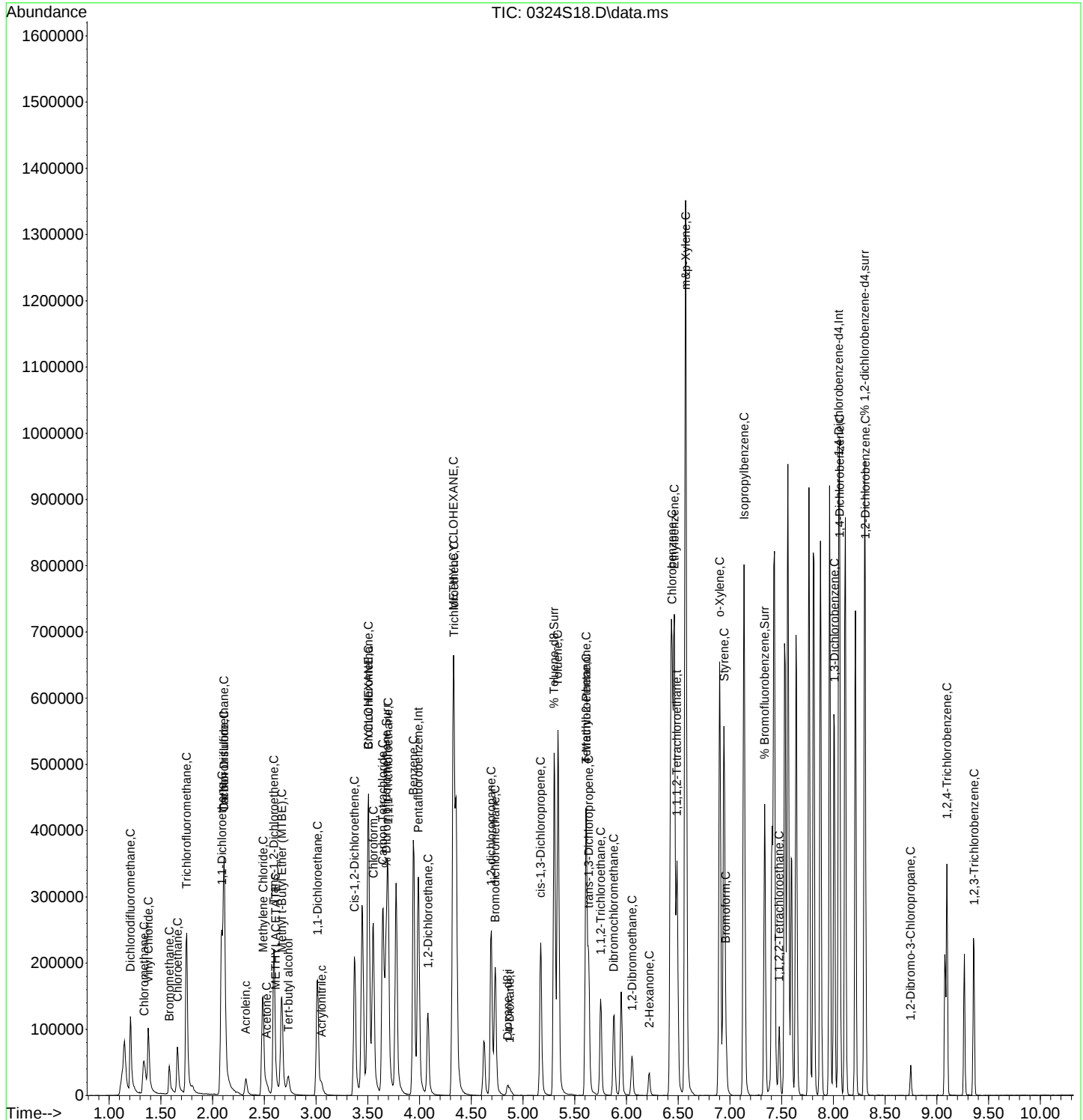
Quant Time: Mar 25 11:10:27 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Dibromochloromethane	5.876	129	51341	10.36	ug/l	100
45) Chlorobenzene	6.441	112	172383	9.83	ug/l	88
46) 1,1,1,2-Tetrachloroethane	6.488	131	67029	10.03	ug/l	95
47) Ethylbenzene	6.462	91	350455	9.71	ug/l	91
48) m&p-Xylene	6.572	106	249987	19.33	ug/l #	63
49) o-Xylene	6.902	106	119401	9.85	ug/l #	65
50) Styrene	6.943	104	172576	9.88	ug/l #	72
51) Bromoform	6.959	173	24721	9.87	ug/l #	95
55) Isopropylbenzene	7.137	105	365838	9.54	ug/l	92
56) 1,1,2,2-Tetrachloroethane	7.477	83	27577	9.95	ug/l	99
57) 1,3-Dichlorobenzene	8.010	146	139781	10.04	ug/l	95
58) 1,4-Dichlorobenzene	8.063	146	132174	9.72	ug/l #	95
59) 1,2-Dichlorobenzene	8.308	146	111325	9.77	ug/l #	94
60) 1,2-Dibromo-3-Chloropr...	8.748	75	6575	9.37	ug/l #	56
61) 1,2,4-Trichlorobenzene	9.098	180	53081	9.73	ug/l #	95
62) 1,2,3-Trichlorobenzene	9.360	180	37174	9.99	ug/l	93
64) 1,4-Dioxane	4.872	58	2665	182.55	ug/l	89
65) Tert-butyl alcohol	2.733	59	24077	101.67	ug/l	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S18.D
 Acq On : 24 Mar 2015 3:37 pm
 Operator :
 Sample : SPIKED 10-PPB
 Misc : BH86681 MSD
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 11:10:27 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration



1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT ID

BH86681 BLANK

Client: AESHAUP Lab: Phoenix Env. Labs

SDG No.: GBH86681 Lab Sample ID: BH86681 BL

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0324S07.D

Level: (low/med/meth): Low Date Received: 03/23/15

% Moisture: n.a. Date Analyzed: 03/24/15

Instrument: CHEM17 Column: rtx-vms Dilution Factor: 1

Purge Volume 25000 (uL) pH: < 2 Soil Aliquot Vol: n.a. (uL)

Matrix: (soil/water) WATER CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONC.	Q	MDL/LOD	RL/PQL
75-71-8	Dichlorodifluoromethane	1.0	U	0.25	1.0
74-87-3	Chloromethane	2.0	U	0.25	2.0
75-01-4	Vinyl Chloride	1.0	U	0.25	1.0
74-83-9	Bromomethane	2.0	U	0.25	2.0
75-00-3	Chloroethane	2.0	U	0.25	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.25	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.25	1.0
76-13-1	Trichlorotrifluoroethane	1.0	U	0.25	1.0
67-64-1	Acetone	5.0	U	2.5	5.0
75-15-0	Carbon Disulfide	1.0	U	0.25	1.0
79-20-9	METHYLACETATE	2.5	U	2.5	2.5
75-09-2	Methylene Chloride	3.0	U	0.25	3.0
156-60-5	Trans-1,2-Dichloroethene	2.0	U	0.25	2.0
75-34-3	1,1-Dichloroethane	2.0	U	0.25	2.0
156-59-2	Cis-1,2-Dichloroethene	1.0	U	0.25	1.0
78-93-3	Methyl Ethyl Ketone	2.5	U	2.5	2.5
74-97-5	Bromochloromethane	1.0	U	0.25	1.0
110-82-7	CYCLOHEXANE	5.0	U	0.50	5.0
67-66-3	Chloroform	2.0	U	0.25	2.0
71-55-6	1,1,1-Trichloroethane	2.0	U	0.25	2.0
1634-04-4	Methyl t-Butyl Ether (MTBE)	1.0	U	0.25	1.0
56-23-5	Carbon Tetrachloride	1.0	U	0.25	1.0
71-43-2	Benzene	0.70	U	0.25	0.70
107-06-2	1,2-Dichloroethane	1.0	U	0.25	1.0
108-87-2	METHYLCYCLOHEXANE	2.0	U	0.50	2.0
79-01-6	Trichloroethene	1.0	U	0.25	1.0
78-87-5	1,2-dichloropropane	1.0	U	0.25	1.0
75-27-4	Bromodichloromethane	1.0	U	0.25	1.0
10061-01-5	cis-1,3-Dichloropropene	0.40	U	0.25	0.40
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.5	2.5
108-88-3	Toluene	2.0	U	0.25	2.0
106-93-4	1,2-Dibromoethane	1.0	U	0.25	1.0
10061-02-6	trans-1,3-Dichloropropene	0.40	U	0.25	0.40
79-00-5	1,1,2-Trichloroethane	2.0	U	0.25	2.0
127-18-4	Tetrachloroethene	1.0	U	0.25	1.0
591-78-6	2-Hexanone	2.5	U	2.5	2.5

FORM I VOA

BH86681 BLANK

Client:	AESHAUP			Lab:	Phoenix Env. Labs	
SDG No.:	GBH86681			Lab Sample ID:	BH86681 BL	
Sample wt/vol:	25	(g/mL)	mL	Lab File ID:	0324S07.D	
Level: (low/med/meth):	Low			Date Received:	03/23/15	
% Moisture:	n.a.			Date Analyzed:	03/24/15	
Instrument:	CHEM17	Column:	rtx-vms	Dilution Factor:	1	
Purge Volume	25000	(uL)	pH: < 2	Soil Aliquot Vol:	n.a.	(uL)
Matrix: (soil/water)	WATER			CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		

[illegible]

FORM I VOA

CLIENT ID

Lab Name: Phoenix Environmental Labs

Client: AESHAUP

Lab Code: Phoenix Case No.:

SAS No.:

SDG No.: GBH86681

Matrix:(soil/water) WATER

Lab Sample ID: BH86681 BLANK

Sample wt/vol: 25 (g/mL) mL

Lab File ID: 0324S07.D

Level: (low/med)

Date Received: 03/24/15

% Moisture: not dec.	100
----------------------	-----

Date Analyzed: 03/24/15

GC Column: rtx-vms ID: 0.18 (mm)

Dilution Factor: 1

Purge Volume	25000	(uL)
--------------	-------	------

Soil Aliquot Vol (uL): n.a.

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

[illegible]

Data Path : H:\V2015\CHEM17\03MAR\032415\
 Data File : 0324S07.D
 Acq On : 24 Mar 2015 11:24 am
 Operator :
 Sample : HCL BLANK
 Misc : BH86681 BLANK
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 12:35:05 2015
 Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 24 08:24:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

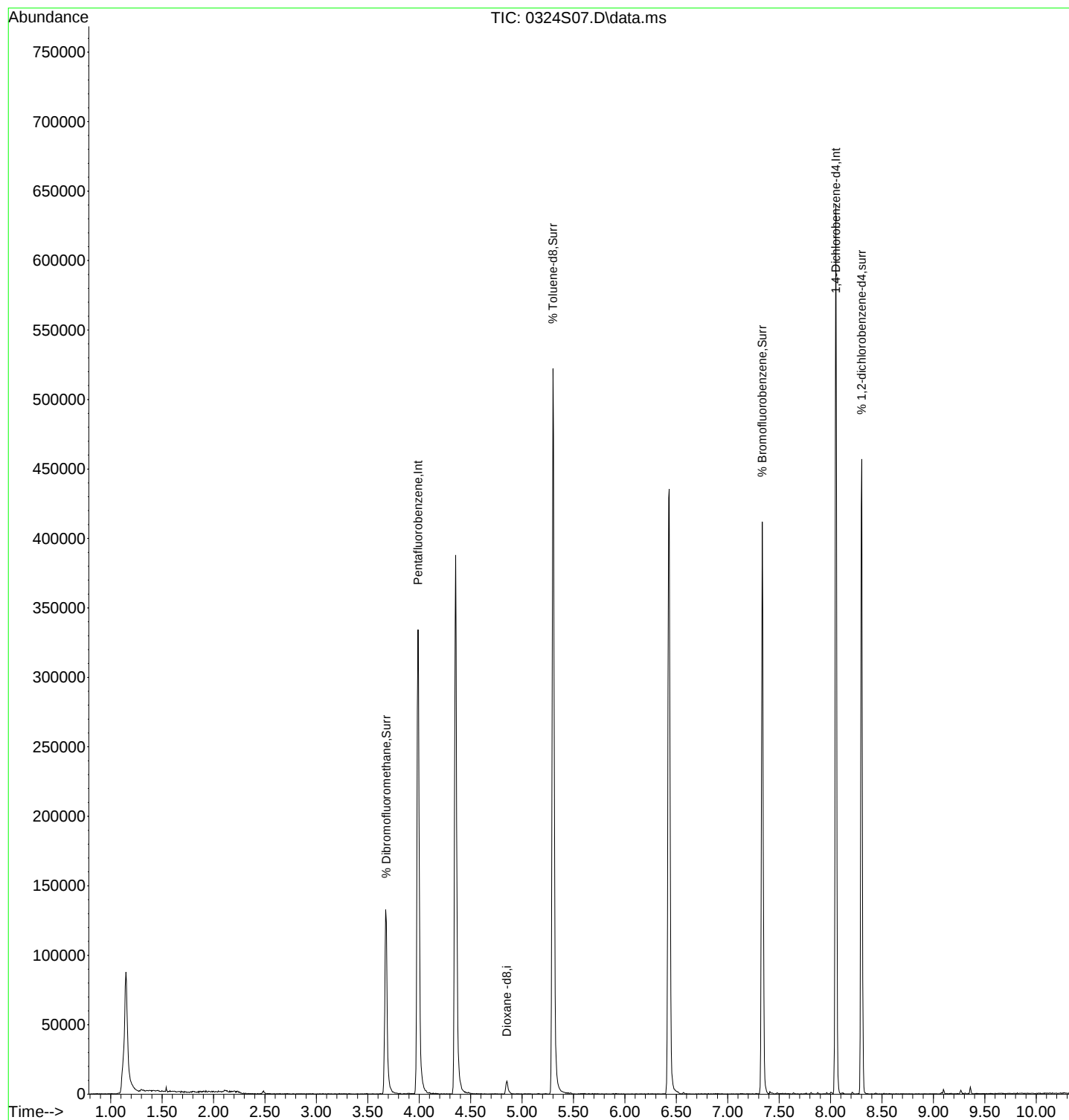
Internal Standards						
1) Pentafluorobenzene	3.988	168	160129	10.00	ug/l	0.00
25) 1,4-Difluorobenzene	4.354	114	211491	10.00	ug/l	0.00
41) Chlorobenzene-d5	6.431	117	177919	10.00	ug/l	0.00
53) 1,4-Dichlorobenzene-d4	8.052	152	92934	10.00	ug/l	# 0.00
63) Dioxane -d8	4.851	96	5126m	500.00	ug/l	0.00
System Monitoring Compounds						
23) % Dibromofluoromethane	3.680	192	11288	8.83	ug/l	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	88.30%
36) % Toluene-d8	5.301	98	250465	9.81	ug/l	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	98.10%
52) % Bromofluorobenzene	7.336	95	92390	9.47	ug/l	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	94.70%
54) % 1,2-dichlorobenzene-d4	8.303	152	69177	9.70	ug/l	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	97.00%

Target Compounds	Qvalue
-----	-----

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : H:\V2015\CHEM17\03MAR\032415\
Data File : 0324S07.D
Acq On : 24 Mar 2015 11:24 am
Operator :
Sample : HCL BLANK
Misc : BH86681 BLANK
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 12:35:05 2015
Quant Method : H:\V2015\CHEM17\Methods\TCLNJ0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Mar 24 08:24:49 2015
Response via : Initial Calibration



Injection Log

Data Directory: H:\V2015\CHEM17\03MAR\032315\

Line	VL	FileName	SampleName	MiscInfo	Injection Time
1)	1	0323S01.D	BLANK		03/23/15 7:22
2)	1	0323S02.D	VOA-10 PPB STD.	88-A 3/23 RC	03/23/15 7:45
3)	1	0323S03.D	VOA-10 PPB STD.	88-A 3/23 RC	03/23/15 8:08
4)	1	0323S04.D	LCS-VOA-10 PPB STD.	90-F 3/23 RC	03/23/15 8:31
5)	1	0323S05.D	BLANK	INT STD FILLED	03/23/15 10:19
6)	1	0323S06.D	VOA-10 PPB STD.	88-A 3/23 RC	03/23/15 10:42
7)	1	0323S07.D	BLANK		03/23/15 12:01
8)	1	0323S08.D	VOA-10 PPB STD.	88-A 3/23 RC	03/23/15 12:24
9)	1	0323S09.D	LCS-VOA-10 PPB STD.	90-F 3/23 RC	03/23/15 12:47
10)	1	0323S10.D	LCS-VOA-10 PPB STD.	90-F 3/23 RC	03/23/15 13:10
11)	1	0323S11.D	BLANK	HCL	03/23/15 13:33
12)	1	0323S12.D	BLANK	TUNE	03/23/15 14:18
13)	1	0323S13.D	VOA-.5 PPB STD.	ICAL 0.50	03/23/15 14:41
14)	1	0323S14.D	VOA-2 PPB STD.	ICAL 2.0	03/23/15 15:04
15)	1	0323S15.D	VOA-4 PPB STD.	ICAL 4.0	03/23/15 15:27
16)	1	0323S16.D	VOA-10 PPB STD.	ICAL 10	03/23/15 15:50
17)	1	0323S17.D	VOA-20 PPB STD.	ICAL 20	03/23/15 16:13
18)	1	0323S18.D	VOA-30 PPB STD.	ICAL 30	03/23/15 16:36
19)	1	0323S19.D	BLANK	TUNE	03/23/15 16:59
20)	1	0323S20.D	VOA-10 PPB STD.	CCAL 10	03/23/15 17:22
21)	1	0323S21.D	LCS-VOA-10 PPB STD.	BH86059 LCS	03/23/15 17:45
22)	1	0323S22.D	LCS-VOA-10 PPB STD.	BH86059 LCSD	03/23/15 18:08
23)	1	0323S23.D	BLANK	HCL	03/23/15 18:31
24)	1	0323S24.D	BLANK	BH86059 BLANK	03/23/15 18:54
25)	1	0323S25.D	BH86232 10X	GW 2 DILUTION	03/23/15 19:17
26)	1	0323S26.D	BH86231 #2 100X Ph<=2	\$DP_8021SWR ASP (72H	03/23/15 19:40
27)	1	0323S27.D	BLANK		03/23/15 20:08
28)	1	0323S28.D	SPIKE-10 PPB STD.	92-G 03/23 AS	03/23/15 20:31
29)	1	0323S29.D	SPIKED-10 PPB STD.	92-G 03/23 AS	03/23/15 20:54
30)	1	0323S30.D	VOA-10 PPB STD.	92-G 03/23 AS	03/23/15 21:17
31)	1	0323S31.D	SPIKE-10 PPB STD.	BH86059 MS	03/23/15 21:43
32)	1	0323S32.D	SPIKED-10 PPB STD.	BH86059 MSD	03/23/15 22:06
33)	1	0323S33.D	VOA-10 PPB STD.	CCCAL 10	03/23/15 22:29
34)	1	0323S34.D	BLANK		03/23/15 23:15
35)	1	0323S35.D	BH86059 #2 1X Ph<=2 V	\$8260GWR RCP 03/25	03/23/15 23:38
36)	1	0323S36.D	BH86064 #2 1X Ph>2 V3	\$8260GWR RCP 03/25	03/24/15 12:01
37)	1	0323S37.D	BH86061 #2 10X Ph<=2	\$8260GWR RCP 03/25	03/24/15 12:24
38)	1	0323S38.D	BLANK		03/24/15 12:47
39)	1	0323S39.D	BH86185 #2 1X Ph<=2 V	\$8260GWR (72Hr) 03/2	03/24/15 1:10
40)	1	0323S40.D	BH86187 #3 1X Ph<=2 V	\$8260GWR (72Hr) 03/2	03/24/15 1:33
41)	1	0323S41.D	BLANK	Rinse Blank	03/24/15 1:56

Injection Log

Data Directory: H:\V2015\CHEM17\03MAR\032415\

Line	VI	FileName	SampleName	MiscInfo	Injection Time
1)	1	0323S41.D	BH86185 #3 5X Ph=<=2	v \$8260GWR (72Hr) 03/2	03/25/15 1:52
2)	1	0323S42.D	BLANK	Rinse Blank	03/25/15 2:15
3)	1	0323S43.D	BH87504 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 2:38
4)	1	0323S44.D	BH87490 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 3:01
5)	1	0323S45.D	BH87491 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 3:24
6)	1	0323S46.D	BH87492 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 3:47
7)	1	0323S47.D	BH87493 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 4:11
8)	1	0323S48.D	BH87494 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 4:34
9)	1	0323S49.D	BH87495 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 4:57
10)	1	0323S50.D	BH87496 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 5:20
11)	1	0323S51.D	BH87497 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 5:43
12)	1	0323S52.D	BH87498 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 6:06
13)	1	0323S53.D	BH87499 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 6:29
14)	1	0323S54.D	BH87500 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 6:52
15)	1	0323S55.D	BH87501 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 7:15
16)	1	0323S56.D	BH87502 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 7:38
17)	1	0323S57.D	BH87503 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 8:01
18)	1	0323S58.D	BH87496 #2 5X Ph=<=2	V \$8260DWR RCP 03/27	03/25/15 8:24
19)	1	0323S59.D	BH87498 #2 5X Ph=<=2	V \$8260DWR RCP 03/27	03/25/15 8:47
20)	1	0323S60.D	BH86185 #4 10X Ph=<=2	\$8260GWR (72Hr) 03/2	03/25/15 9:10
21)	1	0323S61.D	SPIKE 10-PPB	92-G 03/24 AS	03/25/15 9:34
22)	1	0323S62.D	SPIKED 10-PPB	92-G 03/24 AS	03/25/15 9:57
23)	1	0324S01.D	BLANK	TUNE	03/24/15 8:56
24)	1	0324S02.D	VOA-10 PPB STD.	92-G 3/24 RC	03/24/15 9:19
25)	1	0324S03.D	VOA-10 PPB STD.	CCAL 10	03/24/15 9:42
26)	1	0324S04.D	VOA-LCS-10 PPB STD.	BH86681 LCS	03/24/15 10:05
27)	1	0324S05.D	VOA-LCSD-10 PPB STD.	BH86681 LCSD	03/24/15 10:28
28)	1	0324S06.D	HCL BLANK		03/24/15 10:51
29)	1	0324S07.D	HCL BLANK	BH86681 BLANK	03/24/15 11:24
30)	1	0324S08.D	BH86681	MW-5D	03/24/15 11:47
31)	1	0324S09.D	BH86682	MW-6S	03/24/15 12:10
32)	1	0324S10.D	BH86683	MW-6D	03/24/15 12:33
33)	1	0324S11.D	BH86684	MW-7S	03/24/15 12:56
34)	1	0324S12.D	BH86685	MW-7D	03/24/15 13:19
35)	1	0324S13.D	BH86686	MW-8S	03/24/15 13:42
36)	1	0324S14.D	BH86687	MW-8D	03/24/15 14:05
37)	1	0324S15.D	BH86688	FIELD BLANK	03/24/15 14:28
38)	1	0324S16.D	BH86689	TRIP BLANK	03/24/15 14:51
39)	1	0324S17.D	SPIKE 10-PPB	BH86681 MS	03/24/15 15:14
40)	1	0324S18.D	SPIKED 10-PPB	BH86681 MSD	03/24/15 15:37
41)	1	0324S19.D	VOA-10 PPB STD.	CCCAL 10	03/24/15 16:00
42)	1	0324S20.D	BLANK		03/24/15 16:23
43)	1	0324S21.D	BH86005 #4 1X Ph=<=2	v \$8260GWR MCP /LIB 03	03/24/15 16:46
44)	1	0324S22.D	BLANK		03/24/15 17:09
45)	1	0324S23.D	BH86231 500X	GW 1 DILUTION	03/24/15 17:32
46)	1	0324S24.D	BH86231 100X	GW 1	03/24/15 17:55
47)	1	0324S25.D	BLANK	Rinse Blank	03/24/15 18:18
48)	1	0324S26.D	BH86064 #3 5X Ph=>2	v2 \$8260GWR RCP 03/25	03/24/15 18:41
49)	1	0324S27.D	VOA-10 PPB STD.	CCCAL 10	03/24/15 19:04
50)	1	0324S28.D	VOA-10 PPB STD.	92-G 03/14 AS	03/24/15 19:43
51)	1	0324S29.D	VOA-10 PPB STD.	92-G 03/14 AS	03/24/15 20:28
52)	1	0324S30.D	VOA-10 PPB STD.	92-G 03/14 AS	03/24/15 21:00
53)	1	0324S31.D	BLANK		03/24/15 21:28
54)	1	0324S32.D	VOA-10 PPB STD.	92-G 03/14 AS	03/24/15 21:51
55)	1	0324S33.D	VOA-10 PPB STD.	92-G 03/14 AS	03/24/15 22:20
56)	1	0324S34.D	BLANK		03/24/15 22:50
57)	1	0324S35.D	VOA-10 PPB STD.	92-G 03/14 AS	03/24/15 23:13
58)	1	0324S36.D	VOA-10 PPB STD.	92-G 03/14 AS	03/24/15 23:42
59)	1	0324S37.D	LCS-VOA-10 PPB STD.	90-F 03/14 AS	03/25/15 12:12
60)	1	0324S38.D	LCSD-VOA-10 PPB STD.	90-F 03/14 AS	03/25/15 12:35
61)	1	0324S39.D	BLANK		03/25/15 1:06
62)	1	0324S40.D	BLANK	WITH HCL	03/25/15 1:29

Injection Log

Data Directory: H:\V2015\CHEM17\03MAR\032415\

Line	VI	FileName	SampleName	MiscInfo	Injection Time
1)	1	0323S41.D	BH86185 #3 5X Ph=<=2	v \$8260GWR (72Hr) 03/2	03/25/15 1:52
2)	1	0323S42.D	BLANK	Rinse Blank	03/25/15 2:15
3)	1	0323S43.D	BH87504 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 2:38
4)	1	0323S44.D	BH87490 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 3:01
5)	1	0323S45.D	BH87491 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 3:24
6)	1	0323S46.D	BH87492 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 3:47
7)	1	0323S47.D	BH87493 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 4:11
8)	1	0323S48.D	BH87494 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 4:34
9)	1	0323S49.D	BH87495 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 4:57
10)	1	0323S50.D	BH87496 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 5:20
11)	1	0323S51.D	BH87497 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 5:43
12)	1	0323S52.D	BH87498 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 6:06
13)	1	0323S53.D	BH87499 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 6:29
14)	1	0323S54.D	BH87500 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 6:52
15)	1	0323S55.D	BH87501 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 7:15
16)	1	0323S56.D	BH87502 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 7:38
17)	1	0323S57.D	BH87503 #1 1X Ph=<=2	v \$8260DWR RCP 03/27	03/25/15 8:01
18)	1	0323S58.D	BH87496 #2 5X Ph=<=2	V \$8260DWR RCP 03/27	03/25/15 8:24
19)	1	0323S59.D	BH87498 #2 5X Ph=<=2	V \$8260DWR RCP 03/27	03/25/15 8:47
20)	1	0323S60.D	BH86185 #4 10X Ph=<=2	\$8260GWR (72Hr) 03/2	03/25/15 9:10
21)	1	0323S61.D	SPIKE 10-PPB	92-G 03/24 AS	03/25/15 9:34
22)	1	0323S62.D	SPIKED 10-PPB	92-G 03/24 AS	03/25/15 9:57
23)	1	0324S01.D	BLANK	TUNE	03/24/15 8:56
24)	1	0324S02.D	VOA-10 PPB STD.	92-G 3/24 RC	03/24/15 9:19
25)	1	0324S03.D	VOA-10 PPB STD.	CCAL 10	03/24/15 9:42
26)	1	0324S04.D	VOA-LCS-10 PPB STD.	BH86005 LCS	03/24/15 10:05
27)	1	0324S05.D	VOA-LCSD-10 PPB STD.	BH86005 LCSD	03/24/15 10:28
28)	1	0324S06.D	HCL BLANK		03/24/15 10:51
29)	1	0324S07.D	HCL BLANK	BH86005 BLANK	03/24/15 11:24
30)	1	0324S08.D	BH86681	MW-5D	03/24/15 11:47
31)	1	0324S09.D	BH86682	MW-6S	03/24/15 12:10
32)	1	0324S10.D	BH86683	MW-6D	03/24/15 12:33
33)	1	0324S11.D	BH86684	MW-7S	03/24/15 12:56
34)	1	0324S12.D	BH86685	MW-7D	03/24/15 13:19
35)	1	0324S13.D	BH86686	MW-8S	03/24/15 13:42
36)	1	0324S14.D	BH86687	MW-8D	03/24/15 14:05
37)	1	0324S15.D	BH86688	FIELD BLANK	03/24/15 14:28
38)	1	0324S16.D	BH86689	TRIP BLANK	03/24/15 14:51
39)	1	0324S17.D	SPIKE 10-PPB	BH86005 MS	03/24/15 15:14
40)	1	0324S18.D	SPIKED 10-PPB	BH86005 MSD	03/24/15 15:37
41)	1	0324S19.D	VOA-10 PPB STD.	CCCAL 10	03/24/15 16:00
42)	1	0324S20.D	BLANK		03/24/15 16:23
43)	1	0324S21.D	BH86005 #4 1X Ph=<=2	v \$8260GWR MCP /LIB 03	03/24/15 16:46
44)	1	0324S22.D	BLANK		03/24/15 17:09
45)	1	0324S23.D	BH86231 500X	GW 1 DILUTION	03/24/15 17:32
46)	1	0324S24.D	BH86231 100X	GW 1	03/24/15 17:55
47)	1	0324S25.D	BLANK	Rinse Blank	03/24/15 18:18
48)	1	0324S26.D	BH86064 #3 5X Ph=>2	v2 \$8260GWR RCP 03/25	03/24/15 18:41
49)	1	0324S27.D	VOA-10 PPB STD.	CCCAL 10	03/24/15 19:04
50)	1	0324S28.D	VOA-10 PPB STD.	92-G 03/14 AS	03/24/15 19:43
51)	1	0324S29.D	VOA-10 PPB STD.	92-G 03/14 AS	03/24/15 20:28
52)	1	0324S30.D	VOA-10 PPB STD.	92-G 03/14 AS	03/24/15 21:00
53)	1	0324S31.D	BLANK		03/24/15 21:28
54)	1	0324S32.D	VOA-10 PPB STD.	92-G 03/14 AS	03/24/15 21:51
55)	1	0324S33.D	VOA-10 PPB STD.	92-G 03/14 AS	03/24/15 22:20
56)	1	0324S34.D	BLANK		03/24/15 22:50
57)	1	0324S35.D	VOA-10 PPB STD.	92-G 03/14 AS	03/24/15 23:13
58)	1	0324S36.D	VOA-10 PPB STD.	92-G 03/14 AS	03/24/15 23:42
59)	1	0324S37.D	LCS-VOA-10 PPB STD.	90-F 03/14 AS	03/25/15 12:12
60)	1	0324S38.D	LCSD-VOA-10 PPB STD.	90-F 03/14 AS	03/25/15 12:35
61)	1	0324S39.D	BLANK		03/25/15 1:06
62)	1	0324S40.D	BLANK	WITH HCL	03/25/15 1:29



ANALYTICAL REPORT

Lab Number:	L1408501
Client:	Associated Environmental Services, Ltd. 25 Central Avenue Hauppauge, NY 11788
ATTN:	John Shretzmayer
Phone:	(631) 234-4280
Project Name:	SUTTER AVE
Project Number:	SUTTER AVE
Report Date:	04/30/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: SUTTER AVE
Project Number: SUTTER AVE

Lab Number: L1408501
Report Date: 04/30/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1408501-01	OA-1	1199 SUTTER AVE	04/21/14 17:47
L1408501-02	ASV-3	1199 SUTTER AVE	04/21/14 18:03
L1408501-03	ASV-5	1199 SUTTER AVE	04/21/14 17:58
L1408501-04	ASV-4	1199 SUTTER AVE	04/21/14 17:56
L1408501-05	ASV-2	1199 SUTTER AVE	04/21/14 17:49
L1408501-06	SSV-4	1199 SUTTER AVE	04/21/14 17:54
L1408501-07	SSV-5	1199 SUTTER AVE	04/21/14 17:53
L1408501-08	SSV-3	1199 SUTTER AVE	04/21/14 18:03
L1408501-09	SSV-2	1199 SUTTER AVE	04/21/14 17:49
L1408501-10	SSV-7	1199 SUTTER AVE	04/21/14 17:47
L1408501-11	SSV-6	1199 SUTTER AVE	04/21/14 17:45

Project Name: SUTTER AVE
Project Number: SUTTER AVE

Lab Number: L1408501
Report Date: 04/30/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: SUTTER AVE
Project Number: SUTTER AVE

Lab Number: L1408501
Report Date: 04/30/14

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 18, 2014. The canister certification results are provided as an addendum.

Sample L1408501-09 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Samples L1408501-10 and -11 have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

The WG684943-3 LCS recoveries for 1,2,4-Trichlorobenzene (139%) and Hexachlorobutadiene (136%) are above the upper 130% acceptance limit. The response for each of these compounds was elevated however they were not detected in any of the associated samples therefore no further action was taken.

The sample designated ASV-2 (L1408501-05) had a RPD for the pre- and post-flow controller calibration check (27% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 4.5 mL/minute; the final flow rate was 5.9 mL/minute. The final pressure recorded by the laboratory of the associated canister was -1.3 inches of mercury.

The sample designated SSV-3 (L1408501-08) had a RPD for the pre- and post-flow controller calibration check (39% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 4.3 mL/minute; the final flow rate was 6.4 mL/minute. The final pressure recorded by the laboratory of the associated canister was 0.3 inches of mercury.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 04/30/14

AIR

Project Name: SUTTER AVE**Project Number:** SUTTER AVE**Lab Number:** L1408501**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-01
Client ID: OA-1
Sample Location: 1199 SUTTER AVE
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/24/14 21:50
Analyst: RY

Date Collected: 04/21/14 17:47
Date Received: 04/22/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.563	0.050	--	2.78	0.247	--		1
Chloromethane	0.572	0.500	--	1.18	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.091	0.020	--	0.201	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	0.026	0.020	--	0.069	0.053	--		1
Trichlorofluoromethane	0.443	0.050	--	2.49	0.281	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	3.70	1.00	--	12.9	3.47	--		1
Freon-113	0.081	0.050	--	0.621	0.383	--		1
trans-1,2-Dichloroethene	0.034	0.020	--	0.135	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	0.032	0.020	--	0.156	0.098	--		1
1,2-Dichloroethane	0.404	0.020	--	1.64	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	3.46	0.100	--	11.1	0.319	--		1
Carbon tetrachloride	0.061	0.020	--	0.384	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1



Project Name: SUTTER AVE**Lab Number:** L1408501**Project Number:** SUTTER AVE**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-01
 Client ID: OA-1
 Sample Location: 1199 SUTTER AVE

Date Collected: 04/21/14 17:47
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	19.4	0.050	--	73.1	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.023	0.020	--	0.156	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	2.24	0.020	--	9.73	0.087	--		1
p/m-Xylene	8.57	0.040	--	37.2	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.070	0.020	--	0.298	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	2.63	0.020	--	11.4	0.087	--		1
4-Ethyltoluene	0.664	0.020	--	3.26	0.098	--		1
1,3,5-Trimethybenzene	0.737	0.020	--	3.62	0.098	--		1
1,2,4-Trimethylbenzene	2.50	0.020	--	12.3	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	103		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	96		60-140



Project Name: SUTTER AVE**Project Number:** SUTTER AVE**Lab Number:** L1408501**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-02
 Client ID: ASV-3
 Sample Location: 1199 SUTTER AVE
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/24/14 22:22
 Analyst: RY

Date Collected: 04/21/14 18:03
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.441	0.050	--	2.18	0.247	--		1
Chloromethane	0.836	0.500	--	1.73	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.184	0.020	--	0.407	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	0.035	0.020	--	0.092	0.053	--		1
Trichlorofluoromethane	1.28	0.050	--	7.19	0.281	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	0.093	0.050	--	0.713	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	1.65	0.020	--	8.06	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.452	0.100	--	1.44	0.319	--		1
Carbon tetrachloride	0.082	0.020	--	0.516	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	0.029	0.020	--	0.194	0.134	--		1
Trichloroethene	0.021	0.020	--	0.113	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1



Project Name: SUTTER AVE**Lab Number:** L1408501**Project Number:** SUTTER AVE**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-02
 Client ID: ASV-3
 Sample Location: 1199 SUTTER AVE

Date Collected: 04/21/14 18:03
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	3.91	0.050	--	14.7	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.145	0.020	--	0.983	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	0.311	0.020	--	1.35	0.087	--		1
p/m-Xylene	1.12	0.040	--	4.86	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.172	0.020	--	0.732	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.422	0.020	--	1.83	0.087	--		1
4-Ethyltoluene	0.262	0.020	--	1.29	0.098	--		1
1,3,5-Trimethybenzene	0.273	0.020	--	1.34	0.098	--		1
1,2,4-Trimethylbenzene	0.913	0.020	--	4.49	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	0.102	0.020	--	0.613	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	98		60-140



Project Name: SUTTER AVE**Project Number:** SUTTER AVE**Lab Number:** L1408501**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-03
Client ID: ASV-5
Sample Location: 1199 SUTTER AVE
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/24/14 22:53
Analyst: RY

Date Collected: 04/21/14 17:58
Date Received: 04/22/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.867	0.050	--	4.29	0.247	--		1
Chloromethane	0.735	0.500	--	1.52	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.087	0.020	--	0.192	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	0.024	0.020	--	0.063	0.053	--		1
Trichlorofluoromethane	1.10	0.050	--	6.18	0.281	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	1.38	1.00	--	4.79	3.47	--		1
Freon-113	0.128	0.050	--	0.981	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	1.00	0.020	--	4.88	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.321	0.100	--	1.03	0.319	--		1
Carbon tetrachloride	0.079	0.020	--	0.497	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	0.021	0.020	--	0.141	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1



Project Name: SUTTER AVE**Lab Number:** L1408501**Project Number:** SUTTER AVE**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-03

Date Collected: 04/21/14 17:58

Client ID: ASV-5

Date Received: 04/22/14

Sample Location: 1199 SUTTER AVE

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	1.56	0.050	--	5.88	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.101	0.020	--	0.685	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	0.181	0.020	--	0.786	0.087	--		1
p/m-Xylene	0.647	0.040	--	2.81	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.086	0.020	--	0.366	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.267	0.020	--	1.16	0.087	--		1
4-Ethyltoluene	0.160	0.020	--	0.787	0.098	--		1
1,3,5-Trimethybenzene	0.172	0.020	--	0.846	0.098	--		1
1,2,4-Trimethylbenzene	0.580	0.020	--	2.85	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	0.061	0.020	--	0.367	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	98		60-140



Project Name: SUTTER AVE**Project Number:** SUTTER AVE**Lab Number:** L1408501**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-04
 Client ID: ASV-4
 Sample Location: 1199 SUTTER AVE
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/24/14 23:25
 Analyst: RY

Date Collected: 04/21/14 17:56
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.697	0.050	--	3.45	0.247	--		1
Chloromethane	0.812	0.500	--	1.68	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.154	0.020	--	0.341	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	0.026	0.020	--	0.069	0.053	--		1
Trichlorofluoromethane	0.987	0.050	--	5.55	0.281	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	2.16	1.00	--	7.50	3.47	--		1
Freon-113	0.083	0.050	--	0.636	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	1.00	0.020	--	4.88	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.417	0.100	--	1.33	0.319	--		1
Carbon tetrachloride	0.077	0.020	--	0.484	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1



Project Name: SUTTER AVE**Lab Number:** L1408501**Project Number:** SUTTER AVE**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-04
 Client ID: ASV-4
 Sample Location: 1199 SUTTER AVE

Date Collected: 04/21/14 17:56
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	10.4	0.050	--	39.2	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.144	0.020	--	0.976	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	0.462	0.020	--	2.01	0.087	--		1
p/m-Xylene	1.39	0.040	--	6.04	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.171	0.020	--	0.728	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.517	0.020	--	2.25	0.087	--		1
4-Ethyltoluene	0.289	0.020	--	1.42	0.098	--		1
1,3,5-Trimethybenzene	0.300	0.020	--	1.47	0.098	--		1
1,2,4-Trimethylbenzene	0.918	0.020	--	4.51	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	0.100	0.020	--	0.601	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	98		60-140



Project Name: SUTTER AVE**Project Number:** SUTTER AVE**Lab Number:** L1408501**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-05
Client ID: ASV-2
Sample Location: 1199 SUTTER AVE
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/24/14 23:56
Analyst: RY

Date Collected: 04/21/14 17:49
Date Received: 04/22/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	1.22	0.050	--	6.03	0.247	--		1
Chloromethane	0.939	0.500	--	1.94	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.078	0.020	--	0.173	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	0.047	0.020	--	0.124	0.053	--		1
Trichlorofluoromethane	1.60	0.050	--	8.99	0.281	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	0.083	0.050	--	0.636	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	1.79	0.020	--	8.74	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.433	0.100	--	1.38	0.319	--		1
Carbon tetrachloride	0.090	0.020	--	0.566	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	0.026	0.020	--	0.174	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1



Project Name: SUTTER AVE**Lab Number:** L1408501**Project Number:** SUTTER AVE**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-05
 Client ID: ASV-2
 Sample Location: 1199 SUTTER AVE

Date Collected: 04/21/14 17:49
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	2.90	0.050	--	10.9	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.278	0.020	--	1.89	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	0.309	0.020	--	1.34	0.087	--		1
p/m-Xylene	1.20	0.040	--	5.21	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.201	0.020	--	0.856	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.497	0.020	--	2.16	0.087	--		1
4-Ethyltoluene	0.245	0.020	--	1.20	0.098	--		1
1,3,5-Trimethybenzene	0.250	0.020	--	1.23	0.098	--		1
1,2,4-Trimethylbenzene	0.886	0.020	--	4.36	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	0.175	0.020	--	1.05	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	102		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	100		60-140



Project Name: SUTTER AVE**Project Number:** SUTTER AVE**Lab Number:** L1408501**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-06
 Client ID: SSV-4
 Sample Location: 1199 SUTTER AVE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/25/14 00:28
 Analyst: RY

Date Collected: 04/21/14 17:54
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	1.83	0.050	--	9.05	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	6.76	0.020	--	15.0	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	0.024	0.020	--	0.063	0.053	--		1
Trichlorofluoromethane	0.725	0.050	--	4.07	0.281	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	0.090	0.050	--	0.690	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	1.39	0.020	--	6.79	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	0.043	0.020	--	0.235	0.109	--		1
Benzene	2.10	0.100	--	6.71	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	0.031	0.020	--	0.167	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1



Project Name: SUTTER AVE**Lab Number:** L1408501**Project Number:** SUTTER AVE**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-06
 Client ID: SSV-4
 Sample Location: 1199 SUTTER AVE

Date Collected: 04/21/14 17:54
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	12.1	0.050	--	45.6	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	2.42	0.020	--	16.4	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	3.36	0.020	--	14.6	0.087	--		1
p/m-Xylene	13.8	0.040	--	59.9	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.130	0.020	--	0.553	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	6.25	0.020	--	27.1	0.087	--		1
4-Ethyltoluene	1.32	0.020	--	6.49	0.098	--		1
1,3,5-Trimethybenzene	1.32	0.020	--	6.49	0.098	--		1
1,2,4-Trimethylbenzene	4.87	0.020	--	23.9	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	104		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	100		60-140



Project Name: SUTTER AVE**Project Number:** SUTTER AVE**Lab Number:** L1408501**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-07
 Client ID: SSV-5
 Sample Location: 1199 SUTTER AVE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/25/14 01:31
 Analyst: RY

Date Collected: 04/21/14 17:53
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.874	0.050	--	4.32	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.756	0.020	--	1.67	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	0.033	0.020	--	0.087	0.053	--		1
Trichlorofluoromethane	1.00	0.050	--	5.62	0.281	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	0.079	0.050	--	0.606	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
cis-1,2-Dichloroethene	0.041	0.020	--	0.163	0.079	--		1
Chloroform	3.81	0.020	--	18.6	0.098	--		1
1,2-Dichloroethane	0.101	0.020	--	0.409	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	1.54	0.100	--	4.92	0.319	--		1
Carbon tetrachloride	0.028	0.020	--	0.176	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	0.389	0.020	--	2.09	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1



Project Name: SUTTER AVE**Lab Number:** L1408501**Project Number:** SUTTER AVE**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-07

Date Collected: 04/21/14 17:53

Client ID: SSV-5

Date Received: 04/22/14

Sample Location: 1199 SUTTER AVE

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	14.7	0.050	--	55.4	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.427	0.020	--	2.90	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	3.00	0.020	--	13.0	0.087	--		1
p/m-Xylene	12.1	0.040	--	52.6	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.124	0.020	--	0.528	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	4.07	0.020	--	17.7	0.087	--		1
4-Ethyltoluene	1.27	0.020	--	6.24	0.098	--		1
1,3,5-Trimethybenzene	1.21	0.020	--	5.95	0.098	--		1
1,2,4-Trimethylbenzene	4.66	0.020	--	22.9	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	107		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	102		60-140



Project Name: SUTTER AVE**Project Number:** SUTTER AVE**Lab Number:** L1408501**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-08
 Client ID: SSV-3
 Sample Location: 1199 SUTTER AVE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/25/14 02:02
 Analyst: RY

Date Collected: 04/21/14 18:03
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	1.86	0.050	--	9.20	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	3.84	0.020	--	8.50	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	0.061	0.020	--	0.161	0.053	--		1
Trichlorofluoromethane	0.998	0.050	--	5.61	0.281	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	0.070	0.050	--	0.537	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	0.526	0.020	--	2.57	0.098	--		1
1,2-Dichloroethane	0.067	0.020	--	0.271	0.081	--		1
1,1,1-Trichloroethane	0.038	0.020	--	0.207	0.109	--		1
Benzene	1.05	0.100	--	3.35	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1



Project Name: SUTTER AVE**Lab Number:** L1408501**Project Number:** SUTTER AVE**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-08
 Client ID: SSV-3
 Sample Location: 1199 SUTTER AVE

Date Collected: 04/21/14 18:03
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	11.5	0.050	--	43.3	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.100	0.020	--	0.678	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	2.60	0.020	--	11.3	0.087	--		1
p/m-Xylene	10.8	0.040	--	46.9	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.114	0.020	--	0.485	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	3.65	0.020	--	15.9	0.087	--		1
4-Ethyltoluene	1.20	0.020	--	5.90	0.098	--		1
1,3,5-Trimethybenzene	1.17	0.020	--	5.75	0.098	--		1
1,2,4-Trimethylbenzene	4.38	0.020	--	21.5	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	111		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	104		60-140



Project Name: SUTTER AVE**Project Number:** SUTTER AVE**Lab Number:** L1408501**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-09 D
 Client ID: SSV-2
 Sample Location: 1199 SUTTER AVE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/25/14 02:34
 Analyst: RY

Date Collected: 04/21/14 17:49
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	6.13	--	ND	30.3	--		122.6
Chloromethane	ND	61.3	--	ND	127	--		122.6
Freon-114	ND	6.13	--	ND	42.8	--		122.6
Vinyl chloride	ND	2.45	--	ND	6.26	--		122.6
1,3-Butadiene	ND	2.45	--	ND	5.42	--		122.6
Bromomethane	ND	2.45	--	ND	9.51	--		122.6
Chloroethane	ND	2.45	--	ND	6.47	--		122.6
Trichlorofluoromethane	ND	6.13	--	ND	34.4	--		122.6
1,1-Dichloroethene	ND	2.45	--	ND	9.71	--		122.6
Methylene chloride	ND	123	--	ND	427	--		122.6
Freon-113	ND	6.13	--	ND	47.0	--		122.6
trans-1,2-Dichloroethene	ND	2.45	--	ND	9.71	--		122.6
1,1-Dichloroethane	ND	2.45	--	ND	9.92	--		122.6
Methyl tert butyl ether	ND	2.45	--	ND	8.83	--		122.6
cis-1,2-Dichloroethene	ND	2.45	--	ND	9.71	--		122.6
Chloroform	45.5	2.45	--	222	12.0	--		122.6
1,2-Dichloroethane	ND	2.45	--	ND	9.92	--		122.6
1,1,1-Trichloroethane	ND	2.45	--	ND	13.4	--		122.6
Benzene	ND	12.3	--	ND	39.3	--		122.6
Carbon tetrachloride	ND	2.45	--	ND	15.4	--		122.6
1,2-Dichloropropane	ND	2.45	--	ND	11.3	--		122.6
Bromodichloromethane	ND	2.45	--	ND	16.4	--		122.6
Trichloroethene	126	2.45	--	677	13.2	--		122.6
cis-1,3-Dichloropropene	ND	2.45	--	ND	11.1	--		122.6



Project Name: SUTTER AVE**Lab Number:** L1408501**Project Number:** SUTTER AVE**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-09 D
 Client ID: SSV-2
 Sample Location: 1199 SUTTER AVE

Date Collected: 04/21/14 17:49
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	2.45	--	ND	11.1	--		122.6
1,1,2-Trichloroethane	ND	2.45	--	ND	13.4	--		122.6
Toluene	10.8	6.13	--	40.7	23.1	--		122.6
Dibromochloromethane	ND	2.45	--	ND	20.9	--		122.6
1,2-Dibromoethane	ND	2.45	--	ND	18.8	--		122.6
Tetrachloroethene	2960	2.45	--	20100	16.6	--		122.6
1,1,1,2-Tetrachloroethane	ND	2.45	--	ND	16.8	--		122.6
Chlorobenzene	ND	2.45	--	ND	11.3	--		122.6
Ethylbenzene	2.45	2.45	--	10.6	10.6	--		122.6
p/m-Xylene	9.44	4.90	--	41.0	21.3	--		122.6
Bromoform	ND	2.45	--	ND	25.3	--		122.6
Styrene	ND	2.45	--	ND	10.4	--		122.6
1,1,2,2-Tetrachloroethane	ND	2.45	--	ND	16.8	--		122.6
o-Xylene	3.19	2.45	--	13.9	10.6	--		122.6
4-Ethyltoluene	ND	2.45	--	ND	12.0	--		122.6
1,3,5-Trimethybenzene	ND	2.45	--	ND	12.0	--		122.6
1,2,4-Trimethylbenzene	3.31	2.45	--	16.3	12.0	--		122.6
1,3-Dichlorobenzene	ND	2.45	--	ND	14.7	--		122.6
1,4-Dichlorobenzene	ND	2.45	--	ND	14.7	--		122.6
1,2-Dichlorobenzene	ND	2.45	--	ND	14.7	--		122.6
1,2,4-Trichlorobenzene	ND	6.13	--	ND	45.5	--		122.6
Hexachlorobutadiene	ND	6.13	--	ND	65.4	--		122.6

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	115		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	108		60-140



Project Name: SUTTER AVE**Project Number:** SUTTER AVE**Lab Number:** L1408501**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-10 D
 Client ID: SSV-7
 Sample Location: 1199 SUTTER AVE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/25/14 03:05
 Analyst: RY

Date Collected: 04/21/14 17:47
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.640	0.500	--	3.16	2.47	--		10
Chloromethane	ND	5.00	--	ND	10.3	--		10
Freon-114	ND	0.500	--	ND	3.49	--		10
Vinyl chloride	ND	0.200	--	ND	0.511	--		10
1,3-Butadiene	0.620	0.200	--	1.37	0.442	--		10
Bromomethane	ND	0.200	--	ND	0.777	--		10
Chloroethane	ND	0.200	--	ND	0.528	--		10
Trichlorofluoromethane	ND	0.500	--	ND	2.81	--		10
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		10
Methylene chloride	ND	10.0	--	ND	34.7	--		10
Freon-113	ND	0.500	--	ND	3.83	--		10
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		10
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		10
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		10
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		10
Chloroform	ND	0.200	--	ND	0.977	--		10
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		10
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		10
Benzene	1.42	1.00	--	4.54	3.19	--		10
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		10
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		10
Bromodichloromethane	ND	0.200	--	ND	1.34	--		10
Trichloroethene	ND	0.200	--	ND	1.07	--		10
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		10



Project Name: SUTTER AVE**Lab Number:** L1408501**Project Number:** SUTTER AVE**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-10 D
 Client ID: SSV-7
 Sample Location: 1199 SUTTER AVE

Date Collected: 04/21/14 17:47
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		10
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		10
Toluene	13.4	0.500	--	50.5	1.88	--		10
Dibromochloromethane	ND	0.200	--	ND	1.70	--		10
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		10
Tetrachloroethene	ND	0.200	--	ND	1.36	--		10
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		10
Chlorobenzene	ND	0.200	--	ND	0.921	--		10
Ethylbenzene	2.57	0.200	--	11.2	0.869	--		10
p/m-Xylene	9.74	0.400	--	42.3	1.74	--		10
Bromoform	ND	0.200	--	ND	2.07	--		10
Styrene	ND	0.200	--	ND	0.852	--		10
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		10
o-Xylene	3.26	0.200	--	14.2	0.869	--		10
4-Ethyltoluene	0.860	0.200	--	4.23	0.983	--		10
1,3,5-Trimethybenzene	0.850	0.200	--	4.18	0.983	--		10
1,2,4-Trimethylbenzene	3.07	0.200	--	15.1	0.983	--		10
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		10
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		10
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		10
1,2,4-Trichlorobenzene	ND	0.500	--	ND	3.71	--		10
Hexachlorobutadiene	ND	0.500	--	ND	5.33	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	109		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	99		60-140



Project Name: SUTTER AVE**Project Number:** SUTTER AVE**Lab Number:** L1408501**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-11 D
 Client ID: SSV-6
 Sample Location: 1199 SUTTER AVE
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/25/14 03:36
 Analyst: RY

Date Collected: 04/21/14 17:45
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	2.04	--	ND	10.1	--		40.9
Chloromethane	ND	20.4	--	ND	42.1	--		40.9
Freon-114	ND	2.04	--	ND	14.3	--		40.9
Vinyl chloride	ND	0.818	--	ND	2.09	--		40.9
1,3-Butadiene	1.35	0.818	--	2.99	1.81	--		40.9
Bromomethane	ND	0.818	--	ND	3.18	--		40.9
Chloroethane	ND	0.818	--	ND	2.16	--		40.9
Trichlorofluoromethane	ND	2.04	--	ND	11.5	--		40.9
1,1-Dichloroethene	ND	0.818	--	ND	3.24	--		40.9
Methylene chloride	ND	40.9	--	ND	142	--		40.9
Freon-113	ND	2.04	--	ND	15.6	--		40.9
trans-1,2-Dichloroethene	ND	0.818	--	ND	3.24	--		40.9
1,1-Dichloroethane	ND	0.818	--	ND	3.31	--		40.9
Methyl tert butyl ether	ND	0.818	--	ND	2.95	--		40.9
cis-1,2-Dichloroethene	ND	0.818	--	ND	3.24	--		40.9
Chloroform	ND	0.818	--	ND	3.99	--		40.9
1,2-Dichloroethane	ND	0.818	--	ND	3.31	--		40.9
1,1,1-Trichloroethane	ND	0.818	--	ND	4.46	--		40.9
Benzene	ND	4.09	--	ND	13.1	--		40.9
Carbon tetrachloride	ND	0.818	--	ND	5.15	--		40.9
1,2-Dichloropropane	ND	0.818	--	ND	3.78	--		40.9
Bromodichloromethane	ND	0.818	--	ND	5.48	--		40.9
Trichloroethene	1.43	0.818	--	7.69	4.40	--		40.9
cis-1,3-Dichloropropene	ND	0.818	--	ND	3.71	--		40.9



Project Name: SUTTER AVE**Lab Number:** L1408501**Project Number:** SUTTER AVE**Report Date:** 04/30/14**SAMPLE RESULTS**

Lab ID: L1408501-11 D
 Client ID: SSV-6
 Sample Location: 1199 SUTTER AVE

Date Collected: 04/21/14 17:45
 Date Received: 04/22/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,3-Dichloropropene	ND	0.818	--	ND	3.71	--		40.9
1,1,2-Trichloroethane	ND	0.818	--	ND	4.46	--		40.9
Toluene	15.7	2.04	--	59.2	7.69	--		40.9
Dibromochloromethane	ND	0.818	--	ND	6.97	--		40.9
1,2-Dibromoethane	ND	0.818	--	ND	6.29	--		40.9
Tetrachloroethene	31.5	0.818	--	214	5.55	--		40.9
1,1,1,2-Tetrachloroethane	ND	0.818	--	ND	5.62	--		40.9
Chlorobenzene	ND	0.818	--	ND	3.77	--		40.9
Ethylbenzene	2.62	0.818	--	11.4	3.55	--		40.9
p/m-Xylene	9.45	1.64	--	41.0	7.12	--		40.9
Bromoform	ND	0.818	--	ND	8.46	--		40.9
Styrene	ND	0.818	--	ND	3.48	--		40.9
1,1,2,2-Tetrachloroethane	ND	0.818	--	ND	5.62	--		40.9
o-Xylene	3.19	0.818	--	13.9	3.55	--		40.9
4-Ethyltoluene	ND	0.818	--	ND	4.02	--		40.9
1,3,5-Trimethybenzene	ND	0.818	--	ND	4.02	--		40.9
1,2,4-Trimethylbenzene	2.00	0.818	--	9.83	4.02	--		40.9
1,3-Dichlorobenzene	ND	0.818	--	ND	4.92	--		40.9
1,4-Dichlorobenzene	ND	0.818	--	ND	4.92	--		40.9
1,2-Dichlorobenzene	ND	0.818	--	ND	4.92	--		40.9
1,2,4-Trichlorobenzene	ND	2.04	--	ND	15.1	--		40.9
Hexachlorobutadiene	ND	2.04	--	ND	21.8	--		40.9

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	115		60-140
bromochloromethane	106		60-140
chlorobenzene-d5	104		60-140



Project Name: SUTTER AVE

Lab Number: L1408501

Project Number: SUTTER AVE

Report Date: 04/30/14

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/24/14 18:01

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-11 Batch: WG684943-4								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1



Project Name: SUTTER AVE

Lab Number: L1408501

Project Number: SUTTER AVE

Report Date: 04/30/14

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/24/14 18:01

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-11 Batch: WG684943-4								
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1



Project Name: SUTTER AVE

Lab Number: L1408501

Project Number: SUTTER AVE

Report Date: 04/30/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/24/14 18:01

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-11 Batch: WG684943-4								

Lab Control Sample Analysis

Batch Quality Control

Project Name: SUTTER AVE

Project Number: SUTTER AVE

Lab Number: L1408501

Report Date: 04/30/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-11 Batch: WG684943-3								
Dichlorodifluoromethane	103		-		70-130	-		25
Chloromethane	109		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	119		-		70-130	-		25
Vinyl chloride	112		-		70-130	-		25
1,3-Butadiene	114		-		70-130	-		25
Bromomethane	121		-		70-130	-		25
Chloroethane	112		-		70-130	-		25
Acetone	109		-		70-130	-		25
Trichlorofluoromethane	122		-		70-130	-		25
Acrylonitrile	97		-		70-130	-		25
1,1-Dichloroethene	107		-		70-130	-		25
Methylene chloride	103		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	115		-		70-130	-		25
Halothane	107		-		70-130	-		25
trans-1,2-Dichloroethene	95		-		70-130	-		25
1,1-Dichloroethane	109		-		70-130	-		25
Methyl tert butyl ether	104		-		70-130	-		25
2-Butanone	94		-		70-130	-		25
cis-1,2-Dichloroethene	114		-		70-130	-		25
Chloroform	117		-		70-130	-		25
1,2-Dichloroethane	107		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: SUTTER AVE

Project Number: SUTTER AVE

Lab Number: L1408501

Report Date: 04/30/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-11 Batch: WG684943-3								
1,1,1-Trichloroethane	109		-		70-130	-		25
Benzene	106		-		70-130	-		25
Carbon tetrachloride	108		-		70-130	-		25
1,2-Dichloropropane	102		-		70-130	-		25
Bromodichloromethane	103		-		70-130	-		25
1,4-Dioxane	100		-		70-130	-		25
Trichloroethene	110		-		70-130	-		25
cis-1,3-Dichloropropene	108		-		70-130	-		25
4-Methyl-2-pentanone	104		-		70-130	-		25
trans-1,3-Dichloropropene	94		-		70-130	-		25
1,1,2-Trichloroethane	114		-		70-130	-		25
Toluene	110		-		70-130	-		25
Dibromochloromethane	96		-		70-130	-		25
1,2-Dibromoethane	111		-		70-130	-		25
Tetrachloroethene	112		-		70-130	-		25
1,1,1,2-Tetrachloroethane	102		-		70-130	-		25
Chlorobenzene	115		-		70-130	-		25
Ethylbenzene	111		-		70-130	-		25
p/m-Xylene	114		-		70-130	-		25
Bromoform	92		-		70-130	-		25
Styrene	119		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: SUTTER AVE

Project Number: SUTTER AVE

Lab Number: L1408501

Report Date: 04/30/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-11 Batch: WG684943-3								
1,1,2,2-Tetrachloroethane	118		-		70-130	-		25
o-Xylene	114		-		70-130	-		25
Isopropylbenzene	107		-		70-130	-		25
4-Ethyltoluene	104		-		70-130	-		25
1,3,5-Trimethylbenzene	115		-		70-130	-		25
1,2,4-Trimethylbenzene	119		-		70-130	-		25
1,3-Dichlorobenzene	125		-		70-130	-		25
1,4-Dichlorobenzene	119		-		70-130	-		25
sec-Butylbenzene	108		-		70-130	-		25
p-Isopropyltoluene	102		-		70-130	-		25
1,2-Dichlorobenzene	121		-		70-130	-		25
n-Butylbenzene	117		-		70-130	-		25
1,2,4-Trichlorobenzene	139	Q	-		70-130	-		25
Naphthalene	129		-		70-130	-		25
1,2,3-Trichlorobenzene	130		-		70-130	-		25
Hexachlorobutadiene	136	Q	-		70-130	-		25

Lab Duplicate Analysis Batch Quality Control

Project Name: SUTTER AVE

Project Number: SUTTER AVE

Lab Number: L1408501

Report Date: 04/30/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG684943-5 QC Sample: L1408501-06 Client ID: SSV-4						
Dichlorodifluoromethane	1.83	1.70	ppbV	7		25
Chloromethane	ND	ND	ppbV	NC		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	6.76	6.71	ppbV	1		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	0.024	0.023	ppbV	4		25
Trichlorofluoromethane	0.725	0.711	ppbV	2		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
Freon-113	0.090	0.088	ppbV	2		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Chloroform	1.39	1.34	ppbV	4		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	0.043	0.043	ppbV	0		25
Benzene	2.10	2.07	ppbV	1		25

Lab Duplicate Analysis Batch Quality Control

Project Name: SUTTER AVE

Project Number: SUTTER AVE

Lab Number: L1408501

Report Date: 04/30/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG684943-5 QC Sample: L1408501-06 Client ID: SSV-4					
Carbon tetrachloride	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Trichloroethene	0.031	0.033	ppbV	6	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	12.1	12.3	ppbV	2	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	2.42	2.47	ppbV	2	25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	3.36	3.45	ppbV	3	25
p/m-Xylene	13.8	14.1	ppbV	2	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	0.130	0.134	ppbV	3	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	6.25	6.42	ppbV	3	25

Lab Duplicate Analysis Batch Quality Control

Project Name: SUTTER AVE

Project Number: SUTTER AVE

Lab Number: L1408501

Report Date: 04/30/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG684943-5 QC Sample: L1408501-06 Client ID: SSV-4					
4-Ethyltoluene	1.32	1.36	ppbV	3	25
1,3,5-Trimethylbenzene	1.32	1.36	ppbV	3	25
1,2,4-Trimethylbenzene	4.87	4.98	ppbV	2	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: SUTTER AVE

Project Number: SUTTER AVE

Serial_No:04301413:51
Lab Number: L1408501

Report Date: 04/30/14

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1408501-01	OA-1	0415	#16 AMB	04/18/14	101471		-	-	-	Pass	4.3	4.3	0
L1408501-01	OA-1	211	2.7L Can	04/18/14	101471	L1407475-01	Pass	-30.0	-4.9	-	-	-	-
L1408501-02	ASV-3	0129	#16 AMB	04/18/14	101471		-	-	-	Pass	4.5	4.6	2
L1408501-02	ASV-3	217	2.7L Can	04/18/14	101471	L1407143-01	Pass	-29.9	-6.1	-	-	-	-
L1408501-03	ASV-5	0168	#16 AMB	04/18/14	101471		-	-	-	Pass	4.5	4.4	2
L1408501-03	ASV-5	529	2.7L Can	04/18/14	101471	L1407475-01	Pass	-29.6	-5.6	-	-	-	-
L1408501-04	ASV-4	0270	#16 AMB	04/18/14	101471		-	-	-	Pass	4.5	4.6	2
L1408501-04	ASV-4	464	2.7L Can	04/18/14	101471	L1407143-01	Pass	-28.0	-3.6	-	-	-	-
L1408501-05	ASV-2	0085	#16 AMB	04/18/14	101471		-	-	-	Pass	4.5	5.9	27
L1408501-05	ASV-2	172	2.7L Can	04/18/14	101471	L1407475-01	Pass	-29.9	-1.3	-	-	-	-
L1408501-06	SSV-4	0082	#16 AMB	04/18/14	101471		-	-	-	Pass	4.2	4.5	7
L1408501-06	SSV-4	507	2.7L Can	04/18/14	101471	L1407143-01	Pass	-29.9	-5.9	-	-	-	-
L1408501-07	SSV-5	0203	#16 AMB	04/18/14	101471		-	-	-	Pass	4.4	4.6	4
L1408501-07	SSV-5	320	2.7L Can	04/18/14	101471	L1407143-02	Pass	-30.0	-6.4	-	-	-	-
L1408501-08	SSV-3	0158	#20 AMB	04/18/14	101471		-	-	-	Pass	4.3	6.4	39

Project Name: SUTTER AVE

Project Number: SUTTER AVE

Serial_No: 04301413:51
Lab Number: L1408501

Report Date: 04/30/14

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1408501-08	SSV-3	421	2.7L Can	04/18/14	101471	L1407475-01	Pass	-29.7	0.3	-	-	-	-
L1408501-09	SSV-2	0382	#16 AMB	04/18/14	101471		-	-	-	Pass	4.5	4.7	4
L1408501-09	SSV-2	494	2.7L Can	04/18/14	101471	L1407475-01	Pass	-30.0	-6.4	-	-	-	-
L1408501-10	SSV-7	0029	#20 SV	04/18/14	101471		-	-	-	Pass	4.1	4.3	5
L1408501-10	SSV-7	149B	2.7L Can	04/18/14	101471	L1407475-01	Pass	-29.1	-4.7	-	-	-	-
L1408501-11	SSV-6	0541	#16 AMB	04/18/14	101471		-	-	-	Pass	4.1	4.3	5
L1408501-11	SSV-6	1731	2.7L Can	04/18/14	101471	L1407143-01	Pass	-29.9	-8.7	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-01
Client ID: CAN 464 SHELF 8
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 04/07/14 20:58
Analyst: MB

Date Collected: 04/04/14 16:50
Date Received: 04/05/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-01
Client ID: CAN 464 SHELF 8
Sample Location:

Date Collected: 04/04/14 16:50
Date Received: 04/05/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-01
Client ID: CAN 464 SHELF 8
Sample Location:

Date Collected: 04/04/14 16:50
Date Received: 04/05/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-01
Client ID: CAN 464 SHELF 8
Sample Location:

Date Collected: 04/04/14 16:50
Date Received: 04/05/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1407143**Project Number:** CANISTER QC BAT**Report Date:** 04/30/14**Air Canister Certification Results**

Lab ID: L1407143-01

Date Collected: 04/04/14 16:50

Client ID: CAN 464 SHELF 8

Date Received: 04/05/14

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Unknown Alkene	1.8	J	ppbV		1
1-Pentene, 2,4,4-trimethyl-	15	NJ	ppbV		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	108		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-01
Client ID: CAN 464 SHELF 8
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 04/07/14 20:58
Analyst: MB

Date Collected: 04/04/14 16:50
Date Received: 04/05/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-01
Client ID: CAN 464 SHELF 8
Sample Location:

Date Collected: 04/04/14 16:50
Date Received: 04/05/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1407143**Project Number:** CANISTER QC BAT**Report Date:** 04/30/14**Air Canister Certification Results**

Lab ID: L1407143-01

Date Collected: 04/04/14 16:50

Client ID: CAN 464 SHELF 8

Date Received: 04/05/14

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	109		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-02
Client ID: CAN 320 SHELF 11
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 04/07/14 21:33
Analyst: MB

Date Collected: 04/04/14 16:29
Date Received: 04/05/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-02
Client ID: CAN 320 SHELF 11
Sample Location:

Date Collected: 04/04/14 16:29
Date Received: 04/05/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-02
Client ID: CAN 320 SHELF 11
Sample Location:

Date Collected: 04/04/14 16:29
Date Received: 04/05/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-02
Client ID: CAN 320 SHELF 11
Sample Location:

Date Collected: 04/04/14 16:29
Date Received: 04/05/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1407143**Project Number:** CANISTER QC BAT**Report Date:** 04/30/14**Air Canister Certification Results**

Lab ID: L1407143-02

Date Collected: 04/04/14 16:29

Client ID: CAN 320 SHELF 11

Date Received: 04/05/14

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	107		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-02
Client ID: CAN 320 SHELF 11
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/08/14 09:50
Analyst: MB

Date Collected: 04/04/14 16:29
Date Received: 04/05/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Acetaldehyde	ND	2.50	--	ND	4.50	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	1.00	--	ND	1.88	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.200	--	ND	0.606	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-02
Client ID: CAN 320 SHELF 11
Sample Location:

Date Collected: 04/04/14 16:29
Date Received: 04/05/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Thiophene	ND	0.200	--	ND	0.688	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Methylthiophene	ND	0.200	--	ND	0.803	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
3-Methylthiophene	ND	0.200	--	ND	0.803	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-02
Client ID: CAN 320 SHELF 11
Sample Location:

Date Collected: 04/04/14 16:29
Date Received: 04/05/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
2-Ethylthiophene	ND	0.200	--	ND	0.918	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,3-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
Indane	ND	0.200	--	ND	0.967	--		1
Indene	ND	0.200	--	ND	0.951	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
1,2,4,5-Tetramethylbenzene	ND	0.500	--	ND	2.74	--		1
Dodecane	ND	0.500	--	ND	3.48	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
Benzothiophene	ND	0.500	--	ND	2.74	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1
2-Methylnaphthalene	ND	1.00	--	ND	5.82	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1407143**Project Number:** CANISTER QC BAT**Report Date:** 04/30/14**Air Canister Certification Results**

Lab ID: L1407143-02

Date Collected: 04/04/14 16:29

Client ID: CAN 320 SHELF 11

Date Received: 04/05/14

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1-Methylnaphthalene	ND	1.00	--	ND	5.82	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	96		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-02
Client ID: CAN 320 SHELF 11
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 04/07/14 21:33
Analyst: MB

Date Collected: 04/04/14 16:29
Date Received: 04/05/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-02
Client ID: CAN 320 SHELF 11
Sample Location:

Date Collected: 04/04/14 16:29
Date Received: 04/05/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407143
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407143-02
 Client ID: CAN 320 SHELF 11
 Sample Location:

Date Collected: 04/04/14 16:29
 Date Received: 04/05/14
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	106		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407475
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407475-01
Client ID: CAN 238 SHELF 13
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 04/11/14 10:21
Analyst: AR

Date Collected: 04/09/14 16:04
Date Received: 04/10/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407475
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407475-01
Client ID: CAN 238 SHELF 13
Sample Location:

Date Collected: 04/09/14 16:04
Date Received: 04/10/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407475
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407475-01
Client ID: CAN 238 SHELF 13
Sample Location:

Date Collected: 04/09/14 16:04
Date Received: 04/10/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407475
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407475-01
Client ID: CAN 238 SHELF 13
Sample Location:

Date Collected: 04/09/14 16:04
Date Received: 04/10/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1407475**Project Number:** CANISTER QC BAT**Report Date:** 04/30/14**Air Canister Certification Results**

Lab ID: L1407475-01

Date Collected: 04/09/14 16:04

Client ID: CAN 238 SHELF 13

Date Received: 04/10/14

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	66		60-140
Bromochloromethane	81		60-140
chlorobenzene-d5	61		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407475
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407475-01
Client ID: CAN 238 SHELF 13
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 04/11/14 10:21
Analyst: AR

Date Collected: 04/09/14 16:04
Date Received: 04/10/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1407475
Report Date: 04/30/14

Air Canister Certification Results

Lab ID: L1407475-01
Client ID: CAN 238 SHELF 13
Sample Location:

Date Collected: 04/09/14 16:04
Date Received: 04/10/14
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1407475**Project Number:** CANISTER QC BAT**Report Date:** 04/30/14**Air Canister Certification Results**

Lab ID: L1407475-01

Date Collected: 04/09/14 16:04

Client ID: CAN 238 SHELF 13

Date Received: 04/10/14

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	74		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	75		60-140

Project Name: SUTTER AVE

Lab Number: L1408501

Project Number: SUTTER AVE

Report Date: 04/30/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1408501-01A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-SIM(30)
L1408501-02A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-SIM(30)
L1408501-03A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-SIM(30)
L1408501-04A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-SIM(30)
L1408501-05A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-SIM(30)
L1408501-06A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-SIM(30)
L1408501-07A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-SIM(30)
L1408501-08A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-SIM(30)
L1408501-09A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-SIM(30)
L1408501-10A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-SIM(30)
L1408501-11A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name: SUTTER AVE
Project Number: SUTTER AVE

Lab Number: L1408501
Report Date: 04/30/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.

Report Format: Data Usability Report



Project Name: SUTTER AVE
Project Number: SUTTER AVE

Lab Number: L1408501
Report Date: 04/30/14

Data Qualifiers

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: SUTTER AVE
Project Number: SUTTER AVE

Lab Number: L1408501
Report Date: 04/30/14

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,

SM426C, SM4500NH₃-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables); **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

AIR ANALYSIS

PAGE 1 OF 2

Date Rec'd in Lab:

4/22/14

ALPHA Job #: L1408501

 320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ASSOCIATED ENV SVCS

Address: 25 Central Ave
Hempstead NY 11788

Phone: 631-234-4280

Fax: 631-234-4297

Email: JohnS@assocenvsvcs.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

NYSDEC CAT B

Project Information

Project Name: Sutter Ave

Project Location: 1199 Sutter Ave

Project #:

Project Manager: John Schretzmayer

ALPHA Quote #:

Turn-Around Time

☒ Standard☐ RUSH (only confirmed if pre-approved!)

Date Due:

Time:

Report Information - Data Deliverables

☐ FAX☐ ADEx

Criteria Checker:

(Default based on Regulatory Criteria Indicated)

Other Formats:

☒ EMAIL (standard pdf report)☐ Additional Deliverables:

Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection										TO-14A	TO-15	TO-15	APH	FIXED	TO-13/14	TO-4/	Sample Comments (i.e. PID)
		Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller								
08501 .01	OA-1	4/21/14	1030	1747	29.31	5.19	AA	JS	2.7L	211	0415		X					PID 1.5	
02	ASV-3	4/21/14	1039	1803	30.23	7.36	AA	JS	2.7L	217	0129		X					PID 2.0	
03	ASV-5	4/21/14	1033	1758	28.89	6.74	AA	JS	2.7L	529	0168		X					PID 1.5	
04	ASV-4	4/21/14	1027	1756	27.77	4.65	AA	JS	2.7L	464	0270		X					PID 1.0	
05	ASV-2	4/21/14	1020	1749	28.77	2.48	AA	JS	2.7L	172	0085		X					PID 2.0	
06	SSV-4	4/21/14	1027	1754	28.93	7.06	SV	JS	2.7L	587	0082		X					PID 4.0	
07	SSV-5	4/21/14	1033	1753	30.14	7.74	SV	JS	2.7L	320	0203		X					PID 1.0 3.5	
08	SSV-3	4/21/14	1039	1803	29.63	0.99	SV	JS	2.7L	421	0158		X					PID 2.0 1.5	
09	SSV-2	4/21/14	1020	1749	30.35	7.76	SV	JS	2.7L	494	0382		X					PID 21.0	
10	SSV-7	4/21/14	1012	1747	28.80	6.23	SV	JS	2.7L	149B	0089		X					PID 1.0	

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)

SV = Soil Vapor/Landfill Gas/SVE

Other = Please Specify

Container Type

Relinquished By:

Date/Time

Received By:

Date/Time:

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 4/22/14

ALPHA Job #: 61408501

Project Information

Project Name: Sub-Ar

Project Location: 1199 So. He. Ave

Project #:

Project Manager: John Schuchman

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Time:

Report Information - Data Deliverables

☐ FAX☐ ADE_x

Criteria Checker:

(Default based on Regulatory Criteria Indicated)

~~Other Formats:~~

☒ EMAIL (standard pdf report)

☐ Additional Deliverables:

Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed

Program

Criteria

ANALYSIS

All Columns Below Must Be Filled Out

***SAMPLE MATRIX CODES**

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:

Date/Time

/ Received By:

Date/Time:

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

APPENDIX B – DATA USABILITY SUMMARY REPORT



**Associated
Environmental
Services, Ltd.**



MJW CORPORATION

Radiation Consulting Professionals

July 22, 2015

Dear Mr. Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Please find the attached data validation report for groundwater samples taken at the Sutter Project. A Level 2 ASP Category B validation was requested. Data validation guidance document used was USEPA CLP National Functional Guidelines for Superfund Organic Methods Review, OSWER 9240.1 USEPA-540-R-08-01, June 2008.

Analysis requested was TCL VOC 8260.
Analysis performed by: Phoenix Environmental Laboratories, Inc.
SDG#: GBH86681
Date of sampling: 3/20/15
Date of extraction and analysis: 3/24/15

Sample IDs are as follows:

PHOENIX LAB ID	CUSTOMER ID
86681	MW-5D
86682	MW-6S
86683	MW-6D
86684	MW-7S
86685	MW-7D
86686	MW-8S
86687	MW-8D
86688	Field blank
86689	Trip blank

Please contact me at 716-628-9041 should you have any questions.

Sincerely,

Debra A. Hutchinson

15 Hazelwood Drive, Suite 112
Amherst, NY 14228

Voice: (716) 631.8291 Fax: (716) 631.5631 Toll Free: 1 (888) MJW.CORP www.mjwcorp.com



DATA VALIDATION SUMMARY

The technical holding time of 7 days was met for the samples in this SDG (#GBH86681). Although this has no impact on the data, it should be noted that the trip blank, lab sample ID 86689, was received at the laboratory with no custody seal.

GC/MS BFB tunes met instrument performance criteria.

Initial calibration (IC) demonstrates that the instrument is capable of acceptable performance in the beginning analytical run. This also confirms that the instrument is capable of producing acceptable qualitative and quantitative data for the compounds of interest.

IC Relative Response Factors (RRF) for volatile compounds must be greater than or equal to 0.050. An RRF that is <0.050 is considered to be exhibiting poor response. Per the case narrative provided by Phoenix Laboratories for this SDG, the lab's minimum RRF in the IC for 1,1,2,2-tetrachloroethane and bromomethane were not met. Also the lab's minimum RRF in the continuing calibration verification (CCV) was not met for 1,1,2,2-tetrachloroethane. The closing CCV standard for these 2 compounds met all criteria. Based on the guidance document used for validation, the minimum RRF of 0.050 for these 2 compounds were met so this will have no impact on the data.

The %Relative Standard Deviation (RSD) in the IC must be $<20.0\%$. All %RSDs met this criteria except for bromomethane which has a 35.3% RSD reported. No qualification of the data is necessary per the guidance document used in this validation.

The %D in the CCV must be $<25\%$. All %Ds met this criteria except for dichlorodifluoromethane which has a 27.1%D reported. No qualification of the data is necessary per the guidance document used in this validation.

%Rs for all QC samples are acceptable with recoveries between the acceptance range of 70-130%. The methylene chloride (MeCl_2) MS%R is slightly outside the acceptance range having a 69%R but this has no impact on the data.

The MSD%R for methyl ethyl ketone (MEK) was $<10\%$ while the MS%R has 93%R. This could be to lab error. The LCS/LCSD %Rs are acceptable. Per the guidance document no qualification of the data is necessary on MS/MSD data alone, so this has no impact on the data.

A field blank and trip blank were included in this SDG for analysis. Although both blanks have results reported between the MDL and RL for bromodichloromethane, all associated samples have ND results reported so this has no impact on the data.

The internal standard (IS) on the instrument used in this analysis indicated sensitivity and responses are stable.

There were no Tentatively Identified Compounds (TICS) identified in any samples in this SDG.

The overall assessment of this data package is that it is reliable and usable. A table is provided for your convenience for each sample and the data qualifiers.

CLIENT ID	LAB ID	ACETONE
MW-5D	BH86681	U
MW-6S	BH86682	U
MW-6D	BH86683	U
MW-7S	BH86684	U
MW-7D	BH86685	U
MW-8S	BH86686	U
MW-8D	BH86687	U

DATA QUALIFIERS

U: COMMON LAB CONTAMINANT, RESULT <5x RL



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
03/20/15 10:05
03/23/15 16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86681

Project ID: SUTTER AVENUE
Client ID: MW-5D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	6.0 U S	5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
03/20/15 9:00
03/23/15 16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86683

Project ID: SUTTER AVENUE
Client ID: MW-6D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	6.9 Us	5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
03/20/15 9:30
03/23/15 16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86682

Project ID: SUTTER AVENUE
Client ID: MW-6S

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	4.0 UJS	5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C

U-common lab contaminant
4.5x RL



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date	Time
03/20/15	10:40
03/23/15	16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86685

Project ID: SUTTER AVENUE
Client ID: MW-7D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	NC	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	2.7 UJS	5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
03/20/15 12:00
03/23/15 16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86684

Project ID: SUTTER AVENUE
Client ID: MW-7S

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	3.7 UJS	5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
03/20/15 13:10
03/23/15 16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86687

Project ID: SUTTER AVENUE
Client ID: MW-8D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	ND	5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 09, 2015

FOR: Attn: Mr Matt Boeckel
Associated Environmental Services
25 Central Ave.
Hauppauge, NY 11788

Sample Information

Matrix: GROUND WATER
Location Code: AESHAUP
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
03/20/15 12:45
03/23/15 16:43

Laboratory Data

SDG ID: GBH86681
Phoenix ID: BH86686

Project ID: SUTTER AVENUE
Client ID: MW-8S

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	03/24/15	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1,2-Trichloroethane	NC	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	03/24/15	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloroethane	ND	0.6	0.25	ug/L	1	03/24/15	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/24/15	MH	SW8260C
Acetone	4.3 UJS	5.0	2.5	ug/L	1	03/24/15	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	03/24/15	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/24/15	MH	SW8260C

U- common lab contaminant < 5x RL