VOLUNTARY RESPONSE ACTION PLAN & CONSTRUCTION CONTINGENCY PLAN

PROPOSED SCHOOL FACILITY
RIVEREAST RELOCATION
(FORMER OFFICE/WAREHOUSE BUILDING)
1050 KENT STREET NORTH
ST. PAUL, MINNESOTA 55117

PROJECT NO. E16-2821

SEPTEMBER 14, 2016

PREPARED FOR:

ST. PAUL PUBLIC SCHOOLS
1930 COMO AVENUE
ST. PAUL, MN 55108

PREPARED BY:

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Leaders in Environmental and Engineering Services

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1.0 PROJECT DESCRIPTION

1.1 Introduction

In accordance with authorization received from St. Paul Public Schools, Nova Consulting Group, Inc. (Nova) has prepared this Voluntary Response Action Plan (VRAP) & Construction Contingency Plan (CCP) to address and manage the known areas of subsurface contamination during the redevelopment of the property located at 1050 Kent Street North in St. Paul, Ramsey County, Minnesota (the Site).

The Property consists of a rectangular-shaped parcel approximately 5.53 acres in size located in a generally residential area of St. Paul. The Property is zoned RM2 – Multiple-family by the City of St. Paul. The Property is developed with one one-story slab-on-grade vacant building that was constructed in 1953 and occupies the southern portion of the Property. The remainder of the Property consists of a parking lot and landscaped land.

A Site Topographic Map and a Site Location Map are provided as Figures 1 and 2.

1.2 Purpose

The purpose of this VRAP/CCP is to provide general information regarding the planned development activities at the Site and outline procedures for the management of subsurface contamination during the proposed redevelopment construction activities. This VRAP/CCP was prepared in accordance with the Minnesota Pollution Control Agency (MPCA) Voluntary Brownfields Program guidelines to facilitate the redevelopment of the Site in a manner that is protective of human health and the environment, and will be submitted to the MPCA for review and approval in advance of initiating Site activities.

1.3 Project Background

The available historical information indicates that the Property was occupied by vacant and/or unimproved land from at least 1903 until grading activities began in the mid- to late-1930s. The western portion of the Property building was constructed in 1953 and occupied by a sheet metal company until the late-1950s/early-1960s when the large eastern building addition was constructed. From at least 1958 through the late-1990s/early-2000s, the Property was occupied by cardboard box manufacturing companies, identified as Mullery Paper Packages Inc., Jefferson Smurfit Corporation, and Container Corporation of American. The small metal buildout storage room on the northeast portion of the building was constructed in the mid-1990s. The building has remained vacant since the early-2000s.

The following previous assessments/investigations were completed at the Site:

- *Phase I Environmental Site Assessment, Office/Warehouse Building, 1050 Kent Street North, St. Paul, Minnesota 55117* prepared by Nova Consulting Group, Inc. and dated June 29, 2016*;*

A summary of the Phase I ESA is provided below. The recent Phase II ESA is also summarized below. A copy of the prior Phase I report will be submitted under a separate cover.

2016 Phase I Environmental Site Assessment (ESA)

In June 2016, Nova completed a Phase I ESA of the Property in conformance with the scope and limitations of ASTM Practice E 1527-13. During the research conducted as part of the ESA, Nova reviewed files provided by the MPCA and Ramsey County which included correspondence, letters, project summaries, and partial reports related to the Site, and the former Union Brass and Metal Manufacturing facility that is adjacent to the south.

Accordingly, Nova's 2016 Phase I ESA identified the following:

- Former Property occupants Jefferson Smurfit Corporation and Container Corporation of America operated three 4,000-gallon USTs installed in 1981 and removed in 1993. The USTs stored isopropyl alcohol, blanket wash, and solvent/ink/wash water and were formerly located along the west exterior of the Property building. Upon removal in September 1993, a VOC release to the soil and groundwater was identified in the tank basin area. Over-excavation of soil was conducted to a depth of 12 feet bgs and groundwater monitoring was conducted. The MPCA issued a Limited No Action Determination letter on December 30, 2003 with regard to only the VOCs in the soil in the area of the former USTs (identified release). The determination was subject to the condition that Jefferson Smurfit Corporation submit an affidavit indicating contamination remained at the Property above residential limits. The affidavit was completed and submitted on August 2, 2004. A subsequent subsurface investigation conducted by American Engineering Testing, Inc. (AET) in 2006. The analytical results did not identify soil impacts and groundwater impacts were negligible; however, AET indicated residual soil and groundwater impacts likely remained in the area of the former UST basin and groundwater impacts may extend approximately 50 feet eastward from the former UST basin. Some VOC soil vapor concentrations exceeded indoor air standards, but AET stated that attenuation from soil vapor to indoor air should render actual indoor air impacts negligible. Based on these findings, AET recommended discussion with the MPCA to determine if further assessment was required and that the MPCA consider the Property release file for closure. A Declaration of Restrictions and Covenants was issued on July 17, 2006, restricting the Property land use to industrial only, with no use of groundwater or installation of potable/drinking water wells. Although the MPCA apparently did not issue additional No Further Action Letters in 2006, this release is considered a controlled recognized environmental condition (CREC) to the Property based on the Limited No Further Action letter issued in 2003 and contingent on maintaining the current industrial land use. Further subsurface investigation may be required prior to redevelopment activities of change in land use.

2016 Limited Phase II Subsurface Investigation

Based on the findings of the ESA, Nova recommended that a subsurface investigation be conducted at the Property.

Accordingly, Nova conducted a subsurface investigation on behalf of St. Paul Public Schools in August 2016 to further evaluate the potential of any contamination that could remain at the Property as identified in the Phase I ESA referenced above. Four (4) direct push soil borings/temporary wells (labeled GP-1 through GP-4), three (3) exterior soil vapor probes (labeled SG-1 through SG-3), and six (6) interior sub-slab soil vapor probes (labeled SS-1

through SS-6) were installed at the Property in locations anticipated to have the highest potential to be impacted and in areas of proposed development. Photographs of the field locations are shown in Appendix A.

Methods and Procedures

The borings were completed using a truck-mounted Geoprobe® Model 5410 Hydraulic push probe. A Geoprobe® Macro-Core 5 sampler was used to collect the soil samples from the borings at continuous four-foot intervals up to a depth of seventeen (17) feet below land surface (bls). The Macro-Core 5 sampler consists of a 2.25-inch outside diameter, 48-inch long nickel-plated alloy-steel sampling tube that is continuously filled with soil as it is pushed and/or hammered to the desired sampling depth. The Macro-Core 5 sampler was cleaned with alconox soap and a fresh water rinse between sampling intervals, and new disposable sampling liners were used for each sampling interval.

Upon completion of GP-1 through GP-4 a temporary groundwater monitoring well was installed in the borehole. The temporary well installed at GP-2 was constructed using a 3/4-inch diameter, five foot long 0.010-inch slot PVC screen threaded to a 3/4-inch diameter PVC riser. The well screen was installed to the bottom of the borehole and intersected the water table. The temporary wells installed at GP-1, GP-3 and GP-4 utilized a Geoprobe Screen Point 16. The Screen Point 16 consists of a 4-foot long stainless steel well screen located inside a stainless steel casing. The Screen Point 16 was advanced to intersect the water table and the outer stainless steel casing was retracted exposing the well screen.

Prior to collecting the groundwater samples, a water level was collected and then the sampling points were developed with a low flow peristaltic pump, where groundwater recharge allowed, until a significant reduction in the amount of suspended solids was observed in the discharge.

Nova installed three (3) interior exterior soil gas sampling points (SG-1 through SG-3) The soil gas sampling points were completed using a truck-mounted Geoprobe® Model 5410 Hydraulic push probe. The soil gas points were installed by pushing the 1.5 inch Geoprobe post run tubing (PRT) system to the desired depth. The sample rod string was retracted approximately one (1) foot to allow the expendable point to drop out. Once retracted, ¼-inch outside diameter polyethylene tubing was connected to a stainless steel threaded tip equipped with an o-ring, inserted into the rod string and threaded to the expendable point holder. A bentonite slurry was placed around the rod string at the surface to minimize the potential of soil vapor intrusion from the surface around the exterior of the rod string. Since a basement is present over a large portion of the Site building, the soil gas points were installed at approximately 9 feet bg to 10 feet bg. After the air sample was collected into the Summa® canister, the vapor point was screened for the presence of organic vapors using a Mini Rae 3000 photoionization detector (PID) calibrated to an isobutylene standard prior to use at the Property. Documentation summarizing the Geoprobe PRT system is attached as Appendix B.

In addition to the exterior soil gas sampling points, Nova installed six (6) interior sub-slab soil gas sampling points (SS-1 through SS-6) through the concrete floor slab inside the existing Site building to assess any potential risk associated with vapor intrusion as a result historic operations at the Property. Prior to installation of the sub-slab points, the building

floor was inspected and any penetrations (cracks, floor drains, utility perforations, sumps, etc.) were noted and recorded. A Cox-Colvin vapor sampling pin was installed at locations where the potential for ambient air infiltration via floor penetrations was minimal. The soil vapor borings were advanced through the concrete and into the sub-slab material using a rotary hammer drill equipped with a 5/8-inch diameter diamond carbide auger bit. The borings were completed to approximately 6-inches below the base of the slab. Upon completion of the boreholes, a Cox-Colvin vapor sampling pin was inserted following the standard operating procedures (SOPs) included as Appendix C.

Teflon tubing was connected to the vapor pin and then a water dam was used to check for leaks. Prior to collecting the soil gas sample, the soil gas was allowed to stabilize for approximately 60 minutes then a minimum of two volumes of air were purged from the sample point and Teflon tubing using a graduated syringe. A flow controller with a maximum flow of 200 milliliter per minute was utilized. The soil gas sample was collected by attaching the top end of the tubing to a Summa® canister and opening the valve. An in-line moisture trap was included in the flow controller to prevent moisture from entering the Summa® canister. Once the canister was full, the valve was closed and the final pressure and time were recorded on the chain of custody. After the air sample was collected into the Summa® canister, the vapor point was screened for the presence of organic vapors using a PID.

An environmental geologist recorded a physical description of the soils encountered at each boring location on a field-boring log. Visual classification of soil was based on American Society of Testing and Materials methods 2487 and 2488, Soil Conservation Service, and American/Canadian Stratigraphic standards. The soil sample descriptions included type, color, grain size, texture, and moisture. The descriptions were recorded on soil boring logs (Appendix D).

In addition to recording the physical description of the soils encountered at each boring location on a field-boring log, the on-site Nova geologist screened the soil samples for indications of environmental impacts. Each of the soil samples retrieved from the borehole was screened for organic vapors using a PID. The soil samples were screened utilizing the headspace field analysis technique. Physical evidence of any unusual odors or staining was also recorded on the field log.

One (1) soil sample and one (1) groundwater sample was collected from each of the borings/temporary wells and submitted to Test America Laboratory for laboratory analysis including: volatile organic compounds (VOCs), diesel range organics (DRO), gasoline range organics (GRO), polynuclear aromatic hydrocarbons (PAHs) (soil only) and the 8 RCRA metals (soil only). One (1) soil vapor sample was collected from each of the interior and exterior soil vapor probes and submitted to Test America Laboratory for laboratory analysis for volatile organic compounds via method TO-15. Due to an extraction error by Test America the groundwater samples collected from GP-1 through GP-4 could not be analyzed for PAHs.

Field Screening Results

No physical evidence of any unusual odors or staining was observed in the soil samples. In addition, the soil samples were screened for organic vapors using a PID. No elevated concentrations of organic vapors were detected in the soil samples.

Laboratory Analytical Summary

Soil Analytical Results

As summarized below in Table 1, chemical analysis of the soil samples collected from GP-1 through GP-4 did not detect GRO or VOCs at concentrations greater than or equal to laboratory method detection limits (MDLs). DRO was detected at a concentration of 6.0 milligrams per kilogram (mg/kg) in soil boring GP-3. This concentration is well below the MPCA unrestricted fill concentration for developments sites of 100 mg/kg. Fluoranthene was detected at a trace concentration of 0.0125 mg/kg in soil boring GP-2. This concentration is well below the MPCA Tier 1 Residential soil reference value (SRV) of 1,080 mg/kg and the MPCA soil leaching screening value (SLV) of 670 mg/kg. The complete laboratory report is attached in Appendix E.

TABLE 1
SOIL CHEMICAL ANALYTICAL RESULTS
CONCENTRATION IN MILLIGRAMS PER KILLOGRAM (MG/KG) = PARTS PER MILLION (PPM)

Compound	GP-1 (15-16')	GP-2 (12-13')	GP-3 (12-14')	GP-4 (14.5-16')	MPCA SLV^	MPCA Tier I Residential SRV*
DRO	<6.60	<5.80	**6.0**	<6.71	100**	100**
GRO	<12.6	<12.2	<11.0	<11.8	100**	100**
VOCs	ND	ND	ND	ND	NA	NA
PAHs						
Fluoranthene	<0.0120	**0.0125**	<0.119	<0.0122	670	1,080
Metals						
Barium	**16.7**	**38.2**	**37.0**	**19.2**	1,700	1,100
Chromium	**10.0**	**6.69**	**13.2**	**9.76**	36	87
Lead	<4.54	**11.9**	**5.62**	<3.96	2,700	300

NOTES:
BOLD – Detected concentration
< – Compound not detected above laboratory detection limits
***- Minnesota Pollution Control Agency (MPCA) Residential Soil Reference Value**
****-MPCA unrestricted fill concentration for development sites.**
^ - MPCA Soil Leaching Screening Value
ND – Not detected at or above laboratory method detection limits (MDLs)
NA – Not applicable

Groundwater Analytical Results

As summarized below in Table 2, chemical analysis of the groundwater samples collected from GP-1 and GP-2 detected DRO at concentrations of 109 micrograms per liter (ug/L) and 132 ug/L, respectively. These concentrations are well below the Minnesota remedial investigation (RI) requirement of 1,000 ug/L. GRO was detected at a concentration of 708 ug/L in soil boring GP-1. This concentration is also below the MPCA RI requirement of 1,000 ug/L. In addition, trace concentrations of VOCs were detected in soil boring GP-1. All of detected VOC concentrations at GP-1 are well below their respective HRLs.

TABLE 2 GROUNDWATER CHEMICAL ANALYTICAL RESULTS CONCENTRATIONS IN MICROGRAMS PER LITER (µG/L) = PARTS PER BILLION (PPB)					
Compound	**GP-1**	**GP-2**	**GP-3**	**GP-4**	**MDH Health Risk Limit***
DRO	**109**	**132**	<100	<102	1,000**
GRO	**708**	<100	<100	<100	1,000**
VOCs					
Sec-Butylbenzene	**2.04**	<1.00	<1.00	<1.00	NE
Isopropylbenzene	**15.7**	<1.00	<1.00	<1.00	300
N-Propylbenzene	**17.3**	<1.00	<1.00	<1.00	NE
Tetrahydrofuran	**14.4**	<10.0	<10.0	<10.0	600
1,2,4-Trimethylbenzene	**62.4**	<1.00	<1.00	<1.00	100
1,3,5-Trimethylbenzene	**18.2**	<1.00	<1.00	<1.00	100
Xylenes (total)	**6.86**	<3.00	<3.00	<3.00	300

NOTES:
BOLD-Exceeds laboratory method detection limit
< - Concentration less than the laboratory method detection limit
*Minnesota Department of Health Risk Limit
** Minnesota Pollution Control Agency Remedial Investigation Requirement

Soil Vapor Analytical Results – Exterior Locations

As summarized below in Table 3, chemical analysis of the three soil vapor samples collected from outside the site building detected various VOCs. The concentration of benzene detected at SG-1, 1,3,5 trimethylbenzene at SG-1 and SG-2 and 1,2,4 trimethylbenzene at SG-1, SG-2 and SG-3 exceed the MPCA Residential Intrusion Screening Value (ISV) but below the 10 times the residential ISV which typically requires additional evaluation and/or mitigation. However, the concentrations of 1,3-butadiene detected in soil vapor samples SG-1, SG-2, and SG-3 exceed the 10 times the residential ISV threshold. Several other constituents were detected in the soil vapor samples, but they are below their corresponding residential ISVs. The soil vapor laboratory analytical report is attached as Appendix E.

TABLE 3 SOIL VAPOR ANALYTICAL RESULTS – EXTERIOR LOCATIONS CONCENTRATION IN MICROGRAMS PER CUBIC METER OF AIR (µG/M^3)					
Compound	**SG-1**	**SG-2**	**SG-3**	**Residential Intrusion Screening Value (ISV)**	**10x's Residential ISV**
Propylene	**82**	**42**	**190**	3,000	30,000
Chloromethane	<2.6	<2.6	**30**	90	900
1,3-Butadiene	**9.2**	**3.6**	**12**	0.3	3
Ethanol	<24	**19**	<170	15,000	150,000
Acetone	**200**	**120**	**930**	31,000	310,000
Isopropyl alcohol	<31	**55**	<220	7,000	70,000
Carbon Disulfide	**8.1**	<3.1	<28	700	7,000
n-Hexane	**6.8**	**2.9**	<13	2,000	20,000

TABLE 3 SOIL VAPOR ANALYTICAL RESULTS – EXTERIOR LOCATIONS CONCENTRATION IN MICROGRAMS PER CUBIC METER OF AIR (µG/M³)					
Compound	SG-1	SG-2	SG-3	Residential Intrusion Screening Value (ISV)	10x's Residential ISV
Methyl Ethyl Ketone	**21**	**10**	**100**	5,000	50,000
Cyclohexane	**2.2**	<1.4	<12	6,000	60,000
Benzene	**6.0**	**2.5**	<11	4.6	46
n-Heptane	**5.7**	**2.6**	<15	NE	NE
Toluene	**37**	**29**	**44**	5,000	50,000
Ethylbenzene	**17**	**13**	**20**	1,000	10,000
M,p-Xylene	**38**	**29**	**42**	100	1,000
Xylene, o-	**16**	**13**	**19**	100	1,000
Styrene	**3.4**	**2.4**	<15	1,000	10,000
4-Ethyltoluene	**7.0**	**5.9**	<18	NE	NE
1,3,5-Trimethylbenzene	**8.7**	**7.1**	<18	6	60
1,2,4-Trimethylbenzene	**30**	**27**	**29**	7	70
1,2-Dichlorobenzene	**4.2**	**4.2**	<22	200	2,000

NOTES:
BOLD-Exceeds laboratory method detection limit
BOLD-Exceeds the MPCA Residential ISV
BOLD-Exceeds the 10 times the MPCA Residential ISV threshold
< - Concentration less than the laboratory method detection limit

Soil Vapor Analytical Results – Interior Locations

As summarized below in Table 4, chemical analysis of the six soil vapor samples collected from inside the site building detected various VOCs. The concentration of isopropyl alcohol, benzene, toluene and m&p xylene detected at SS-6 and tetrachloroethene detected at SS-2 and SS-5 exceed the residential ISV but below the 10 times the residential ISV threshold. However, the concentration of 1,3 butadiene, tetrachloroethene, ethylbenzene, 1,3,5 trimethylbenzene and 1,2,4 trimethylbenzene detected in SS-6 and the tetrachloroethene concentration detected in SS-1 exceed the 10 times the residential ISV threshold. Several other constituents were detected in the soil vapor samples, but they are below their corresponding residential ISVs.

TABLE 4 SOIL VAPOR ANALYTICAL RESULTS – INTERIOR LOCATIONS CONCENTRATION IN MICROGRAMS PER CUBIC METER OF AIR (µG/M³)								
Compound	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	Residential ISV	10x Residential ISV
Dichlorodifluoromethane	<8.7	**14**	**6.3**	<6.2	<14	<38	NA	NA
Trichlorofluoromethane	<3.9	**8.5**	<2.8	<2.8	<6.2	<17	700	7,000
Ethanol	<33	**24**	**40**	**29**	**53**	<140	15,000	150,000
1,3 Butadiene	<1.6	<0.88	<1.1	<1.1	<2.5	**8.5**	0.3	3
Acetone	**82**	**74**	**81**	**81**	**130**	**13,000**	31,000	310,000
Isopropyl alcohol	**160**	**100**	**130**	**150**	**270**	**28,000**	7,000	70,000
Carbon Disulfide	**6.0**	<3.1	<3.9	**7.9**	<8.7	**24**	700	7,000
n-Hexane	<2.5	<1.4	<1.8	**1.9**	<3.9	**11**	2,000	20,000
Methyl Ethyl Ketone	**11**	**4.5**	**3.7**	**11**	**8.5**	**26**	5,000	50,000

TABLE 4 SOIL VAPOR ANALYTICAL RESULTS – INTERIOR LOCATIONS CONCENTRATION IN MICROGRAMS PER CUBIC METER OF AIR (µG/M^3)								
Compound	**SS-1**	**SS-2**	**SS-3**	**SS-4**	**SS-5**	**SS-6**	**Residential ISV**	**10x Residential ISV**
1,1,1-Trichloroethane	**27**	**9.3**	<2.7	<2.7	<6.1	<17	5,000	50,000
Benzene	**2.5**	<1.3	<1.6	<1.6	<3.6	**17**	4.6	46
Toluene	**4.0**	**1.8**	<1.9	**2.2**	<4.2	**24**	5,000	50,000
Tetrachloroethene	**110**	**23**	<3.4	<3.4	**8.3**	**92**	3.3	33
Ethylbenzene	<3.0	<1.7	<2.2	<2.2	<4.8	**67**	4.1	41
m,p-Xylene	<7.6	<4.3	<5.4	<5.4	<12	**250**	100	1,000
Xylene, o-	<3.0	<1.7	<2.2	<2.2	<4.8	**82**	100	1,000
4-Ethyltoluene	<3.5	<2.0	<2.5	<2.5	<5.5	**58**	NA	NA
1,3,5-Trimethylbenzene	<3.5	<2.0	<2.5	<2.5	<5.5	**89**	6	60
1,2,4-Trimethylbenzene	<3.5	<2.0	<2.5	<2.5	<5.5	**290**	7	70

NOTES:
BOLD-Exceeds laboratory method detection limit
BOLD-Exceeds the MPCA Residential ISV
BOLD-Exceeds the 10 times the MPCA Residential ISV threshold
< - Concentration less than the laboratory method detection limit

2.0 DEVELOPMENT PLANS

2.1 Response Action Objectives

This VRAP/CCP will be implemented on behalf of St. Paul Public Schools (Prospective Owner and Developer) in accordance with MPCA guidelines. The primary objective of the site response actions is to implement an appropriate management strategy for the identified subsurface contamination that is protective of human health, welfare, and the environment, and to allow the site to be redeveloped as planned.

Upon completion of the site response actions, the following supplemental liability assurance letters may be requested from the MPCA:

- *VRAP Implementation Approval*
- *No Further Action Determination*

Additionally, St. Paul Public Schools will seek to remove or amend the 2006 *Declarations of Restrictions and Covenants* on the Property (Appendix F).

2.2 Proposed Redevelopment/Land-Use and Excavation

The entire Site will be redeveloped by St. Paul Public Schools into a slab-on-grade school building with classrooms, offices, storage rooms, maintenance rooms as well as an exterior playground area and basketball court. The proposed Site Plan and Site Overlay are included as Figures 4, 5 and 6. Renderings depicting the planned redevelopment are included in Appendix G.

St. Paul Public Schools is planning to completely demolish the aboveground and sub-grade improvements of the western portion of the existing building, the aboveground portions of the eastern portion of the Site building, as well as the existing surface parking areas across the northern areas of the site for construction of a one story school building, new parking lots, playground and greenspace areas.

2.3 Response Action Elements

Hazardous Material Abatement/Disposal

The redevelopment plan includes the select demolition of portions of the existing building and applicable interior and exterior renovations. Prior to any planned demolition activities, any regulated waste materials will be properly characterized and abated/disposed of in accordance with applicable state and federal requirements. Items requiring special characterization and/or disposal could include, but are not limited to the following:

- Asbestos-Containing Materials (ACMs)
- Lead-Based Paint
- Fluorescent Light Tubes/Ballasts
- Oil-Containing Equipment or Machinery
- Residual Wastewater and/or Sludge(s)
- Mercury Thermostats/Switches

Any regulated waste removal/disposal will be conducted by licensed contractors and managed, transported and disposed of in compliance with MPCA, Occupational Safety and Health Administration (OSHA), Department of Transportation (DOT) and any other local, state, and federal guidelines

Soil Excavation/Off-Site Disposal

Based on the results of the previous investigations at the Site, the excavation and off-site disposal of contaminated soil may need to be implemented during redevelopment activities to achieve the following:

1) Create an adequate vertical separation distance between residual soil impacts and finished grades to minimize the risk of future direct human exposure pathways in greenspace areas and beneath impervious surfaces;

2) Appropriately manage impacted soil that is environmentally and/or geotechnically unsuitable for re-use or reconditioning during construction activities.

To achieve the appropriate vertical separation distances in areas of known or suspected soil impacts that exceed residential screening levels, a minimum four-foot vertical separation distance from any remaining contamination will be maintained/incorporated into proposed greenspace, and a minimum two-foot vertical separation distance from any remaining impacts will be maintained/incorporated into any excavation associated with the construction of new impervious surface improvements (i.e. building floor slabs, bituminous parking, concrete patios/sidewalks, cobblestones etc.).

The potential for encountering impacted soil will included areas where the former USTs were located (proposed playground/greenspace), and where new building foundations, parking areas and utilities will be constructed. Specifically, the following areas are planned for excavation:

- Removal of building foundation components during demolition of portions of the existing building;
- Utility installations – Trenches ranging from 2 to 10 feet below grade;
- Surface parking, driveways and sidewalks – Surficial grading for base-coarse and impervious concrete/bituminous cove,
- Excavation and/or soil spoils related to applicable foundation system(s), which could include traditional spread-footings, Geopiers and/or driven piling with associated grade-beams; and,
- Excavation for engineering control system installations.

As necessary to achieve geotechnical engineering specifications or to reduce potential human exposure after re-development, contaminated soil in these areas will be segregated in accordance with the screening procedures outlined in Section 2.5.

Sub-Slab Vapor Mitigation Controls

Based on the documented soil vapor, soil and groundwater impacts beneath the Site, and the likelihood that contamination will remain upon completion of the construction, the

installation of sub-slab depressurization systems is being proposed as part of this VRAP to provide added protection from the potential for vapor intrusion into the building(s). Conceptual design criteria for the depressurization systems are further detailed in Section 2.7 and depicted on Figure 7.

2.4 Site Stratigraphy and Hydrogeology

Previous investigations indicate that the soil encountered above a depth of approximately 17 feet beneath the Site consisted of a mixture of silty-sand and sandy clay, with sand and gravel of varying grain sizes. The depth to the uppermost groundwater beneath the Site varied, but typically ranged from 14 to 17 feet below grade. No indications of competent bedrock were encountered in any of the borings advanced at the Site.

Published reference materials indicate that the unconsolidated sediments beneath the Site are comprised of Meltwater Stream sediment deposits composed of medium to coarse sand with pebbles. The uppermost bedrock beneath the Site is likely present at depths greater than 100 feet below grade, and is comprised of Middle Ordovician aged Platteville and Glenwood Formations described as fine-grained dolostone and limestone with shale, and St. Peter Sandstone. The presumed groundwater flow direction is to the southeast, toward the Mississippi River.

2.5 Proposed Soil Management

A Nova environmental geologist will be on-Site during all excavation activities that are conducted at the Site, as well during the installation of any engineering controls. On-Site Nova representatives will maintain current Minnesota Department of Health (MDH) asbestos inspector credentials, and will regularly document field conditions and redevelopment activities pertinent to the implementation of this VRAP, as well as screen Site soils for the presence of any unusual odors, debris and/or staining. Soils will also be screened for the presence of organic vapors with a photoionization detector (PID) equipped with a 10.6 eV lamp. The soils will be screened using the bag-headspace techniques outlined in MPCA Guidance Document 4-04.

Any soil with visual indications of contamination or with measurable concentrations of organic vapor concentrations {generally in excess of background concentrations (1 to 2 parts-per-million (ppm)} will be segregated and characterized for off-site disposal at an approved Industrial Waste Landfill facility, or potentially for re-use under impervious parking surfaces. The existing soil analytical data will initially be utilized to obtain preliminary landfill approval for related disposal options (e.g. alternative daily cover, municipal solid waste, hazardous waste). If necessary to facilitate landfill approval, additional soil samples will be collected from each generated waste stream (i.e. individual stockpiles) in accordance with MPCA Guidance Document 4-04, Table A to verify applicable disposal methods. At a minimum, stockpile/characterization soil samples will be analyzed for:

- Gasoline range organics (GRO)
- Diesel Range organics (DRO)
- Volatile organic compounds (VOCs)

- Polynuclear aromatic hydrocarbons (PAHs)
- RCRA Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver)

Any additional analysis required for landfill disposal {i.e. Toxicity Characteristic Leaching Procedure (TCLP)} analysis will also be performed as needed. Prior to off-Site disposal of any contaminated soil, the MPCA will be notified of the selected disposal facility in advance of the physical transportation.

Based on physical and analytical criteria, soil that is determined to be non-impacted will be re-used on Site or transported for off-site disposal as unrestricted fill. Unrestricted fill material must meet the following criteria:

- No detectable concentrations of organic vapors with the PID;
- Less than 100 ppm DRO/GRO and below residential SRVs/SLVs; and,
- No visible debris or other indications of contamination (i.e. odors or staining).

If allowable based on the redevelopment grading and utility plans and geotechnical considerations, any soil planned for re-use under bituminous parking surfaces will be required to exhibit organic vapor concentrations less than 100 ppm, as measured with the PID and contain no visible debris. Any soil that is re-used beneath impervious parking surfaces will be engineered in lifts no more than 2-feet thick and be covered by a minimum of 2 feet of clean backfill material.

Please note that the over-excavation of contaminated soil (beyond what is required for construction purposes) will not be conducted during the re-development project unless it is determined that it is necessary to mitigate a potential future risk of impact to human health or the environment.

Following the excavation and any necessary stockpiling of any contaminated soil, confirmation soil samples may be collected from the base and sidewalls of the excavation(s) to assess any residual impacts and/or to possibly evaluate disposal/re-use options if additional excavation is required as part of the redevelopment. At a minimum, any confirmation soil samples that are deemed necessary will be analyzed for GRO, DRO, VOCs, PAHs and the 8 RCRA metals.

If contaminated soil remains within any utility excavations (i.e. soil that exhibits noticeable odors/staining or organic vapor concentrations in excess of 10 ppm), the installation of a vapor barrier and/or other engineering controls will be considered to minimize the risk of vapor impact and/or preferential pathway migration.

2.6 Excavation Dewatering

Based on the local geological data and the proposed development plans, it is unlikely that site excavation(s) will encounter ground water, and excavation dewatering is not anticipated to occur during the Site redevelopment.

In the event excavations must be dewatered during redevelopment activities, Nova will collect ground water analytical samples prior to disposal, and if necessary acquire any permits for discharge to an approved facility (sanitary sewer, storm sewer, or other facility).

If required, Nova will coordinate the on-site treatment of contaminated ground water, prior to disposal.

2.7 Proposed Vapor Mitigation Controls

The conceptual design of the proposed sub-slab ventilation/depressurization systems will include arrays of horizontal sections of 4-inch, perforated and rigid PVC piping that is placed beneath the floor slabs of each building. The perforated sections of the horizontal system piping will be connected to solid PVC riser pipes that will extend upward vertically through the interior of the buildings and either exit the roofs or exterior walls. The horizontal perforated sections of the perforated system piping will be wrapped in a permeable filter fabric sock, and will be installed into shallow 12-inch deep trenches that will be backfilled with ½-inch pea gravel.

The ventilation system piping will be connected to in-line electric fans/blowers. The specifications of any in-line blower/fan will include a capacity to create a discharge flow rate of at least 168 cubic feet per minute (CFM) when subjected to a static pressure of 1.5 inches of water column, similar to the FR Series (FR 225) Inline Exhaust Fan Performance Data summarized in the attached specification sheet (Appendix H). Any rooftop discharges will be placed at least 20 feet from any HVAC fresh air intake, and will extend a minimum of 12 inches above the nearest roof parapet wall. The fans/blowers will be equipped with visible alarm capabilities to notify management of fan failure (i.e. loss of vacuum, power etc.)

Prior to construction/installation, the sub-slab ventilation/depressurization systems will be engineered and designed to adhere to performance criteria that will capture sub-slab vapors and will mitigate the potential for vapor intrusion. *For example: If the assumed area of treatment is confined to a uniformed, granular strata (assumed 30% porosity) within the uppermost 1-foot horizon beneath floor slabs that encompass an area of 100,000 square feet (SF), an average discharge flow rate of 100 cubic feet per minute (CFM) would remove/evacuate the air within the uppermost 1-foot of soil pore space beneath the slab (approximately 30,000 cubic-feet) nearly five (5) times per day, regardless of the pressure differential.* Accordingly, the precise location of the vent system piping and number and type of fans/blowers will be determined during the design phase to achieve adequate protection from vapor intrusion into the buildings. Schematic diagrams of the proposed depressurization system components are depicted on Figures 6 and 7.

To assess the operational effectiveness of the system following installation, Nova will utilize one or more of the following procedures to document the movement of air through the mitigation systems and/or the negative pressure achieved beneath the floor slabs:

- Measure flow velocity readings in the discharge stacks with a Digital Thermo Anemometer that will be equipped to measure air velocities in feet per minute (FPM) with an accuracy of + 3%.
- Measure pressure differentials in and/or flow rates into permanent sub-slab monitoring points after system installation/startup and assess the radius of influence beneath the floor slab. A schematic of the sub-slab monitoring points is shown in Figure 8. If installed, the location of any sub-slab monitoring points will be determined based on the locations of the perforated piping runs and available access for installation.

2.8 Site Health & Safety Plan

As part of the VRAP implementation, a Site Health and Safety Plan (HSP) will be prepared. The HSP will outline the safety-related procedures and protocols necessary to implement on-site safety during the response action activities. At a minimum, the HSP will include the following information:

- Site Description
- Personnel and Responsibilities
- Emergency Contacts
- Work Zones & Practices
- Accident Prevention
- Incident Response
- Site Contaminant Characteristics
- Personal Protection and Air Monitoring

All Nova personnel associated with the VRAP implementation will be required to follow the stated provisions of the HSP.

2.9 VRAP Implementation Report

Upon completion of the development activities, a VRAP Implementation Report will be prepared detailing methods and procedures, observations, analytical results, and other documentation of the response actions. The VRAP Implementation Report, which will identify any modifications to the approved response actions necessary to implement the VRAP and provide a complete description of any contingencies that were implemented, will be submitted to the MPCA for review.

If necessary, the VRAP Implementation Report will discuss the need for applicable Institutional Controls to further document any remaining site contamination and/or restrict site uses to protect human health and the environment, as well as any continued monitoring associated with the proposed mitigation systems. In addition, the VRAP Implementation Report will likely include requests for applicable liability assurances, as previously discussed in Section 2.1.

3.0 ENVIRONMENTAL CONTINGENCY PROCEDURES

The procedures outlined below have been formulated to address unexpected environmental conditions that may arise during redevelopment activities and implementation of the VRAP.

3.1 Notification and Environmental Monitoring

During excavation and grading operations within the known impacted areas, a Nova representative will be onsite continuously to observe and record soil conditions and manage the excavated materials in accordance with the VRAP. In areas outside of the known or suspected impacted areas, the excavation contractor will notify Nova immediately upon encountering debris or any other evidence of contaminated soil (i.e. unusual odors, staining etc.).

In the event that any previously unidentified hazardous materials or unexpected conditions are encountered during site excavation or grading activities, work in the area shall cease temporarily and the work area shall be secured. If a Nova representative is not already onsite, then the contractor shall contact Nova immediately.

3.2 Underground Storage Tanks

In the event of discovery of any unknown underground storage tanks (UST), a licensed tank contractor will be engaged to remove any encountered USTs from the Site. The contractor shall confirm that the tank is isolated from all supply and/or drain piping and that all utilities have been adequately located and marked. The contractor will remove and containerize any residual tank contents prior to tank excavation. All residual tank contents shall be handled in accordance with MPCA and Occupational Safety and Health Administration (OSHA) requirements. All laborers handling residual petroleum or hazardous waste products shall be properly trained and operate in compliance with contractor's site health and safety plan.

The contractor shall excavate and remove any USTs in a manner that minimizes the potential for incidental spillage of residual tank contents during removal. If contaminated soil is identified during field activities, it will be managed during the subsequent Site re-development in accordance with the protocol previously discussed in Section 2.5.

Any excavated wastes will be transported in strict compliance with all Department of Transportation (DOT) and any other local, state, and federal guidelines. All wastes will be properly disposed of at disposal facilities licensed to accept the waste material; and, waste manifests will be prepared as necessary and included in the final VRAP Implementation report.

3.3 Demolition Debris

If suspect ACM debris is identified through visual observation, samples of the material will be collected and submitted for laboratory analysis by a Minnesota Department of Health (MDH) certified asbestos inspector. If the suspect material is identified as asbestos-containing, further excavation work will be conducted in accordance with the MPCA Asbestos Guidance on Excavation Projects (July 1999) and an approved Emission Control Plan (ECP).

If asbestos-containing materials (ACMs) are identified in the fill materials, Nova will prepare and submit an Asbestos Emissions Control Plan (ECP) to the MPCA for review and approval. The purpose of the ECP is to outline procedures for control of asbestos emissions during soil excavation activities conducted at the subject property, and detail procedures for the handling and transportation of excavated asbestos materials to an approved landfill. The ECP will be developed to meet the MPCA requirements as outlined in the Fact Sheet - Asbestos Guidance on Excavation Projects.

3.4 Water Wells

Any unknown water wells encountered at the Site will be sealed by a licensed water well contractor in accordance with MDH Minnesota Rules Section 4725.3850 - Sealing Wells and Borings. These activities will include, but are not limited to, measuring the length of the well to be sealed, removal of any obstructions from the well, making proper notifications to the MDH, requesting MDH recommendations on proceeding, ripping or perforating the well casing, if required, and providing responsibility for well abandonment.

3.5 Hazardous Materials, Drums and Containers

It is possible that unknown drums or containers could be encountered during the proposed soil excavation. Health and safety measures will be paramount in the event unknown products are encountered during the soil excavation. These measures will include:

1. Discontinue further excavation in the area and erect barriers to limit access.
2. Assess the potential for explosive vapors and the need for respiratory protection using an explosimeter and photoionization detector (PID).
3. Assess the contents of the tanks or containers. If necessary, a sample of unidentified products will be collected for laboratory analyses.
4. Place leaking or damaged containers into over-pack drums to prevent release of product.
5. Contract with a licensed waste disposal company to remove and dispose of any product.
6. Inert any containers as necessary to eliminate explosive vapors prior to disposal at a licensed facility.
7. If adjacent soil has been contaminated by unidentified products, the soil will be stockpiled on-site until samples are collected and characterized, in accordance with the waste disposal facility permit requirements.

4.0 STANDARD OF CARE

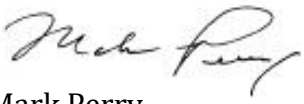
The services performed by Nova on this project have been conducted with that level of care and skill ordinarily exercised by reputable members of the profession, practicing in the same locality, under similar budget and time constraints. No other warranty is expressed or intended.

This document was prepared exclusively for the use or benefit of those listed on the Title page of this report. Reliance or use by any other third party without explicit written authorization from Nova will be at the third party's own risk. No warranties or representations, expressed or implied, are made to any such third party.

We appreciate the opportunity to provide this service. If you have any questions regarding this report, please do not hesitate to contact us.

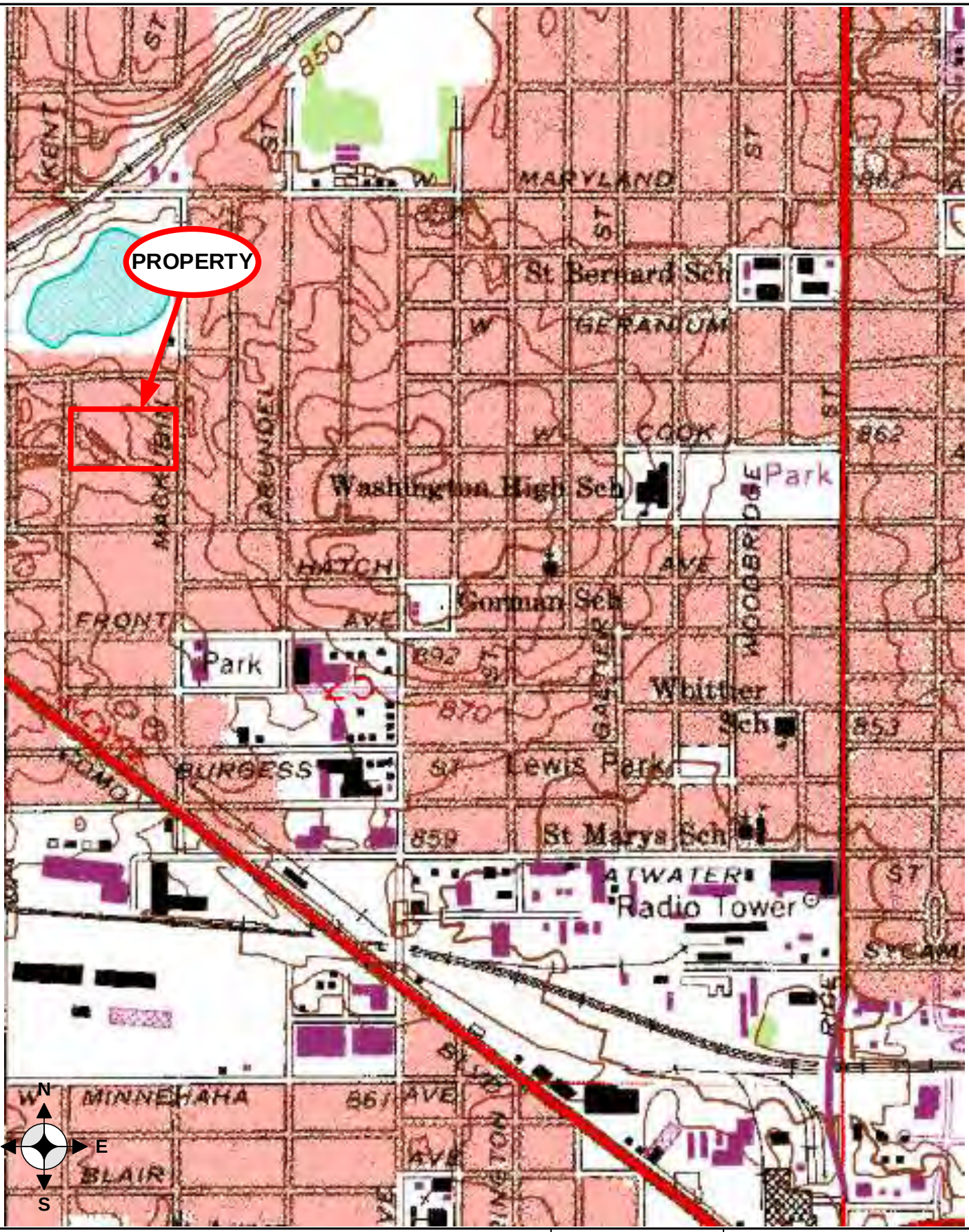
NOVA CONSULTING GROUP, INC.

Eric Halpaus
Project Manager



Mark Perry
Vice President

FIGURES



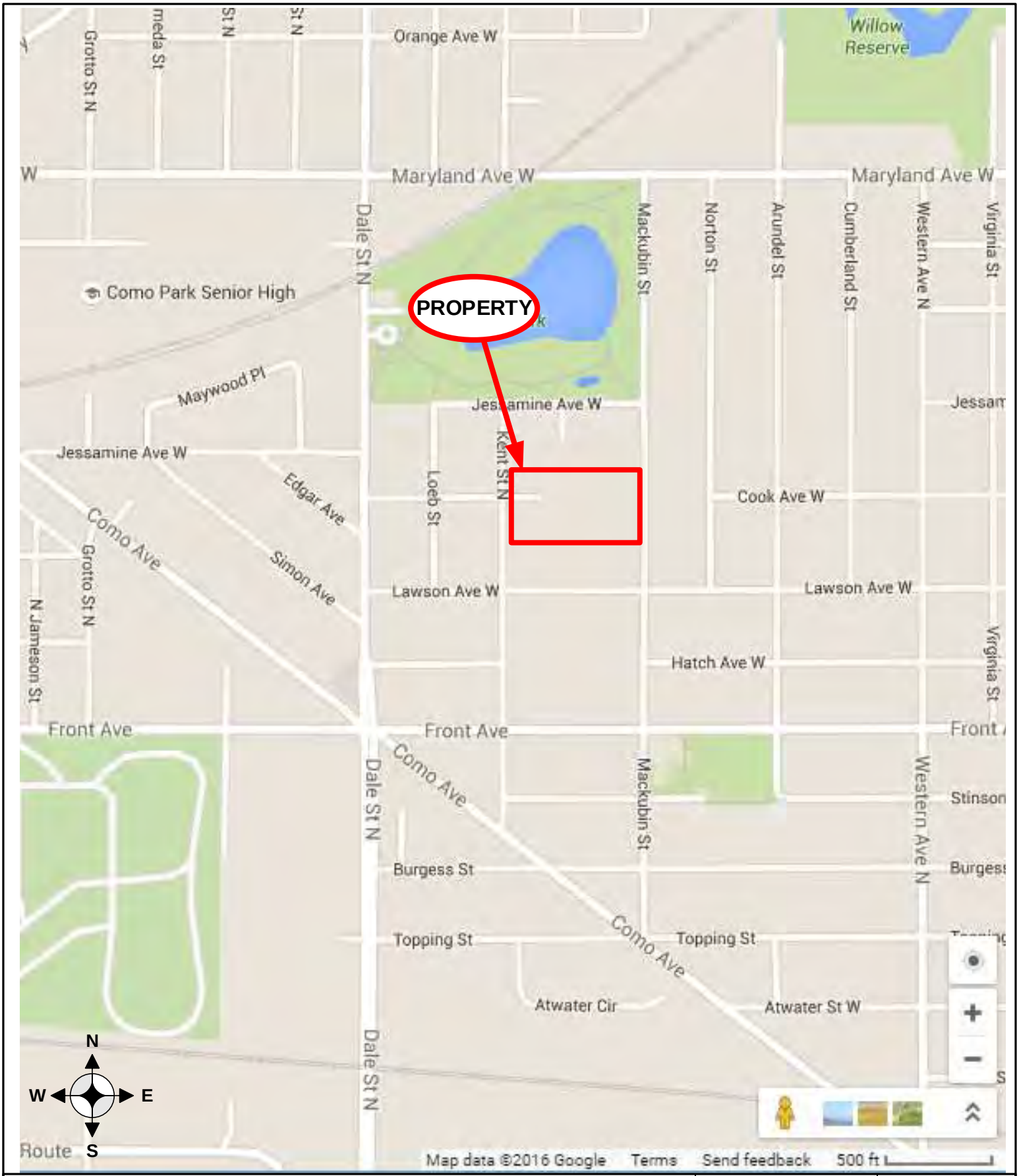
TOPOGRAPHIC MAP

St. Paul Public Schools RiverEast Relocation
1050 Kent Street North
St. Paul, MN 55117
NOVA PROJ. # E16-2821

NOVA CONSULTING

Source: USGS 7.5 Minute Topographic Map St. Paul East, MN Quadrangle 1967 (photorevised 1993)

Scale: 1:24000



PROPERTY LOCATION MAP
St. Paul Public Schools RiverEast Relocation
1050 Kent Street North
St. Paul, MN 55117
NOVA PROJ. # E16-2821

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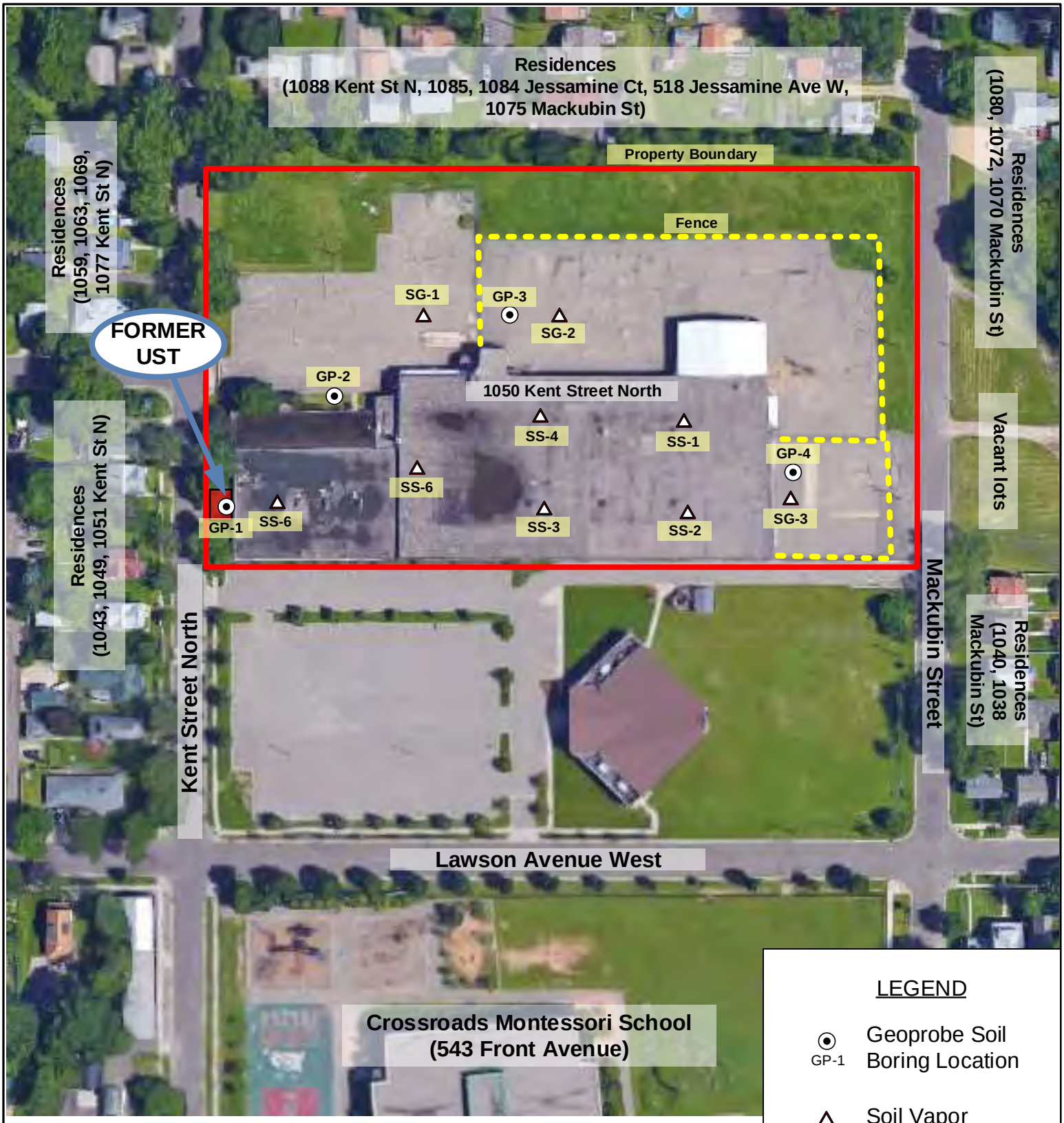
September 2016

Figure 2



SOIL BORING LOCATION MAP

St. Paul Public Schools RiverEast Relocation
1050 Kent Street North
St. Paul, MN 55117
NOVA PROJ. # E16-2821

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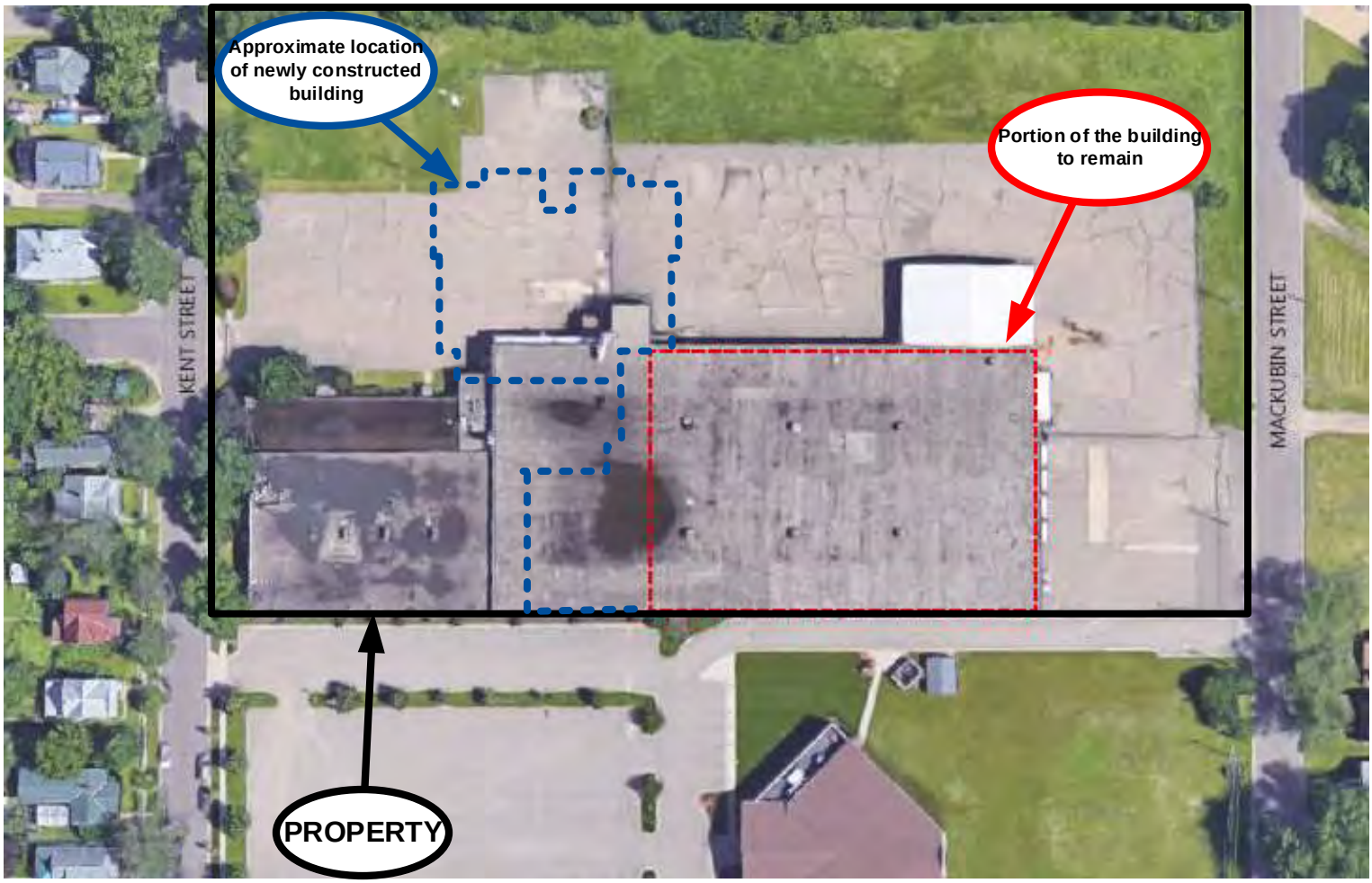
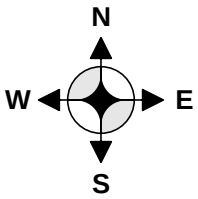
Figure 3





AERIAL PHOTOGRAPH WITH PROPOSED BUILDING LOCATION
St. Paul Public Schools RiverEast Relocation
1050 Kent Street North
St. Paul, MN 55117

NOVA PROJ. # E16-2821

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Figure 4

Base map courtesy of St. Paul Public Schools

PROPOSED SITE PLAN
St. Paul Public Schools RiverEast Relocation
1050 Kent Street North
St. Paul, MN 55117

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Figure 5

Base map courtesy of St. Paul Public Schools

OVERALL SITE PLAN
St. Paul Public Schools RiverEast Relocation
1050 Kent Street North
St. Paul, MN 55117

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Figure 5

LEGEND

- Vertical Vent to Roof and Blower
- Control Valve
- 6" Solid Schedule 40 PVC
- 4" Solid Schedule 40 PVC

Base map courtesy of St. Paul Public Schools

DEPRESSURIZATION SYSTEM
St. Paul Public Schools RiverEast Relocation
1050 Kent Street North
St. Paul, MN 55117

E16-2821

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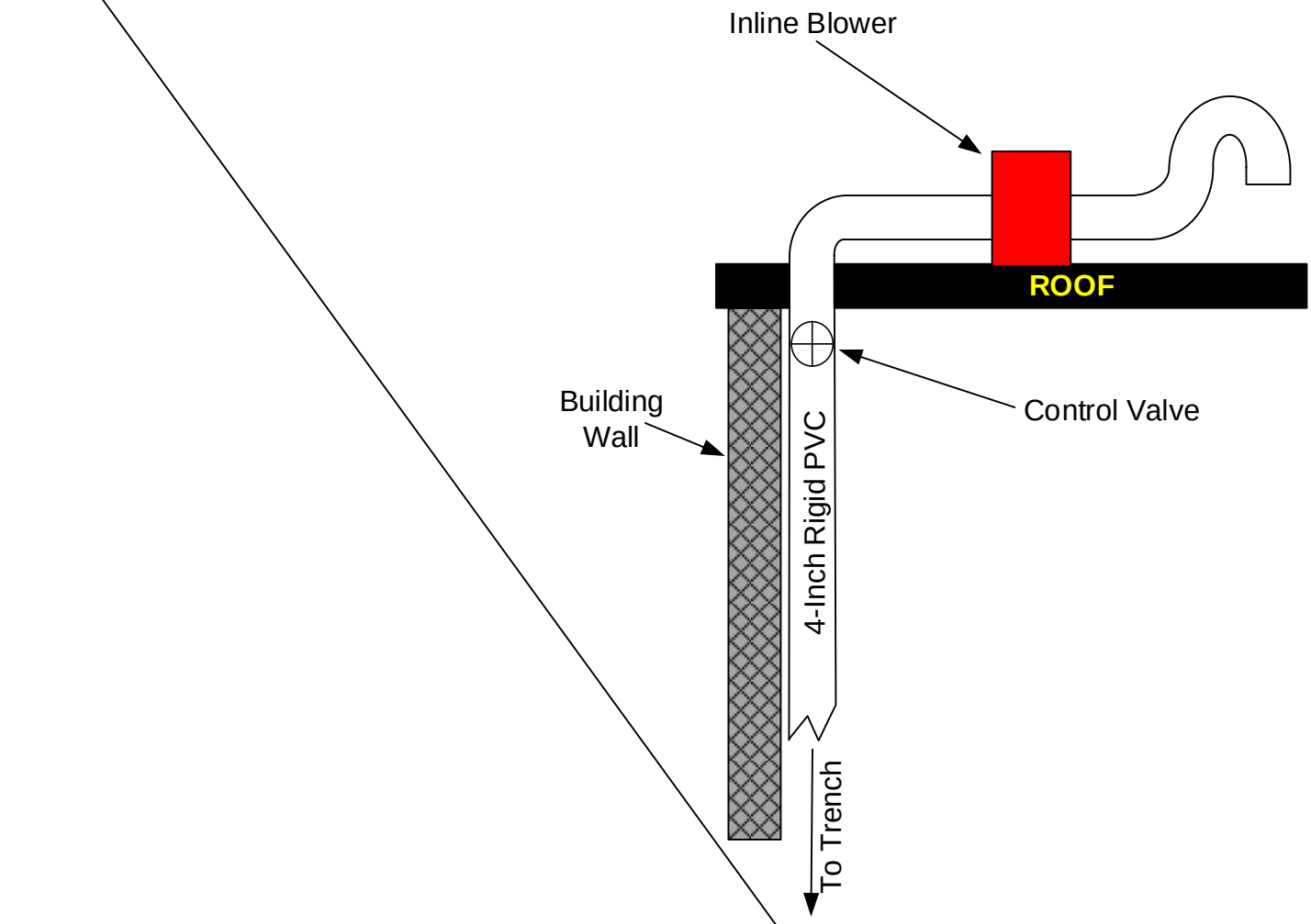
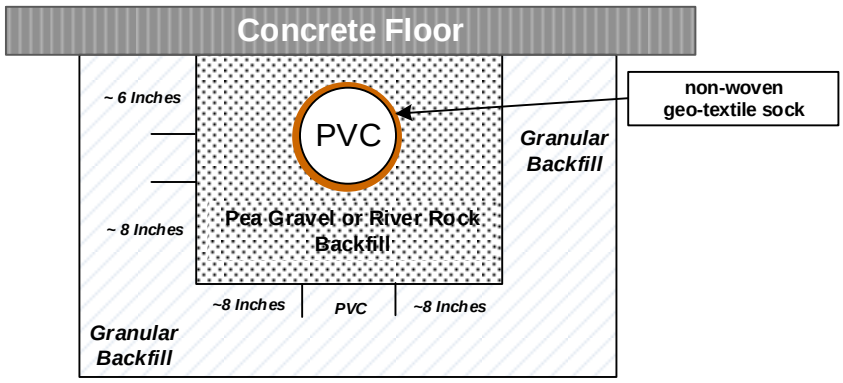
Figure 5

Roof Vent / Trench Schematic





ROOF VENT and TRENCH SCHEMATIC

St. Paul Public Schools RiverEast Relocation
1050 Kent Street North
St. Paul, MN 55117
NOVA PROJ. # E16-2821

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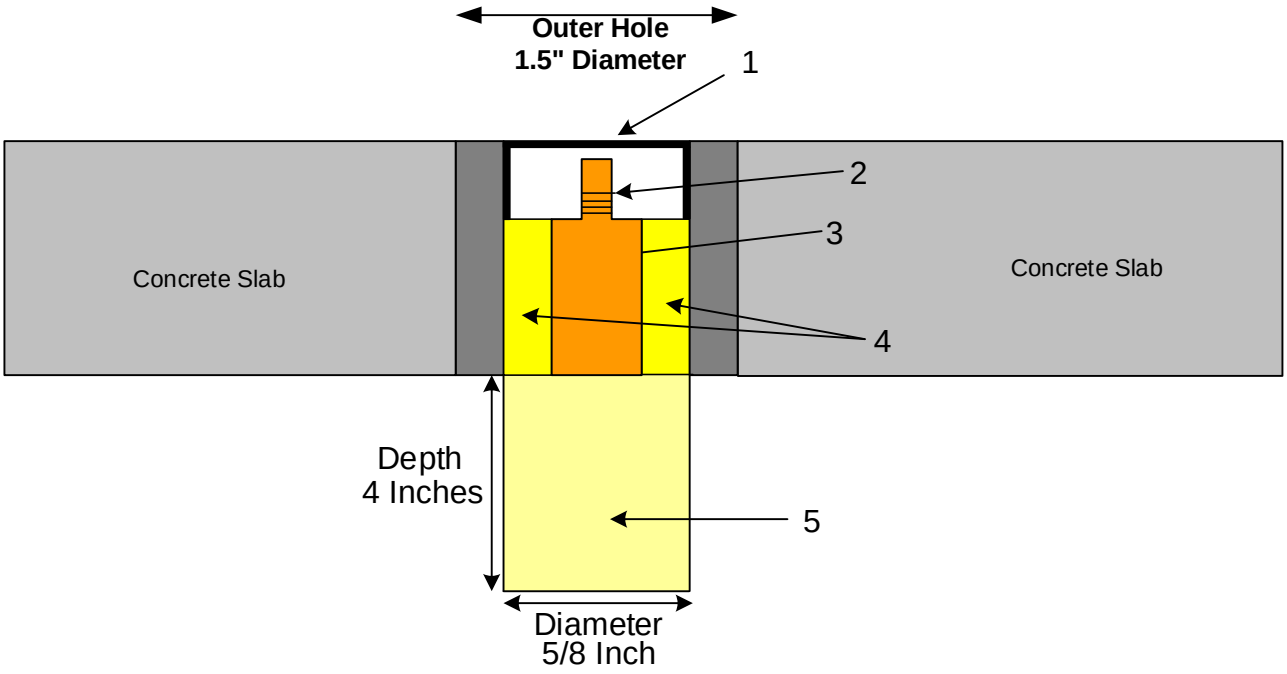
Figure 8

Sub-Slab Vapor / Pressure Monitoring Point Installation Diagram - Vapor Pin™



Construction Notes

1. Stainless Steel Threaded Surface Cap or Plastic Plug
2. Threaded and Barbed Tubing / Cap Fitting
3. Stainless Steel Vapor Pin™
4. Peroxide Cured Silicon Seal
5. Open Hole

SUB SLAB VAPOR & PRESSURE MONITORING POINT
St. Paul Public Schools RiverEast Relocation
1050 Kent Street North
St. Paul, MN 55117
NOVA PROJ. # E16-2821

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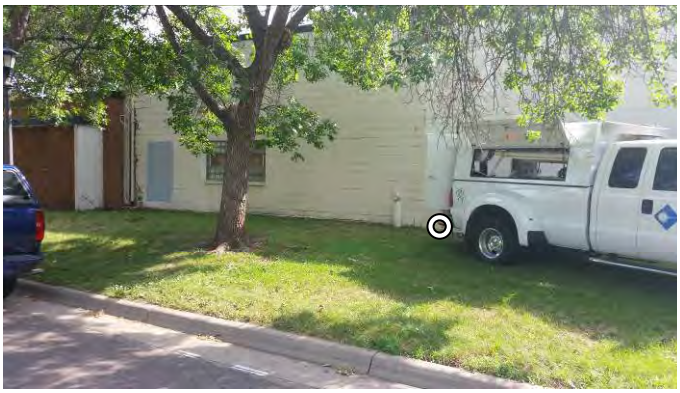
September 2016

Figure 9

APPENDIX A

PHOTOGRAPHIC DOCUMENTATION



1. GP-1

2. GP-2

3. SG-1

4. GP-3

5. SG-2

6. SG-3 and GP-4

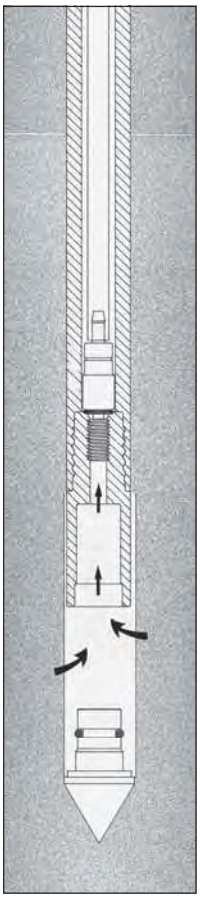
APPENDIX B

GEOPROBE PRT SYSTEM DOCUMENTATION

Soil Gas Sampling – PRT System Operation

from Geoprobe Systems®

www.geoprobe.com
1-800-436-7762



Soil Gas Sampling using the Post-Run Tubing (PRT) System.

Soil Gas Sampling — PRT System Operation

Basics

Using the Post-Run Tubing System, one can drive probe rods to the desired sampling depth, then insert and seal an internal tubing for soil gas sampling. The usual Geoprobe probe rods and driving accessories and the following tools are required:

- PRT Expendable Point Holder
- PRT Adapter
- Selected PRT Tubing

Preparation

1. Clean all parts prior to use. Install O-rings on the PRT Expendable Point Holder and the PRT adapter.

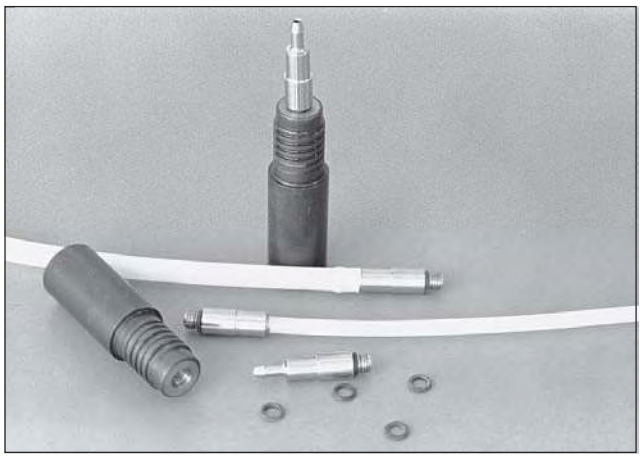
2. Inspect the probe rods and clear them of all obstructions.

3. TEST FIT the adapter with the PRT fitting on the expendable point holder to assure that the threads are compatible and fit together smoothly.

   NOTE: PRT fittings are left-hand threaded.

4. Push the adapter into the end of the selected tubing. Tape may be used on the outside of the adapter and tubing to prevent the tubing from spinning freely around the adapter during connection – especially when using Teflon tubing **(Figure 1)**.

   REMEMBER: The sample will not contact the outside of the tubing or adapter.



PRT SYSTEM PARTS
PRT Expendable Point Holder, PRT Adapters, Tubing, and O-rings.

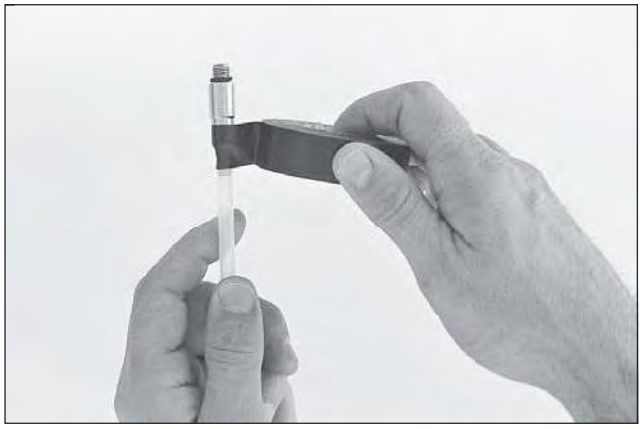
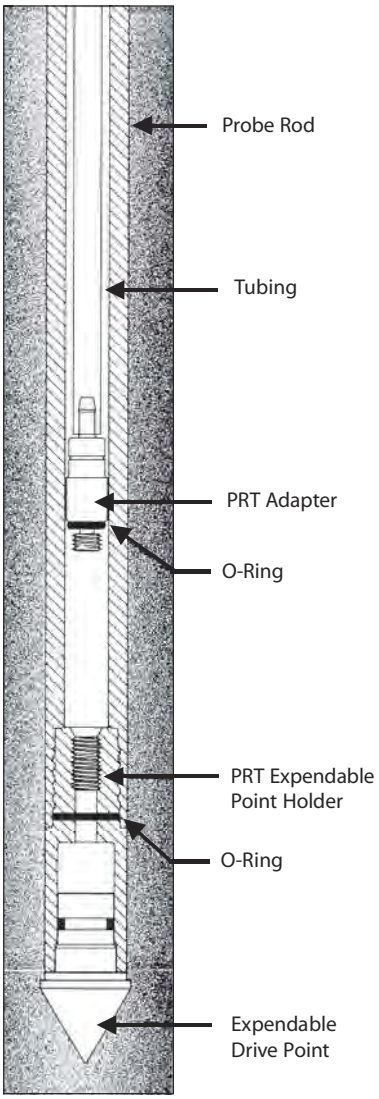


Figure 1. Securing adapter to tubing with tape. NOTE: Tape does not contact soil gas sample.

Figure 2. Insertion of tubing and PRT adapter.

Figure 3. Engaging threads by rotating tubing.



A cross section of probe rods driven to depth and then retracted to allow for soil gas sampling. The PRT adapter and tubing are now fed through the rods and rotated to form a vacuum-tight connection at the point holder. The result is a continuous run of tubing from the sample level to the surface.

Probing

Drive the PRT tip configuration into the ground. Connect probe rods as necessary to reach the desired depth. After depth has been reached, disengage the expendable point by pulling up on the probe rods. Remove the pull cap from the top probe rod, and position the Geoprobe unit to allow room to work.

Connection

1. Insert the adapter end of the tubing down the inside diameter of the probe rods **(Figure 2)**.

2. Feed the tubing down the rod bore until it hits bottom on the expendable point holder. Allow about 2 ft. (610 mm) of tubing to extend out of the hole before cutting it.

3. Grasp the excess tubing and apply some downward pressure while turning it in a counterclockwise motion to engage the adapter threads with the expendable point holder **(Figure 3)**.

4. Pull up lightly on the tubing to test engagement of the threads. (Failure of adapter to thread could mean that intrusion of soil may have occurred during driving of probe rods or disengagement of drive point.)

Sampling

1. Connect the outer end of the tubing to the Silicone Tubing Adapter and vacuum hose (or other sampling apparatus).

2. Follow the appropriate sampling procedure for collecting a soil gas sample **(Figure 1)**.

Removal

1. After collecting a sample, disconnect the tubing from the vacuum hose or sampling system.

2. Pull up firmly on the tubing until it releases from the adapter at the bottom of the hole. (Taped tubing requires a stronger pull.)

3. Remove the tubing from the probe rods. Dispose of polyethylene tubing or decontaminate Teflon tubing as protocol dictates.

4. Retrieve the probe rods from the ground and recover the expendable point holder with the attached PRT adapter.

5. Inspect the O-ring at the base of the PRT adapter to verify that proper sealing was achieved during sampling. The O-ring should be compressed. This seal can be tested by capping the open end of the point holder applying vacuum to the PRT adapter.

6. Prepare for the next sample.

Figure 1. Taking a soil gas sample for direct injection into a GC with the PRT system.

APPENDIX C

COX COLVIN VAPOR PIN SOP

Standard Operating Procedure Installation and Extraction of the Vapor Pin™

December 3, 2013

Scope:

This standard operating procedure describes the installation and extraction of the Vapor Pin™ for use in sub-slab soil-gas sampling.

Purpose:

The purpose of this procedure is to assure good quality control in field operations and uniformity between field personnel in the use of the Vapor Pin™ for the collection of sub-slab soil-gas samples.

Equipment Needed:

- Assembled Vapor Pin™ [Vapor Pin™ and silicone sleeve (Figure 1)];
- Hammer drill;
- 5/8-inch diameter hammer bit (Hilti™ TE-YX 5/8" x 22" #00206514 or equivalent);
- 1½-inch diameter hammer bit (Hilti™ TE-YX 1½" x 23" #00293032 or equivalent) for flush mount applications;
- ¾-inch diameter bottle brush;
- Wet/dry vacuum with HEPA filter (optional);
- Vapor Pin™ installation/extraction tool;
- Dead blow hammer;
- Vapor Pin™ flush mount cover, if desired;
- Vapor Pin™ protective cap; and
- VOC-free hole patching material (hydraulic cement) and putty knife or trowel.

Figure 1. Assembled Vapor Pin™.

Installation Procedure:

1) Check for buried obstacles (pipes, electrical lines, etc.) prior to proceeding.

2) Set up wet/dry vacuum to collect drill cuttings.

3) If a flush mount installation is required, drill a 1½-inch diameter hole at least 1¾-inches into the slab.

4) Drill a 5/8-inch diameter hole through the slab and approximately 1-inch into the underlying soil to form a void.

5) Remove the drill bit, brush the hole with the bottle brush, and remove the loose cuttings with the vacuum.

6) Place the lower end of Vapor Pin™ assembly into the drilled hole. Place the small hole located in the handle of the extraction/installation tool over the Vapor Pin™ to protect the barb fitting and cap, and tap the Vapor Pin™ into place using a dead blow hammer (Figure 2). Make sure

the extraction/installation tool is aligned parallel to the Vapor Pin™ to avoid damaging the barb fitting.

Figure 2. Installing the Vapor Pin™.

For flush mount installations, unscrew the threaded coupling from the installation/extraction handle and use the hole in the end of the tool to assist with the installation (Figure 3).

Figure 3. Flush-mount installation.

During installation, the silicone sleeve will form a slight bulge between the slab and the Vapor Pin™ shoulder. Place the protective cap on Vapor Pin™ to prevent vapor loss prior to sampling (Figure 4).

Figure 4. Installed Vapor Pin™.

7) For flush mount installations, cover the Vapor Pin™ with a flush mount cover, using either the plastic cover or the optional stainless-steel Secure Cover.

8) Allow 20 minutes or more (consult applicable guidance for your situation) for the sub-slab soil-gas conditions to equilibrate prior to sampling.

9) Remove protective cap and connect sample tubing to the barb fitting of the Vapor Pin™ (Figure 5).

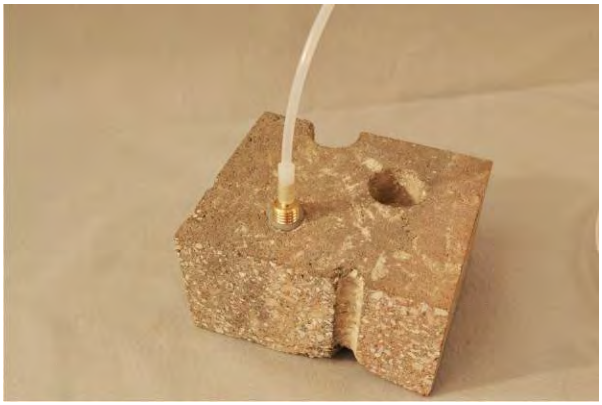


Figure 5. Vapor Pin™ sample connection.

10) Conduct leak tests in accordance with applicable guidance. If the method of leak testing is not specified, an attractive alternative can be the use of a water dam and vacuum pump, as described in SOP Leak Testing the Vapor Pin™ via Mechanical Means (Figure 6).

Figure 6. Water dam used for leak detection.

11) Collect sub-slab soil gas sample. When finished sampling, replace the protective cap and flush mount cover until the next sampling event. If the sampling is complete, extract the Vapor Pin™.

Extraction Procedure:

1) Remove the protective cap, and thread the installation/extraction tool onto the barrel of the Vapor Pin™ (Figure 7). Continue turning the tool to assist in extraction, then pull the Vapor Pin™ from the hole.

2) Fill the void with hydraulic cement and smooth with the trowel or putty knife. Urethane caulk is widely recommended for installing radon systems and can provide a tight seal, but it could also be a source of VOCs during subsequent sampling.

Figure 7. Removing the Vapor Pin™.

3) Prior to reuse, remove the silicone sleeve and discard. Decontaminate the Vapor Pin™ in a hot water and Alconox® wash, then heat in an oven to a temperature of 130° C.

The Vapor Pin™ to designed be used repeatedly; however, replacement parts and supplies will be required periodically. These parts are available on-line at www.CoxColvin.com.

Replacement Parts:

Vapor Pin™ Kit Case - VPC001
Vapor Pins™ - VPIN0522
Silicone Sleeves - VPTS077
Installation/Extraction Tool - VPIE023
Protective Caps - VPPC010
Flush Mount Covers - VPFM050
Water Dam - VPWD004
Brush - VPB026
Secure Cover - VPSCSS001
Spanner Wrench - VPSPAN001

APPENDIX D

SOIL BORING LOGS

LOG OF BORING GP-1

NOVA CONSULTING

Office/Warehouse
1050 Kent Street North
St. Paul, Minnesota 55117

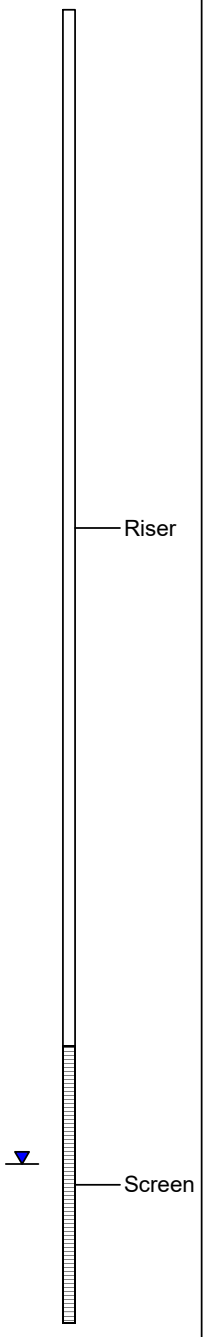
Limted Phase II Site Investigation

Project No. E16-2821

Date Started	: August 10, 2016	PID	: Mini Rae 3000
Drilling Company	: Nova Consulting Group	PID Lamp	: 10.6 eV
Hole Diameter	: 2.25 inches	Temp Well Type	: 0.75" Retractable Screen
Drilling Method	: Geoprobe 5410	Weather	: P. Cloudy, 75 Degrees F
Sampling Method	: Macrocore 5	Logged By	: MDH

Depth in Feet	Lab Sample (feet)	GRAPHIC	USCS	PID (ppm)	DESCRIPTION	Water Level	REMARKS
0					SAND, brown, fine to coarse grained, some fine to coarse gravel, moist. ~ 1' recovered from 0 - 4'		
2			SW	ND			
4					SAND, brown, fine to coarse grained, some fine to coarse gravel, a piece of concrete (FILL), moist. ~ 1.5' recovered from 4' - 8'		
6			SW	ND			
8					SAND, brown, fine to coarse grained, poorly sorted, some fine to coarse gravel, moist. ~ 2.5' recovered from 8' - 12'		
10			SW	ND			
12					SAND, tan/brown with red and black grains, fine to coarse grained, poorly sorted, trace fine to coarse gravel, moist.		
13			SW	ND			
15	(15-16')		SW	ND	SAND, tan/brown with red and black grains, fine to coarse grained, poorly sorted, trace fine to coarse gravel, wet.		
16							
17							
18							
19					END OF BORING		

Well: GP-1



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LOG OF BORING GP-2

NOVA CONSULTING

Office/Warehouse
1050 Kent Street North
St. Paul, Minnesota 55117

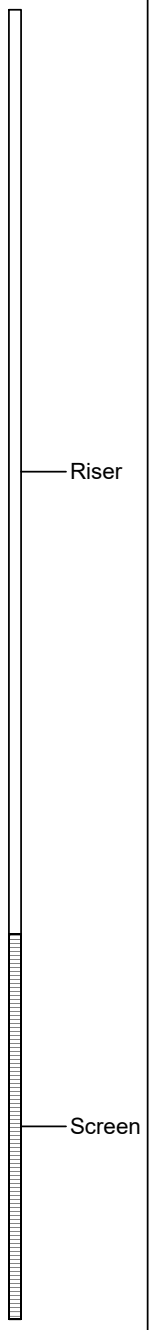
Limted Phase II Site Investigation

Project No. E16-2821

Date Started	: August 10, 2016	PID	: Mini Rae 3000
Drilling Company	: Nova Consulting Group	PID Lamp	: 10.6 eV
Hole Diameter	: 2.25 inches	Temp Well Type	: 0.75" PVC
Drilling Method	: Geoprobe 5410	Weather	: P. Cloudy, 81 Degrees F
Sampling Method	: Macrocore 5	Logged By	: MDH

Depth in Feet	Lab Sample (feet)	GRAPHIC	USCS	PID (ppm)	DESCRIPTION	Water Level	REMARKS
0			ML	ND	SILT, dark brown, trace fine to coarse grained sand and gravel, some roots, moist.		
2			SM	ND	Silty SAND, dark brown, fine to coarse grained sand, some clay, moist.		
4			SC	ND	Sandy CLAY, dark brown and brown, friable, fine to coarse grained sand, trace fine to coarse gravel, moist. ~ 2' recovered from 4' - 8'		
8			SC	ND	Sandy CLAY, dark brown, friable, fine to coarse grained sand, trace fine gravel, very moist to saturated. ~ .5' recovered from 8' - 12'		
12	(12-13')		SP	ND	SAND, tan and brown, very fine grained, well sorted, wet.		
13			PT	ND	PEAT, brown, fibrous, wet.		
14			CL	ND	Silty CLAY, brown, friable, saturated.	▼	
15			SW	ND	Gravelly SAND, brown, fine to coarse grained sand and gravel, wet.		
17					END OF BORING		

Well: GP-2



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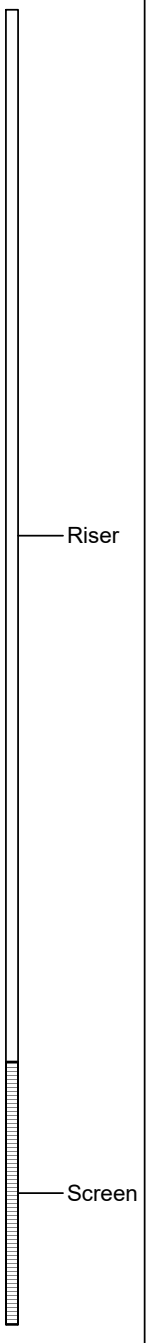
LOG OF BORING GP-3

Office/Warehouse 1050 Kent Street North St. Paul, Minnesota 55117			
Limted Phase II Site Investigation			
Project No. E16-2821			
Date Started	: August 10, 2016	PID	: Mini Rae 3000
Drilling Company	: Nova Consulting Group	PID Lamp	: 10.6 eV
Hole Diameter	: 2.25 inches	Temp Well Type	: 0.75" PVC
Drilling Method	: Geoprobe 5410	Weather	: P. Cloudy, 82 Degrees F
Sampling Method	: Macrocore 5	Logged By	: MDH

Depth in Feet	Lab Sample (feet)	GRAPHIC	USCS	PID (ppm)	DESCRIPTION	Water Level	REMARKS
0			As		Asphalt		
1			SW	ND	SAND, brown, fine to coarse grained, some fine to coarse gravel, moist. ~ 1.75' recovered from 0 - 4'		
2							
3							
4			SW	ND	SAND, tan and brown, fine to coarse grained, some fine to coarse gravel, moist. ~ 2.5' recovered from 4' - 8'		
5							
6			SC	ND	Sandy CLAY, dark brown grading to brown, fine to coarse grained sand, friable, very moist.		
7							
8			SC	ND	Sandy CLAY, tan and brown, friable, fine to coarse grained sand, trace fine gravel, moist and saturated in parts. ~ 3' recovered from 8' - 12'		
9							
10							
11							
12			SW	ND	SAND, brown with oxidation staining, fine to coarse grained, poorly sorted, some fine to coarse gravel, trace clay, wet.		
13	(12-14')						
14			SP	ND	SAND, tan/brown, fine to medium grained with trace coarse grains, moderately well sorted, wet.		
15							
16							Used PVC to screen to 17 and had low recovery. Re-screened with retractable screen from 16'-20'. Water level not collected.
17							
18							
19							
20					END OF BORING		



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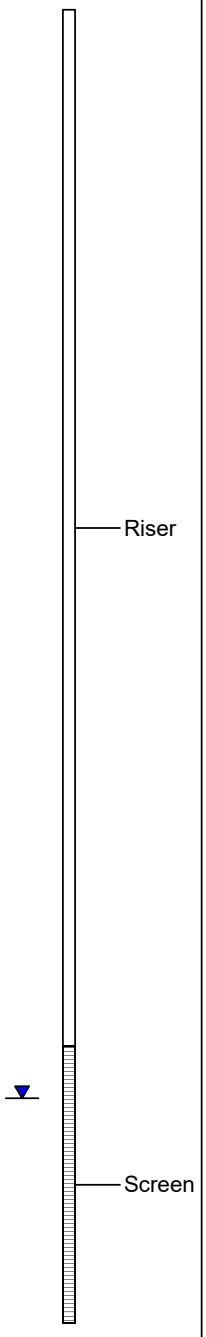
LOG OF BORING GP-4

Office/Warehouse 1050 Kent Street North St. Paul, Minnesota 55117			
Limted Phase II Site Investigation			
Project No. E16-2821			
Date Started	: August 10, 2016	PID	: Mini Rae 3000
Drilling Company	: Nova Consulting Group	PID Lamp	: 10.6 eV
Hole Diameter	: 2.25 inches	Temp Well Type	: 0.75" PVC
Drilling Method	: Geoprobe 5410	Weather	: P. Cloudy, 85 Degrees F
Sampling Method	: Macrocore 5	Logged By	: MDH

Depth in Feet	Lab Sample (feet)	GRAPHIC	USCS	PID (ppm)	DESCRIPTION	Water Level	REMARKS
0			As		Asphalt		
1					Silty SAND, dark brown with some tan, fine to medium grained with trace coarse grains, trace clay, trace fine to coarse gravel, moist.		
2			SM	ND	~2' recovered from 0 - 4'		
3							
4					Silty CLAY, brown, friable, some fine to coarse grained sand, moist and saturated in parts.		
5				ND	~ 2' recovered from 4' - 8'		
6			CH				
7				ND			
8					SAND, tan/brown with some red and black grains, fine to coarse grained, poorly sorted, trace fine to coarse gravel, very moist.		
9							
10			SW	ND	~ 2.5' recovered from 8' - 12'		
11							
12					SAND, tan/brown with some red and black grains, fine to coarse grained, poorly sorted, trace fine to coarse gravel, moist.		
13	(12-14')		SW	ND			
14							
15			SW		SAND, tan/brown with some red and black grains, fine to coarse grained, poorly sorted, trace fine to coarse gravel, wet.		
16				ND			
17							
18							
19					END OF BORING		

Well: GP-3



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APPENDIX E

LABORATORY ANALYTICAL REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-86901-1
TestAmerica Sample Delivery Group: E16-2821
Client Project/Site: Office/Warehouse - St. Paul, MN

For:
Nova Consulting Group Inc
1107 Hazeltine Boulevard, #400
Chaska, Minnesota 55318

Attn: Eric Halpaus

Angela Muehling

Authorized for release by:
8/18/2016 9:45:05 AM

Angela Muehling, Project Manager I
(319)277-2401
angela.muehling@testamericainc.com

Table of Contents

Job ID: 310-86901-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-86901-1

Comments
No additional comments.

Receipt
The samples were received on 8/11/2016 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.9º C, 3.7º C and 4.7º C.

Receipt Exceptions

Due to an organic preparation laboratory error, no 8270 SIMS data is available for the following samples: GP-1, GP-2, GP-3, & GP-4. The client was contacted regarding this issue.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 310-137393 recovered above the upper control limit for Carbon tetrachloride(25.7%D), Dibromomethane(22.7%D), Chlorobromomethane(28.6%D), Dichlorobromomethane(21.7%D), Benzene(22.0%D), cis-1,2-Dichloroethene(27.6%D), Chloroform(25.0%D), 1,2-Dichloroethane(26.4%D), Tetrachloroethane(20.3%D), 1,1,1-Trichloroethane(24.9%D), Bromoform(21.0%D), Trichloroethene(21.9%D), 1,2-Dichloropropane(26.8%D), Methyl tert0butyl ether(20.8%D), and 1,1-Dichloroethane(20.9%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8260B: The initial calibration verification (ICV) result for batch 310-137393 was above the upper control limit for Acetone(38.2%). Sample results were non-detects, and have been reported as qualified data.

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

GC/MS Semi VOA
Method(s) 8270D SIM: The following sample was diluted due to the nature of the sample matrix: GP-3 (12-14') (310-86901-5). Elevated reporting limits (RLs) are provided.

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

GC VOA
Method(s) WI-GRO: Surrogate recovery for the following sample was outside control limits: GP-1 (310-86901-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method(s) WI-DRO: The laboratory control sample duplicate (LCSD) for preparation batch 310-137329 and analytical batch 310-137456 recovered outside control limits for the following analyte: Diesel Range Organics (DRO). This analyte was biased low in the LCSD and all associated samples have been re-analyzed for confirmation; therefore, the data have been reported.

Method(s) WI-DRO: Significant peaks, readily distinguished from background, were detected in the following samples within five minutes after the end of the analytical window defined by the last component eluting in the Diesel Range Organics (DRO) mix (i.e., n-Octacosane): GP-1 (15-16') (310-86901-1) and GP-3 (12-14') (310-86901-5).

Method(s) WI-DRO: Significant peaks, readily distinguished from background, were detected in the following sample before the analytical window defined by the first component eluting in the Diesel Range Organics (DRO) mix (i.e., n-Decane): GP-1 (310-86901-2).

Method(s) WI-DRO: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 310-137353 and analytical batch 310-137457 recovered outside control limits for the following analyte: Diesel Range Organics (DRO). This analyte was biased low in the LCS and all associated samples have been re-analyzed for confirmation; therefore, the data have been

Job ID: 310-86901-1 (Continued)

Laboratory: TestAmerica Cedar Falls (Continued)

reported.

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

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

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

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

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

Sample Summary

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-86901-1	GP-1 (15-16')	Soil	08/10/16 09:50	08/11/16 09:40
310-86901-2	GP-1	Ground Water	08/10/16 10:20	08/11/16 09:40
310-86901-3	GP-2 (12-13')	Soil	08/10/16 10:45	08/11/16 09:40
310-86901-4	GP-2	Ground Water	08/10/16 11:10	08/11/16 09:40
310-86901-5	GP-3 (12-14')	Soil	08/10/16 12:00	08/11/16 09:40
310-86901-6	GP-3	Ground Water	08/10/16 12:25	08/11/16 09:40
310-86901-7	GP-4 (14 1/2-16')	Soil	08/10/16 13:30	08/11/16 09:40
310-86901-8	GP-4	Ground Water	08/10/16 14:00	08/11/16 09:40
310-86901-9	MeOH Trip	Solid	08/10/16 00:00	08/11/16 09:40
310-86901-10	GW Trip	Ground Water	08/10/16 00:00	08/11/16 09:40

Detection Summary

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-1 (15-16') — Lab Sample ID: 310-86901-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	16.7		0.454		mg/Kg	1	☼	6010C	Total/NA
Chromium	10.0		0.907		mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: GP-1 — Lab Sample ID: 310-86901-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
sec-Butylbenzene	2.04		1.00		ug/L	1		8260B	Total/NA
Isopropylbenzene	15.7		1.00		ug/L	1		8260B	Total/NA
N-Propylbenzene	17.3		1.00		ug/L	1		8260B	Total/NA
Tetrahydrofuran	14.4		10.0		ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	62.4		1.00		ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	18.2		1.00		ug/L	1		8260B	Total/NA
Xylenes, Total	6.86		3.00		ug/L	1		8260B	Total/NA
Wisconsin GRO	708		100		ug/L	1		WI-GRO	Total/NA
Diesel Range Organics (DRO)	1.09	*	0.101		mg/L	1		WI-DRO	Total/NA

Client Sample ID: GP-2 (12-13') — Lab Sample ID: 310-86901-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0125		0.0122		mg/Kg	1	☼	8270D SIM	Total/NA
Barium	38.2		0.497		mg/Kg	1	☼	6010C	Total/NA
Chromium	6.69		0.994		mg/Kg	1	☼	6010C	Total/NA
Lead	11.9		4.97		mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: GP-2 — Lab Sample ID: 310-86901-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO)	0.132	*	0.100		mg/L	1		WI-DRO	Total/NA

Client Sample ID: GP-3 (12-14') — Lab Sample ID: 310-86901-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO)	6.00	*	5.92		mg/Kg	1	☼	WI-DRO	Total/NA
Barium	37.0		0.517		mg/Kg	1	☼	6010C	Total/NA
Chromium	13.2		1.03		mg/Kg	1	☼	6010C	Total/NA
Lead	5.62		5.17		mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: GP-3 — Lab Sample ID: 310-86901-6

No Detections.

Client Sample ID: GP-4 (14 1/2-16') — Lab Sample ID: 310-86901-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	19.2		0.396		mg/Kg	1	☼	6010C	Total/NA
Chromium	9.76		0.791		mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: GP-4 — Lab Sample ID: 310-86901-8

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: MeOH Trip — Lab Sample ID: 310-86901-9

No Detections.

Client Sample ID: GW Trip — Lab Sample ID: 310-86901-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-1 (15-16')
Date Collected: 08/10/16 09:50
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-1
Matrix: Soil
Percent Solids: 77.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.629	^	0.629		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Allyl chloride	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Benzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Bromobenzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Bromochloromethane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Bromodichloromethane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Bromoform	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Bromomethane	<0.629		0.629		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
2-Butanone (MEK)	<0.314		0.314		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
n-Butylbenzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
sec-Butylbenzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
tert-Butylbenzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Carbon tetrachloride	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Chlorobenzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Chlorodibromomethane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Dichlorofluoromethane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Chloroethane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Chloroform	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Chloromethane	<0.314		0.314		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
4-Chlorotoluene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
2-Chlorotoluene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,2-Dibromo-3-Chloropropane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,2-Dibromoethane (EDB)	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,2-Dichlorobenzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,3-Dichlorobenzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,4-Dichlorobenzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Dichlorodifluoromethane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,2-Dichloroethane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,1-Dichloroethane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,1-Dichloroethene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
cis-1,2-Dichloroethene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
trans-1,2-Dichloroethene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,2-Dichloropropane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,3-Dichloropropane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
2,2-Dichloropropane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,1-Dichloropropene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
cis-1,3-Dichloropropene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
trans-1,3-Dichloropropene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Diethyl ether	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Ethylbenzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Hexachlorobutadiene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Isopropylbenzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
p-Isopropyltoluene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
4-Methyl-2-pentanone (MIBK)	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Methylene Chloride	<0.314		0.314		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Methyl tert-butyl ether	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Naphthalene	<0.314		0.314		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
N-Propylbenzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Styrene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-1 (15-16')
Date Collected: 08/10/16 09:50
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-1
Matrix: Soil
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,1,2,2-Tetrachloroethane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Tetrachloroethene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Tetrahydrofuran	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Toluene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,2,3-Trichlorobenzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,2,4-Trichlorobenzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,1,1-Trichloroethane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,1,2-Trichloroethane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Trichloroethene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Trichlorofluoromethane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,2,3-Trichloropropane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,1,2-Trichlorotrifluoroethane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,2,4-Trimethylbenzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
1,3,5-Trimethylbenzene	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Vinyl chloride	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Xylenes, Total	<0.189		0.189		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1
Dibromomethane	<0.126		0.126		mg/Kg	☼	08/12/16 06:50	08/12/16 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 135*	*08/12/16 06:50*	*08/12/16 16:18*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*	*08/12/16 06:50*	*08/12/16 16:18*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*	*08/12/16 06:50*	*08/12/16 16:18*	*1*

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Acenaphthene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Acenaphthylene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Anthracene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Benzo[a]anthracene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Benzo[a]pyrene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Benzo[b]fluoranthene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Benzo[g,h,i]perylene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Benzo[k]fluoranthene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Chrysene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Dibenz(a,h)anthracene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Fluoranthene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Fluorene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Indeno[1,2,3-cd]pyrene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Naphthalene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Phenanthrene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1
Pyrene	<0.0120		0.0120		mg/Kg	☼	08/11/16 13:52	08/12/16 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*10 - 110*	*08/11/16 13:52*	*08/12/16 12:09*	*1*
Nitrobenzene-d5 (Surr)	*74*		*10 - 110*	*08/11/16 13:52*	*08/12/16 12:09*	*1*
Terphenyl-d14 (Surr)	*73*		*20 - 110*	*08/11/16 13:52*	*08/12/16 12:09*	*1*

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-1 (15-16')
Date Collected: 08/10/16 09:50
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-1
Matrix: Soil
Percent Solids: 77.7

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<12.6		12.6		mg/Kg	☼	08/12/16 15:15	08/13/16 05:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*	*08/12/16 15:15*	*08/13/16 05:10*	*1*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<6.60	*	6.60		mg/Kg	☼	08/11/16 13:32	08/12/16 15:59	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<3.63		3.63		mg/Kg	☼	08/12/16 10:00	08/12/16 20:49	1
Barium	**16.7**		0.454		mg/Kg	☼	08/12/16 10:00	08/12/16 20:49	1
Cadmium	<0.907		0.907		mg/Kg	☼	08/12/16 10:00	08/12/16 20:49	1
Chromium	**10.0**		0.907		mg/Kg	☼	08/12/16 10:00	08/12/16 20:49	1
Lead	<4.54		4.54		mg/Kg	☼	08/12/16 10:00	08/12/16 20:49	1
Selenium	<6.80		6.80		mg/Kg	☼	08/12/16 10:00	08/12/16 20:49	1
Silver	<0.907		0.907		mg/Kg	☼	08/12/16 10:00	08/12/16 20:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0254		0.0254		mg/Kg	☼	08/11/16 14:41	08/15/16 10:47	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-1
Date Collected: 08/10/16 10:20
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-2
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			08/14/16 15:33	1
Allyl chloride	<2.00		2.00		ug/L			08/14/16 15:33	1
Benzene	<0.500		0.500		ug/L			08/14/16 15:33	1
Bromobenzene	<1.00		1.00		ug/L			08/14/16 15:33	1
Bromochloromethane	<5.00		5.00		ug/L			08/14/16 15:33	1
Bromodichloromethane	<1.00		1.00		ug/L			08/14/16 15:33	1
Bromoform	<5.00		5.00		ug/L			08/14/16 15:33	1
Bromomethane	<4.00		4.00		ug/L			08/14/16 15:33	1
2-Butanone (MEK)	<10.0		10.0		ug/L			08/14/16 15:33	1
n-Butylbenzene	<1.00		1.00		ug/L			08/14/16 15:33	1
sec-Butylbenzene	**2.04**		1.00		ug/L			08/14/16 15:33	1
tert-Butylbenzene	<1.00		1.00		ug/L			08/14/16 15:33	1
Carbon tetrachloride	<2.00		2.00		ug/L			08/14/16 15:33	1
Chlorobenzene	<1.00		1.00		ug/L			08/14/16 15:33	1
Chlorodibromomethane	<5.00		5.00		ug/L			08/14/16 15:33	1
Dichlorofluoromethane	<1.00		1.00		ug/L			08/14/16 15:33	1
Chloroethane	<4.00		4.00		ug/L			08/14/16 15:33	1
Chloroform	<1.00		1.00		ug/L			08/14/16 15:33	1
Chloromethane	<3.00		3.00		ug/L			08/14/16 15:33	1
4-Chlorotoluene	<1.00		1.00		ug/L			08/14/16 15:33	1
2-Chlorotoluene	<1.00		1.00		ug/L			08/14/16 15:33	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00		ug/L			08/14/16 15:33	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			08/14/16 15:33	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 15:33	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 15:33	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 15:33	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			08/14/16 15:33	1
1,2-Dichloroethane	<1.00		1.00		ug/L			08/14/16 15:33	1
1,1-Dichloroethane	<1.00		1.00		ug/L			08/14/16 15:33	1
1,1-Dichloroethene	<2.00		2.00		ug/L			08/14/16 15:33	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			08/14/16 15:33	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			08/14/16 15:33	1
1,2-Dichloropropane	<1.00		1.00		ug/L			08/14/16 15:33	1
1,3-Dichloropropane	<1.00		1.00		ug/L			08/14/16 15:33	1
2,2-Dichloropropane	<4.00		4.00		ug/L			08/14/16 15:33	1
1,1-Dichloropropene	<1.00		1.00		ug/L			08/14/16 15:33	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			08/14/16 15:33	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			08/14/16 15:33	1
Diethyl ether	<2.00		2.00		ug/L			08/14/16 15:33	1
Ethylbenzene	<1.00		1.00		ug/L			08/14/16 15:33	1
Hexachlorobutadiene	<5.00		5.00		ug/L			08/14/16 15:33	1
Isopropylbenzene	**15.7**		1.00		ug/L			08/14/16 15:33	1
p-Isopropyltoluene	<1.00		1.00		ug/L			08/14/16 15:33	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0		ug/L			08/14/16 15:33	1
Methylene Chloride	<5.00		5.00		ug/L			08/14/16 15:33	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			08/14/16 15:33	1
Naphthalene	<5.00		5.00		ug/L			08/14/16 15:33	1
N-Propylbenzene	**17.3**		1.00		ug/L			08/14/16 15:33	1
Styrene	<1.00		1.00		ug/L			08/14/16 15:33	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-1
Date Collected: 08/10/16 10:20
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-2
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			08/14/16 15:33	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			08/14/16 15:33	1
Tetrachloroethene	<1.00		1.00		ug/L			08/14/16 15:33	1
Tetrahydrofuran	**14.4**		10.0		ug/L			08/14/16 15:33	1
Toluene	<1.00		1.00		ug/L			08/14/16 15:33	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			08/14/16 15:33	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			08/14/16 15:33	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			08/14/16 15:33	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			08/14/16 15:33	1
Trichloroethene	<1.00		1.00		ug/L			08/14/16 15:33	1
Trichlorofluoromethane	<4.00		4.00		ug/L			08/14/16 15:33	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			08/14/16 15:33	1
1,1,2-Trichlorotrifluoroethane	<2.00		2.00		ug/L			08/14/16 15:33	1
1,2,4-Trimethylbenzene	**62.4**		1.00		ug/L			08/14/16 15:33	1
1,3,5-Trimethylbenzene	**18.2**		1.00		ug/L			08/14/16 15:33	1
Vinyl chloride	<1.00		1.00		ug/L			08/14/16 15:33	1
Xylenes, Total	**6.86**		3.00		ug/L			08/14/16 15:33	1
Dibromomethane	<1.00		1.00		ug/L			08/14/16 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*08/14/16 15:33*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*08/14/16 15:33*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/14/16 15:33*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	**708**		100		ug/L			08/12/16 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*X*	*80 - 120*		*08/12/16 15:09*	*1*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	**1.09**	*	0.101		mg/L		08/11/16 14:50	08/12/16 19:35	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-2 (12-13')
Date Collected: 08/10/16 10:45
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-3
Matrix: Soil
Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.610	^	0.610		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Allyl chloride	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Benzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Bromobenzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Bromochloromethane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Bromodichloromethane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Bromoform	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Bromomethane	<0.610		0.610		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
2-Butanone (MEK)	<0.305		0.305		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
n-Butylbenzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
sec-Butylbenzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
tert-Butylbenzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Carbon tetrachloride	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Chlorobenzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Chlorodibromomethane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Dichlorofluoromethane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Chloroethane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Chloroform	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Chloromethane	<0.305		0.305		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
4-Chlorotoluene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
2-Chlorotoluene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,2-Dibromo-3-Chloropropane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,2-Dibromoethane (EDB)	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,2-Dichlorobenzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,3-Dichlorobenzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,4-Dichlorobenzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Dichlorodifluoromethane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,2-Dichloroethane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,1-Dichloroethane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,1-Dichloroethene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
cis-1,2-Dichloroethene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
trans-1,2-Dichloroethene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,2-Dichloropropane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,3-Dichloropropane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
2,2-Dichloropropane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,1-Dichloropropene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
cis-1,3-Dichloropropene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
trans-1,3-Dichloropropene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Diethyl ether	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Ethylbenzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Hexachlorobutadiene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Isopropylbenzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
p-Isopropyltoluene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
4-Methyl-2-pentanone (MIBK)	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Methylene Chloride	<0.305		0.305		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Methyl tert-butyl ether	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Naphthalene	<0.305		0.305		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
N-Propylbenzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Styrene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-2 (12-13')
Date Collected: 08/10/16 10:45
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-3
Matrix: Soil
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,1,2,2-Tetrachloroethane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Tetrachloroethene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Tetrahydrofuran	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Toluene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,2,3-Trichlorobenzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,2,4-Trichlorobenzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,1,1-Trichloroethane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,1,2-Trichloroethane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Trichloroethene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Trichlorofluoromethane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,2,3-Trichloropropane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,1,2-Trichlorotrifluoroethane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,2,4-Trimethylbenzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
1,3,5-Trimethylbenzene	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Vinyl chloride	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Xylenes, Total	<0.183		0.183		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1
Dibromomethane	<0.122		0.122		mg/Kg	☼	08/12/16 06:50	08/12/16 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 135*	*08/12/16 06:50*	*08/12/16 16:42*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*	*08/12/16 06:50*	*08/12/16 16:42*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*	*08/12/16 06:50*	*08/12/16 16:42*	*1*

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Acenaphthene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Acenaphthylene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Anthracene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Benzo[a]anthracene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Benzo[a]pyrene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Benzo[b]fluoranthene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Benzo[g,h,i]perylene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Benzo[k]fluoranthene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Chrysene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Dibenz(a,h)anthracene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Fluoranthene	**0.0125**		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Fluorene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Indeno[1,2,3-cd]pyrene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Naphthalene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Phenanthrene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1
Pyrene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*10 - 110*	*08/11/16 13:52*	*08/12/16 12:31*	*1*
Nitrobenzene-d5 (Surr)	*77*		*10 - 110*	*08/11/16 13:52*	*08/12/16 12:31*	*1*
Terphenyl-d14 (Surr)	*73*		*20 - 110*	*08/11/16 13:52*	*08/12/16 12:31*	*1*

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-2 (12-13')
Date Collected: 08/10/16 10:45
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-3
Matrix: Soil
Percent Solids: 80.7

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<12.2		12.2		mg/Kg	☼	08/12/16 15:15	08/13/16 05:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*	*08/12/16 15:15*	*08/13/16 05:39*	*1*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.80	*	5.80		mg/Kg	☼	08/11/16 13:32	08/12/16 16:37	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<3.98		3.98		mg/Kg	☼	08/12/16 10:00	08/12/16 21:06	1
Barium	**38.2**		0.497		mg/Kg	☼	08/12/16 10:00	08/12/16 21:06	1
Cadmium	<0.994		0.994		mg/Kg	☼	08/12/16 10:00	08/12/16 21:06	1
Chromium	**6.69**		0.994		mg/Kg	☼	08/12/16 10:00	08/12/16 21:06	1
Lead	**11.9**		4.97		mg/Kg	☼	08/12/16 10:00	08/12/16 21:06	1
Selenium	<7.46		7.46		mg/Kg	☼	08/12/16 10:00	08/12/16 21:06	1
Silver	<0.994		0.994		mg/Kg	☼	08/12/16 10:00	08/12/16 21:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0236		0.0236		mg/Kg	☼	08/11/16 14:41	08/15/16 10:55	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-2
Date Collected: 08/10/16 11:10
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-4
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			08/14/16 21:57	1
Allyl chloride	<2.00		2.00		ug/L			08/14/16 21:57	1
Benzene	<0.500		0.500		ug/L			08/14/16 21:57	1
Bromobenzene	<1.00		1.00		ug/L			08/14/16 21:57	1
Bromochloromethane	<5.00		5.00		ug/L			08/14/16 21:57	1
Bromodichloromethane	<1.00		1.00		ug/L			08/14/16 21:57	1
Bromoform	<5.00		5.00		ug/L			08/14/16 21:57	1
Bromomethane	<4.00		4.00		ug/L			08/14/16 21:57	1
2-Butanone (MEK)	<10.0		10.0		ug/L			08/14/16 21:57	1
n-Butylbenzene	<1.00		1.00		ug/L			08/14/16 21:57	1
sec-Butylbenzene	<1.00		1.00		ug/L			08/14/16 21:57	1
tert-Butylbenzene	<1.00		1.00		ug/L			08/14/16 21:57	1
Carbon tetrachloride	<2.00		2.00		ug/L			08/14/16 21:57	1
Chlorobenzene	<1.00		1.00		ug/L			08/14/16 21:57	1
Chlorodibromomethane	<5.00		5.00		ug/L			08/14/16 21:57	1
Dichlorofluoromethane	<1.00		1.00		ug/L			08/14/16 21:57	1
Chloroethane	<4.00		4.00		ug/L			08/14/16 21:57	1
Chloroform	<1.00		1.00		ug/L			08/14/16 21:57	1
Chloromethane	<3.00		3.00		ug/L			08/14/16 21:57	1
4-Chlorotoluene	<1.00		1.00		ug/L			08/14/16 21:57	1
2-Chlorotoluene	<1.00		1.00		ug/L			08/14/16 21:57	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00		ug/L			08/14/16 21:57	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			08/14/16 21:57	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 21:57	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 21:57	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 21:57	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			08/14/16 21:57	1
1,2-Dichloroethane	<1.00		1.00		ug/L			08/14/16 21:57	1
1,1-Dichloroethane	<1.00		1.00		ug/L			08/14/16 21:57	1
1,1-Dichloroethene	<2.00		2.00		ug/L			08/14/16 21:57	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			08/14/16 21:57	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			08/14/16 21:57	1
1,2-Dichloropropane	<1.00		1.00		ug/L			08/14/16 21:57	1
1,3-Dichloropropane	<1.00		1.00		ug/L			08/14/16 21:57	1
2,2-Dichloropropane	<4.00		4.00		ug/L			08/14/16 21:57	1
1,1-Dichloropropene	<1.00		1.00		ug/L			08/14/16 21:57	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			08/14/16 21:57	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			08/14/16 21:57	1
Diethyl ether	<2.00		2.00		ug/L			08/14/16 21:57	1
Ethylbenzene	<1.00		1.00		ug/L			08/14/16 21:57	1
Hexachlorobutadiene	<5.00		5.00		ug/L			08/14/16 21:57	1
Isopropylbenzene	<1.00		1.00		ug/L			08/14/16 21:57	1
p-Isopropyltoluene	<1.00		1.00		ug/L			08/14/16 21:57	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0		ug/L			08/14/16 21:57	1
Methylene Chloride	<5.00		5.00		ug/L			08/14/16 21:57	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			08/14/16 21:57	1
Naphthalene	<5.00		5.00		ug/L			08/14/16 21:57	1
N-Propylbenzene	<1.00		1.00		ug/L			08/14/16 21:57	1
Styrene	<1.00		1.00		ug/L			08/14/16 21:57	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-2
Date Collected: 08/10/16 11:10
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-4
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			08/14/16 21:57	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			08/14/16 21:57	1
Tetrachloroethene	<1.00		1.00		ug/L			08/14/16 21:57	1
Tetrahydrofuran	<10.0		10.0		ug/L			08/14/16 21:57	1
Toluene	<1.00		1.00		ug/L			08/14/16 21:57	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			08/14/16 21:57	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			08/14/16 21:57	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			08/14/16 21:57	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			08/14/16 21:57	1
Trichloroethene	<1.00		1.00		ug/L			08/14/16 21:57	1
Trichlorofluoromethane	<4.00		4.00		ug/L			08/14/16 21:57	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			08/14/16 21:57	1
1,1,2-Trichlorotrifluoroethane	<2.00		2.00		ug/L			08/14/16 21:57	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			08/14/16 21:57	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			08/14/16 21:57	1
Vinyl chloride	<1.00		1.00		ug/L			08/14/16 21:57	1
Xylenes, Total	<3.00		3.00		ug/L			08/14/16 21:57	1
Dibromomethane	<1.00		1.00		ug/L			08/14/16 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/14/16 21:57*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*08/14/16 21:57*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/14/16 21:57*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<100		100		ug/L			08/12/16 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*80 - 120*		*08/12/16 19:19*	*1*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	**0.132**	*	0.100		mg/L		08/11/16 14:50	08/12/16 20:13	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-3 (12-14')
Date Collected: 08/10/16 12:00
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-5
Matrix: Soil
Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.552	^	0.552		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Allyl chloride	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Benzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Bromobenzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Bromochloromethane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Bromodichloromethane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Bromoform	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Bromomethane	<0.552		0.552		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
2-Butanone (MEK)	<0.276		0.276		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
n-Butylbenzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
sec-Butylbenzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
tert-Butylbenzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Carbon tetrachloride	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Chlorobenzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Chlorodibromomethane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Dichlorofluoromethane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Chloroethane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Chloroform	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Chloromethane	<0.276		0.276		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
4-Chlorotoluene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
2-Chlorotoluene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,2-Dibromo-3-Chloropropane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,2-Dibromoethane (EDB)	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,2-Dichlorobenzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,3-Dichlorobenzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,4-Dichlorobenzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Dichlorodifluoromethane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,2-Dichloroethane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,1-Dichloroethane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,1-Dichloroethene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
cis-1,2-Dichloroethene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
trans-1,2-Dichloroethene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,2-Dichloropropane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,3-Dichloropropane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
2,2-Dichloropropane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,1-Dichloropropene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
cis-1,3-Dichloropropene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
trans-1,3-Dichloropropene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Diethyl ether	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Ethylbenzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Hexachlorobutadiene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Isopropylbenzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
p-Isopropyltoluene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
4-Methyl-2-pentanone (MIBK)	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Methylene Chloride	<0.276		0.276		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Methyl tert-butyl ether	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Naphthalene	<0.276		0.276		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
N-Propylbenzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Styrene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-3 (12-14')
Date Collected: 08/10/16 12:00
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-5
Matrix: Soil
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,1,2,2-Tetrachloroethane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Tetrachloroethene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Tetrahydrofuran	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Toluene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,2,3-Trichlorobenzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,2,4-Trichlorobenzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,1,1-Trichloroethane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,1,2-Trichloroethane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Trichloroethene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Trichlorofluoromethane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,2,3-Trichloropropane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,1,2-Trichlorotrifluoroethane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,2,4-Trimethylbenzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
1,3,5-Trimethylbenzene	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Vinyl chloride	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Xylenes, Total	<0.166		0.166		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1
Dibromomethane	<0.110		0.110		mg/Kg	☼	08/12/16 06:50	08/12/16 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 135*	*08/12/16 06:50*	*08/12/16 17:06*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*	*08/12/16 06:50*	*08/12/16 17:06*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*08/12/16 06:50*	*08/12/16 17:06*	*1*

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Acenaphthene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Acenaphthylene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Anthracene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Benzo[a]anthracene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Benzo[a]pyrene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Benzo[b]fluoranthene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Benzo[g,h,i]perylene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Benzo[k]fluoranthene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Chrysene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Dibenz(a,h)anthracene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Fluoranthene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Fluorene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Indeno[1,2,3-cd]pyrene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Naphthalene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Phenanthrene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10
Pyrene	<0.119		0.119		mg/Kg	☼	08/11/16 13:52	08/12/16 12:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*10 - 110*	*08/11/16 13:52*	*08/12/16 12:53*	*10*
Nitrobenzene-d5 (Surr)	*71*		*10 - 110*	*08/11/16 13:52*	*08/12/16 12:53*	*10*
Terphenyl-d14 (Surr)	*73*		*20 - 110*	*08/11/16 13:52*	*08/12/16 12:53*	*10*

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-3 (12-14')
Date Collected: 08/10/16 12:00
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-5
Matrix: Soil
Percent Solids: 83.5

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<11.0		11.0		mg/Kg	☼	08/12/16 15:15	08/13/16 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*	*08/12/16 15:15*	*08/13/16 06:08*	*1*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	**6.00**	*	5.92		mg/Kg	☼	08/11/16 13:32	08/12/16 23:31	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<4.14		4.14		mg/Kg	☼	08/12/16 10:00	08/12/16 21:11	1
Barium	**37.0**		0.517		mg/Kg	☼	08/12/16 10:00	08/12/16 21:11	1
Cadmium	<1.03		1.03		mg/Kg	☼	08/12/16 10:00	08/12/16 21:11	1
Chromium	**13.2**		1.03		mg/Kg	☼	08/12/16 10:00	08/12/16 21:11	1
Lead	**5.62**		5.17		mg/Kg	☼	08/12/16 10:00	08/12/16 21:11	1
Selenium	<7.76		7.76		mg/Kg	☼	08/12/16 10:00	08/12/16 21:11	1
Silver	<1.03		1.03		mg/Kg	☼	08/12/16 10:00	08/12/16 21:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0196		0.0196		mg/Kg	☼	08/11/16 14:41	08/15/16 10:57	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-3
Date Collected: 08/10/16 12:25
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-6
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			08/14/16 22:19	1
Allyl chloride	<2.00		2.00		ug/L			08/14/16 22:19	1
Benzene	<0.500		0.500		ug/L			08/14/16 22:19	1
Bromobenzene	<1.00		1.00		ug/L			08/14/16 22:19	1
Bromochloromethane	<5.00		5.00		ug/L			08/14/16 22:19	1
Bromodichloromethane	<1.00		1.00		ug/L			08/14/16 22:19	1
Bromoform	<5.00		5.00		ug/L			08/14/16 22:19	1
Bromomethane	<4.00		4.00		ug/L			08/14/16 22:19	1
2-Butanone (MEK)	<10.0		10.0		ug/L			08/14/16 22:19	1
n-Butylbenzene	<1.00		1.00		ug/L			08/14/16 22:19	1
sec-Butylbenzene	<1.00		1.00		ug/L			08/14/16 22:19	1
tert-Butylbenzene	<1.00		1.00		ug/L			08/14/16 22:19	1
Carbon tetrachloride	<2.00		2.00		ug/L			08/14/16 22:19	1
Chlorobenzene	<1.00		1.00		ug/L			08/14/16 22:19	1
Chlorodibromomethane	<5.00		5.00		ug/L			08/14/16 22:19	1
Dichlorofluoromethane	<1.00		1.00		ug/L			08/14/16 22:19	1
Chloroethane	<4.00		4.00		ug/L			08/14/16 22:19	1
Chloroform	<1.00		1.00		ug/L			08/14/16 22:19	1
Chloromethane	<3.00		3.00		ug/L			08/14/16 22:19	1
4-Chlorotoluene	<1.00		1.00		ug/L			08/14/16 22:19	1
2-Chlorotoluene	<1.00		1.00		ug/L			08/14/16 22:19	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00		ug/L			08/14/16 22:19	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			08/14/16 22:19	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 22:19	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 22:19	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 22:19	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			08/14/16 22:19	1
1,2-Dichloroethane	<1.00		1.00		ug/L			08/14/16 22:19	1
1,1-Dichloroethane	<1.00		1.00		ug/L			08/14/16 22:19	1
1,1-Dichloroethene	<2.00		2.00		ug/L			08/14/16 22:19	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			08/14/16 22:19	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			08/14/16 22:19	1
1,2-Dichloropropane	<1.00		1.00		ug/L			08/14/16 22:19	1
1,3-Dichloropropane	<1.00		1.00		ug/L			08/14/16 22:19	1
2,2-Dichloropropane	<4.00		4.00		ug/L			08/14/16 22:19	1
1,1-Dichloropropene	<1.00		1.00		ug/L			08/14/16 22:19	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			08/14/16 22:19	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			08/14/16 22:19	1
Diethyl ether	<2.00		2.00		ug/L			08/14/16 22:19	1
Ethylbenzene	<1.00		1.00		ug/L			08/14/16 22:19	1
Hexachlorobutadiene	<5.00		5.00		ug/L			08/14/16 22:19	1
Isopropylbenzene	<1.00		1.00		ug/L			08/14/16 22:19	1
p-Isopropyltoluene	<1.00		1.00		ug/L			08/14/16 22:19	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0		ug/L			08/14/16 22:19	1
Methylene Chloride	<5.00		5.00		ug/L			08/14/16 22:19	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			08/14/16 22:19	1
Naphthalene	<5.00		5.00		ug/L			08/14/16 22:19	1
N-Propylbenzene	<1.00		1.00		ug/L			08/14/16 22:19	1
Styrene	<1.00		1.00		ug/L			08/14/16 22:19	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-3
Date Collected: 08/10/16 12:25
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-6
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			08/14/16 22:19	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			08/14/16 22:19	1
Tetrachloroethene	<1.00		1.00		ug/L			08/14/16 22:19	1
Tetrahydrofuran	<10.0		10.0		ug/L			08/14/16 22:19	1
Toluene	<1.00		1.00		ug/L			08/14/16 22:19	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			08/14/16 22:19	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			08/14/16 22:19	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			08/14/16 22:19	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			08/14/16 22:19	1
Trichloroethene	<1.00		1.00		ug/L			08/14/16 22:19	1
Trichlorofluoromethane	<4.00		4.00		ug/L			08/14/16 22:19	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			08/14/16 22:19	1
1,1,2-Trichlorotrifluoroethane	<2.00		2.00		ug/L			08/14/16 22:19	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			08/14/16 22:19	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			08/14/16 22:19	1
Vinyl chloride	<1.00		1.00		ug/L			08/14/16 22:19	1
Xylenes, Total	<3.00		3.00		ug/L			08/14/16 22:19	1
Dibromomethane	<1.00		1.00		ug/L			08/14/16 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/14/16 22:19*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*08/14/16 22:19*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/14/16 22:19*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<100		100		ug/L			08/12/16 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*		*08/12/16 15:39*	*1*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<0.100	*	0.100		mg/L		08/11/16 14:50	08/12/16 20:50	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-4 (14 1/2-16')
Date Collected: 08/10/16 13:30
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-7
Matrix: Soil
Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.590	^	0.590		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Allyl chloride	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Benzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Bromobenzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Bromochloromethane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Bromodichloromethane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Bromoform	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Bromomethane	<0.590		0.590		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
2-Butanone (MEK)	<0.295		0.295		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
n-Butylbenzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
sec-Butylbenzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
tert-Butylbenzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Carbon tetrachloride	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Chlorobenzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Chlorodibromomethane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Dichlorofluoromethane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Chloroethane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Chloroform	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Chloromethane	<0.295		0.295		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
4-Chlorotoluene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
2-Chlorotoluene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,2-Dibromo-3-Chloropropane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,2-Dibromoethane (EDB)	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,2-Dichlorobenzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,3-Dichlorobenzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,4-Dichlorobenzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Dichlorodifluoromethane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,2-Dichloroethane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,1-Dichloroethane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,1-Dichloroethene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
cis-1,2-Dichloroethene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
trans-1,2-Dichloroethene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,2-Dichloropropane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,3-Dichloropropane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
2,2-Dichloropropane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,1-Dichloropropene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
cis-1,3-Dichloropropene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
trans-1,3-Dichloropropene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Diethyl ether	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Ethylbenzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Hexachlorobutadiene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Isopropylbenzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
p-Isopropyltoluene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
4-Methyl-2-pentanone (MIBK)	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Methylene Chloride	<0.295		0.295		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Methyl tert-butyl ether	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Naphthalene	<0.295		0.295		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
N-Propylbenzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Styrene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-4 (14 1/2-16')
Date Collected: 08/10/16 13:30
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-7
Matrix: Soil
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,1,2,2-Tetrachloroethane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Tetrachloroethene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Tetrahydrofuran	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Toluene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,2,3-Trichlorobenzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,2,4-Trichlorobenzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,1,1-Trichloroethane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,1,2-Trichloroethane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Trichloroethene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Trichlorofluoromethane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,2,3-Trichloropropane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,1,2-Trichlorotrifluoroethane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,2,4-Trimethylbenzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
1,3,5-Trimethylbenzene	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Vinyl chloride	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Xylenes, Total	<0.177		0.177		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1
Dibromomethane	<0.118		0.118		mg/Kg	☼	08/12/16 06:50	08/12/16 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 135*	*08/12/16 06:50*	*08/12/16 17:30*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*	*08/12/16 06:50*	*08/12/16 17:30*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*	*08/12/16 06:50*	*08/12/16 17:30*	*1*

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Acenaphthene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Acenaphthylene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Anthracene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Benzo[a]anthracene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Benzo[a]pyrene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Benzo[b]fluoranthene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Benzo[g,h,i]perylene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Benzo[k]fluoranthene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Chrysene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Dibenz(a,h)anthracene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Fluoranthene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Fluorene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Indeno[1,2,3-cd]pyrene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Naphthalene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Phenanthrene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1
Pyrene	<0.0122		0.0122		mg/Kg	☼	08/11/16 13:52	08/12/16 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*10 - 110*	*08/11/16 13:52*	*08/12/16 13:14*	*1*
Nitrobenzene-d5 (Surr)	*80*		*10 - 110*	*08/11/16 13:52*	*08/12/16 13:14*	*1*
Terphenyl-d14 (Surr)	*84*		*20 - 110*	*08/11/16 13:52*	*08/12/16 13:14*	*1*

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-4 (14 1/2-16')
Date Collected: 08/10/16 13:30
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-7
Matrix: Soil
Percent Solids: 80.9

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<11.8		11.8		mg/Kg	☼	08/12/16 15:15	08/13/16 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*	*08/12/16 15:15*	*08/13/16 06:37*	*1*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<6.71	*	6.71		mg/Kg	☼	08/11/16 13:32	08/12/16 17:15	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<3.16		3.16		mg/Kg	☼	08/12/16 10:00	08/12/16 21:15	1
Barium	**19.2**		0.396		mg/Kg	☼	08/12/16 10:00	08/12/16 21:15	1
Cadmium	<0.791		0.791		mg/Kg	☼	08/12/16 10:00	08/12/16 21:15	1
Chromium	**9.76**		0.791		mg/Kg	☼	08/12/16 10:00	08/12/16 21:15	1
Lead	<3.96		3.96		mg/Kg	☼	08/12/16 10:00	08/12/16 21:15	1
Selenium	<5.93		5.93		mg/Kg	☼	08/12/16 10:00	08/12/16 21:15	1
Silver	<0.791		0.791		mg/Kg	☼	08/12/16 10:00	08/12/16 21:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0237		0.0237		mg/Kg	☼	08/11/16 14:41	08/15/16 10:58	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-4
Date Collected: 08/10/16 14:00
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-8
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			08/14/16 22:40	1
Allyl chloride	<2.00		2.00		ug/L			08/14/16 22:40	1
Benzene	<0.500		0.500		ug/L			08/14/16 22:40	1
Bromobenzene	<1.00		1.00		ug/L			08/14/16 22:40	1
Bromochloromethane	<5.00		5.00		ug/L			08/14/16 22:40	1
Bromodichloromethane	<1.00		1.00		ug/L			08/14/16 22:40	1
Bromoform	<5.00		5.00		ug/L			08/14/16 22:40	1
Bromomethane	<4.00		4.00		ug/L			08/14/16 22:40	1
2-Butanone (MEK)	<10.0		10.0		ug/L			08/14/16 22:40	1
n-Butylbenzene	<1.00		1.00		ug/L			08/14/16 22:40	1
sec-Butylbenzene	<1.00		1.00		ug/L			08/14/16 22:40	1
tert-Butylbenzene	<1.00		1.00		ug/L			08/14/16 22:40	1
Carbon tetrachloride	<2.00		2.00		ug/L			08/14/16 22:40	1
Chlorobenzene	<1.00		1.00		ug/L			08/14/16 22:40	1
Chlorodibromomethane	<5.00		5.00		ug/L			08/14/16 22:40	1
Dichlorofluoromethane	<1.00		1.00		ug/L			08/14/16 22:40	1
Chloroethane	<4.00		4.00		ug/L			08/14/16 22:40	1
Chloroform	<1.00		1.00		ug/L			08/14/16 22:40	1
Chloromethane	<3.00		3.00		ug/L			08/14/16 22:40	1
4-Chlorotoluene	<1.00		1.00		ug/L			08/14/16 22:40	1
2-Chlorotoluene	<1.00		1.00		ug/L			08/14/16 22:40	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00		ug/L			08/14/16 22:40	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			08/14/16 22:40	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 22:40	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 22:40	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 22:40	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			08/14/16 22:40	1
1,2-Dichloroethane	<1.00		1.00		ug/L			08/14/16 22:40	1
1,1-Dichloroethane	<1.00		1.00		ug/L			08/14/16 22:40	1
1,1-Dichloroethene	<2.00		2.00		ug/L			08/14/16 22:40	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			08/14/16 22:40	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			08/14/16 22:40	1
1,2-Dichloropropane	<1.00		1.00		ug/L			08/14/16 22:40	1
1,3-Dichloropropane	<1.00		1.00		ug/L			08/14/16 22:40	1
2,2-Dichloropropane	<4.00		4.00		ug/L			08/14/16 22:40	1
1,1-Dichloropropene	<1.00		1.00		ug/L			08/14/16 22:40	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			08/14/16 22:40	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			08/14/16 22:40	1
Diethyl ether	<2.00		2.00		ug/L			08/14/16 22:40	1
Ethylbenzene	<1.00		1.00		ug/L			08/14/16 22:40	1
Hexachlorobutadiene	<5.00		5.00		ug/L			08/14/16 22:40	1
Isopropylbenzene	<1.00		1.00		ug/L			08/14/16 22:40	1
p-Isopropyltoluene	<1.00		1.00		ug/L			08/14/16 22:40	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0		ug/L			08/14/16 22:40	1
Methylene Chloride	<5.00		5.00		ug/L			08/14/16 22:40	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			08/14/16 22:40	1
Naphthalene	<5.00		5.00		ug/L			08/14/16 22:40	1
N-Propylbenzene	<1.00		1.00		ug/L			08/14/16 22:40	1
Styrene	<1.00		1.00		ug/L			08/14/16 22:40	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-4
Date Collected: 08/10/16 14:00
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-8
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			08/14/16 22:40	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			08/14/16 22:40	1
Tetrachloroethene	<1.00		1.00		ug/L			08/14/16 22:40	1
Tetrahydrofuran	<10.0		10.0		ug/L			08/14/16 22:40	1
Toluene	<1.00		1.00		ug/L			08/14/16 22:40	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			08/14/16 22:40	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			08/14/16 22:40	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			08/14/16 22:40	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			08/14/16 22:40	1
Trichloroethene	<1.00		1.00		ug/L			08/14/16 22:40	1
Trichlorofluoromethane	<4.00		4.00		ug/L			08/14/16 22:40	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			08/14/16 22:40	1
1,1,2-Trichlorotrifluoroethane	<2.00		2.00		ug/L			08/14/16 22:40	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			08/14/16 22:40	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			08/14/16 22:40	1
Vinyl chloride	<1.00		1.00		ug/L			08/14/16 22:40	1
Xylenes, Total	<3.00		3.00		ug/L			08/14/16 22:40	1
Dibromomethane	<1.00		1.00		ug/L			08/14/16 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/14/16 22:40*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*08/14/16 22:40*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/14/16 22:40*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<100		100		ug/L			08/12/16 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*80 - 120*		*08/12/16 16:08*	*1*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<0.102	*	0.102		mg/L		08/11/16 14:50	08/12/16 21:28	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: MeOH Trip
Date Collected: 08/10/16 00:00
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.500	^	0.500		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Allyl chloride	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Benzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Bromobenzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Bromochloromethane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Bromodichloromethane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Bromoform	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Bromomethane	<0.500		0.500		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
2-Butanone (MEK)	<0.250		0.250		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
n-Butylbenzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
sec-Butylbenzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
tert-Butylbenzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Carbon tetrachloride	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Chlorobenzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Chlorodibromomethane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Dichlorofluoromethane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Chloroethane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Chloroform	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Chloromethane	<0.250		0.250		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
4-Chlorotoluene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
2-Chlorotoluene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,2-Dibromo-3-Chloropropane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,2-Dibromoethane (EDB)	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,2-Dichlorobenzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,3-Dichlorobenzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,4-Dichlorobenzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Dichlorodifluoromethane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,2-Dichloroethane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,1-Dichloroethane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,1-Dichloroethene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
cis-1,2-Dichloroethene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
trans-1,2-Dichloroethene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,2-Dichloropropane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,3-Dichloropropane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
2,2-Dichloropropane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,1-Dichloropropene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
cis-1,3-Dichloropropene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
trans-1,3-Dichloropropene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Diethyl ether	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Ethylbenzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Hexachlorobutadiene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Isopropylbenzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
p-Isopropyltoluene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
4-Methyl-2-pentanone (MIBK)	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Methylene Chloride	<0.250		0.250		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Methyl tert-butyl ether	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Naphthalene	<0.250		0.250		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
N-Propylbenzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Styrene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: MeOH Trip
Date Collected: 08/10/16 00:00
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,1,2,2-Tetrachloroethane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Tetrachloroethene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Tetrahydrofuran	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Toluene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,2,3-Trichlorobenzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,2,4-Trichlorobenzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,1,1-Trichloroethane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,1,2-Trichloroethane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Trichloroethene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Trichlorofluoromethane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,2,3-Trichloropropane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,1,2-Trichlorotrifluoroethane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,2,4-Trimethylbenzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
1,3,5-Trimethylbenzene	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Vinyl chloride	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Xylenes, Total	<0.150		0.150		mg/Kg		08/12/16 06:50	08/12/16 17:54	1
Dibromomethane	<0.100		0.100		mg/Kg		08/12/16 06:50	08/12/16 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 135*	*08/12/16 06:50*	*08/12/16 17:54*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*	*08/12/16 06:50*	*08/12/16 17:54*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*	*08/12/16 06:50*	*08/12/16 17:54*	*1*

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GW Trip
Date Collected: 08/10/16 00:00
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-10
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			08/14/16 23:01	1
Allyl chloride	<2.00		2.00		ug/L			08/14/16 23:01	1
Benzene	<0.500		0.500		ug/L			08/14/16 23:01	1
Bromobenzene	<1.00		1.00		ug/L			08/14/16 23:01	1
Bromochloromethane	<5.00		5.00		ug/L			08/14/16 23:01	1
Bromodichloromethane	<1.00		1.00		ug/L			08/14/16 23:01	1
Bromoform	<5.00		5.00		ug/L			08/14/16 23:01	1
Bromomethane	<4.00		4.00		ug/L			08/14/16 23:01	1
2-Butanone (MEK)	<10.0		10.0		ug/L			08/14/16 23:01	1
n-Butylbenzene	<1.00		1.00		ug/L			08/14/16 23:01	1
sec-Butylbenzene	<1.00		1.00		ug/L			08/14/16 23:01	1
tert-Butylbenzene	<1.00		1.00		ug/L			08/14/16 23:01	1
Carbon tetrachloride	<2.00		2.00		ug/L			08/14/16 23:01	1
Chlorobenzene	<1.00		1.00		ug/L			08/14/16 23:01	1
Chlorodibromomethane	<5.00		5.00		ug/L			08/14/16 23:01	1
Dichlorofluoromethane	<1.00		1.00		ug/L			08/14/16 23:01	1
Chloroethane	<4.00		4.00		ug/L			08/14/16 23:01	1
Chloroform	<1.00		1.00		ug/L			08/14/16 23:01	1
Chloromethane	<3.00		3.00		ug/L			08/14/16 23:01	1
4-Chlorotoluene	<1.00		1.00		ug/L			08/14/16 23:01	1
2-Chlorotoluene	<1.00		1.00		ug/L			08/14/16 23:01	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00		ug/L			08/14/16 23:01	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			08/14/16 23:01	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 23:01	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 23:01	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 23:01	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			08/14/16 23:01	1
1,2-Dichloroethane	<1.00		1.00		ug/L			08/14/16 23:01	1
1,1-Dichloroethane	<1.00		1.00		ug/L			08/14/16 23:01	1
1,1-Dichloroethene	<2.00		2.00		ug/L			08/14/16 23:01	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			08/14/16 23:01	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			08/14/16 23:01	1
1,2-Dichloropropane	<1.00		1.00		ug/L			08/14/16 23:01	1
1,3-Dichloropropane	<1.00		1.00		ug/L			08/14/16 23:01	1
2,2-Dichloropropane	<4.00		4.00		ug/L			08/14/16 23:01	1
1,1-Dichloropropene	<1.00		1.00		ug/L			08/14/16 23:01	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			08/14/16 23:01	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			08/14/16 23:01	1
Diethyl ether	<2.00		2.00		ug/L			08/14/16 23:01	1
Ethylbenzene	<1.00		1.00		ug/L			08/14/16 23:01	1
Hexachlorobutadiene	<5.00		5.00		ug/L			08/14/16 23:01	1
Isopropylbenzene	<1.00		1.00		ug/L			08/14/16 23:01	1
p-Isopropyltoluene	<1.00		1.00		ug/L			08/14/16 23:01	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0		ug/L			08/14/16 23:01	1
Methylene Chloride	<5.00		5.00		ug/L			08/14/16 23:01	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			08/14/16 23:01	1
Naphthalene	<5.00		5.00		ug/L			08/14/16 23:01	1
N-Propylbenzene	<1.00		1.00		ug/L			08/14/16 23:01	1
Styrene	<1.00		1.00		ug/L			08/14/16 23:01	1

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GW Trip
Date Collected: 08/10/16 00:00
Date Received: 08/11/16 09:40

Lab Sample ID: 310-86901-10
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			08/14/16 23:01	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			08/14/16 23:01	1
Tetrachloroethene	<1.00		1.00		ug/L			08/14/16 23:01	1
Tetrahydrofuran	<10.0		10.0		ug/L			08/14/16 23:01	1
Toluene	<1.00		1.00		ug/L			08/14/16 23:01	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			08/14/16 23:01	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			08/14/16 23:01	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			08/14/16 23:01	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			08/14/16 23:01	1
Trichloroethene	<1.00		1.00		ug/L			08/14/16 23:01	1
Trichlorofluoromethane	<4.00		4.00		ug/L			08/14/16 23:01	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			08/14/16 23:01	1
1,1,2-Trichlorotrifluoroethane	<2.00		2.00		ug/L			08/14/16 23:01	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			08/14/16 23:01	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			08/14/16 23:01	1
Vinyl chloride	<1.00		1.00		ug/L			08/14/16 23:01	1
Xylenes, Total	<3.00		3.00		ug/L			08/14/16 23:01	1
Dibromomethane	<1.00		1.00		ug/L			08/14/16 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/14/16 23:01*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*08/14/16 23:01*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/14/16 23:01*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Glossary

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

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)
310-86901-2	GP-1	98	100	96
310-86901-4	GP-2	102	102	98
310-86901-6	GP-3	101	100	97
310-86901-8	GP-4	102	100	97
310-86901-10	GW Trip	100	99	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Soil — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-135)	(80-120)	(80-120)
310-86901-1	GP-1 (15-16')	100	95	93
310-86901-3	GP-2 (12-13')	100	97	91
310-86901-5	GP-3 (12-14')	101	96	96
310-86901-7	GP-4 (14 1/2-16')	100	97	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-135)	(80-120)	(80-120)
310-86887-F-2-B MS	Matrix Spike	107	101	93
310-86887-F-2-C MSD	Matrix Spike Duplicate	107	103	95
310-86901-9	MeOH Trip	97	97	93
LCS 310-137391/2-A	Lab Control Sample	99	102	94
MB 310-137391/1-A	Method Blank	99	96	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)
310-86899-B-1 MS	Matrix Spike	98	99	98
310-86899-B-1 MSD	Matrix Spike Duplicate	99	102	97
310-86913-B-1 MS	Matrix Spike	98	102	97
310-86913-B-1 MSD	Matrix Spike Duplicate	95	103	97
LCS 310-137589/6	Lab Control Sample	100	104	99
LCS 310-137589/7	Lab Control Sample	98	98	97
LCS 310-137592/6	Lab Control Sample	99	99	99
LCS 310-137592/7	Lab Control Sample	103	98	97
MB 310-137589/8	Method Blank	107	100	97
MB 310-137592/8	Method Blank	101	101	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Matrix: Soil — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(10-110)	(10-110)	(20-110)
310-86901-1	GP-1 (15-16')	67	74	73
310-86901-1 MS	GP-1 (15-16')	52	54	62
310-86901-1 MSD	GP-1 (15-16')	42	44	51
310-86901-3	GP-2 (12-13')	68	77	73
310-86901-5	GP-3 (12-14')	70	71	73
310-86901-7	GP-4 (14 1/2-16')	74	80	84

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(10-110)	(10-110)	(20-110)
LCS 310-137340/2-A	Lab Control Sample	72	76	82
MB 310-137340/1-A	Method Blank	63	68	72

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Surrogate Summary

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Matrix: Ground Water — **Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (80-120)
310-86901-2	GP-1	136 X
310-86901-4	GP-2	81
310-86901-6	GP-3	86
310-86901-8	GP-4	81

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Matrix: Soil — **Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (80-120)
310-86901-1	GP-1 (15-16')	90
310-86901-3	GP-2 (12-13')	91
310-86901-5	GP-3 (12-14')	93
310-86901-7	GP-4 (14 1/2-16')	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Matrix: Solid — **Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (80-120)
LCS 310-137502/2-A	Lab Control Sample	92
LCSD 310-137502/25-A	Lab Control Sample Dup	95
MB 310-137502/1-A	Method Blank	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Matrix: Water — **Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (80-120)
LCS 310-137425/8	Lab Control Sample	95
LCSD 310-137425/30	Lab Control Sample Dup	96
MB 310-137425/4	Method Blank	82

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-137391/1-A
Matrix: Solid
Analysis Batch: 137393

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.456	^	0.456		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Allyl chloride	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Benzene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Bromobenzene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Bromochloromethane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Bromodichloromethane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Bromoform	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Bromomethane	<0.456		0.456		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
2-Butanone (MEK)	<0.228		0.228		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
n-Butylbenzene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
sec-Butylbenzene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
tert-Butylbenzene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Carbon tetrachloride	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Chlorobenzene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Chlorodibromomethane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Dichlorofluoromethane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Chloroethane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Chloroform	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Chloromethane	<0.228		0.228		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
4-Chlorotoluene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
2-Chlorotoluene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,2-Dibromo-3-Chloropropane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,2-Dibromoethane (EDB)	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,2-Dichlorobenzene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,3-Dichlorobenzene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,4-Dichlorobenzene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Dichlorodifluoromethane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,2-Dichloroethane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,1-Dichloroethane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,1-Dichloroethene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
cis-1,2-Dichloroethene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
trans-1,2-Dichloroethene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,2-Dichloropropane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,3-Dichloropropane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
2,2-Dichloropropane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,1-Dichloropropene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
cis-1,3-Dichloropropene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
trans-1,3-Dichloropropene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Diethyl ether	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Ethylbenzene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Hexachlorobutadiene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Isopropylbenzene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
p-Isopropyltoluene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
4-Methyl-2-pentanone (MIBK)	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Methylene Chloride	<0.228		0.228		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Methyl tert-butyl ether	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Naphthalene	<0.228		0.228		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
N-Propylbenzene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1

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

Lab Sample ID: MB 310-137391/1-A
Matrix: Solid
Analysis Batch: 137393

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,1,1,2-Tetrachloroethane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,1,2,2-Tetrachloroethane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Tetrachloroethene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Tetrahydrofuran	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Toluene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,2,3-Trichlorobenzene	0.09307		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,2,4-Trichlorobenzene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,1,1-Trichloroethane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,1,2-Trichloroethane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Trichloroethene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Trichlorofluoromethane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,2,3-Trichloropropane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,1,2-Trichlorotrifluoroethane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,2,4-Trimethylbenzene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
1,3,5-Trimethylbenzene	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Vinyl chloride	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Xylenes, Total	<0.137		0.137		mg/Kg		08/12/16 06:50	08/12/16 09:26	1
Dibromomethane	<0.0911		0.0911		mg/Kg		08/12/16 06:50	08/12/16 09:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 135*	*08/12/16 06:50*	*08/12/16 09:26*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*	*08/12/16 06:50*	*08/12/16 09:26*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*	*08/12/16 06:50*	*08/12/16 09:26*	*1*

Lab Sample ID: LCS 310-137391/2-A
Matrix: Solid
Analysis Batch: 137393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	1.98	2.821	^	mg/Kg		143	70 - 150
Allyl chloride	0.990	1.081		mg/Kg		109	65 - 150
Benzene	0.990	1.192		mg/Kg		120	65 - 145
Bromobenzene	0.990	1.049		mg/Kg		106	65 - 135
Bromochloromethane	0.990	1.251		mg/Kg		126	65 - 150
Bromodichloromethane	0.990	1.150		mg/Kg		116	55 - 150
Bromoform	0.990	0.9983		mg/Kg		101	55 - 135
2-Butanone (MEK)	1.98	2.432		mg/Kg		123	55 - 150
n-Butylbenzene	0.990	1.071		mg/Kg		108	65 - 135
sec-Butylbenzene	0.990	1.139		mg/Kg		115	65 - 130
tert-Butylbenzene	0.990	1.145		mg/Kg		116	65 - 135
Carbon tetrachloride	0.990	1.226		mg/Kg		124	60 - 145
Chlorobenzene	0.990	1.096		mg/Kg		111	70 - 135
Chlorodibromomethane	0.990	1.015		mg/Kg		103	55 - 135
Chloroform	0.990	1.228		mg/Kg		124	65 - 145
4-Chlorotoluene	0.990	1.058		mg/Kg		107	70 - 130
2-Chlorotoluene	0.990	1.085		mg/Kg		110	70 - 130
1,2-Dibromo-3-Chloropropane	0.990	0.8099		mg/Kg		82	45 - 140

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

Lab Sample ID: LCS 310-137391/2-A
Matrix: Solid
Analysis Batch: 137393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	0.990	1.050		mg/Kg		106	65 - 140
1,2-Dichlorobenzene	0.990	0.9607		mg/Kg		97	65 - 135
1,3-Dichlorobenzene	0.990	1.025		mg/Kg		104	65 - 135
1,4-Dichlorobenzene	0.990	0.9791		mg/Kg		99	65 - 135
1,2-Dichloroethane	0.990	1.222		mg/Kg		123	60 - 150
1,1-Dichloroethane	0.990	1.188		mg/Kg		120	65 - 150
1,1-Dichloroethene	0.990	1.103		mg/Kg		111	65 - 145
cis-1,2-Dichloroethene	0.990	1.246		mg/Kg		126	65 - 145
trans-1,2-Dichloroethene	0.990	1.103		mg/Kg		111	65 - 145
1,2-Dichloropropane	0.990	1.220		mg/Kg		123	65 - 150
1,3-Dichloropropane	0.990	1.069		mg/Kg		108	65 - 140
2,2-Dichloropropane	0.990	1.280		mg/Kg		129	65 - 150
1,1-Dichloropropene	0.990	1.151		mg/Kg		116	70 - 140
cis-1,3-Dichloropropene	0.990	1.076		mg/Kg		109	65 - 140
trans-1,3-Dichloropropene	0.990	1.037		mg/Kg		105	65 - 140
Diethyl ether	0.990	1.129		mg/Kg		114	60 - 150
Ethylbenzene	0.990	1.149		mg/Kg		116	70 - 135
Hexachlorobutadiene	0.990	1.148		mg/Kg		116	50 - 145
Isopropylbenzene	0.990	1.168		mg/Kg		118	70 - 135
p-Isopropyltoluene	0.990	1.130		mg/Kg		114	65 - 135
4-Methyl-2-pentanone (MIBK)	1.98	2.058		mg/Kg		104	50 - 145
Methylene Chloride	0.990	0.8161		mg/Kg		82	55 - 150
Methyl tert-butyl ether	0.990	1.169		mg/Kg		118	65 - 150
Naphthalene	0.990	0.8589		mg/Kg		87	50 - 145
N-Propylbenzene	0.990	1.141		mg/Kg		115	70 - 135
Styrene	0.990	1.072		mg/Kg		108	70 - 135
1,1,1,2-Tetrachloroethane	0.990	1.065		mg/Kg		108	65 - 130
1,1,2,2-Tetrachloroethane	0.990	0.9025		mg/Kg		91	60 - 140
Tetrachloroethene	0.990	1.222		mg/Kg		123	65 - 140
Tetrahydrofuran	1.98	2.057		mg/Kg		104	55 - 150
Toluene	0.990	1.109		mg/Kg		112	70 - 135
1,2,3-Trichlorobenzene	0.990	0.8914		mg/Kg		90	55 - 140
1,2,4-Trichlorobenzene	0.990	0.9178		mg/Kg		93	50 - 140
1,1,1-Trichloroethane	0.990	1.226		mg/Kg		124	65 - 145
1,1,2-Trichloroethane	0.990	1.001		mg/Kg		101	65 - 140
Trichloroethene	0.990	1.200		mg/Kg		121	65 - 145
1,2,3-Trichloropropane	0.990	0.9399		mg/Kg		95	60 - 140
1,1,2-Trichlorotrifluoroethane	0.990	1.140		mg/Kg		115	60 - 150
1,2,4-Trimethylbenzene	0.990	1.086		mg/Kg		110	65 - 130
1,3,5-Trimethylbenzene	0.990	1.124		mg/Kg		114	70 - 130
Dibromomethane	0.990	1.165		mg/Kg		118	65 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 135*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*

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

Lab Sample ID: 310-86887-F-2-B MS
Matrix: Solid
Analysis Batch: 137393

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 137391

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	<0.835	^	2.14	2.591	^	mg/Kg	☼	121	70 - 150
Allyl chloride	<0.167		1.07	1.003		mg/Kg	☼	94	65 - 150
Benzene	<0.167		1.07	1.073		mg/Kg	☼	100	65 - 145
Bromobenzene	<0.167		1.07	0.9722		mg/Kg	☼	91	65 - 135
Bromochloromethane	<0.167		1.07	1.096		mg/Kg	☼	103	65 - 150
Bromodichloromethane	<0.167		1.07	0.9905		mg/Kg	☼	93	55 - 105
Bromoform	<0.167		1.07	0.9161		mg/Kg	☼	86	55 - 135
2-Butanone (MEK)	<0.417		2.14	2.184		mg/Kg	☼	102	55 - 150
n-Butylbenzene	<0.167		1.07	0.8764		mg/Kg	☼	82	65 - 135
sec-Butylbenzene	<0.167		1.07	0.9076		mg/Kg	☼	85	65 - 130
tert-Butylbenzene	<0.167		1.07	0.9214		mg/Kg	☼	86	65 - 135
Carbon tetrachloride	<0.167		1.07	1.067		mg/Kg	☼	100	60 - 145
Chlorobenzene	0.371	F1	1.07	0.9861	F1	mg/Kg	☼	58	70 - 135
Chlorodibromomethane	<0.167		1.07	0.8878		mg/Kg	☼	83	55 - 135
Chloroform	<0.167		1.07	1.140		mg/Kg	☼	103	65 - 145
4-Chlorotoluene	<0.167		1.07	0.8984		mg/Kg	☼	84	70 - 130
2-Chlorotoluene	<0.167		1.07	0.9098		mg/Kg	☼	85	70 - 130
1,2-Dibromo-3-Chloropropane	<0.167		1.07	0.7148		mg/Kg	☼	67	45 - 140
1,2-Dibromoethane (EDB)	<0.167		1.07	0.9311		mg/Kg	☼	87	65 - 140
1,2-Dichlorobenzene	<0.167		1.07	0.8327		mg/Kg	☼	78	65 - 135
1,3-Dichlorobenzene	<0.167		1.07	0.9112		mg/Kg	☼	78	65 - 135
1,4-Dichlorobenzene	<0.167		1.07	0.8645		mg/Kg	☼	81	65 - 135
1,2-Dichloroethane	<0.167		1.07	1.087		mg/Kg	☼	102	60 - 150
1,1-Dichloroethane	<0.167		1.07	1.051		mg/Kg	☼	98	65 - 150
1,1-Dichloroethene	<0.167		1.07	0.9865		mg/Kg	☼	92	65 - 145
cis-1,2-Dichloroethene	<0.167		1.07	1.100		mg/Kg	☼	103	65 - 145
trans-1,2-Dichloroethene	<0.167		1.07	1.016		mg/Kg	☼	95	65 - 145
1,2-Dichloropropane	<0.167		1.07	1.117		mg/Kg	☼	105	65 - 150
1,3-Dichloropropane	<0.167		1.07	0.9407		mg/Kg	☼	88	65 - 140
2,2-Dichloropropane	<0.167		1.07	0.9919		mg/Kg	☼	93	65 - 150
1,1-Dichloropropene	<0.167		1.07	1.009		mg/Kg	☼	94	70 - 140
cis-1,3-Dichloropropene	<0.167		1.07	0.9313		mg/Kg	☼	87	65 - 140
trans-1,3-Dichloropropene	<0.167		1.07	0.8832		mg/Kg	☼	83	65 - 140
Diethyl ether	<0.167		1.07	1.055		mg/Kg	☼	99	60 - 150
Ethylbenzene	<0.167		1.07	0.9837		mg/Kg	☼	92	70 - 135
Hexachlorobutadiene	<0.167		1.07	0.8912		mg/Kg	☼	83	50 - 145
Isopropylbenzene	<0.167		1.07	0.9963		mg/Kg	☼	93	70 - 135
p-Isopropyltoluene	<0.167		1.07	0.9323		mg/Kg	☼	87	65 - 135
4-Methyl-2-pentanone (MIBK)	<0.167		2.14	2.009		mg/Kg	☼	94	50 - 145
Methylene Chloride	<0.417		1.07	0.6964		mg/Kg	☼	65	55 - 150
Methyl tert-butyl ether	<0.167		1.07	1.070		mg/Kg	☼	100	65 - 150
Naphthalene	<0.417		1.07	0.7004		mg/Kg	☼	53	50 - 145
N-Propylbenzene	<0.167		1.07	0.9759		mg/Kg	☼	91	70 - 135
Styrene	<0.167		1.07	0.9572		mg/Kg	☼	90	70 - 135
1,1,1,2-Tetrachloroethane	<0.167		1.07	0.9392		mg/Kg	☼	88	65 - 130
1,1,2,2-Tetrachloroethane	<0.167		1.07	0.8613		mg/Kg	☼	81	60 - 140
Tetrachloroethene	<0.167		1.07	1.040		mg/Kg	☼	97	65 - 140
Tetrahydrofuran	<0.167		2.14	1.883		mg/Kg	☼	88	55 - 150

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

Lab Sample ID: 310-86887-F-2-B MS
Matrix: Solid
Analysis Batch: 137393

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 137391

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.167		1.07	0.9784		mg/Kg	☼	92	70 - 135
1,2,3-Trichlorobenzene	0.312	F1 B	1.07	0.7238	F1	mg/Kg	☼	39	55 - 140
1,2,4-Trichlorobenzene	0.876	F1	1.07	0.7380	F1	mg/Kg	☼	-13	50 - 140
1,1,1-Trichloroethane	<0.167		1.07	1.062		mg/Kg	☼	99	65 - 145
1,1,2-Trichloroethane	<0.167		1.07	0.9222		mg/Kg	☼	86	65 - 140
Trichloroethene	<0.167		1.07	1.081		mg/Kg	☼	101	65 - 145
1,2,3-Trichloropropane	<0.167		1.07	0.9354		mg/Kg	☼	88	60 - 140
1,1,2-Trichlorotrifluoroethane	<0.167		1.07	1.012		mg/Kg	☼	95	60 - 150
1,2,4-Trimethylbenzene	0.190		1.07	0.9034		mg/Kg	☼	67	65 - 130
1,3,5-Trimethylbenzene	<0.167		1.07	0.9007		mg/Kg	☼	80	70 - 130
Dibromomethane	<0.167		1.07	1.056		mg/Kg	☼	99	65 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 135*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: 310-86887-F-2-C MSD
Matrix: Solid
Analysis Batch: 137393

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 137391

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	<0.835	^	2.15	2.743	^	mg/Kg	☼	128	70 - 150	6	40
Allyl chloride	<0.167		1.07	1.000		mg/Kg	☼	93	65 - 150	0	35
Benzene	<0.167		1.07	1.073		mg/Kg	☼	100	65 - 145	0	15
Bromobenzene	<0.167		1.07	1.010		mg/Kg	☼	94	65 - 135	4	20
Bromochloromethane	<0.167		1.07	1.111		mg/Kg	☼	103	65 - 150	1	20
Bromodichloromethane	<0.167		1.07	1.007		mg/Kg	☼	94	55 - 105	2	20
Bromoform	<0.167		1.07	1.002		mg/Kg	☼	93	55 - 135	9	25
2-Butanone (MEK)	<0.417		2.15	2.393		mg/Kg	☼	111	55 - 150	9	30
n-Butylbenzene	<0.167		1.07	0.8604		mg/Kg	☼	80	65 - 135	2	20
sec-Butylbenzene	<0.167		1.07	0.8927		mg/Kg	☼	83	65 - 130	2	20
tert-Butylbenzene	<0.167		1.07	0.9091		mg/Kg	☼	85	65 - 135	1	20
Carbon tetrachloride	<0.167		1.07	1.043		mg/Kg	☼	97	60 - 145	2	30
Chlorobenzene	0.371	F1	1.07	0.9678	F1	mg/Kg	☼	56	70 - 135	2	15
Chlorodibromomethane	<0.167		1.07	0.9134		mg/Kg	☼	85	55 - 135	3	20
Chloroform	<0.167		1.07	1.133		mg/Kg	☼	102	65 - 145	1	20
4-Chlorotoluene	<0.167		1.07	0.8786		mg/Kg	☼	82	70 - 130	2	20
2-Chlorotoluene	<0.167		1.07	0.8977		mg/Kg	☼	84	70 - 130	1	15
1,2-Dibromo-3-Chloropropane	<0.167		1.07	0.7396		mg/Kg	☼	69	45 - 140	3	40
1,2-Dibromoethane (EDB)	<0.167		1.07	0.9990		mg/Kg	☼	93	65 - 140	7	20
1,2-Dichlorobenzene	<0.167		1.07	0.8652		mg/Kg	☼	81	65 - 135	4	20
1,3-Dichlorobenzene	<0.167		1.07	0.9050		mg/Kg	☼	77	65 - 135	1	20
1,4-Dichlorobenzene	<0.167		1.07	0.8562		mg/Kg	☼	80	65 - 135	1	20
1,2-Dichloroethane	<0.167		1.07	1.138		mg/Kg	☼	106	60 - 150	5	20
1,1-Dichloroethane	<0.167		1.07	1.069		mg/Kg	☼	100	65 - 150	2	20
1,1-Dichloroethene	<0.167		1.07	0.9698		mg/Kg	☼	90	65 - 145	2	20
cis-1,2-Dichloroethene	<0.167		1.07	1.119		mg/Kg	☼	104	65 - 145	2	20

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

Lab Sample ID: 310-86887-F-2-C MSD
Matrix: Solid
Analysis Batch: 137393

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 137391

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	<0.167		1.07	1.005		mg/Kg	☼	94	65 - 145	1	20
1,2-Dichloropropane	<0.167		1.07	1.101		mg/Kg	☼	103	65 - 150	1	15
1,3-Dichloropropane	<0.167		1.07	1.002		mg/Kg	☼	93	65 - 140	6	20
2,2-Dichloropropane	<0.167		1.07	0.9774		mg/Kg	☼	91	65 - 150	1	20
1,1-Dichloropropene	<0.167		1.07	0.9882		mg/Kg	☼	92	70 - 140	2	20
cis-1,3-Dichloropropene	<0.167		1.07	0.9499		mg/Kg	☼	89	65 - 140	2	20
trans-1,3-Dichloropropene	<0.167		1.07	0.9235		mg/Kg	☼	86	65 - 140	4	20
Diethyl ether	<0.167		1.07	1.077		mg/Kg	☼	100	60 - 150	2	25
Ethylbenzene	<0.167		1.07	0.9809		mg/Kg	☼	91	70 - 135	0	20
Hexachlorobutadiene	<0.167		1.07	0.8959		mg/Kg	☼	83	50 - 145	1	25
Isopropylbenzene	<0.167		1.07	0.9889		mg/Kg	☼	92	70 - 135	1	20
p-Isopropyltoluene	<0.167		1.07	0.9134		mg/Kg	☼	85	65 - 135	2	20
4-Methyl-2-pentanone (MIBK)	<0.167		2.15	2.186		mg/Kg	☼	102	50 - 145	8	40
Methylene Chloride	<0.417		1.07	0.7520		mg/Kg	☼	70	55 - 150	8	25
Methyl tert-butyl ether	<0.167		1.07	1.099		mg/Kg	☼	102	65 - 150	3	20
Naphthalene	<0.417		1.07	0.7914		mg/Kg	☼	61	50 - 145	12	30
N-Propylbenzene	<0.167		1.07	0.9575		mg/Kg	☼	89	70 - 135	2	20
Styrene	<0.167		1.07	0.9554		mg/Kg	☼	89	70 - 135	0	20
1,1,1,2-Tetrachloroethane	<0.167		1.07	0.9607		mg/Kg	☼	90	65 - 130	2	20
1,1,2,2-Tetrachloroethane	<0.167		1.07	0.9309		mg/Kg	☼	87	60 - 140	8	25
Tetrachloroethene	<0.167		1.07	1.033		mg/Kg	☼	96	65 - 140	1	25
Tetrahydrofuran	<0.167		2.15	2.014		mg/Kg	☼	94	55 - 150	7	30
Toluene	<0.167		1.07	0.9752		mg/Kg	☼	91	70 - 135	0	20
1,2,3-Trichlorobenzene	0.312	F1 B	1.07	0.7929	F1	mg/Kg	☼	45	55 - 140	9	25
1,2,4-Trichlorobenzene	0.876	F1	1.07	0.7864	F1	mg/Kg	☼	-8	50 - 140	6	25
1,1,1-Trichloroethane	<0.167		1.07	1.076		mg/Kg	☼	100	65 - 145	1	20
1,1,2-Trichloroethane	<0.167		1.07	0.9670		mg/Kg	☼	90	65 - 140	5	20
Trichloroethene	<0.167		1.07	1.070		mg/Kg	☼	100	65 - 145	1	20
1,2,3-Trichloropropane	<0.167		1.07	0.9900		mg/Kg	☼	92	60 - 140	6	30
1,1,2-Trichlorotrifluoroethane	<0.167		1.07	0.9771		mg/Kg	☼	91	60 - 150	3	40
1,2,4-Trimethylbenzene	0.190		1.07	0.8912		mg/Kg	☼	65	65 - 130	1	20
1,3,5-Trimethylbenzene	<0.167		1.07	0.8874		mg/Kg	☼	78	70 - 130	1	20
Dibromomethane	<0.167		1.07	1.086		mg/Kg	☼	101	65 - 150	3	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 135*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: MB 310-137589/8
Matrix: Water
Analysis Batch: 137589

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			08/14/16 09:09	1
Allyl chloride	<2.00		2.00		ug/L			08/14/16 09:09	1
Benzene	<0.500		0.500		ug/L			08/14/16 09:09	1
Bromobenzene	<1.00		1.00		ug/L			08/14/16 09:09	1

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

Lab Sample ID: MB 310-137589/8
Matrix: Water
Analysis Batch: 137589

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<5.00		5.00		ug/L			08/14/16 09:09	1
Bromodichloromethane	<1.00		1.00		ug/L			08/14/16 09:09	1
Bromoform	<5.00		5.00		ug/L			08/14/16 09:09	1
Bromomethane	<4.00		4.00		ug/L			08/14/16 09:09	1
2-Butanone (MEK)	<10.0		10.0		ug/L			08/14/16 09:09	1
n-Butylbenzene	<1.00		1.00		ug/L			08/14/16 09:09	1
sec-Butylbenzene	<1.00		1.00		ug/L			08/14/16 09:09	1
tert-Butylbenzene	<1.00		1.00		ug/L			08/14/16 09:09	1
Carbon tetrachloride	<2.00		2.00		ug/L			08/14/16 09:09	1
Chlorobenzene	<1.00		1.00		ug/L			08/14/16 09:09	1
Chlorodibromomethane	<5.00		5.00		ug/L			08/14/16 09:09	1
Dichlorofluoromethane	<1.00		1.00		ug/L			08/14/16 09:09	1
Chloroethane	<4.00		4.00		ug/L			08/14/16 09:09	1
Chloroform	<1.00		1.00		ug/L			08/14/16 09:09	1
Chloromethane	<3.00		3.00		ug/L			08/14/16 09:09	1
4-Chlorotoluene	<1.00		1.00		ug/L			08/14/16 09:09	1
2-Chlorotoluene	<1.00		1.00		ug/L			08/14/16 09:09	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00		ug/L			08/14/16 09:09	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			08/14/16 09:09	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 09:09	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 09:09	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 09:09	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			08/14/16 09:09	1
1,2-Dichloroethane	<1.00		1.00		ug/L			08/14/16 09:09	1
1,1-Dichloroethane	<1.00		1.00		ug/L			08/14/16 09:09	1
1,1-Dichloroethene	<2.00		2.00		ug/L			08/14/16 09:09	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			08/14/16 09:09	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			08/14/16 09:09	1
1,2-Dichloropropane	<1.00		1.00		ug/L			08/14/16 09:09	1
1,3-Dichloropropane	<1.00		1.00		ug/L			08/14/16 09:09	1
2,2-Dichloropropane	<4.00		4.00		ug/L			08/14/16 09:09	1
1,1-Dichloropropene	<1.00		1.00		ug/L			08/14/16 09:09	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			08/14/16 09:09	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			08/14/16 09:09	1
Diethyl ether	<2.00		2.00		ug/L			08/14/16 09:09	1
Ethylbenzene	<1.00		1.00		ug/L			08/14/16 09:09	1
Hexachlorobutadiene	<5.00		5.00		ug/L			08/14/16 09:09	1
Isopropylbenzene	<1.00		1.00		ug/L			08/14/16 09:09	1
p-Isopropyltoluene	<1.00		1.00		ug/L			08/14/16 09:09	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0		ug/L			08/14/16 09:09	1
Methylene Chloride	<5.00		5.00		ug/L			08/14/16 09:09	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			08/14/16 09:09	1
Naphthalene	<5.00		5.00		ug/L			08/14/16 09:09	1
N-Propylbenzene	<1.00		1.00		ug/L			08/14/16 09:09	1
Styrene	<1.00		1.00		ug/L			08/14/16 09:09	1
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			08/14/16 09:09	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			08/14/16 09:09	1
Tetrachloroethene	<1.00		1.00		ug/L			08/14/16 09:09	1

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

Lab Sample ID: MB 310-137589/8
Matrix: Water
Analysis Batch: 137589

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<10.0		10.0		ug/L			08/14/16 09:09	1
Toluene	<1.00		1.00		ug/L			08/14/16 09:09	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			08/14/16 09:09	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			08/14/16 09:09	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			08/14/16 09:09	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			08/14/16 09:09	1
Trichloroethene	<1.00		1.00		ug/L			08/14/16 09:09	1
Trichlorofluoromethane	<4.00		4.00		ug/L			08/14/16 09:09	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			08/14/16 09:09	1
1,1,2-Trichlorotrifluoroethane	<2.00		2.00		ug/L			08/14/16 09:09	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			08/14/16 09:09	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			08/14/16 09:09	1
Vinyl chloride	<1.00		1.00		ug/L			08/14/16 09:09	1
Xylenes, Total	<3.00		3.00		ug/L			08/14/16 09:09	1
Dibromomethane	<1.00		1.00		ug/L			08/14/16 09:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*08/14/16 09:09*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*08/14/16 09:09*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/14/16 09:09*	*1*

Lab Sample ID: LCS 310-137589/6
Matrix: Water
Analysis Batch: 137589

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40.0	39.08		ug/L		98	55 - 150
Allyl chloride	20.0	19.73		ug/L		99	60 - 145
Benzene	20.0	18.59		ug/L		93	70 - 125
Bromobenzene	20.0	17.18		ug/L		86	70 - 120
Bromochloromethane	20.0	18.14		ug/L		91	65 - 145
Bromodichloromethane	20.0	17.96		ug/L		90	65 - 125
Bromoform	20.0	15.98		ug/L		80	45 - 120
2-Butanone (MEK)	40.0	37.12		ug/L		93	60 - 135
n-Butylbenzene	20.0	17.91		ug/L		90	60 - 135
sec-Butylbenzene	20.0	17.64		ug/L		88	70 - 125
tert-Butylbenzene	20.0	17.41		ug/L		87	70 - 125
Carbon tetrachloride	20.0	19.00		ug/L		95	60 - 135
Chlorobenzene	20.0	18.07		ug/L		90	70 - 125
Chlorodibromomethane	20.0	19.42		ug/L		97	65 - 125
Chloroform	20.0	18.23		ug/L		91	70 - 130
4-Chlorotoluene	20.0	17.29		ug/L		86	70 - 120
2-Chlorotoluene	20.0	17.58		ug/L		88	70 - 120
1,2-Dibromo-3-Chloropropane	20.0	18.18		ug/L		91	40 - 135
1,2-Dibromoethane (EDB)	20.0	17.59		ug/L		88	75 - 125
1,2-Dichlorobenzene	20.0	18.73		ug/L		94	70 - 120
1,3-Dichlorobenzene	20.0	17.26		ug/L		86	70 - 125
1,4-Dichlorobenzene	20.0	17.48		ug/L		87	70 - 125

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

Lab Sample ID: LCS 310-137589/6
Matrix: Water
Analysis Batch: 137589

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	20.0	17.96		ug/L		90	70 - 130
1,1-Dichloroethane	20.0	20.02		ug/L		100	70 - 130
1,1-Dichloroethene	20.0	18.97		ug/L		95	65 - 140
cis-1,2-Dichloroethene	20.0	18.21		ug/L		91	70 - 130
trans-1,2-Dichloroethene	20.0	18.93		ug/L		95	65 - 135
1,2-Dichloropropane	20.0	18.12		ug/L		91	70 - 125
1,3-Dichloropropane	20.0	17.47		ug/L		87	75 - 125
2,2-Dichloropropane	20.0	18.84		ug/L		94	55 - 140
1,1-Dichloropropene	20.0	20.11		ug/L		101	70 - 130
cis-1,3-Dichloropropene	20.0	18.03		ug/L		90	60 - 130
trans-1,3-Dichloropropene	20.0	17.67		ug/L		88	65 - 120
Diethyl ether	20.0	18.81		ug/L		94	65 - 130
Ethylbenzene	20.0	17.77		ug/L		89	70 - 125
Hexachlorobutadiene	20.0	20.85		ug/L		104	60 - 125
Isopropylbenzene	20.0	17.69		ug/L		88	75 - 125
p-Isopropyltoluene	20.0	18.13		ug/L		91	70 - 125
4-Methyl-2-pentanone (MIBK)	40.0	36.54		ug/L		91	60 - 140
Methylene Chloride	20.0	19.07		ug/L		95	50 - 140
Methyl tert-butyl ether	20.0	18.04		ug/L		90	70 - 125
Naphthalene	20.0	18.56		ug/L		93	45 - 130
N-Propylbenzene	20.0	17.74		ug/L		89	75 - 125
Styrene	20.0	16.95		ug/L		85	70 - 120
1,1,1,2-Tetrachloroethane	20.0	16.73		ug/L		84	70 - 120
1,1,2,2-Tetrachloroethane	20.0	16.78		ug/L		84	65 - 125
Tetrachloroethene	20.0	18.99		ug/L		95	55 - 150
Tetrahydrofuran	40.0	38.04		ug/L		95	60 - 130
Toluene	20.0	18.19		ug/L		91	75 - 125
1,2,3-Trichlorobenzene	20.0	19.31		ug/L		97	60 - 125
1,2,4-Trichlorobenzene	20.0	18.90		ug/L		94	60 - 125
1,1,1-Trichloroethane	20.0	19.12		ug/L		96	70 - 130
1,1,2-Trichloroethane	20.0	17.10		ug/L		86	70 - 130
Trichloroethene	20.0	18.80		ug/L		94	70 - 130
1,2,3-Trichloropropane	20.0	17.50		ug/L		87	65 - 130
1,1,2-Trichlorotrifluoroethane	20.0	21.04		ug/L		105	55 - 150
1,2,4-Trimethylbenzene	20.0	17.17		ug/L		86	70 - 125
1,3,5-Trimethylbenzene	20.0	17.51		ug/L		88	75 - 125
Dibromomethane	20.0	17.53		ug/L		88	75 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

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

Lab Sample ID: LCS 310-137589/7
Matrix: Water
Analysis Batch: 137589

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	20.0	14.44		ug/L		72	35 - 130
Dichlorofluoromethane	20.0	16.96		ug/L		85	60 - 140
Chloroethane	20.0	18.52		ug/L		93	55 - 140
Chloromethane	20.0	21.00		ug/L		105	40 - 135
Dichlorodifluoromethane	20.0	23.68		ug/L		118	35 - 130
Trichlorofluoromethane	20.0	18.05		ug/L		90	50 - 145
Vinyl chloride	20.0	19.19		ug/L		96	50 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 310-86899-B-1 MS
Matrix: Water
Analysis Batch: 137589

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	<10.0		40.0	35.26		ug/L		88	50 - 150
Allyl chloride	<2.00		20.0	19.18		ug/L		96	45 - 145
Benzene	<0.500		20.0	18.19		ug/L		91	50 - 135
Bromobenzene	<1.00		20.0	17.85		ug/L		89	50 - 140
Bromochloromethane	<5.00		20.0	19.79		ug/L		99	50 - 145
Bromodichloromethane	<1.00		20.0	18.05		ug/L		90	50 - 130
Bromoform	<5.00		20.0	15.15		ug/L		76	35 - 125
2-Butanone (MEK)	<10.0		40.0	36.57		ug/L		91	50 - 145
n-Butylbenzene	1.08		20.0	17.16		ug/L		80	35 - 135
sec-Butylbenzene	<1.00		20.0	16.55		ug/L		80	40 - 125
tert-Butylbenzene	<1.00		20.0	16.37		ug/L		82	45 - 130
Carbon tetrachloride	<2.00		20.0	17.08		ug/L		85	45 - 135
Chlorobenzene	<1.00		20.0	18.09		ug/L		90	50 - 135
Chlorodibromomethane	<5.00		20.0	19.88		ug/L		99	45 - 130
Chloroform	<1.00		20.0	19.22		ug/L		96	50 - 130
4-Chlorotoluene	<1.00		20.0	16.64		ug/L		83	45 - 130
2-Chlorotoluene	<1.00		20.0	16.71		ug/L		84	45 - 130
1,2-Dibromo-3-Chloropropane	<5.00		20.0	17.09		ug/L		85	40 - 135
1,2-Dibromoethane (EDB)	<1.00		20.0	17.62		ug/L		88	50 - 140
1,2-Dichlorobenzene	<1.00		20.0	18.48		ug/L		92	45 - 135
1,3-Dichlorobenzene	<1.00		20.0	17.09		ug/L		85	45 - 140
1,4-Dichlorobenzene	<1.00		20.0	17.15		ug/L		86	45 - 135
1,2-Dichloroethane	<1.00		20.0	18.57		ug/L		93	60 - 130
1,1-Dichloroethane	<1.00		20.0	20.13		ug/L		101	45 - 140
1,1-Dichloroethene	<2.00		20.0	18.06		ug/L		90	45 - 140
cis-1,2-Dichloroethene	<1.00		20.0	18.64		ug/L		93	50 - 135
trans-1,2-Dichloroethene	<1.00		20.0	18.56		ug/L		93	45 - 135
1,2-Dichloropropane	<1.00		20.0	18.00		ug/L		90	55 - 135
1,3-Dichloropropane	<1.00		20.0	18.11		ug/L		91	55 - 135
2,2-Dichloropropane	<4.00		20.0	16.52		ug/L		83	40 - 140

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

Lab Sample ID: 310-86899-B-1 MS
Matrix: Water
Analysis Batch: 137589

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	<1.00		20.0	17.94		ug/L		90	50 - 130
cis-1,3-Dichloropropene	<5.00		20.0	17.70		ug/L		89	50 - 130
trans-1,3-Dichloropropene	<5.00		20.0	16.62		ug/L		83	45 - 125
Diethyl ether	<2.00		20.0	20.04		ug/L		100	45 - 140
Ethylbenzene	<1.00		20.0	16.58		ug/L		83	45 - 125
Hexachlorobutadiene	<5.00		20.0	18.74		ug/L		94	35 - 130
Isopropylbenzene	<1.00		20.0	17.17		ug/L		81	45 - 125
p-Isopropyltoluene	<1.00		20.0	16.05		ug/L		80	45 - 125
4-Methyl-2-pentanone (MIBK)	<10.0		40.0	37.62		ug/L		94	45 - 140
Methylene Chloride	<5.00		20.0	19.81		ug/L		99	45 - 140
Methyl tert-butyl ether	<1.00		20.0	18.72		ug/L		94	55 - 130
Naphthalene	<5.00		20.0	17.65		ug/L		88	40 - 135
N-Propylbenzene	2.28		20.0	18.18		ug/L		79	45 - 125
Styrene	<1.00		20.0	16.63		ug/L		83	45 - 130
1,1,1,2-Tetrachloroethane	<1.00		20.0	16.88		ug/L		84	50 - 130
1,1,2,2-Tetrachloroethane	<1.00		20.0	16.36		ug/L		82	45 - 140
Tetrachloroethene	<1.00		20.0	17.03		ug/L		85	35 - 150
Tetrahydrofuran	<10.0		40.0	35.30		ug/L		88	45 - 140
Toluene	<1.00		20.0	17.51		ug/L		88	45 - 130
1,2,3-Trichlorobenzene	<5.00		20.0	18.71		ug/L		94	45 - 140
1,2,4-Trichlorobenzene	<5.00		20.0	18.70		ug/L		93	40 - 135
1,1,1-Trichloroethane	<1.00		20.0	17.24		ug/L		86	50 - 130
1,1,2-Trichloroethane	<1.00		20.0	17.38		ug/L		87	50 - 145
Trichloroethene	<1.00		20.0	18.29		ug/L		91	50 - 130
1,2,3-Trichloropropane	<1.00		20.0	18.30		ug/L		92	45 - 140
1,1,2-Trichlorotrifluoroethane	<2.00		20.0	15.87		ug/L		79	40 - 150
1,2,4-Trimethylbenzene	<1.00		20.0	16.71		ug/L		84	45 - 130
1,3,5-Trimethylbenzene	<1.00		20.0	16.54		ug/L		83	10 - 125
Dibromomethane	<1.00		20.0	18.50		ug/L		93	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 310-86899-B-1 MSD
Matrix: Water
Analysis Batch: 137589

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	<10.0		40.0	37.38		ug/L		93	50 - 150	6	30
Allyl chloride	<2.00		20.0	20.38		ug/L		102	45 - 145	6	35
Benzene	<0.500		20.0	17.98		ug/L		90	50 - 135	1	15
Bromobenzene	<1.00		20.0	17.17		ug/L		86	50 - 140	4	15
Bromochloromethane	<5.00		20.0	19.71		ug/L		99	50 - 145	0	20
Bromodichloromethane	<1.00		20.0	18.76		ug/L		94	50 - 130	4	15
Bromoform	<5.00		20.0	15.64		ug/L		78	35 - 125	3	20
2-Butanone (MEK)	<10.0		40.0	38.59		ug/L		96	50 - 145	5	35

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

Lab Sample ID: 310-86899-B-1 MSD
Matrix: Water
Analysis Batch: 137589

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
n-Butylbenzene	1.08		20.0	17.51		ug/L		82	35 - 135	2	25
sec-Butylbenzene	<1.00		20.0	17.31		ug/L		84	40 - 125	4	25
tert-Butylbenzene	<1.00		20.0	16.93		ug/L		85	45 - 130	3	25
Carbon tetrachloride	<2.00		20.0	17.33		ug/L		87	45 - 135	1	20
Chlorobenzene	<1.00		20.0	17.88		ug/L		89	50 - 135	1	20
Chlorodibromomethane	<5.00		20.0	20.01		ug/L		100	45 - 130	1	15
Chloroform	<1.00		20.0	19.49		ug/L		97	50 - 130	1	15
4-Chlorotoluene	<1.00		20.0	17.27		ug/L		86	45 - 130	4	20
2-Chlorotoluene	<1.00		20.0	17.20		ug/L		86	45 - 130	3	20
1,2-Dibromo-3-Chloropropane	<5.00		20.0	17.73		ug/L		89	40 - 135	4	35
1,2-Dibromoethane (EDB)	<1.00		20.0	18.12		ug/L		91	50 - 140	3	15
1,2-Dichlorobenzene	<1.00		20.0	18.98		ug/L		95	45 - 135	3	15
1,3-Dichlorobenzene	<1.00		20.0	17.96		ug/L		90	45 - 140	5	20
1,4-Dichlorobenzene	<1.00		20.0	17.64		ug/L		88	45 - 135	3	20
1,2-Dichloroethane	<1.00		20.0	18.59		ug/L		93	60 - 130	0	15
1,1-Dichloroethane	<1.00		20.0	20.03		ug/L		100	45 - 140	1	15
1,1-Dichloroethene	<2.00		20.0	18.08		ug/L		90	45 - 140	0	20
cis-1,2-Dichloroethene	<1.00		20.0	18.28		ug/L		91	50 - 135	2	15
trans-1,2-Dichloroethene	<1.00		20.0	17.80		ug/L		89	45 - 135	4	20
1,2-Dichloropropane	<1.00		20.0	18.10		ug/L		91	55 - 135	1	15
1,3-Dichloropropane	<1.00		20.0	17.97		ug/L		90	55 - 135	1	20
2,2-Dichloropropane	<4.00		20.0	16.82		ug/L		84	40 - 140	2	20
1,1-Dichloropropene	<1.00		20.0	17.43		ug/L		87	50 - 130	3	20
cis-1,3-Dichloropropene	<5.00		20.0	17.40		ug/L		87	50 - 130	2	15
trans-1,3-Dichloropropene	<5.00		20.0	16.44		ug/L		82	45 - 125	1	20
Diethyl ether	<2.00		20.0	20.34		ug/L		102	45 - 140	1	15
Ethylbenzene	<1.00		20.0	17.20		ug/L		86	45 - 125	4	20
Hexachlorobutadiene	<5.00		20.0	17.85		ug/L		89	35 - 130	5	35
Isopropylbenzene	<1.00		20.0	17.82		ug/L		85	45 - 125	4	20
p-Isopropyltoluene	<1.00		20.0	16.85		ug/L		84	45 - 125	5	20
4-Methyl-2-pentanone (MIBK)	<10.0		40.0	37.85		ug/L		95	45 - 140	1	25
Methylene Chloride	<5.00		20.0	19.50		ug/L		98	45 - 140	2	15
Methyl tert-butyl ether	<1.00		20.0	18.98		ug/L		95	55 - 130	1	15
Naphthalene	<5.00		20.0	19.17		ug/L		96	40 - 135	8	25
N-Propylbenzene	2.28		20.0	18.69		ug/L		82	45 - 125	3	20
Styrene	<1.00		20.0	16.47		ug/L		82	45 - 130	1	20
1,1,1,2-Tetrachloroethane	<1.00		20.0	16.70		ug/L		83	50 - 130	1	15
1,1,2,2-Tetrachloroethane	<1.00		20.0	16.84		ug/L		84	45 - 140	3	20
Tetrachloroethene	<1.00		20.0	17.36		ug/L		87	35 - 150	2	20
Tetrahydrofuran	<10.0		40.0	39.06		ug/L		98	45 - 140	10	35
Toluene	<1.00		20.0	17.15		ug/L		86	45 - 130	2	15
1,2,3-Trichlorobenzene	<5.00		20.0	19.83		ug/L		99	45 - 140	6	25
1,2,4-Trichlorobenzene	<5.00		20.0	20.13		ug/L		101	40 - 135	7	25
1,1,1-Trichloroethane	<1.00		20.0	17.29		ug/L		86	50 - 130	0	15
1,1,2-Trichloroethane	<1.00		20.0	17.44		ug/L		87	50 - 145	0	20
Trichloroethene	<1.00		20.0	17.97		ug/L		90	50 - 130	2	15
1,2,3-Trichloropropane	<1.00		20.0	20.34		ug/L		102	45 - 140	11	25
1,1,2-Trichlorotrifluoroethane	<2.00		20.0	16.53		ug/L		83	40 - 150	4	25

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

Lab Sample ID: 310-86899-B-1 MSD
Matrix: Water
Analysis Batch: 137589

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	<1.00		20.0	17.02		ug/L		85	45 - 130	2	20
1,3,5-Trimethylbenzene	<1.00		20.0	17.04		ug/L		85	10 - 125	3	35
Dibromomethane	<1.00		20.0	18.41		ug/L		92	55 - 140	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 310-137592/8
Matrix: Water
Analysis Batch: 137592

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			08/14/16 19:49	1
Allyl chloride	<2.00		2.00		ug/L			08/14/16 19:49	1
Benzene	<0.500		0.500		ug/L			08/14/16 19:49	1
Bromobenzene	<1.00		1.00		ug/L			08/14/16 19:49	1
Bromochloromethane	<5.00		5.00		ug/L			08/14/16 19:49	1
Bromodichloromethane	<1.00		1.00		ug/L			08/14/16 19:49	1
Bromoform	<5.00		5.00		ug/L			08/14/16 19:49	1
Bromomethane	<4.00		4.00		ug/L			08/14/16 19:49	1
2-Butanone (MEK)	<10.0		10.0		ug/L			08/14/16 19:49	1
n-Butylbenzene	<1.00		1.00		ug/L			08/14/16 19:49	1
sec-Butylbenzene	<1.00		1.00		ug/L			08/14/16 19:49	1
tert-Butylbenzene	<1.00		1.00		ug/L			08/14/16 19:49	1
Carbon tetrachloride	<2.00		2.00		ug/L			08/14/16 19:49	1
Chlorobenzene	<1.00		1.00		ug/L			08/14/16 19:49	1
Chlorodibromomethane	<5.00		5.00		ug/L			08/14/16 19:49	1
Dichlorofluoromethane	<1.00		1.00		ug/L			08/14/16 19:49	1
Chloroethane	<4.00		4.00		ug/L			08/14/16 19:49	1
Chloroform	<1.00		1.00		ug/L			08/14/16 19:49	1
Chloromethane	<3.00		3.00		ug/L			08/14/16 19:49	1
4-Chlorotoluene	<1.00		1.00		ug/L			08/14/16 19:49	1
2-Chlorotoluene	<1.00		1.00		ug/L			08/14/16 19:49	1
1,2-Dibromo-3-Chloropropane	<5.00		5.00		ug/L			08/14/16 19:49	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			08/14/16 19:49	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 19:49	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 19:49	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			08/14/16 19:49	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			08/14/16 19:49	1
1,2-Dichloroethane	<1.00		1.00		ug/L			08/14/16 19:49	1
1,1-Dichloroethane	<1.00		1.00		ug/L			08/14/16 19:49	1
1,1-Dichloroethene	<2.00		2.00		ug/L			08/14/16 19:49	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			08/14/16 19:49	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			08/14/16 19:49	1
1,2-Dichloropropane	<1.00		1.00		ug/L			08/14/16 19:49	1
1,3-Dichloropropane	<1.00		1.00		ug/L			08/14/16 19:49	1

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

Lab Sample ID: MB 310-137592/8
Matrix: Water
Analysis Batch: 137592

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	<4.00		4.00		ug/L			08/14/16 19:49	1
1,1-Dichloropropene	<1.00		1.00		ug/L			08/14/16 19:49	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			08/14/16 19:49	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			08/14/16 19:49	1
Diethyl ether	<2.00		2.00		ug/L			08/14/16 19:49	1
Ethylbenzene	<1.00		1.00		ug/L			08/14/16 19:49	1
Hexachlorobutadiene	<5.00		5.00		ug/L			08/14/16 19:49	1
Isopropylbenzene	<1.00		1.00		ug/L			08/14/16 19:49	1
p-Isopropyltoluene	<1.00		1.00		ug/L			08/14/16 19:49	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0		ug/L			08/14/16 19:49	1
Methylene Chloride	<5.00		5.00		ug/L			08/14/16 19:49	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			08/14/16 19:49	1
Naphthalene	<5.00		5.00		ug/L			08/14/16 19:49	1
N-Propylbenzene	<1.00		1.00		ug/L			08/14/16 19:49	1
Styrene	<1.00		1.00		ug/L			08/14/16 19:49	1
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			08/14/16 19:49	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			08/14/16 19:49	1
Tetrachloroethene	<1.00		1.00		ug/L			08/14/16 19:49	1
Tetrahydrofuran	<10.0		10.0		ug/L			08/14/16 19:49	1
Toluene	<1.00		1.00		ug/L			08/14/16 19:49	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			08/14/16 19:49	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			08/14/16 19:49	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			08/14/16 19:49	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			08/14/16 19:49	1
Trichloroethene	<1.00		1.00		ug/L			08/14/16 19:49	1
Trichlorofluoromethane	<4.00		4.00		ug/L			08/14/16 19:49	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			08/14/16 19:49	1
1,1,2-Trichlorotrifluoroethane	<2.00		2.00		ug/L			08/14/16 19:49	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			08/14/16 19:49	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			08/14/16 19:49	1
Vinyl chloride	<1.00		1.00		ug/L			08/14/16 19:49	1
Xylenes, Total	<3.00		3.00		ug/L			08/14/16 19:49	1
Dibromomethane	<1.00		1.00		ug/L			08/14/16 19:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/14/16 19:49*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*08/14/16 19:49*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/14/16 19:49*	*1*

Lab Sample ID: LCS 310-137592/6
Matrix: Water
Analysis Batch: 137592

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40.0	36.77		ug/L		92	55 - 150
Allyl chloride	20.0	20.40		ug/L		102	60 - 145
Benzene	20.0	18.62		ug/L		93	70 - 125
Bromobenzene	20.0	17.91		ug/L		90	70 - 120

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

Lab Sample ID: LCS 310-137592/6
Matrix: Water
Analysis Batch: 137592

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	20.0	18.60		ug/L		93	65 - 145
Bromodichloromethane	20.0	18.24		ug/L		91	65 - 125
Bromoform	20.0	15.66		ug/L		78	45 - 120
2-Butanone (MEK)	40.0	37.97		ug/L		95	60 - 135
n-Butylbenzene	20.0	17.83		ug/L		89	60 - 135
sec-Butylbenzene	20.0	18.30		ug/L		92	70 - 125
tert-Butylbenzene	20.0	17.93		ug/L		90	70 - 125
Carbon tetrachloride	20.0	19.45		ug/L		97	60 - 135
Chlorobenzene	20.0	18.54		ug/L		93	70 - 125
Chlorodibromomethane	20.0	19.56		ug/L		98	65 - 125
Chloroform	20.0	19.08		ug/L		95	70 - 130
4-Chlorotoluene	20.0	18.03		ug/L		90	70 - 120
2-Chlorotoluene	20.0	18.35		ug/L		92	70 - 120
1,2-Dibromo-3-Chloropropane	20.0	17.52		ug/L		88	40 - 135
1,2-Dibromoethane (EDB)	20.0	18.16		ug/L		91	75 - 125
1,2-Dichlorobenzene	20.0	20.19		ug/L		101	70 - 120
1,3-Dichlorobenzene	20.0	18.26		ug/L		91	70 - 125
1,4-Dichlorobenzene	20.0	19.02		ug/L		95	70 - 125
1,2-Dichloroethane	20.0	18.69		ug/L		93	70 - 130
1,1-Dichloroethane	20.0	20.24		ug/L		101	70 - 130
1,1-Dichloroethene	20.0	19.61		ug/L		98	65 - 140
cis-1,2-Dichloroethene	20.0	19.49		ug/L		97	70 - 130
trans-1,2-Dichloroethene	20.0	18.91		ug/L		95	65 - 135
1,2-Dichloropropane	20.0	19.07		ug/L		95	70 - 125
1,3-Dichloropropane	20.0	18.35		ug/L		92	75 - 125
2,2-Dichloropropane	20.0	16.99		ug/L		85	55 - 140
1,1-Dichloropropene	20.0	19.38		ug/L		97	70 - 130
cis-1,3-Dichloropropene	20.0	17.76		ug/L		89	60 - 130
trans-1,3-Dichloropropene	20.0	17.05		ug/L		85	65 - 120
Diethyl ether	20.0	19.45		ug/L		97	65 - 130
Ethylbenzene	20.0	18.52		ug/L		93	70 - 125
Hexachlorobutadiene	20.0	20.80		ug/L		104	60 - 125
Isopropylbenzene	20.0	18.67		ug/L		93	75 - 125
p-Isopropyltoluene	20.0	18.49		ug/L		92	70 - 125
4-Methyl-2-pentanone (MIBK)	40.0	35.40		ug/L		89	60 - 140
Methylene Chloride	20.0	19.41		ug/L		97	50 - 140
Methyl tert-butyl ether	20.0	18.50		ug/L		93	70 - 125
Naphthalene	20.0	18.72		ug/L		94	45 - 130
N-Propylbenzene	20.0	17.84		ug/L		89	75 - 125
Styrene	20.0	17.54		ug/L		88	70 - 120
1,1,1,2-Tetrachloroethane	20.0	17.25		ug/L		86	70 - 120
1,1,2,2-Tetrachloroethane	20.0	17.00		ug/L		85	65 - 125
Tetrachloroethene	20.0	19.35		ug/L		97	55 - 150
Tetrahydrofuran	40.0	35.47		ug/L		89	60 - 130
Toluene	20.0	19.05		ug/L		95	75 - 125
1,2,3-Trichlorobenzene	20.0	19.40		ug/L		97	60 - 125
1,2,4-Trichlorobenzene	20.0	19.00		ug/L		95	60 - 125
1,1,1-Trichloroethane	20.0	19.00		ug/L		95	70 - 130

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

Lab Sample ID: LCS 310-137592/6
Matrix: Water
Analysis Batch: 137592

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	20.0	17.40		ug/L		87	70 - 130
Trichloroethene	20.0	18.62		ug/L		93	70 - 130
1,2,3-Trichloropropane	20.0	17.61		ug/L		88	65 - 130
1,1,2-Trichlorotrifluoroethane	20.0	19.88		ug/L		99	55 - 150
1,2,4-Trimethylbenzene	20.0	17.53		ug/L		88	70 - 125
1,3,5-Trimethylbenzene	20.0	17.91		ug/L		90	75 - 125
Dibromomethane	20.0	18.33		ug/L		92	75 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCS 310-137592/7
Matrix: Water
Analysis Batch: 137592

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	20.0	14.55		ug/L		73	35 - 130
Dichlorofluoromethane	20.0	17.01		ug/L		85	60 - 140
Chloroethane	20.0	18.77		ug/L		94	55 - 140
Chloromethane	20.0	20.87		ug/L		104	40 - 135
Dichlorodifluoromethane	20.0	22.86		ug/L		114	35 - 130
Trichlorofluoromethane	20.0	17.45		ug/L		87	50 - 145
Vinyl chloride	20.0	19.78		ug/L		99	50 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 310-86913-B-1 MS
Matrix: Water
Analysis Batch: 137592

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	<10.0		40.0	43.83		ug/L		105	50 - 150
Allyl chloride	<2.00		20.0	21.85		ug/L		109	45 - 145
Benzene	<0.500		20.0	18.08		ug/L		90	50 - 135
Bromobenzene	<1.00		20.0	18.46		ug/L		92	50 - 140
Bromochloromethane	<5.00		20.0	20.33		ug/L		102	50 - 145
Bromodichloromethane	<1.00		20.0	19.58		ug/L		98	50 - 130
Bromoform	<5.00		20.0	17.14		ug/L		86	35 - 125
2-Butanone (MEK)	<10.0		40.0	45.39		ug/L		113	50 - 145
n-Butylbenzene	<1.00		20.0	13.45		ug/L		67	35 - 135
sec-Butylbenzene	<1.00		20.0	13.60		ug/L		68	40 - 125
tert-Butylbenzene	<1.00		20.0	14.36		ug/L		72	45 - 130
Carbon tetrachloride	<2.00		20.0	14.85		ug/L		74	45 - 135

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

Lab Sample ID: 310-86913-B-1 MS
Matrix: Water
Analysis Batch: 137592

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	<1.00		20.0	18.06		ug/L		90	50 - 135
Chlorodibromomethane	<5.00		20.0	22.72		ug/L		114	45 - 130
Chloroform	<1.00		20.0	20.30		ug/L		101	50 - 130
4-Chlorotoluene	<1.00		20.0	17.15		ug/L		86	45 - 130
2-Chlorotoluene	<1.00		20.0	16.36		ug/L		82	45 - 130
1,2-Dibromo-3-Chloropropane	<5.00		20.0	18.42		ug/L		92	40 - 135
1,2-Dibromoethane (EDB)	<1.00		20.0	19.53		ug/L		98	50 - 140
1,2-Dichlorobenzene	<1.00		20.0	19.25		ug/L		96	45 - 135
1,3-Dichlorobenzene	<1.00		20.0	18.02		ug/L		90	45 - 140
1,4-Dichlorobenzene	<1.00		20.0	17.92		ug/L		90	45 - 135
1,2-Dichloroethane	<1.00		20.0	19.83		ug/L		99	60 - 130
1,1-Dichloroethane	<1.00		20.0	20.51		ug/L		99	45 - 140
1,1-Dichloroethene	3.24		20.0	19.91		ug/L		83	45 - 140
cis-1,2-Dichloroethene	<1.00		20.0	19.44		ug/L		97	50 - 135
trans-1,2-Dichloroethene	<1.00		20.0	17.44		ug/L		87	45 - 135
1,2-Dichloropropane	<1.00		20.0	19.09		ug/L		95	55 - 135
1,3-Dichloropropane	<1.00		20.0	19.67		ug/L		98	55 - 135
2,2-Dichloropropane	<4.00		20.0	13.48		ug/L		67	40 - 140
1,1-Dichloropropene	<1.00		20.0	15.67		ug/L		78	50 - 130
cis-1,3-Dichloropropene	<5.00		20.0	17.87		ug/L		89	50 - 130
trans-1,3-Dichloropropene	<5.00		20.0	16.62		ug/L		83	45 - 125
Diethyl ether	<2.00		20.0	20.46		ug/L		102	45 - 140
Ethylbenzene	<1.00		20.0	15.66		ug/L		78	45 - 125
Hexachlorobutadiene	<5.00		20.0	15.67		ug/L		78	35 - 130
Isopropylbenzene	<1.00		20.0	14.53		ug/L		73	45 - 125
p-Isopropyltoluene	<1.00		20.0	13.96		ug/L		70	45 - 125
4-Methyl-2-pentanone (MIBK)	<10.0		40.0	43.76		ug/L		109	45 - 140
Methylene Chloride	<5.00		20.0	19.74		ug/L		99	45 - 140
Methyl tert-butyl ether	<1.00		20.0	19.47		ug/L		97	55 - 130
Naphthalene	<5.00		20.0	20.30		ug/L		101	40 - 135
N-Propylbenzene	<1.00		20.0	13.93		ug/L		70	45 - 125
Styrene	<1.00		20.0	16.86		ug/L		84	45 - 130
1,1,1,2-Tetrachloroethane	<1.00		20.0	17.79		ug/L		89	50 - 130
1,1,2,2-Tetrachloroethane	<1.00		20.0	19.56		ug/L		98	45 - 140
Tetrachloroethene	2.45		20.0	17.12		ug/L		73	35 - 150
Tetrahydrofuran	<10.0		40.0	45.32		ug/L		113	45 - 140
Toluene	<1.00		20.0	17.03		ug/L		85	45 - 130
1,2,3-Trichlorobenzene	<5.00		20.0	18.16		ug/L		91	45 - 140
1,2,4-Trichlorobenzene	<5.00		20.0	18.54		ug/L		93	40 - 135
1,1,1-Trichloroethane	1.04		20.0	16.40		ug/L		77	50 - 130
1,1,2-Trichloroethane	<1.00		20.0	19.27		ug/L		96	50 - 145
Trichloroethene	<1.00		20.0	16.61		ug/L		83	50 - 130
1,2,3-Trichloropropane	<1.00		20.0	22.73		ug/L		114	45 - 140
1,1,2-Trichlorotrifluoroethane	<2.00		20.0	13.62		ug/L		68	40 - 150
1,2,4-Trimethylbenzene	<1.00		20.0	15.98		ug/L		80	45 - 130
1,3,5-Trimethylbenzene	<1.00		20.0	14.94		ug/L		75	10 - 125
Dibromomethane	<1.00		20.0	20.03		ug/L		100	55 - 140

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

Lab Sample ID: 310-86913-B-1 MS
Matrix: Water
Analysis Batch: 137592

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: 310-86913-B-1 MSD
Matrix: Water
Analysis Batch: 137592

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	<10.0		40.0	45.98		ug/L		110	50 - 150	5	30
Allyl chloride	<2.00		20.0	21.73		ug/L		109	45 - 145	1	35
Benzene	<0.500		20.0	18.09		ug/L		90	50 - 135	0	15
Bromobenzene	<1.00		20.0	18.58		ug/L		93	50 - 140	1	15
Bromochloromethane	<5.00		20.0	20.94		ug/L		105	50 - 145	3	20
Bromodichloromethane	<1.00		20.0	19.28		ug/L		96	50 - 130	2	15
Bromoform	<5.00		20.0	18.89		ug/L		94	35 - 125	10	20
2-Butanone (MEK)	<10.0		40.0	47.07		ug/L		118	50 - 145	4	35
n-Butylbenzene	<1.00		20.0	13.95		ug/L		70	35 - 135	4	25
sec-Butylbenzene	<1.00		20.0	14.34		ug/L		72	40 - 125	5	25
tert-Butylbenzene	<1.00		20.0	15.06		ug/L		75	45 - 130	5	25
Carbon tetrachloride	<2.00		20.0	15.18		ug/L		76	45 - 135	2	20
Chlorobenzene	<1.00		20.0	18.11		ug/L		91	50 - 135	0	20
Chlorodibromomethane	<5.00		20.0	23.47		ug/L		117	45 - 130	3	15
Chloroform	<1.00		20.0	19.94		ug/L		100	50 - 130	2	15
4-Chlorotoluene	<1.00		20.0	17.57		ug/L		88	45 - 130	2	20
2-Chlorotoluene	<1.00		20.0	17.33		ug/L		87	45 - 130	6	20
1,2-Dibromo-3-Chloropropane	<5.00		20.0	20.38		ug/L		102	40 - 135	10	35
1,2-Dibromoethane (EDB)	<1.00		20.0	20.37		ug/L		102	50 - 140	4	15
1,2-Dichlorobenzene	<1.00		20.0	20.29		ug/L		101	45 - 135	5	15
1,3-Dichlorobenzene	<1.00		20.0	18.50		ug/L		92	45 - 140	3	20
1,4-Dichlorobenzene	<1.00		20.0	19.04		ug/L		95	45 - 135	6	20
1,2-Dichloroethane	<1.00		20.0	19.60		ug/L		98	60 - 130	1	15
1,1-Dichloroethane	<1.00		20.0	19.78		ug/L		96	45 - 140	4	15
1,1-Dichloroethene	3.24		20.0	19.31		ug/L		80	45 - 140	3	20
cis-1,2-Dichloroethene	<1.00		20.0	19.11		ug/L		96	50 - 135	2	15
trans-1,2-Dichloroethene	<1.00		20.0	17.54		ug/L		88	45 - 135	1	20
1,2-Dichloropropane	<1.00		20.0	19.15		ug/L		96	55 - 135	0	15
1,3-Dichloropropane	<1.00		20.0	20.92		ug/L		105	55 - 135	6	20
2,2-Dichloropropane	<4.00		20.0	13.90		ug/L		70	40 - 140	3	20
1,1-Dichloropropene	<1.00		20.0	15.66		ug/L		78	50 - 130	0	20
cis-1,3-Dichloropropene	<5.00		20.0	18.25		ug/L		91	50 - 130	2	15
trans-1,3-Dichloropropene	<5.00		20.0	17.84		ug/L		89	45 - 125	7	20
Diethyl ether	<2.00		20.0	21.82		ug/L		109	45 - 140	6	15
Ethylbenzene	<1.00		20.0	15.86		ug/L		79	45 - 125	1	20
Hexachlorobutadiene	<5.00		20.0	13.88		ug/L		69	35 - 130	12	35
Isopropylbenzene	<1.00		20.0	15.17		ug/L		76	45 - 125	4	20
p-Isopropyltoluene	<1.00		20.0	14.68		ug/L		73	45 - 125	5	20
4-Methyl-2-pentanone (MIBK)	<10.0		40.0	46.41		ug/L		116	45 - 140	6	25

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

Lab Sample ID: 310-86913-B-1 MSD
Matrix: Water
Analysis Batch: 137592

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	<5.00		20.0	20.50		ug/L		103	45 - 140	4	15
Methyl tert-butyl ether	<1.00		20.0	20.35		ug/L		102	55 - 130	4	15
Naphthalene	<5.00		20.0	19.77		ug/L		99	40 - 135	3	25
N-Propylbenzene	<1.00		20.0	14.78		ug/L		74	45 - 125	6	20
Styrene	<1.00		20.0	17.12		ug/L		86	45 - 130	2	20
1,1,1,2-Tetrachloroethane	<1.00		20.0	18.10		ug/L		91	50 - 130	2	15
1,1,2,2-Tetrachloroethane	<1.00		20.0	21.01		ug/L		105	45 - 140	7	20
Tetrachloroethene	2.45		20.0	17.34		ug/L		74	35 - 150	1	20
Tetrahydrofuran	<10.0		40.0	43.65		ug/L		109	45 - 140	4	35
Toluene	<1.00		20.0	17.08		ug/L		85	45 - 130	0	15
1,2,3-Trichlorobenzene	<5.00		20.0	19.61		ug/L		98	45 - 140	8	25
1,2,4-Trichlorobenzene	<5.00		20.0	19.45		ug/L		97	40 - 135	5	25
1,1,1-Trichloroethane	1.04		20.0	16.82		ug/L		79	50 - 130	2	15
1,1,2-Trichloroethane	<1.00		20.0	20.83		ug/L		104	50 - 145	8	20
Trichloroethene	<1.00		20.0	17.21		ug/L		86	50 - 130	4	15
1,2,3-Trichloropropane	<1.00		20.0	24.33		ug/L		122	45 - 140	7	25
1,1,2-Trichlorotrifluoroethane	<2.00		20.0	13.08		ug/L		65	40 - 150	4	25
1,2,4-Trimethylbenzene	<1.00		20.0	16.64		ug/L		83	45 - 130	4	20
1,3,5-Trimethylbenzene	<1.00		20.0	15.89		ug/L		79	10 - 125	6	35
Dibromomethane	<1.00		20.0	20.13		ug/L		101	55 - 140	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Lab Sample ID: MB 310-137340/1-A
Matrix: Solid
Analysis Batch: 137421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1
Acenaphthene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1
Acenaphthylene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1
Anthracene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1
Benzo[a]anthracene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1
Benzo[a]pyrene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1
Benzo[b]fluoranthene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1
Benzo[g,h,i]perylene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1
Benzo[k]fluoranthene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1
Chrysene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1
Dibenz(a,h)anthracene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1
Fluoranthene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1
Fluorene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1
Indeno[1,2,3-cd]pyrene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1
Naphthalene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: MB 310-137340/1-A
Matrix: Solid
Analysis Batch: 137421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1
Pyrene	<0.00954		0.00954		mg/Kg		08/11/16 13:52	08/12/16 10:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*10 - 110*	*08/11/16 13:52*	*08/12/16 10:42*	*1*
Nitrobenzene-d5 (Surr)	*68*		*10 - 110*	*08/11/16 13:52*	*08/12/16 10:42*	*1*
Terphenyl-d14 (Surr)	*72*		*20 - 110*	*08/11/16 13:52*	*08/12/16 10:42*	*1*

Lab Sample ID: LCS 310-137340/2-A
Matrix: Solid
Analysis Batch: 137421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	0.196	0.1194		mg/Kg		61	15 - 110
Acenaphthene	0.196	0.1206		mg/Kg		61	20 - 110
Acenaphthylene	0.196	0.1294		mg/Kg		66	20 - 110
Anthracene	0.196	0.1374		mg/Kg		70	30 - 110
Benzo[a]anthracene	0.196	0.1431		mg/Kg		73	50 - 110
Benzo[a]pyrene	0.196	0.1378		mg/Kg		70	45 - 110
Benzo[b]fluoranthene	0.196	0.1364		mg/Kg		70	40 - 110
Benzo[g,h,i]perylene	0.196	0.07849		mg/Kg		40	20 - 110
Benzo[k]fluoranthene	0.196	0.1305		mg/Kg		67	45 - 110
Chrysene	0.196	0.1256		mg/Kg		64	45 - 110
Dibenz(a,h)anthracene	0.196	0.04392		mg/Kg		22	10 - 110
Fluoranthene	0.196	0.1416		mg/Kg		72	40 - 110
Fluorene	0.196	0.1302		mg/Kg		66	25 - 110
Indeno[1,2,3-cd]pyrene	0.196	0.1189		mg/Kg		61	40 - 110
Naphthalene	0.196	0.1185		mg/Kg		60	15 - 110
Phenanthrene	0.196	0.1285		mg/Kg		66	25 - 110
Pyrene	0.196	0.1393		mg/Kg		71	40 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*72*		*10 - 110*
Nitrobenzene-d5 (Surr)	*76*		*10 - 110*
Terphenyl-d14 (Surr)	*82*		*20 - 110*

Lab Sample ID: 310-86901-1 MS
Matrix: Soil
Analysis Batch: 137421

Client Sample ID: GP-1 (15-16')
Prep Type: Total/NA
Prep Batch: 137340

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	<0.0120		0.239	0.1020		mg/Kg	☼	43	15 - 110
Acenaphthene	<0.0120		0.239	0.1045		mg/Kg	☼	44	20 - 110
Acenaphthylene	<0.0120		0.239	0.1116		mg/Kg	☼	47	20 - 110
Anthracene	<0.0120		0.239	0.1190		mg/Kg	☼	50	30 - 110
Benzo[a]anthracene	<0.0120		0.239	0.1219		mg/Kg	☼	51	35 - 115
Benzo[a]pyrene	<0.0120		0.239	0.1181		mg/Kg	☼	49	30 - 110
Benzo[b]fluoranthene	<0.0120		0.239	0.1194		mg/Kg	☼	50	35 - 110

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: 310-86901-1 MS
Matrix: Soil
Analysis Batch: 137421

Client Sample ID: GP-1 (15-16')
Prep Type: Total/NA
Prep Batch: 137340

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene	<0.0120		0.239	0.07176		mg/Kg	☼	28	15 - 110
Benzo[k]fluoranthene	<0.0120		0.239	0.1132		mg/Kg	☼	47	35 - 110
Chrysene	<0.0120		0.239	0.1097		mg/Kg	☼	46	35 - 110
Dibenz(a,h)anthracene	<0.0120		0.239	0.03775		mg/Kg	☼	16	10 - 110
Fluoranthene	<0.0120		0.239	0.1231		mg/Kg	☼	52	25 - 115
Fluorene	<0.0120		0.239	0.1120		mg/Kg	☼	47	25 - 110
Indeno[1,2,3-cd]pyrene	<0.0120		0.239	0.1037		mg/Kg	☼	42	30 - 110
Naphthalene	<0.0120		0.239	0.1004		mg/Kg	☼	42	15 - 110
Phenanthrene	<0.0120		0.239	0.1137		mg/Kg	☼	48	25 - 110
Pyrene	<0.0120		0.239	0.1214		mg/Kg	☼	51	25 - 115

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*52*		*10 - 110*
Nitrobenzene-d5 (Surr)	*54*		*10 - 110*
Terphenyl-d14 (Surr)	*62*		*20 - 110*

Lab Sample ID: 310-86901-1 MSD
Matrix: Soil
Analysis Batch: 137421

Client Sample ID: GP-1 (15-16')
Prep Type: Total/NA
Prep Batch: 137340

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	<0.0120		0.242	0.08333		mg/Kg	☼	34	15 - 110	20	40
Acenaphthene	<0.0120		0.242	0.08717		mg/Kg	☼	36	20 - 110	18	40
Acenaphthylene	<0.0120		0.242	0.09149		mg/Kg	☼	38	20 - 110	20	40
Anthracene	<0.0120		0.242	0.1029		mg/Kg	☼	43	30 - 110	15	40
Benzo[a]anthracene	<0.0120		0.242	0.1063		mg/Kg	☼	44	35 - 115	14	40
Benzo[a]pyrene	<0.0120		0.242	0.1032		mg/Kg	☼	43	30 - 110	13	40
Benzo[b]fluoranthene	<0.0120		0.242	0.1123		mg/Kg	☼	46	35 - 110	6	40
Benzo[g,h,i]perylene	<0.0120		0.242	0.06348		mg/Kg	☼	25	15 - 110	12	40
Benzo[k]fluoranthene	<0.0120		0.242	0.09565		mg/Kg	☼	40	35 - 110	17	40
Chrysene	<0.0120		0.242	0.09305		mg/Kg	☼	38	35 - 110	16	40
Dibenz(a,h)anthracene	<0.0120		0.242	0.03353		mg/Kg	☼	14	10 - 110	12	40
Fluoranthene	<0.0120		0.242	0.1035		mg/Kg	☼	43	25 - 115	17	40
Fluorene	<0.0120		0.242	0.09433		mg/Kg	☼	39	25 - 110	17	40
Indeno[1,2,3-cd]pyrene	<0.0120		0.242	0.09271		mg/Kg	☼	37	30 - 110	11	40
Naphthalene	<0.0120		0.242	0.08298		mg/Kg	☼	34	15 - 110	19	40
Phenanthrene	<0.0120		0.242	0.09437		mg/Kg	☼	39	25 - 110	19	40
Pyrene	<0.0120		0.242	0.1024		mg/Kg	☼	42	25 - 115	17	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*42*		*10 - 110*
Nitrobenzene-d5 (Surr)	*44*		*10 - 110*
Terphenyl-d14 (Surr)	*51*		*20 - 110*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 310-137425/4
Matrix: Water
Analysis Batch: 137425

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<100		100		ug/L			08/12/16 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*80 - 120*	*08/12/16 11:03*	*1*	

Lab Sample ID: LCS 310-137425/8
Matrix: Water
Analysis Batch: 137425

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Wisconsin GRO	800	707.1		ug/L		88	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 310-137425/30
Matrix: Water
Analysis Batch: 137425

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Wisconsin GRO	800	690.4		ug/L		86	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*

Lab Sample ID: MB 310-137502/1-A
Matrix: Solid
Analysis Batch: 137539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137502

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<9.74		9.74		mg/Kg		08/12/16 15:15	08/12/16 19:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*	*08/12/16 15:15*	*08/12/16 19:31*	*1*

Lab Sample ID: LCS 310-137502/2-A
Matrix: Solid
Analysis Batch: 137539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137502

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Wisconsin GRO	38.7	41.07		mg/Kg		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 310-137502/25-A
Matrix: Solid
Analysis Batch: 137539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 137502

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Wisconsin GRO			39.1	40.01		mg/Kg		102	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 310-137329/1-A
Matrix: Solid
Analysis Batch: 137456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<6.83		6.83		mg/Kg		08/11/16 12:55	08/12/16 12:12	1

Lab Sample ID: LCS 310-137329/2-A
Matrix: Solid
Analysis Batch: 137456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	96.8	77.15		mg/Kg		80	70 - 120

Lab Sample ID: LCSD 310-137329/3-A
Matrix: Solid
Analysis Batch: 137456

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 137329

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	99.2	68.71	*	mg/Kg		69	70 - 120	12	20

Lab Sample ID: MB 310-137353/1-A
Matrix: Water
Analysis Batch: 137457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137353

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<0.100		0.100		mg/L		08/11/16 14:50	08/12/16 13:56	1

Lab Sample ID: LCS 310-137353/2-A
Matrix: Water
Analysis Batch: 137457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	2.50	1.650	*	mg/L		66	75 - 115

Lab Sample ID: LCSD 310-137353/3-A
Matrix: Water
Analysis Batch: 137457

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 137353

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	2.50	1.654	*	mg/L		66	75 - 115	0	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-137367/1-A
Matrix: Solid
Analysis Batch: 137643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137367

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<3.27		3.27		mg/Kg		08/12/16 10:00	08/12/16 20:08	1
Barium	<0.409		0.409		mg/Kg		08/12/16 10:00	08/12/16 20:08	1
Cadmium	<0.818		0.818		mg/Kg		08/12/16 10:00	08/12/16 20:08	1
Chromium	<0.818		0.818		mg/Kg		08/12/16 10:00	08/12/16 20:08	1
Lead	<4.09		4.09		mg/Kg		08/12/16 10:00	08/12/16 20:08	1
Selenium	<6.14		6.14		mg/Kg		08/12/16 10:00	08/12/16 20:08	1
Silver	<0.818		0.818		mg/Kg		08/12/16 10:00	08/12/16 20:08	1

Lab Sample ID: LCS 310-137367/2-A
Matrix: Solid
Analysis Batch: 137643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137367

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	258	278.5		mg/Kg		108	80 - 120
Barium	129	133.2		mg/Kg		103	80 - 120
Cadmium	129	135.3		mg/Kg		105	80 - 120
Chromium	129	133.3		mg/Kg		103	80 - 120
Lead	258	275.6		mg/Kg		107	80 - 120
Selenium	517	540.8		mg/Kg		105	80 - 120
Silver	86.1	88.41		mg/Kg		103	80 - 120

Lab Sample ID: 310-86881-B-1-D MS
Matrix: Solid
Analysis Batch: 137643

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 137367

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	11.5		358	401.9		mg/Kg	☼	109	75 - 125
Barium	263	F1	179	395.4	F1	mg/Kg	☼	74	75 - 125
Cadmium	<1.91		179	189.6		mg/Kg	☼	106	75 - 125
Chromium	29.6		179	202.8		mg/Kg	☼	97	75 - 125
Lead	56.0	F2	358	439.0		mg/Kg	☼	107	75 - 125
Selenium	<14.3		715	781.4		mg/Kg	☼	109	75 - 125
Silver	<1.91		179	196.8		mg/Kg	☼	110	75 - 125

Lab Sample ID: 310-86881-B-1-E MSD
Matrix: Solid
Analysis Batch: 137643

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 137367

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	11.5		318	342.3		mg/Kg	☼	104	75 - 125	16	20
Barium	263	F1	159	331.1	F1	mg/Kg	☼	43	75 - 125	18	20
Cadmium	<1.91		159	164.9		mg/Kg	☼	104	75 - 125	14	20
Chromium	29.6		159	165.4		mg/Kg	☼	85	75 - 125	20	20
Lead	56.0	F2	318	343.9	F2	mg/Kg	☼	90	75 - 125	24	20
Selenium	<14.3		636	660.7		mg/Kg	☼	104	75 - 125	17	20
Silver	<1.91		159	180.5		mg/Kg	☼	113	75 - 125	9	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 310-137347/1-A
Matrix: Solid
Analysis Batch: 137711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0181		0.0181		mg/Kg		08/11/16 14:41	08/15/16 10:44	1

Lab Sample ID: LCS 310-137347/2-A
Matrix: Solid
Analysis Batch: 137711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137347

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.166	0.1488		mg/Kg		90	80 - 120		

Lab Sample ID: 310-86901-1 MS
Matrix: Soil
Analysis Batch: 137711

Client Sample ID: GP-1 (15-16')
Prep Type: Total/NA
Prep Batch: 137347

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	<0.0254		0.201	0.2001		mg/Kg	☼	99	80 - 120		

Lab Sample ID: 310-86901-1 MSD
Matrix: Soil
Analysis Batch: 137711

Client Sample ID: GP-1 (15-16')
Prep Type: Total/NA
Prep Batch: 137347

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.0254		0.184	0.1810		mg/Kg	☼	98	80 - 120	10	20

GC/MS VOA

Prep Batch: 137391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-1	GP-1 (15-16')	Total/NA	Soil	5035	
310-86901-3	GP-2 (12-13')	Total/NA	Soil	5035	
310-86901-5	GP-3 (12-14')	Total/NA	Soil	5035	
310-86901-7	GP-4 (14 1/2-16')	Total/NA	Soil	5035	
310-86901-9	MeOH Trip	Total/NA	Solid	5035	
MB 310-137391/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-137391/2-A	Lab Control Sample	Total/NA	Solid	5035	
310-86887-F-2-B MS	Matrix Spike	Total/NA	Solid	5035	
310-86887-F-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 137393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-1	GP-1 (15-16')	Total/NA	Soil	8260B	137391
310-86901-3	GP-2 (12-13')	Total/NA	Soil	8260B	137391
310-86901-5	GP-3 (12-14')	Total/NA	Soil	8260B	137391
310-86901-7	GP-4 (14 1/2-16')	Total/NA	Soil	8260B	137391
310-86901-9	MeOH Trip	Total/NA	Solid	8260B	137391
MB 310-137391/1-A	Method Blank	Total/NA	Solid	8260B	137391
LCS 310-137391/2-A	Lab Control Sample	Total/NA	Solid	8260B	137391
310-86887-F-2-B MS	Matrix Spike	Total/NA	Solid	8260B	137391
310-86887-F-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	137391

Analysis Batch: 137589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-2	GP-1	Total/NA	Ground Water	8260B	
MB 310-137589/8	Method Blank	Total/NA	Water	8260B	
LCS 310-137589/6	Lab Control Sample	Total/NA	Water	8260B	
LCS 310-137589/7	Lab Control Sample	Total/NA	Water	8260B	
310-86899-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
310-86899-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 137592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-4	GP-2	Total/NA	Ground Water	8260B	
310-86901-6	GP-3	Total/NA	Ground Water	8260B	
310-86901-8	GP-4	Total/NA	Ground Water	8260B	
310-86901-10	GW Trip	Total/NA	Ground Water	8260B	
MB 310-137592/8	Method Blank	Total/NA	Water	8260B	
LCS 310-137592/6	Lab Control Sample	Total/NA	Water	8260B	
LCS 310-137592/7	Lab Control Sample	Total/NA	Water	8260B	
310-86913-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
310-86913-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 137340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-1	GP-1 (15-16')	Total/NA	Soil	3546	
310-86901-3	GP-2 (12-13')	Total/NA	Soil	3546	
310-86901-5	GP-3 (12-14')	Total/NA	Soil	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 137340 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-7	GP-4 (14 1/2-16')	Total/NA	Soil	3546	
MB 310-137340/1-A	Method Blank	Total/NA	Solid	3546	
LCS 310-137340/2-A	Lab Control Sample	Total/NA	Solid	3546	
310-86901-1 MS	GP-1 (15-16')	Total/NA	Soil	3546	
310-86901-1 MSD	GP-1 (15-16')	Total/NA	Soil	3546	

Analysis Batch: 137421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-1	GP-1 (15-16')	Total/NA	Soil	8270D SIM	137340
310-86901-3	GP-2 (12-13')	Total/NA	Soil	8270D SIM	137340
310-86901-5	GP-3 (12-14')	Total/NA	Soil	8270D SIM	137340
310-86901-7	GP-4 (14 1/2-16')	Total/NA	Soil	8270D SIM	137340
MB 310-137340/1-A	Method Blank	Total/NA	Solid	8270D SIM	137340
LCS 310-137340/2-A	Lab Control Sample	Total/NA	Solid	8270D SIM	137340
310-86901-1 MS	GP-1 (15-16')	Total/NA	Soil	8270D SIM	137340
310-86901-1 MSD	GP-1 (15-16')	Total/NA	Soil	8270D SIM	137340

GC VOA

Analysis Batch: 137425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-2	GP-1	Total/NA	Ground Water	WI-GRO	
310-86901-4	GP-2	Total/NA	Ground Water	WI-GRO	
310-86901-6	GP-3	Total/NA	Ground Water	WI-GRO	
310-86901-8	GP-4	Total/NA	Ground Water	WI-GRO	
MB 310-137425/4	Method Blank	Total/NA	Water	WI-GRO	
LCS 310-137425/8	Lab Control Sample	Total/NA	Water	WI-GRO	
LCSD 310-137425/30	Lab Control Sample Dup	Total/NA	Water	WI-GRO	

Prep Batch: 137502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-1	GP-1 (15-16')	Total/NA	Soil	WI GRO	
310-86901-3	GP-2 (12-13')	Total/NA	Soil	WI GRO	
310-86901-5	GP-3 (12-14')	Total/NA	Soil	WI GRO	
310-86901-7	GP-4 (14 1/2-16')	Total/NA	Soil	WI GRO	
MB 310-137502/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-137502/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 310-137502/25-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 137539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-1	GP-1 (15-16')	Total/NA	Soil	WI-GRO	137502
310-86901-3	GP-2 (12-13')	Total/NA	Soil	WI-GRO	137502
310-86901-5	GP-3 (12-14')	Total/NA	Soil	WI-GRO	137502
310-86901-7	GP-4 (14 1/2-16')	Total/NA	Soil	WI-GRO	137502
MB 310-137502/1-A	Method Blank	Total/NA	Solid	WI-GRO	137502
LCS 310-137502/2-A	Lab Control Sample	Total/NA	Solid	WI-GRO	137502
LCSD 310-137502/25-A	Lab Control Sample Dup	Total/NA	Solid	WI-GRO	137502

GC Semi VOA

Prep Batch: 137329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-1	GP-1 (15-16')	Total/NA	Soil	3550B	
310-86901-3	GP-2 (12-13')	Total/NA	Soil	3550B	
310-86901-5	GP-3 (12-14')	Total/NA	Soil	3550B	
310-86901-7	GP-4 (14 1/2-16')	Total/NA	Soil	3550B	
MB 310-137329/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-137329/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-137329/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

Prep Batch: 137353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-2	GP-1	Total/NA	Ground Water	3510C	
310-86901-4	GP-2	Total/NA	Ground Water	3510C	
310-86901-6	GP-3	Total/NA	Ground Water	3510C	
310-86901-8	GP-4	Total/NA	Ground Water	3510C	
MB 310-137353/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-137353/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-137353/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 137456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-1	GP-1 (15-16')	Total/NA	Soil	WI-DRO	137329
310-86901-3	GP-2 (12-13')	Total/NA	Soil	WI-DRO	137329
310-86901-5	GP-3 (12-14')	Total/NA	Soil	WI-DRO	137329
310-86901-7	GP-4 (14 1/2-16')	Total/NA	Soil	WI-DRO	137329
MB 310-137329/1-A	Method Blank	Total/NA	Solid	WI-DRO	137329
LCS 310-137329/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	137329
LCSD 310-137329/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	137329

Analysis Batch: 137457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-2	GP-1	Total/NA	Ground Water	WI-DRO	137353
310-86901-4	GP-2	Total/NA	Ground Water	WI-DRO	137353
310-86901-6	GP-3	Total/NA	Ground Water	WI-DRO	137353
310-86901-8	GP-4	Total/NA	Ground Water	WI-DRO	137353
MB 310-137353/1-A	Method Blank	Total/NA	Water	WI-DRO	137353
LCS 310-137353/2-A	Lab Control Sample	Total/NA	Water	WI-DRO	137353
LCSD 310-137353/3-A	Lab Control Sample Dup	Total/NA	Water	WI-DRO	137353

Metals

Prep Batch: 137347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-1	GP-1 (15-16')	Total/NA	Soil	7471B	
310-86901-3	GP-2 (12-13')	Total/NA	Soil	7471B	
310-86901-5	GP-3 (12-14')	Total/NA	Soil	7471B	
310-86901-7	GP-4 (14 1/2-16')	Total/NA	Soil	7471B	
MB 310-137347/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 310-137347/2-A	Lab Control Sample	Total/NA	Solid	7471B	
310-86901-1 MS	GP-1 (15-16')	Total/NA	Soil	7471B	
310-86901-1 MSD	GP-1 (15-16')	Total/NA	Soil	7471B	

Metals (Continued)

Prep Batch: 137367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-1	GP-1 (15-16')	Total/NA	Soil	3050B	
310-86901-3	GP-2 (12-13')	Total/NA	Soil	3050B	
310-86901-5	GP-3 (12-14')	Total/NA	Soil	3050B	
310-86901-7	GP-4 (14 1/2-16')	Total/NA	Soil	3050B	
MB 310-137367/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 310-137367/2-A	Lab Control Sample	Total/NA	Solid	3050B	
310-86881-B-1-D MS	Matrix Spike	Total/NA	Solid	3050B	
310-86881-B-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 137643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-1	GP-1 (15-16')	Total/NA	Soil	6010C	137367
310-86901-3	GP-2 (12-13')	Total/NA	Soil	6010C	137367
310-86901-5	GP-3 (12-14')	Total/NA	Soil	6010C	137367
310-86901-7	GP-4 (14 1/2-16')	Total/NA	Soil	6010C	137367
MB 310-137367/1-A	Method Blank	Total/NA	Solid	6010C	137367
LCS 310-137367/2-A	Lab Control Sample	Total/NA	Solid	6010C	137367
310-86881-B-1-D MS	Matrix Spike	Total/NA	Solid	6010C	137367
310-86881-B-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010C	137367

Analysis Batch: 137711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-86901-1	GP-1 (15-16')	Total/NA	Soil	7471B	137347
310-86901-3	GP-2 (12-13')	Total/NA	Soil	7471B	137347
310-86901-5	GP-3 (12-14')	Total/NA	Soil	7471B	137347
310-86901-7	GP-4 (14 1/2-16')	Total/NA	Soil	7471B	137347
MB 310-137347/1-A	Method Blank	Total/NA	Solid	7471B	137347
LCS 310-137347/2-A	Lab Control Sample	Total/NA	Solid	7471B	137347
310-86901-1 MS	GP-1 (15-16')	Total/NA	Soil	7471B	137347
310-86901-1 MSD	GP-1 (15-16')	Total/NA	Soil	7471B	137347

Lab Chronicle

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-1 (15-16')

Lab Sample ID: 310-86901-1

Date Collected: 08/10/16 09:50
Matrix: Soil
Date Received: 08/11/16 09:40
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			137391	08/12/16 06:50	TCH	TAL CF
Total/NA	Analysis	8260B		1	137393	08/12/16 16:18	TCH	TAL CF
Total/NA	Prep	3546			137340	08/11/16 13:52	AJM	TAL CF
Total/NA	Analysis	8270D SIM		1	137421	08/12/16 12:09	DMD	TAL CF
Total/NA	Prep	WI GRO			137502	08/12/16 15:15	CMM	TAL CF
Total/NA	Analysis	WI-GRO		1	137539	08/13/16 05:10	CMM	TAL CF
Total/NA	Prep	3550B			137329	08/11/16 13:32	AJM	TAL CF
Total/NA	Analysis	WI-DRO		1	137456	08/12/16 15:59	LLS	TAL CF
Total/NA	Prep	3050B			137367	08/12/16 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		1	137643	08/12/16 20:49	OAD	TAL CF
Total/NA	Prep	7471B			137347	08/11/16 14:41	SAD	TAL CF
Total/NA	Analysis	7471B		1	137711	08/15/16 10:47	OAD	TAL CF

Client Sample ID: GP-1

Lab Sample ID: 310-86901-2

Date Collected: 08/10/16 10:20
Matrix: Ground Water
Date Received: 08/11/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	137589	08/14/16 15:33	SJN	TAL CF
Total/NA	Analysis	WI-GRO		1	137425	08/12/16 15:09	CMM	TAL CF
Total/NA	Prep	3510C			137353	08/11/16 14:50	DEM1	TAL CF
Total/NA	Analysis	WI-DRO		1	137457	08/12/16 19:35	LLS	TAL CF

Client Sample ID: GP-2 (12-13')

Lab Sample ID: 310-86901-3

Date Collected: 08/10/16 10:45
Matrix: Soil
Date Received: 08/11/16 09:40
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			137391	08/12/16 06:50	TCH	TAL CF
Total/NA	Analysis	8260B		1	137393	08/12/16 16:42	TCH	TAL CF
Total/NA	Prep	3546			137340	08/11/16 13:52	AJM	TAL CF
Total/NA	Analysis	8270D SIM		1	137421	08/12/16 12:31	DMD	TAL CF
Total/NA	Prep	WI GRO			137502	08/12/16 15:15	CMM	TAL CF
Total/NA	Analysis	WI-GRO		1	137539	08/13/16 05:39	CMM	TAL CF
Total/NA	Prep	3550B			137329	08/11/16 13:32	AJM	TAL CF
Total/NA	Analysis	WI-DRO		1	137456	08/12/16 16:37	LLS	TAL CF
Total/NA	Prep	3050B			137367	08/12/16 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		1	137643	08/12/16 21:06	OAD	TAL CF
Total/NA	Prep	7471B			137347	08/11/16 14:41	SAD	TAL CF
Total/NA	Analysis	7471B		1	137711	08/15/16 10:55	OAD	TAL CF

Client Sample ID: GP-2

Lab Sample ID: 310-86901-4

Date Collected: 08/10/16 11:10

Matrix: Ground Water

Date Received: 08/11/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	137592	08/14/16 21:57	SJN	TAL CF
Total/NA	Analysis	WI-GRO		1	137425	08/12/16 19:19	CMM	TAL CF
Total/NA	Prep	3510C			137353	08/11/16 14:50	DEM1	TAL CF
Total/NA	Analysis	WI-DRO		1	137457	08/12/16 20:13	LLS	TAL CF

Client Sample ID: GP-3 (12-14')

Lab Sample ID: 310-86901-5

Date Collected: 08/10/16 12:00

Matrix: Soil

Date Received: 08/11/16 09:40

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			137391	08/12/16 06:50	TCH	TAL CF
Total/NA	Analysis	8260B		1	137393	08/12/16 17:06	TCH	TAL CF
Total/NA	Prep	3546			137340	08/11/16 13:52	AJM	TAL CF
Total/NA	Analysis	8270D SIM		10	137421	08/12/16 12:53	DMD	TAL CF
Total/NA	Prep	WI GRO			137502	08/12/16 15:15	CMM	TAL CF
Total/NA	Analysis	WI-GRO		1	137539	08/13/16 06:08	CMM	TAL CF
Total/NA	Prep	3550B			137329	08/11/16 13:32	AJM	TAL CF
Total/NA	Analysis	WI-DRO		1	137456	08/12/16 23:31	LLS	TAL CF
Total/NA	Prep	3050B			137367	08/12/16 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		1	137643	08/12/16 21:11	OAD	TAL CF
Total/NA	Prep	7471B			137347	08/11/16 14:41	SAD	TAL CF
Total/NA	Analysis	7471B		1	137711	08/15/16 10:57	OAD	TAL CF

Client Sample ID: GP-3

Lab Sample ID: 310-86901-6

Date Collected: 08/10/16 12:25

Matrix: Ground Water

Date Received: 08/11/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	137592	08/14/16 22:19	SJN	TAL CF
Total/NA	Analysis	WI-GRO		1	137425	08/12/16 15:39	CMM	TAL CF
Total/NA	Prep	3510C			137353	08/11/16 14:50	DEM1	TAL CF
Total/NA	Analysis	WI-DRO		1	137457	08/12/16 20:50	LLS	TAL CF

Client Sample ID: GP-4 (14 1/2-16')

Lab Sample ID: 310-86901-7

Date Collected: 08/10/16 13:30

Matrix: Soil

Date Received: 08/11/16 09:40

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			137391	08/12/16 06:50	TCH	TAL CF
Total/NA	Analysis	8260B		1	137393	08/12/16 17:30	TCH	TAL CF
Total/NA	Prep	3546			137340	08/11/16 13:52	AJM	TAL CF
Total/NA	Analysis	8270D SIM		1	137421	08/12/16 13:14	DMD	TAL CF
Total/NA	Prep	WI GRO			137502	08/12/16 15:15	CMM	TAL CF

Lab Chronicle

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Client Sample ID: GP-4 (14 1/2-16')

Lab Sample ID: 310-86901-7

Date Collected: 08/10/16 13:30
Matrix: Soil
Date Received: 08/11/16 09:40
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WI-GRO		1	137539	08/13/16 06:37	CMM	TAL CF
Total/NA	Prep	3550B			137329	08/11/16 13:32	AJM	TAL CF
Total/NA	Analysis	WI-DRO		1	137456	08/12/16 17:15	LLS	TAL CF
Total/NA	Prep	3050B			137367	08/12/16 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		1	137643	08/12/16 21:15	OAD	TAL CF
Total/NA	Prep	7471B			137347	08/11/16 14:41	SAD	TAL CF
Total/NA	Analysis	7471B		1	137711	08/15/16 10:58	OAD	TAL CF

Client Sample ID: GP-4

Lab Sample ID: 310-86901-8

Date Collected: 08/10/16 14:00
Matrix: Ground Water
Date Received: 08/11/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	137592	08/14/16 22:40	SJN	TAL CF
Total/NA	Analysis	WI-GRO		1	137425	08/12/16 16:08	CMM	TAL CF
Total/NA	Prep	3510C			137353	08/11/16 14:50	DEM1	TAL CF
Total/NA	Analysis	WI-DRO		1	137457	08/12/16 21:28	LLS	TAL CF

Client Sample ID: MeOH Trip

Lab Sample ID: 310-86901-9

Date Collected: 08/10/16 00:00
Matrix: Solid
Date Received: 08/11/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			137391	08/12/16 06:50	TCH	TAL CF
Total/NA	Analysis	8260B		1	137393	08/12/16 17:54	TCH	TAL CF

Client Sample ID: GW Trip

Lab Sample ID: 310-86901-10

Date Collected: 08/10/16 00:00
Matrix: Ground Water
Date Received: 08/11/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	137592	08/14/16 23:01	SJN	TAL CF

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

Certification Summary

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Laboratory: TestAmerica Cedar Falls

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

Authority	Program	EPA Region	Certification ID	Expiration Date
AIHA-LAP, LLC	IHLAP		101044	11-01-16
Georgia	State Program	4	N/A	09-29-16
Illinois	NELAP	5	200024	11-29-16
Iowa	State Program	7	007	12-01-17
Kansas	NELAP	7	E-10341	01-31-16 *
Minnesota	NELAP	5	019-999-319	12-31-16
Minnesota (Petrofund)	State Program	1	3349	08-22-16
North Dakota	State Program	8	R-186	09-29-16
Oregon	NELAP	10	IA100001	09-29-16

* Certification renewal pending - certification considered valid.

Method Summary

Client: Nova Consulting Group Inc
Project/Site: Office/Warehouse - St. Paul, MN

TestAmerica Job ID: 310-86901-1
SDG: E16-2821

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CF
8270D SIM	Semivolatile Organic Compound (GC/MS SIM LL)	SW846	TAL CF
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CF
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7471B	Mercury (CVAA)	SW846	TAL CF

Protocol References:

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

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

310-86901 Chain of Custody

Cooler/Sample Receipt and Temperatur 310502

Client Information

Client: Nova Consulting

City/State: Chaska, MN | Project: Office/ Wharehouse

Receipt Information

Date/Time Received: 8/11/16 0940 | Received By: ST

Delivery Type: ☐ UPS ☒ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ TA Courier ☐ TA Field Services ☐ Client Drop-off ☐ Other:

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID: MN-B1

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 1 of ~~2~~ (3) GL

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes:* Cooler custody seals intact? ☒ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☒ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Methanol – GP-1 (15-16), GP-2 (12-13), GP-3 (12-14), GP-4 (14.5-16)

HCL – GP-2

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: ☐ NONE

Temperature Blank? ☒ Yes ☐ No ID & Bottle Type:

NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID: H | Correction Factor (°C): +0°C

Uncorrected Temp (°C): 1.9°C | Corrected Temp (°C): 1.9°C

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Cooler/Sample Receipt and Temperatur 310502

Client Information

Client: Nova Consulting

City/State: Chaska, MN | Project: Office / Warehouse

Receipt Information

Date/Time Received: 8/11/16 0940 | Received By: ST

Delivery Type: ☐ UPS ☒ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ TA Courier ☐ TA Field Services ☐ Client Drop-off ☐ Other:

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID: MN-B2

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 2 of ~~☒~~ (3) &C

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes:* Cooler custody seals intact? ☒ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☒ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Methanol - None

HCL - GP-4, GP-1, GP-3

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: ☐ NONE

Temperature Blank? ☒ Yes ☐ No ID & Bottle Type:

NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID: H | Correction Factor (°C): +0 °C

Uncorrected Temp (°C): 4.7°C | Corrected Temp (°C): 4.7 °C

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Nova Consulting

City/State: | Project:

Receipt Information

Date/Time Received: 8-11-16 9H0 | Received By: VP

Delivery Type: ☐ UPS ☑ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ TA Courier ☐ TA Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID: 3

Multiple Coolers? VP 8-11-16 ☐ Yes ☑ No *If yes:* Cooler # 3 of 3 GL 8/11

Cooler Custody Seals Present? ☑ Yes ☐ No *If yes:* Cooler custody seals intact? ☑ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☑ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Temperature Blank? ☑ Yes ☐ No ID & Bottle Type: Amber 1L HCl 6P-4

NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID: H | Correction Factor (°C): +0.0

Uncorrected Temp (°C): 3.7 | Corrected Temp (°C): 3.7

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone 319-277-2401 or 800-750-2401
Fax 319-277-2425

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring ____

Client Name: Nova Consulting Client #: ____
Address: 1107 Hazeltine Blvd. #400
City/State/Zip Code: Chaska, MN 55318
Project Manager: Eric Halpaus
Email Address: Eric.halpaus@novaconsulting.com
Telephone Number: 612-819-1125 Fax: ____
Sampler Name: (Print Name) MDH
Sampler Signature: Mik Hayes

Project Name: Office/Wharehouse
Project #: E16-2821
Site/Location ID: St. Paul State: MN
Report To: ____
Invoice To: ____
Quote #: ____ PO#: ____

TAT: ✓ Standard; ___ Rush (surcharges may apply)
Date Needed: ____
Fax Results: Y N
Email Results: Y N

QC Deliverables: ___ None; ___ Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other: ____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify, Other	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Analyze For: DRO	GRO/VOCs	PAHs	RCRA Metals	Solids	REMARKS
GP-1 (15'-16')	8/10/16	9:50	G	—	S					1	3		X	X	X	X	X	
GP-1		10:20		N	GW		4				1		X	X	X			
GP-2 (12'-13')		10:45		—	S					1	3		X	X	X	X	X	
GP-2		11:10		N	GW		4				1		X	X	X			
GP-3 (12'-14')		12:00		—	S					1	3		X	X	X	X	X	
GP-3		12:25		N	GW		4				1		X	X	X			
GP-4 (14½'-16')		13:30		—	S					1	3		X	X	X	X	X	
GP-4		14:00	↓	N	GW		4				1		X	X	X			
MeOH Trip		—																
GW Trip	↓	—																

Special Instructions: 150

LABORATORY COMMENTS:

	Date	Time		Date	Time
Relinquished By: Mik Hayes	8/16/16		Received By:	8-16-16	
Relinquished By:	8-16-16	19	Received By: Brita Ruy	8.11.16	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAL-0033 (0708)

Page ____ of ____

Login Sample Receipt Checklist

Client: Nova Consulting Group Inc

Job Number: 310-86901-1
SDG Number: E16-2821

Login Number: 86901
List Number: 1
Creator: Berry, Brita K

List Source: TestAmerica Cedar Falls

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-34810-1
TestAmerica Sample Delivery Group: 200-34810-1
Client Project/Site: Office Warehouse Bldg

For:
Nova Consulting Group Inc
1107 Hazeltine Boulevard, #400
Chaska, Minnesota 55318

Attn: Eric Halpaus

Authorized for release by:
8/18/2016 3:17:43 PM

Kathryn Kelly, Project Manager I
(802)660-1990
kathryn.kelly@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
E	Result exceeded calibration range.

Air - GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

Glossary

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

Job ID: 200-34810-1

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: Nova Consulting Group Inc

Project: Office Warehouse Bldg

Report Number: 200-34810-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 08/12/2016 and 08/15/2016; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS
Samples SG-2, SG-1, SG-3, SS-1, SS-2, SS-3, SS-5, SS-6 and SS-4 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 08/16/2016.

Samples SG-2[2X], SG-1[2.5X], SG-3[17.9X], SS-1[3.51X], SS-2[2X], SS-3[2.5X], SS-5[5.56X], SS-6[15.39X] and SS-4[2.5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The concentration of one or more analytes associated with the following sample exceeded the instrument calibration range: SS-6. These analytes have been qualified; however, the peak(s) did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

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

Detection Summary

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Client Sample ID: SG-2 — Lab Sample ID: 200-34810-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Propylene	24		10		ppb v/v	2		TO-15	Total/NA
1,3-Butadiene	1.6		0.40		ppb v/v	2		TO-15	Total/NA
Ethanol	10		10		ppb v/v	2		TO-15	Total/NA
Acetone	51		10		ppb v/v	2		TO-15	Total/NA
Isopropyl alcohol	22		10		ppb v/v	2		TO-15	Total/NA
n-Hexane	0.83		0.40		ppb v/v	2		TO-15	Total/NA
Methyl Ethyl Ketone	3.4		1.0		ppb v/v	2		TO-15	Total/NA
Benzene	0.79		0.40		ppb v/v	2		TO-15	Total/NA
n-Heptane	0.64		0.40		ppb v/v	2		TO-15	Total/NA
Toluene	7.7		0.40		ppb v/v	2		TO-15	Total/NA
Ethylbenzene	3.0		0.40		ppb v/v	2		TO-15	Total/NA
m,p-Xylene	6.7		1.0		ppb v/v	2		TO-15	Total/NA
Xylene, o-	2.9		0.40		ppb v/v	2		TO-15	Total/NA
Styrene	0.56		0.40		ppb v/v	2		TO-15	Total/NA
4-Ethyltoluene	1.2		0.40		ppb v/v	2		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.4		0.40		ppb v/v	2		TO-15	Total/NA
1,2,4-Trimethylbenzene	5.4		0.40		ppb v/v	2		TO-15	Total/NA
1,2-Dichlorobenzene	0.70		0.40		ppb v/v	2		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Propylene	42		17		ug/m3	2		TO-15	Total/NA
1,3-Butadiene	3.6		0.88		ug/m3	2		TO-15	Total/NA
Ethanol	19		19		ug/m3	2		TO-15	Total/NA
Acetone	120		24		ug/m3	2		TO-15	Total/NA
Isopropyl alcohol	55		25		ug/m3	2		TO-15	Total/NA
n-Hexane	2.9		1.4		ug/m3	2		TO-15	Total/NA
Methyl Ethyl Ketone	10		2.9		ug/m3	2		TO-15	Total/NA
Benzene	2.5		1.3		ug/m3	2		TO-15	Total/NA
n-Heptane	2.6		1.6		ug/m3	2		TO-15	Total/NA
Toluene	29		1.5		ug/m3	2		TO-15	Total/NA
Ethylbenzene	13		1.7		ug/m3	2		TO-15	Total/NA
m,p-Xylene	29		4.3		ug/m3	2		TO-15	Total/NA
Xylene, o-	13		1.7		ug/m3	2		TO-15	Total/NA
Styrene	2.4		1.7		ug/m3	2		TO-15	Total/NA
4-Ethyltoluene	5.9		2.0		ug/m3	2		TO-15	Total/NA
1,3,5-Trimethylbenzene	7.1		2.0		ug/m3	2		TO-15	Total/NA
1,2,4-Trimethylbenzene	27		2.0		ug/m3	2		TO-15	Total/NA
1,2-Dichlorobenzene	4.2		2.4		ug/m3	2		TO-15	Total/NA

Client Sample ID: SG-3 — Lab Sample ID: 200-34810-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Propylene	110		90		ppb v/v	17.9		TO-15	Total/NA
Chloromethane	15		9.0		ppb v/v	17.9		TO-15	Total/NA
1,3-Butadiene	5.6		3.6		ppb v/v	17.9		TO-15	Total/NA
Acetone	390		90		ppb v/v	17.9		TO-15	Total/NA
Methyl Ethyl Ketone	35		9.0		ppb v/v	17.9		TO-15	Total/NA
Toluene	12		3.6		ppb v/v	17.9		TO-15	Total/NA
Ethylbenzene	4.5		3.6		ppb v/v	17.9		TO-15	Total/NA
m,p-Xylene	9.8		9.0		ppb v/v	17.9		TO-15	Total/NA
Xylene, o-	4.3		3.6		ppb v/v	17.9		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SG-3 (Continued) — Lab Sample ID: 200-34810-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	5.9		3.6		ppb v/v	17.9		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Propylene	190		150		ug/m3	17.9		TO-15	Total/NA
Chloromethane	30		18		ug/m3	17.9		TO-15	Total/NA
1,3-Butadiene	12		7.9		ug/m3	17.9		TO-15	Total/NA
Acetone	930		210		ug/m3	17.9		TO-15	Total/NA
Methyl Ethyl Ketone	100		26		ug/m3	17.9		TO-15	Total/NA
Toluene	44		13		ug/m3	17.9		TO-15	Total/NA
Ethylbenzene	20		16		ug/m3	17.9		TO-15	Total/NA
m,p-Xylene	42		39		ug/m3	17.9		TO-15	Total/NA
Xylene, o-	19		16		ug/m3	17.9		TO-15	Total/NA
1,2,4-Trimethylbenzene	29		18		ug/m3	17.9		TO-15	Total/NA

Client Sample ID: SS-1 — Lab Sample ID: 200-34810-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	35		18		ppb v/v	3.51		TO-15	Total/NA
Isopropyl alcohol	65		18		ppb v/v	3.51		TO-15	Total/NA
Carbon disulfide	1.9		1.8		ppb v/v	3.51		TO-15	Total/NA
Methyl Ethyl Ketone	3.9		1.8		ppb v/v	3.51		TO-15	Total/NA
1,1,1-Trichloroethane	5.0		0.70		ppb v/v	3.51		TO-15	Total/NA
Benzene	0.78		0.70		ppb v/v	3.51		TO-15	Total/NA
Toluene	1.1		0.70		ppb v/v	3.51		TO-15	Total/NA
Tetrachloroethene	16		0.70		ppb v/v	3.51		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	82		42		ug/m3	3.51		TO-15	Total/NA
Isopropyl alcohol	160		43		ug/m3	3.51		TO-15	Total/NA
Carbon disulfide	6.0		5.5		ug/m3	3.51		TO-15	Total/NA
Methyl Ethyl Ketone	11		5.2		ug/m3	3.51		TO-15	Total/NA
1,1,1-Trichloroethane	27		3.8		ug/m3	3.51		TO-15	Total/NA
Benzene	2.5		2.2		ug/m3	3.51		TO-15	Total/NA
Toluene	4.0		2.6		ug/m3	3.51		TO-15	Total/NA
Tetrachloroethene	110		4.8		ug/m3	3.51		TO-15	Total/NA

Client Sample ID: SS-2 — Lab Sample ID: 200-34810-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.8		1.0		ppb v/v	2		TO-15	Total/NA
Trichlorofluoromethane	1.5		0.40		ppb v/v	2		TO-15	Total/NA
Ethanol	13		10		ppb v/v	2		TO-15	Total/NA
Acetone	31		10		ppb v/v	2		TO-15	Total/NA
Isopropyl alcohol	41		10		ppb v/v	2		TO-15	Total/NA
Methyl Ethyl Ketone	1.5		1.0		ppb v/v	2		TO-15	Total/NA
1,1,1-Trichloroethane	1.7		0.40		ppb v/v	2		TO-15	Total/NA
Toluene	0.47		0.40		ppb v/v	2		TO-15	Total/NA
Tetrachloroethene	3.4		0.40		ppb v/v	2		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	14		4.9		ug/m3	2		TO-15	Total/NA
Trichlorofluoromethane	8.5		2.2		ug/m3	2		TO-15	Total/NA
Ethanol	24		19		ug/m3	2		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Client Sample ID: SS-2 (Continued) — Lab Sample ID: 200-34810-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	74		24		ug/m3	2		TO-15	Total/NA
Isopropyl alcohol	100		25		ug/m3	2		TO-15	Total/NA
Methyl Ethyl Ketone	4.5		2.9		ug/m3	2		TO-15	Total/NA
1,1,1-Trichloroethane	9.3		2.2		ug/m3	2		TO-15	Total/NA
Toluene	1.8		1.5		ug/m3	2		TO-15	Total/NA
Tetrachloroethene	23		2.7		ug/m3	2		TO-15	Total/NA

Client Sample ID: SS-3 — Lab Sample ID: 200-34810-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.3		1.3		ppb v/v	2.5		TO-15	Total/NA
Ethanol	21		13		ppb v/v	2.5		TO-15	Total/NA
Acetone	34		13		ppb v/v	2.5		TO-15	Total/NA
Isopropyl alcohol	52		13		ppb v/v	2.5		TO-15	Total/NA
Methyl Ethyl Ketone	1.3		1.3		ppb v/v	2.5		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	6.3		6.2		ug/m3	2.5		TO-15	Total/NA
Ethanol	40		24		ug/m3	2.5		TO-15	Total/NA
Acetone	81		30		ug/m3	2.5		TO-15	Total/NA
Isopropyl alcohol	130		31		ug/m3	2.5		TO-15	Total/NA
Methyl Ethyl Ketone	3.7		3.7		ug/m3	2.5		TO-15	Total/NA

Client Sample ID: SS-5 — Lab Sample ID: 200-34810-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	28		28		ppb v/v	5.56		TO-15	Total/NA
Acetone	54		28		ppb v/v	5.56		TO-15	Total/NA
Isopropyl alcohol	110		28		ppb v/v	5.56		TO-15	Total/NA
Methyl Ethyl Ketone	2.9		2.8		ppb v/v	5.56		TO-15	Total/NA
Tetrachloroethene	1.2		1.1		ppb v/v	5.56		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	53		52		ug/m3	5.56		TO-15	Total/NA
Acetone	130		66		ug/m3	5.56		TO-15	Total/NA
Isopropyl alcohol	270		68		ug/m3	5.56		TO-15	Total/NA
Methyl Ethyl Ketone	8.5		8.2		ug/m3	5.56		TO-15	Total/NA
Tetrachloroethene	8.3		7.5		ug/m3	5.56		TO-15	Total/NA

Client Sample ID: SS-6 — Lab Sample ID: 200-34810-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Butadiene	3.8		3.1		ppb v/v	15.39		TO-15	Total/NA
Acetone	5300	E	77		ppb v/v	15.39		TO-15	Total/NA
Isopropyl alcohol	11000	E	77		ppb v/v	15.39		TO-15	Total/NA
Carbon disulfide	7.7		7.7		ppb v/v	15.39		TO-15	Total/NA
n-Hexane	3.2		3.1		ppb v/v	15.39		TO-15	Total/NA
Methyl Ethyl Ketone	8.8		7.7		ppb v/v	15.39		TO-15	Total/NA
Benzene	5.3		3.1		ppb v/v	15.39		TO-15	Total/NA
Toluene	6.4		3.1		ppb v/v	15.39		TO-15	Total/NA
Tetrachloroethene	14		3.1		ppb v/v	15.39		TO-15	Total/NA
Ethylbenzene	15		3.1		ppb v/v	15.39		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Client Sample ID: SS-6 (Continued) — Lab Sample ID: 200-34810-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m,p-Xylene	57		7.7		ppb v/v	15.39		TO-15	Total/NA
Xylene, o-	19		3.1		ppb v/v	15.39		TO-15	Total/NA
4-Ethyltoluene	12		3.1		ppb v/v	15.39		TO-15	Total/NA
1,3,5-Trimethylbenzene	18		3.1		ppb v/v	15.39		TO-15	Total/NA
1,2,4-Trimethylbenzene	58		3.1		ppb v/v	15.39		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Butadiene	8.5		6.8		ug/m3	15.39		TO-15	Total/NA
Acetone	13000	E	180		ug/m3	15.39		TO-15	Total/NA
Isopropyl alcohol	28000	E	190		ug/m3	15.39		TO-15	Total/NA
Carbon disulfide	24		24		ug/m3	15.39		TO-15	Total/NA
n-Hexane	11		11		ug/m3	15.39		TO-15	Total/NA
Methyl Ethyl Ketone	26		23		ug/m3	15.39		TO-15	Total/NA
Benzene	17		9.8		ug/m3	15.39		TO-15	Total/NA
Toluene	24		12		ug/m3	15.39		TO-15	Total/NA
Tetrachloroethene	92		21		ug/m3	15.39		TO-15	Total/NA
Ethylbenzene	67		13		ug/m3	15.39		TO-15	Total/NA
m,p-Xylene	250		33		ug/m3	15.39		TO-15	Total/NA
Xylene, o-	82		13		ug/m3	15.39		TO-15	Total/NA
4-Ethyltoluene	58		15		ug/m3	15.39		TO-15	Total/NA
1,3,5-Trimethylbenzene	89		15		ug/m3	15.39		TO-15	Total/NA
1,2,4-Trimethylbenzene	290		15		ug/m3	15.39		TO-15	Total/NA

Client Sample ID: SS-4 — Lab Sample ID: 200-34810-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	15		13		ppb v/v	2.5		TO-15	Total/NA
Acetone	34		13		ppb v/v	2.5		TO-15	Total/NA
Isopropyl alcohol	60		13		ppb v/v	2.5		TO-15	Total/NA
Carbon disulfide	2.5		1.3		ppb v/v	2.5		TO-15	Total/NA
n-Hexane	0.55		0.50		ppb v/v	2.5		TO-15	Total/NA
Methyl Ethyl Ketone	3.8		1.3		ppb v/v	2.5		TO-15	Total/NA
Toluene	0.58		0.50		ppb v/v	2.5		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	29		24		ug/m3	2.5		TO-15	Total/NA
Acetone	81		30		ug/m3	2.5		TO-15	Total/NA
Isopropyl alcohol	150		31		ug/m3	2.5		TO-15	Total/NA
Carbon disulfide	7.9		3.9		ug/m3	2.5		TO-15	Total/NA
n-Hexane	1.9		1.8		ug/m3	2.5		TO-15	Total/NA
Methyl Ethyl Ketone	11		3.7		ug/m3	2.5		TO-15	Total/NA
Toluene	2.2		1.9		ug/m3	2.5		TO-15	Total/NA

Client Sample ID: SG-1 — Lab Sample ID: 200-34851-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Propylene	48		13		ppb v/v	2.5		TO-15	Total/NA
1,3-Butadiene	4.2		0.50		ppb v/v	2.5		TO-15	Total/NA
Acetone	83		13		ppb v/v	2.5		TO-15	Total/NA
Carbon disulfide	2.6		1.3		ppb v/v	2.5		TO-15	Total/NA
n-Hexane	1.9		0.50		ppb v/v	2.5		TO-15	Total/NA
Methyl Ethyl Ketone	7.2		1.3		ppb v/v	2.5		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SG-1 (Continued)

Lab Sample ID: 200-34851-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	0.65		0.50		ppb v/v	2.5		TO-15	Total/NA
Benzene	1.9		0.50		ppb v/v	2.5		TO-15	Total/NA
n-Heptane	1.4		0.50		ppb v/v	2.5		TO-15	Total/NA
Toluene	9.9		0.50		ppb v/v	2.5		TO-15	Total/NA
Ethylbenzene	4.0		0.50		ppb v/v	2.5		TO-15	Total/NA
m,p-Xylene	8.7		1.3		ppb v/v	2.5		TO-15	Total/NA
Xylene, o-	3.7		0.50		ppb v/v	2.5		TO-15	Total/NA
Styrene	0.80		0.50		ppb v/v	2.5		TO-15	Total/NA
4-Ethyltoluene	1.4		0.50		ppb v/v	2.5		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.8		0.50		ppb v/v	2.5		TO-15	Total/NA
1,2,4-Trimethylbenzene	6.2		0.50		ppb v/v	2.5		TO-15	Total/NA
1,2-Dichlorobenzene	0.69		0.50		ppb v/v	2.5		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Propylene	82		22		ug/m3	2.5		TO-15	Total/NA
1,3-Butadiene	9.2		1.1		ug/m3	2.5		TO-15	Total/NA
Acetone	200		30		ug/m3	2.5		TO-15	Total/NA
Carbon disulfide	8.1		3.9		ug/m3	2.5		TO-15	Total/NA
n-Hexane	6.8		1.8		ug/m3	2.5		TO-15	Total/NA
Methyl Ethyl Ketone	21		3.7		ug/m3	2.5		TO-15	Total/NA
Cyclohexane	2.2		1.7		ug/m3	2.5		TO-15	Total/NA
Benzene	6.0		1.6		ug/m3	2.5		TO-15	Total/NA
n-Heptane	5.7		2.0		ug/m3	2.5		TO-15	Total/NA
Toluene	37		1.9		ug/m3	2.5		TO-15	Total/NA
Ethylbenzene	17		2.2		ug/m3	2.5		TO-15	Total/NA
m,p-Xylene	38		5.4		ug/m3	2.5		TO-15	Total/NA
Xylene, o-	16		2.2		ug/m3	2.5		TO-15	Total/NA
Styrene	3.4		2.1		ug/m3	2.5		TO-15	Total/NA
4-Ethyltoluene	7.0		2.5		ug/m3	2.5		TO-15	Total/NA
1,3,5-Trimethylbenzene	8.7		2.5		ug/m3	2.5		TO-15	Total/NA
1,2,4-Trimethylbenzene	30		2.5		ug/m3	2.5		TO-15	Total/NA
1,2-Dichlorobenzene	4.2		3.0		ug/m3	2.5		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SG-2

Lab Sample ID: 200-34810-1

Date Collected: 08/10/16 12:15
Matrix: Air
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	**24**		10		ppb v/v			08/16/16 15:23	2
Dichlorodifluoromethane	1.0	U	1.0		ppb v/v			08/16/16 15:23	2
1,2-Dichlorotetrafluoroethane	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Chloromethane	1.0	U	1.0		ppb v/v			08/16/16 15:23	2
Vinyl chloride	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
1,3-Butadiene	**1.6**		0.40		ppb v/v			08/16/16 15:23	2
Bromomethane	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Chloroethane	1.0	U	1.0		ppb v/v			08/16/16 15:23	2
Trichlorofluoromethane	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Ethanol	**10**		10		ppb v/v			08/16/16 15:23	2
Freon TF	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
1,1-Dichloroethene	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Acetone	**51**		10		ppb v/v			08/16/16 15:23	2
Isopropyl alcohol	**22**		10		ppb v/v			08/16/16 15:23	2
Carbon disulfide	1.0	U	1.0		ppb v/v			08/16/16 15:23	2
Methylene Chloride	1.0	U	1.0		ppb v/v			08/16/16 15:23	2
Methyl tert-butyl ether	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
trans-1,2-Dichloroethene	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
n-Hexane	**0.83**		0.40		ppb v/v			08/16/16 15:23	2
1,1-Dichloroethane	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Vinyl acetate	10	U	10		ppb v/v			08/16/16 15:23	2
Ethyl acetate	10	U	10		ppb v/v			08/16/16 15:23	2
Methyl Ethyl Ketone	**3.4**		1.0		ppb v/v			08/16/16 15:23	2
cis-1,2-Dichloroethene	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Chloroform	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Tetrahydrofuran	10	U	10		ppb v/v			08/16/16 15:23	2
1,1,1-Trichloroethane	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Cyclohexane	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Carbon tetrachloride	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Benzene	**0.79**		0.40		ppb v/v			08/16/16 15:23	2
1,2-Dichloroethane	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
n-Heptane	**0.64**		0.40		ppb v/v			08/16/16 15:23	2
Trichloroethene	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
1,2-Dichloropropane	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Bromodichloromethane	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
cis-1,3-Dichloropropene	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Methyl isobutyl ketone	1.0	U	1.0		ppb v/v			08/16/16 15:23	2
Toluene	**7.7**		0.40		ppb v/v			08/16/16 15:23	2
trans-1,3-Dichloropropene	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
1,1,2-Trichloroethane	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Tetrachloroethene	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Methyl Butyl Ketone (2-Hexanone)	1.0	U	1.0		ppb v/v			08/16/16 15:23	2
1,2-Dibromoethane	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Chlorobenzene	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Ethylbenzene	**3.0**		0.40		ppb v/v			08/16/16 15:23	2
m,p-Xylene	**6.7**		1.0		ppb v/v			08/16/16 15:23	2
Xylene, o-	**2.9**		0.40		ppb v/v			08/16/16 15:23	2
Styrene	**0.56**		0.40		ppb v/v			08/16/16 15:23	2

Client Sample ID: SG-2
Date Collected: 08/10/16 12:15
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34810-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
1,1,2,2-Tetrachloroethane	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
4-Ethyltoluene	**1.2**		0.40		ppb v/v			08/16/16 15:23	2
1,3,5-Trimethylbenzene	**1.4**		0.40		ppb v/v			08/16/16 15:23	2
1,2,4-Trimethylbenzene	**5.4**		0.40		ppb v/v			08/16/16 15:23	2
1,3-Dichlorobenzene	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
1,4-Dichlorobenzene	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Benzyl chloride	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
1,2-Dichlorobenzene	**0.70**		0.40		ppb v/v			08/16/16 15:23	2
1,2,4-Trichlorobenzene	1.0	U	1.0		ppb v/v			08/16/16 15:23	2
Hexachlorobutadiene	0.40	U	0.40		ppb v/v			08/16/16 15:23	2
Naphthalene	1.0	U	1.0		ppb v/v			08/16/16 15:23	2
Dibromochloromethane	0.40	U	0.40		ppb v/v			08/16/16 15:23	2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	**42**		17		ug/m3			08/16/16 15:23	2
Dichlorodifluoromethane	4.9	U	4.9		ug/m3			08/16/16 15:23	2
1,2-Dichlorotetrafluoroethane	2.8	U	2.8		ug/m3			08/16/16 15:23	2
Chloromethane	2.1	U	2.1		ug/m3			08/16/16 15:23	2
Vinyl chloride	1.0	U	1.0		ug/m3			08/16/16 15:23	2
1,3-Butadiene	**3.6**		0.88		ug/m3			08/16/16 15:23	2
Bromomethane	1.6	U	1.6		ug/m3			08/16/16 15:23	2
Chloroethane	2.6	U	2.6		ug/m3			08/16/16 15:23	2
Trichlorofluoromethane	2.2	U	2.2		ug/m3			08/16/16 15:23	2
Ethanol	**19**		19		ug/m3			08/16/16 15:23	2
Freon TF	3.1	U	3.1		ug/m3			08/16/16 15:23	2
1,1-Dichloroethene	1.6	U	1.6		ug/m3			08/16/16 15:23	2
Acetone	**120**		24		ug/m3			08/16/16 15:23	2
Isopropyl alcohol	**55**		25		ug/m3			08/16/16 15:23	2
Carbon disulfide	3.1	U	3.1		ug/m3			08/16/16 15:23	2
Methylene Chloride	3.5	U	3.5		ug/m3			08/16/16 15:23	2
Methyl tert-butyl ether	1.4	U	1.4		ug/m3			08/16/16 15:23	2
trans-1,2-Dichloroethene	1.6	U	1.6		ug/m3			08/16/16 15:23	2
n-Hexane	**2.9**		1.4		ug/m3			08/16/16 15:23	2
1,1-Dichloroethane	1.6	U	1.6		ug/m3			08/16/16 15:23	2
Vinyl acetate	35	U	35		ug/m3			08/16/16 15:23	2
Ethyl acetate	36	U	36		ug/m3			08/16/16 15:23	2
Methyl Ethyl Ketone	**10**		2.9		ug/m3			08/16/16 15:23	2
cis-1,2-Dichloroethene	1.6	U	1.6		ug/m3			08/16/16 15:23	2
Chloroform	2.0	U	2.0		ug/m3			08/16/16 15:23	2
Tetrahydrofuran	29	U	29		ug/m3			08/16/16 15:23	2
1,1,1-Trichloroethane	2.2	U	2.2		ug/m3			08/16/16 15:23	2
Cyclohexane	1.4	U	1.4		ug/m3			08/16/16 15:23	2
Carbon tetrachloride	2.5	U	2.5		ug/m3			08/16/16 15:23	2
Benzene	**2.5**		1.3		ug/m3			08/16/16 15:23	2
1,2-Dichloroethane	1.6	U	1.6		ug/m3			08/16/16 15:23	2
n-Heptane	**2.6**		1.6		ug/m3			08/16/16 15:23	2
Trichloroethene	2.1	U	2.1		ug/m3			08/16/16 15:23	2
1,2-Dichloropropane	1.8	U	1.8		ug/m3			08/16/16 15:23	2

Client Sample ID: SG-2

Lab Sample ID: 200-34810-1

Date Collected: 08/10/16 12:15
Matrix: Air
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	2.7	U	2.7		ug/m3			08/16/16 15:23	2
cis-1,3-Dichloropropene	1.8	U	1.8		ug/m3			08/16/16 15:23	2
Methyl isobutyl ketone	4.1	U	4.1		ug/m3			08/16/16 15:23	2
Toluene	**29**		1.5		ug/m3			08/16/16 15:23	2
trans-1,3-Dichloropropene	1.8	U	1.8		ug/m3			08/16/16 15:23	2
1,1,2-Trichloroethane	2.2	U	2.2		ug/m3			08/16/16 15:23	2
Tetrachloroethene	2.7	U	2.7		ug/m3			08/16/16 15:23	2
Methyl Butyl Ketone (2-Hexanone)	4.1	U	4.1		ug/m3			08/16/16 15:23	2
1,2-Dibromoethane	3.1	U	3.1		ug/m3			08/16/16 15:23	2
Chlorobenzene	1.8	U	1.8		ug/m3			08/16/16 15:23	2
Ethylbenzene	**13**		1.7		ug/m3			08/16/16 15:23	2
m,p-Xylene	**29**		4.3		ug/m3			08/16/16 15:23	2
Xylene, o-	**13**		1.7		ug/m3			08/16/16 15:23	2
Styrene	**2.4**		1.7		ug/m3			08/16/16 15:23	2
Bromoform	4.1	U	4.1		ug/m3			08/16/16 15:23	2
1,1,2,2-Tetrachloroethane	2.7	U	2.7		ug/m3			08/16/16 15:23	2
4-Ethyltoluene	**5.9**		2.0		ug/m3			08/16/16 15:23	2
1,3,5-Trimethylbenzene	**7.1**		2.0		ug/m3			08/16/16 15:23	2
1,2,4-Trimethylbenzene	**27**		2.0		ug/m3			08/16/16 15:23	2
1,3-Dichlorobenzene	2.4	U	2.4		ug/m3			08/16/16 15:23	2
1,4-Dichlorobenzene	2.4	U	2.4		ug/m3			08/16/16 15:23	2
Benzyl chloride	2.1	U	2.1		ug/m3			08/16/16 15:23	2
1,2-Dichlorobenzene	**4.2**		2.4		ug/m3			08/16/16 15:23	2
1,2,4-Trichlorobenzene	7.4	U	7.4		ug/m3			08/16/16 15:23	2
Hexachlorobutadiene	4.3	U	4.3		ug/m3			08/16/16 15:23	2
Naphthalene	5.2	U	5.2		ug/m3			08/16/16 15:23	2
Dibromochloromethane	3.4	U	3.4		ug/m3			08/16/16 15:23	2

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1-Propene, 2-methyl-	*6.3*	*J N*	*ppb v/v*		*3.70*	*115-11-7*		*08/16/16 15:23*	*2*
Unknown	*7.8*	*J*	*ppb v/v*		*4.08*			*08/16/16 15:23*	*2*
Isoprene	*7.8*	*J N*	*ppb v/v*		*5.88*	*78-79-5*		*08/16/16 15:23*	*2*
Pentane, 2,3,4-trimethyl-	*7.3*	*J N*	*ppb v/v*		*14.11*	*565-75-3*		*08/16/16 15:23*	*2*
Unknown	*9.6*	*J*	*ppb v/v*		*14.38*			*08/16/16 15:23*	*2*
Unknown	*7.0*	*J*	*ppb v/v*		*22.80*			*08/16/16 15:23*	*2*
Unknown	*6.9*	*J*	*ppb v/v*		*23.11*			*08/16/16 15:23*	*2*
Unknown	*7.2*	*J*	*ppb v/v*		*23.16*			*08/16/16 15:23*	*2*
Unknown	*12*	*J*	*ppb v/v*		*24.12*			*08/16/16 15:23*	*2*
Dodecane	*11*	*J N*	*ppb v/v*		*25.32*	*112-40-3*		*08/16/16 15:23*	*2*

Client Sample ID: SG-3

Lab Sample ID: 200-34810-2

Date Collected: 08/10/16 13:44
Matrix: Air
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	**110**		90		ppb v/v			08/16/16 17:03	17.9
Dichlorodifluoromethane	9.0	U	9.0		ppb v/v			08/16/16 17:03	17.9

Client Sample ID: SG-3
Date Collected: 08/10/16 13:44
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34810-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorotetrafluoroethane	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Chloromethane	**15**		9.0		ppb v/v			08/16/16 17:03	17.9
Vinyl chloride	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
1,3-Butadiene	**5.6**		3.6		ppb v/v			08/16/16 17:03	17.9
Bromomethane	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Chloroethane	9.0	U	9.0		ppb v/v			08/16/16 17:03	17.9
Trichlorofluoromethane	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Ethanol	90	U	90		ppb v/v			08/16/16 17:03	17.9
Freon TF	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
1,1-Dichloroethene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Acetone	**390**		90		ppb v/v			08/16/16 17:03	17.9
Isopropyl alcohol	90	U	90		ppb v/v			08/16/16 17:03	17.9
Carbon disulfide	9.0	U	9.0		ppb v/v			08/16/16 17:03	17.9
Methylene Chloride	9.0	U	9.0		ppb v/v			08/16/16 17:03	17.9
Methyl tert-butyl ether	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
trans-1,2-Dichloroethene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
n-Hexane	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
1,1-Dichloroethane	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Vinyl acetate	90	U	90		ppb v/v			08/16/16 17:03	17.9
Ethyl acetate	90	U	90		ppb v/v			08/16/16 17:03	17.9
Methyl Ethyl Ketone	**35**		9.0		ppb v/v			08/16/16 17:03	17.9
cis-1,2-Dichloroethene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Chloroform	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Tetrahydrofuran	90	U	90		ppb v/v			08/16/16 17:03	17.9
1,1,1-Trichloroethane	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Cyclohexane	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Carbon tetrachloride	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Benzene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
1,2-Dichloroethane	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
n-Heptane	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Trichloroethene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
1,2-Dichloropropane	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Bromodichloromethane	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
cis-1,3-Dichloropropene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Methyl isobutyl ketone	9.0	U	9.0		ppb v/v			08/16/16 17:03	17.9
Toluene	**12**		3.6		ppb v/v			08/16/16 17:03	17.9
trans-1,3-Dichloropropene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
1,1,2-Trichloroethane	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Tetrachloroethene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Methyl Butyl Ketone (2-Hexanone)	9.0	U	9.0		ppb v/v			08/16/16 17:03	17.9
1,2-Dibromoethane	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Chlorobenzene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Ethylbenzene	**4.5**		3.6		ppb v/v			08/16/16 17:03	17.9
m,p-Xylene	**9.8**		9.0		ppb v/v			08/16/16 17:03	17.9
Xylene, o-	**4.3**		3.6		ppb v/v			08/16/16 17:03	17.9
Styrene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Bromoform	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
1,1,2,2-Tetrachloroethane	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Client Sample ID: SG-3
Date Collected: 08/10/16 13:44
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34810-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Ethyltoluene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
1,3,5-Trimethylbenzene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
1,2,4-Trimethylbenzene	**5.9**		3.6		ppb v/v			08/16/16 17:03	17.9
1,3-Dichlorobenzene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
1,4-Dichlorobenzene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Benzyl chloride	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
1,2-Dichlorobenzene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
1,2,4-Trichlorobenzene	9.0	U	9.0		ppb v/v			08/16/16 17:03	17.9
Hexachlorobutadiene	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9
Naphthalene	9.0	U	9.0		ppb v/v			08/16/16 17:03	17.9
Dibromochloromethane	3.6	U	3.6		ppb v/v			08/16/16 17:03	17.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	**190**		150		ug/m3			08/16/16 17:03	17.9
Dichlorodifluoromethane	44	U	44		ug/m3			08/16/16 17:03	17.9
1,2-Dichlorotetrafluoroethane	25	U	25		ug/m3			08/16/16 17:03	17.9
Chloromethane	**30**		18		ug/m3			08/16/16 17:03	17.9
Vinyl chloride	9.2	U	9.2		ug/m3			08/16/16 17:03	17.9
1,3-Butadiene	**12**		7.9		ug/m3			08/16/16 17:03	17.9
Bromomethane	14	U	14		ug/m3			08/16/16 17:03	17.9
Chloroethane	24	U	24		ug/m3			08/16/16 17:03	17.9
Trichlorofluoromethane	20	U	20		ug/m3			08/16/16 17:03	17.9
Ethanol	170	U	170		ug/m3			08/16/16 17:03	17.9
Freon TF	27	U	27		ug/m3			08/16/16 17:03	17.9
1,1-Dichloroethene	14	U	14		ug/m3			08/16/16 17:03	17.9
Acetone	**930**		210		ug/m3			08/16/16 17:03	17.9
Isopropyl alcohol	220	U	220		ug/m3			08/16/16 17:03	17.9
Carbon disulfide	28	U	28		ug/m3			08/16/16 17:03	17.9
Methylene Chloride	31	U	31		ug/m3			08/16/16 17:03	17.9
Methyl tert-butyl ether	13	U	13		ug/m3			08/16/16 17:03	17.9
trans-1,2-Dichloroethene	14	U	14		ug/m3			08/16/16 17:03	17.9
n-Hexane	13	U	13		ug/m3			08/16/16 17:03	17.9
1,1-Dichloroethane	14	U	14		ug/m3			08/16/16 17:03	17.9
Vinyl acetate	320	U	320		ug/m3			08/16/16 17:03	17.9
Ethyl acetate	320	U	320		ug/m3			08/16/16 17:03	17.9
Methyl Ethyl Ketone	**100**		26		ug/m3			08/16/16 17:03	17.9
cis-1,2-Dichloroethene	14	U	14		ug/m3			08/16/16 17:03	17.9
Chloroform	17	U	17		ug/m3			08/16/16 17:03	17.9
Tetrahydrofuran	260	U	260		ug/m3			08/16/16 17:03	17.9
1,1,1-Trichloroethane	20	U	20		ug/m3			08/16/16 17:03	17.9
Cyclohexane	12	U	12		ug/m3			08/16/16 17:03	17.9
Carbon tetrachloride	23	U	23		ug/m3			08/16/16 17:03	17.9
Benzene	11	U	11		ug/m3			08/16/16 17:03	17.9
1,2-Dichloroethane	14	U	14		ug/m3			08/16/16 17:03	17.9
n-Heptane	15	U	15		ug/m3			08/16/16 17:03	17.9
Trichloroethene	19	U	19		ug/m3			08/16/16 17:03	17.9
1,2-Dichloropropane	17	U	17		ug/m3			08/16/16 17:03	17.9
Bromodichloromethane	24	U	24		ug/m3			08/16/16 17:03	17.9
cis-1,3-Dichloropropene	16	U	16		ug/m3			08/16/16 17:03	17.9

Client Sample ID: SG-3

Lab Sample ID: 200-34810-2

Date Collected: 08/10/16 13:44
Matrix: Air
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl isobutyl ketone	37	U	37		ug/m3			08/16/16 17:03	17.9
Toluene	**44**		13		ug/m3			08/16/16 17:03	17.9
trans-1,3-Dichloropropene	16	U	16		ug/m3			08/16/16 17:03	17.9
1,1,2-Trichloroethane	20	U	20		ug/m3			08/16/16 17:03	17.9
Tetrachloroethene	24	U	24		ug/m3			08/16/16 17:03	17.9
Methyl Butyl Ketone (2-Hexanone)	37	U	37		ug/m3			08/16/16 17:03	17.9
1,2-Dibromoethane	28	U	28		ug/m3			08/16/16 17:03	17.9
Chlorobenzene	16	U	16		ug/m3			08/16/16 17:03	17.9
Ethylbenzene	**20**		16		ug/m3			08/16/16 17:03	17.9
m,p-Xylene	**42**		39		ug/m3			08/16/16 17:03	17.9
Xylene, o-	**19**		16		ug/m3			08/16/16 17:03	17.9
Styrene	15	U	15		ug/m3			08/16/16 17:03	17.9
Bromoform	37	U	37		ug/m3			08/16/16 17:03	17.9
1,1,2,2-Tetrachloroethane	25	U	25		ug/m3			08/16/16 17:03	17.9
4-Ethyltoluene	18	U	18		ug/m3			08/16/16 17:03	17.9
1,3,5-Trimethylbenzene	18	U	18		ug/m3			08/16/16 17:03	17.9
1,2,4-Trimethylbenzene	**29**		18		ug/m3			08/16/16 17:03	17.9
1,3-Dichlorobenzene	22	U	22		ug/m3			08/16/16 17:03	17.9
1,4-Dichlorobenzene	22	U	22		ug/m3			08/16/16 17:03	17.9
Benzyl chloride	19	U	19		ug/m3			08/16/16 17:03	17.9
1,2-Dichlorobenzene	22	U	22		ug/m3			08/16/16 17:03	17.9
1,2,4-Trichlorobenzene	66	U	66		ug/m3			08/16/16 17:03	17.9
Hexachlorobutadiene	38	U	38		ug/m3			08/16/16 17:03	17.9
Naphthalene	47	U	47		ug/m3			08/16/16 17:03	17.9
Dibromochloromethane	30	U	30		ug/m3			08/16/16 17:03	17.9

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*37*	*J*	*ppb v/v*		*4.09*			*08/16/16 17:03*	*17.9*
(1S)	*73*	*J N*	*ppb v/v*		*20.82*	*7785-26-4*		*08/16/16 17:03*	*17.9*
-2,6,6-Trimethylbicyclo[3.1.1]hept-2 .beta.-Pinene	*30*	*J N*	*ppb v/v*		*22.06*	*127-91-3*		*08/16/16 17:03*	*17.9*
Unknown	*20*	*J*	*ppb v/v*		*24.12*			*08/16/16 17:03*	*17.9*
Dodecane	*21*	*J N*	*ppb v/v*		*25.32*	*112-40-3*		*08/16/16 17:03*	*17.9*

Client Sample ID: SS-1

Lab Sample ID: 200-34810-3

Date Collected: 08/11/16 12:28
Matrix: Air
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	18	U	18		ppb v/v			08/16/16 17:53	3.51
Dichlorodifluoromethane	1.8	U	1.8		ppb v/v			08/16/16 17:53	3.51
1,2-Dichlorotetrafluoroethane	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Chloromethane	1.8	U	1.8		ppb v/v			08/16/16 17:53	3.51
Vinyl chloride	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
1,3-Butadiene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Bromomethane	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Chloroethane	1.8	U	1.8		ppb v/v			08/16/16 17:53	3.51

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Client Sample ID: SS-1
Date Collected: 08/11/16 12:28
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34810-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Ethanol	18	U	18		ppb v/v			08/16/16 17:53	3.51
Freon TF	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
1,1-Dichloroethene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Acetone	**35**		18		ppb v/v			08/16/16 17:53	3.51
Isopropyl alcohol	**65**		18		ppb v/v			08/16/16 17:53	3.51
Carbon disulfide	**1.9**		1.8		ppb v/v			08/16/16 17:53	3.51
Methylene Chloride	1.8	U	1.8		ppb v/v			08/16/16 17:53	3.51
Methyl tert-butyl ether	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
trans-1,2-Dichloroethene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
n-Hexane	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
1,1-Dichloroethane	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Vinyl acetate	18	U	18		ppb v/v			08/16/16 17:53	3.51
Ethyl acetate	18	U	18		ppb v/v			08/16/16 17:53	3.51
Methyl Ethyl Ketone	**3.9**		1.8		ppb v/v			08/16/16 17:53	3.51
cis-1,2-Dichloroethene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Chloroform	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Tetrahydrofuran	18	U	18		ppb v/v			08/16/16 17:53	3.51
1,1,1-Trichloroethane	**5.0**		0.70		ppb v/v			08/16/16 17:53	3.51
Cyclohexane	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Carbon tetrachloride	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Benzene	**0.78**		0.70		ppb v/v			08/16/16 17:53	3.51
1,2-Dichloroethane	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
n-Heptane	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Trichloroethene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
1,2-Dichloropropane	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Bromodichloromethane	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
cis-1,3-Dichloropropene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Methyl isobutyl ketone	1.8	U	1.8		ppb v/v			08/16/16 17:53	3.51
Toluene	**1.1**		0.70		ppb v/v			08/16/16 17:53	3.51
trans-1,3-Dichloropropene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
1,1,2-Trichloroethane	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Tetrachloroethene	**16**		0.70		ppb v/v			08/16/16 17:53	3.51
Methyl Butyl Ketone (2-Hexanone)	1.8	U	1.8		ppb v/v			08/16/16 17:53	3.51
1,2-Dibromoethane	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Chlorobenzene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Ethylbenzene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
m,p-Xylene	1.8	U	1.8		ppb v/v			08/16/16 17:53	3.51
Xylene, o-	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Styrene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Bromoform	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
1,1,2,2-Tetrachloroethane	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
4-Ethyltoluene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
1,3,5-Trimethylbenzene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
1,2,4-Trimethylbenzene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
1,3-Dichlorobenzene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
1,4-Dichlorobenzene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Benzyl chloride	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Client Sample ID: SS-1
Date Collected: 08/11/16 12:28
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34810-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
1,2,4-Trichlorobenzene	1.8	U	1.8		ppb v/v			08/16/16 17:53	3.51
Hexachlorobutadiene	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51
Naphthalene	1.8	U	1.8		ppb v/v			08/16/16 17:53	3.51
Dibromochloromethane	0.70	U	0.70		ppb v/v			08/16/16 17:53	3.51

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	30	U	30		ug/m3			08/16/16 17:53	3.51
Dichlorodifluoromethane	8.7	U	8.7		ug/m3			08/16/16 17:53	3.51
1,2-Dichlorotetrafluoroethane	4.9	U	4.9		ug/m3			08/16/16 17:53	3.51
Chloromethane	3.6	U	3.6		ug/m3			08/16/16 17:53	3.51
Vinyl chloride	1.8	U	1.8		ug/m3			08/16/16 17:53	3.51
1,3-Butadiene	1.6	U	1.6		ug/m3			08/16/16 17:53	3.51
Bromomethane	2.7	U	2.7		ug/m3			08/16/16 17:53	3.51
Chloroethane	4.6	U	4.6		ug/m3			08/16/16 17:53	3.51
Trichlorofluoromethane	3.9	U	3.9		ug/m3			08/16/16 17:53	3.51
Ethanol	33	U	33		ug/m3			08/16/16 17:53	3.51
Freon TF	5.4	U	5.4		ug/m3			08/16/16 17:53	3.51
1,1-Dichloroethene	2.8	U	2.8		ug/m3			08/16/16 17:53	3.51
Acetone	**82**		42		ug/m3			08/16/16 17:53	3.51
Isopropyl alcohol	**160**		43		ug/m3			08/16/16 17:53	3.51
Carbon disulfide	**6.0**		5.5		ug/m3			08/16/16 17:53	3.51
Methylene Chloride	6.1	U	6.1		ug/m3			08/16/16 17:53	3.51
Methyl tert-butyl ether	2.5	U	2.5		ug/m3			08/16/16 17:53	3.51
trans-1,2-Dichloroethene	2.8	U	2.8		ug/m3			08/16/16 17:53	3.51
n-Hexane	2.5	U	2.5		ug/m3			08/16/16 17:53	3.51
1,1-Dichloroethane	2.8	U	2.8		ug/m3			08/16/16 17:53	3.51
Vinyl acetate	62	U	62		ug/m3			08/16/16 17:53	3.51
Ethyl acetate	63	U	63		ug/m3			08/16/16 17:53	3.51
Methyl Ethyl Ketone	**11**		5.2		ug/m3			08/16/16 17:53	3.51
cis-1,2-Dichloroethene	2.8	U	2.8		ug/m3			08/16/16 17:53	3.51
Chloroform	3.4	U	3.4		ug/m3			08/16/16 17:53	3.51
Tetrahydrofuran	52	U	52		ug/m3			08/16/16 17:53	3.51
1,1,1-Trichloroethane	**27**		3.8		ug/m3			08/16/16 17:53	3.51
Cyclohexane	2.4	U	2.4		ug/m3			08/16/16 17:53	3.51
Carbon tetrachloride	4.4	U	4.4		ug/m3			08/16/16 17:53	3.51
Benzene	**2.5**		2.2		ug/m3			08/16/16 17:53	3.51
1,2-Dichloroethane	2.8	U	2.8		ug/m3			08/16/16 17:53	3.51
n-Heptane	2.9	U	2.9		ug/m3			08/16/16 17:53	3.51
Trichloroethene	3.8	U	3.8		ug/m3			08/16/16 17:53	3.51
1,2-Dichloropropane	3.2	U	3.2		ug/m3			08/16/16 17:53	3.51
Bromodichloromethane	4.7	U	4.7		ug/m3			08/16/16 17:53	3.51
cis-1,3-Dichloropropene	3.2	U	3.2		ug/m3			08/16/16 17:53	3.51
Methyl isobutyl ketone	7.2	U	7.2		ug/m3			08/16/16 17:53	3.51
Toluene	**4.0**		2.6		ug/m3			08/16/16 17:53	3.51
trans-1,3-Dichloropropene	3.2	U	3.2		ug/m3			08/16/16 17:53	3.51
1,1,2-Trichloroethane	3.8	U	3.8		ug/m3			08/16/16 17:53	3.51
Tetrachloroethene	**110**		4.8		ug/m3			08/16/16 17:53	3.51
Methyl Butyl Ketone (2-Hexanone)	7.2	U	7.2		ug/m3			08/16/16 17:53	3.51

Client Sample ID: SS-1

Lab Sample ID: 200-34810-3

Date Collected: 08/11/16 12:28
Matrix: Air
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	5.4	U	5.4		ug/m3			08/16/16 17:53	3.51
Chlorobenzene	3.2	U	3.2		ug/m3			08/16/16 17:53	3.51
Ethylbenzene	3.0	U	3.0		ug/m3			08/16/16 17:53	3.51
m,p-Xylene	7.6	U	7.6		ug/m3			08/16/16 17:53	3.51
Xylene, o-	3.0	U	3.0		ug/m3			08/16/16 17:53	3.51
Styrene	3.0	U	3.0		ug/m3			08/16/16 17:53	3.51
Bromoform	7.3	U	7.3		ug/m3			08/16/16 17:53	3.51
1,1,2,2-Tetrachloroethane	4.8	U	4.8		ug/m3			08/16/16 17:53	3.51
4-Ethyltoluene	3.5	U	3.5		ug/m3			08/16/16 17:53	3.51
1,3,5-Trimethylbenzene	3.5	U	3.5		ug/m3			08/16/16 17:53	3.51
1,2,4-Trimethylbenzene	3.5	U	3.5		ug/m3			08/16/16 17:53	3.51
1,3-Dichlorobenzene	4.2	U	4.2		ug/m3			08/16/16 17:53	3.51
1,4-Dichlorobenzene	4.2	U	4.2		ug/m3			08/16/16 17:53	3.51
Benzyl chloride	3.6	U	3.6		ug/m3			08/16/16 17:53	3.51
1,2-Dichlorobenzene	4.2	U	4.2		ug/m3			08/16/16 17:53	3.51
1,2,4-Trichlorobenzene	13	U	13		ug/m3			08/16/16 17:53	3.51
Hexachlorobutadiene	7.5	U	7.5		ug/m3			08/16/16 17:53	3.51
Naphthalene	9.2	U	9.2		ug/m3			08/16/16 17:53	3.51
Dibromochloromethane	6.0	U	6.0		ug/m3			08/16/16 17:53	3.51

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*4.2*	*J*	*ppb v/v*		*9.81*			*08/16/16 17:53*	*3.51*

Client Sample ID: SS-2

Lab Sample ID: 200-34810-4

Date Collected: 08/11/16 12:30
Matrix: Air
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	10	U	10		ppb v/v			08/16/16 18:43	2
Dichlorodifluoromethane	**2.8**		1.0		ppb v/v			08/16/16 18:43	2
1,2-Dichlorotetrafluoroethane	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Chloromethane	1.0	U	1.0		ppb v/v			08/16/16 18:43	2
Vinyl chloride	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
1,3-Butadiene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Bromomethane	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Chloroethane	1.0	U	1.0		ppb v/v			08/16/16 18:43	2
Trichlorofluoromethane	**1.5**		0.40		ppb v/v			08/16/16 18:43	2
Ethanol	**13**		10		ppb v/v			08/16/16 18:43	2
Freon TF	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
1,1-Dichloroethene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Acetone	**31**		10		ppb v/v			08/16/16 18:43	2
Isopropyl alcohol	**41**		10		ppb v/v			08/16/16 18:43	2
Carbon disulfide	1.0	U	1.0		ppb v/v			08/16/16 18:43	2
Methylene Chloride	1.0	U	1.0		ppb v/v			08/16/16 18:43	2
Methyl tert-butyl ether	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
trans-1,2-Dichloroethene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
n-Hexane	0.40	U	0.40		ppb v/v			08/16/16 18:43	2

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Client Sample ID: SS-2
Date Collected: 08/11/16 12:30
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34810-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Vinyl acetate	10	U	10		ppb v/v			08/16/16 18:43	2
Ethyl acetate	10	U	10		ppb v/v			08/16/16 18:43	2
Methyl Ethyl Ketone	**1.5**		1.0		ppb v/v			08/16/16 18:43	2
cis-1,2-Dichloroethene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Chloroform	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Tetrahydrofuran	10	U	10		ppb v/v			08/16/16 18:43	2
1,1,1-Trichloroethane	**1.7**		0.40		ppb v/v			08/16/16 18:43	2
Cyclohexane	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Carbon tetrachloride	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Benzene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
1,2-Dichloroethane	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
n-Heptane	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Trichloroethene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
1,2-Dichloropropane	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Bromodichloromethane	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
cis-1,3-Dichloropropene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Methyl isobutyl ketone	1.0	U	1.0		ppb v/v			08/16/16 18:43	2
Toluene	**0.47**		0.40		ppb v/v			08/16/16 18:43	2
trans-1,3-Dichloropropene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
1,1,2-Trichloroethane	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Tetrachloroethene	**3.4**		0.40		ppb v/v			08/16/16 18:43	2
Methyl Butyl Ketone (2-Hexanone)	1.0	U	1.0		ppb v/v			08/16/16 18:43	2
1,2-Dibromoethane	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Chlorobenzene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Ethylbenzene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
m,p-Xylene	1.0	U	1.0		ppb v/v			08/16/16 18:43	2
Xylene, o-	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Styrene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Bromoform	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
1,1,2,2-Tetrachloroethane	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
4-Ethyltoluene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
1,3,5-Trimethylbenzene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
1,2,4-Trimethylbenzene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
1,3-Dichlorobenzene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
1,4-Dichlorobenzene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Benzyl chloride	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
1,2-Dichlorobenzene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
1,2,4-Trichlorobenzene	1.0	U	1.0		ppb v/v			08/16/16 18:43	2
Hexachlorobutadiene	0.40	U	0.40		ppb v/v			08/16/16 18:43	2
Naphthalene	1.0	U	1.0		ppb v/v			08/16/16 18:43	2
Dibromochloromethane	0.40	U	0.40		ppb v/v			08/16/16 18:43	2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	17	U	17		ug/m3			08/16/16 18:43	2
Dichlorodifluoromethane	**14**		4.9		ug/m3			08/16/16 18:43	2
1,2-Dichlorotetrafluoroethane	2.8	U	2.8		ug/m3			08/16/16 18:43	2
Chloromethane	2.1	U	2.1		ug/m3			08/16/16 18:43	2
Vinyl chloride	1.0	U	1.0		ug/m3			08/16/16 18:43	2

Client Sample ID: SS-2
Date Collected: 08/11/16 12:30
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34810-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	0.88	U	0.88		ug/m3			08/16/16 18:43	2
Bromomethane	1.6	U	1.6		ug/m3			08/16/16 18:43	2
Chloroethane	2.6	U	2.6		ug/m3			08/16/16 18:43	2
Trichlorofluoromethane	**8.5**		2.2		ug/m3			08/16/16 18:43	2
Ethanol	**24**		19		ug/m3			08/16/16 18:43	2
Freon TF	3.1	U	3.1		ug/m3			08/16/16 18:43	2
1,1-Dichloroethene	1.6	U	1.6		ug/m3			08/16/16 18:43	2
Acetone	**74**		24		ug/m3			08/16/16 18:43	2
Isopropyl alcohol	**100**		25		ug/m3			08/16/16 18:43	2
Carbon disulfide	3.1	U	3.1		ug/m3			08/16/16 18:43	2
Methylene Chloride	3.5	U	3.5		ug/m3			08/16/16 18:43	2
Methyl tert-butyl ether	1.4	U	1.4		ug/m3			08/16/16 18:43	2
trans-1,2-Dichloroethene	1.6	U	1.6		ug/m3			08/16/16 18:43	2
n-Hexane	1.4	U	1.4		ug/m3			08/16/16 18:43	2
1,1-Dichloroethane	1.6	U	1.6		ug/m3			08/16/16 18:43	2
Vinyl acetate	35	U	35		ug/m3			08/16/16 18:43	2
Ethyl acetate	36	U	36		ug/m3			08/16/16 18:43	2
Methyl Ethyl Ketone	**4.5**		2.9		ug/m3			08/16/16 18:43	2
cis-1,2-Dichloroethene	1.6	U	1.6		ug/m3			08/16/16 18:43	2
Chloroform	2.0	U	2.0		ug/m3			08/16/16 18:43	2
Tetrahydrofuran	29	U	29		ug/m3			08/16/16 18:43	2
1,1,1-Trichloroethane	**9.3**		2.2		ug/m3			08/16/16 18:43	2
Cyclohexane	1.4	U	1.4		ug/m3			08/16/16 18:43	2
Carbon tetrachloride	2.5	U	2.5		ug/m3			08/16/16 18:43	2
Benzene	1.3	U	1.3		ug/m3			08/16/16 18:43	2
1,2-Dichloroethane	1.6	U	1.6		ug/m3			08/16/16 18:43	2
n-Heptane	1.6	U	1.6		ug/m3			08/16/16 18:43	2
Trichloroethene	2.1	U	2.1		ug/m3			08/16/16 18:43	2
1,2-Dichloropropane	1.8	U	1.8		ug/m3			08/16/16 18:43	2
Bromodichloromethane	2.7	U	2.7		ug/m3			08/16/16 18:43	2
cis-1,3-Dichloropropene	1.8	U	1.8		ug/m3			08/16/16 18:43	2
Methyl isobutyl ketone	4.1	U	4.1		ug/m3			08/16/16 18:43	2
Toluene	**1.8**		1.5		ug/m3			08/16/16 18:43	2
trans-1,3-Dichloropropene	1.8	U	1.8		ug/m3			08/16/16 18:43	2
1,1,2-Trichloroethane	2.2	U	2.2		ug/m3			08/16/16 18:43	2
Tetrachloroethene	**23**		2.7		ug/m3			08/16/16 18:43	2
Methyl Butyl Ketone (2-Hexanone)	4.1	U	4.1		ug/m3			08/16/16 18:43	2
1,2-Dibromoethane	3.1	U	3.1		ug/m3			08/16/16 18:43	2
Chlorobenzene	1.8	U	1.8		ug/m3			08/16/16 18:43	2
Ethylbenzene	1.7	U	1.7		ug/m3			08/16/16 18:43	2
m,p-Xylene	4.3	U	4.3		ug/m3			08/16/16 18:43	2
Xylene, o-	1.7	U	1.7		ug/m3			08/16/16 18:43	2
Styrene	1.7	U	1.7		ug/m3			08/16/16 18:43	2
Bromoform	4.1	U	4.1		ug/m3			08/16/16 18:43	2
1,1,2,2-Tetrachloroethane	2.7	U	2.7		ug/m3			08/16/16 18:43	2
4-Ethyltoluene	2.0	U	2.0		ug/m3			08/16/16 18:43	2
1,3,5-Trimethylbenzene	2.0	U	2.0		ug/m3			08/16/16 18:43	2
1,2,4-Trimethylbenzene	2.0	U	2.0		ug/m3			08/16/16 18:43	2

Client Sample ID: SS-2

Lab Sample ID: 200-34810-4

Date Collected: 08/11/16 12:30
Matrix: Air
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	2.4	U	2.4		ug/m3			08/16/16 18:43	2
1,4-Dichlorobenzene	2.4	U	2.4		ug/m3			08/16/16 18:43	2
Benzyl chloride	2.1	U	2.1		ug/m3			08/16/16 18:43	2
1,2-Dichlorobenzene	2.4	U	2.4		ug/m3			08/16/16 18:43	2
1,2,4-Trichlorobenzene	7.4	U	7.4		ug/m3			08/16/16 18:43	2
Hexachlorobutadiene	4.3	U	4.3		ug/m3			08/16/16 18:43	2
Naphthalene	5.2	U	5.2		ug/m3			08/16/16 18:43	2
Dibromochloromethane	3.4	U	3.4		ug/m3			08/16/16 18:43	2

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ppb v/v*					*08/16/16 18:43*	*2*

Client Sample ID: SS-3

Lab Sample ID: 200-34810-5

Date Collected: 08/11/16 12:37
Matrix: Air
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	13	U	13		ppb v/v			08/16/16 19:34	2.5
Dichlorodifluoromethane	**1.3**		1.3		ppb v/v			08/16/16 19:34	2.5
1,2-Dichlorotetrafluoroethane	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Chloromethane	1.3	U	1.3		ppb v/v			08/16/16 19:34	2.5
Vinyl chloride	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
1,3-Butadiene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Bromomethane	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Chloroethane	1.3	U	1.3		ppb v/v			08/16/16 19:34	2.5
Trichlorofluoromethane	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Ethanol	**21**		13		ppb v/v			08/16/16 19:34	2.5
Freon TF	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
1,1-Dichloroethene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Acetone	**34**		13		ppb v/v			08/16/16 19:34	2.5
Isopropyl alcohol	**52**		13		ppb v/v			08/16/16 19:34	2.5
Carbon disulfide	1.3	U	1.3		ppb v/v			08/16/16 19:34	2.5
Methylene Chloride	1.3	U	1.3		ppb v/v			08/16/16 19:34	2.5
Methyl tert-butyl ether	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
trans-1,2-Dichloroethene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
n-Hexane	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
1,1-Dichloroethane	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Vinyl acetate	13	U	13		ppb v/v			08/16/16 19:34	2.5
Ethyl acetate	13	U	13		ppb v/v			08/16/16 19:34	2.5
Methyl Ethyl Ketone	**1.3**		1.3		ppb v/v			08/16/16 19:34	2.5
cis-1,2-Dichloroethene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Chloroform	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Tetrahydrofuran	13	U	13		ppb v/v			08/16/16 19:34	2.5
1,1,1-Trichloroethane	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Cyclohexane	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Carbon tetrachloride	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Benzene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5

Client Sample ID: SS-3
Date Collected: 08/11/16 12:37
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34810-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
n-Heptane	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Trichloroethene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
1,2-Dichloropropane	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Bromodichloromethane	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
cis-1,3-Dichloropropene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Methyl isobutyl ketone	1.3	U	1.3		ppb v/v			08/16/16 19:34	2.5
Toluene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
trans-1,3-Dichloropropene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
1,1,2-Trichloroethane	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Tetrachloroethene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Methyl Butyl Ketone (2-Hexanone)	1.3	U	1.3		ppb v/v			08/16/16 19:34	2.5
1,2-Dibromoethane	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Chlorobenzene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Ethylbenzene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
m,p-Xylene	1.3	U	1.3		ppb v/v			08/16/16 19:34	2.5
Xylene, o-	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Styrene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Bromoform	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
4-Ethyltoluene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
1,3,5-Trimethylbenzene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
1,2,4-Trimethylbenzene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
1,3-Dichlorobenzene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
1,4-Dichlorobenzene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Benzyl chloride	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
1,2-Dichlorobenzene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
1,2,4-Trichlorobenzene	1.3	U	1.3		ppb v/v			08/16/16 19:34	2.5
Hexachlorobutadiene	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5
Naphthalene	1.3	U	1.3		ppb v/v			08/16/16 19:34	2.5
Dibromochloromethane	0.50	U	0.50		ppb v/v			08/16/16 19:34	2.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	22	U	22		ug/m3			08/16/16 19:34	2.5
Dichlorodifluoromethane	**6.3**		6.2		ug/m3			08/16/16 19:34	2.5
1,2-Dichlorotetrafluoroethane	3.5	U	3.5		ug/m3			08/16/16 19:34	2.5
Chloromethane	2.6	U	2.6		ug/m3			08/16/16 19:34	2.5
Vinyl chloride	1.3	U	1.3		ug/m3			08/16/16 19:34	2.5
1,3-Butadiene	1.1	U	1.1		ug/m3			08/16/16 19:34	2.5
Bromomethane	1.9	U	1.9		ug/m3			08/16/16 19:34	2.5
Chloroethane	3.3	U	3.3		ug/m3			08/16/16 19:34	2.5
Trichlorofluoromethane	2.8	U	2.8		ug/m3			08/16/16 19:34	2.5
Ethanol	**40**		24		ug/m3			08/16/16 19:34	2.5
Freon TF	3.8	U	3.8		ug/m3			08/16/16 19:34	2.5
1,1-Dichloroethene	2.0	U	2.0		ug/m3			08/16/16 19:34	2.5
Acetone	**81**		30		ug/m3			08/16/16 19:34	2.5
Isopropyl alcohol	**130**		31		ug/m3			08/16/16 19:34	2.5
Carbon disulfide	3.9	U	3.9		ug/m3			08/16/16 19:34	2.5
Methylene Chloride	4.3	U	4.3		ug/m3			08/16/16 19:34	2.5

Client Sample ID: SS-3
Date Collected: 08/11/16 12:37
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34810-5
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	1.8	U	1.8		ug/m3			08/16/16 19:34	2.5
trans-1,2-Dichloroethene	2.0	U	2.0		ug/m3			08/16/16 19:34	2.5
n-Hexane	1.8	U	1.8		ug/m3			08/16/16 19:34	2.5
1,1-Dichloroethane	2.0	U	2.0		ug/m3			08/16/16 19:34	2.5
Vinyl acetate	44	U	44		ug/m3			08/16/16 19:34	2.5
Ethyl acetate	45	U	45		ug/m3			08/16/16 19:34	2.5
Methyl Ethyl Ketone	**3.7**		3.7		ug/m3			08/16/16 19:34	2.5
cis-1,2-Dichloroethene	2.0	U	2.0		ug/m3			08/16/16 19:34	2.5
Chloroform	2.4	U	2.4		ug/m3			08/16/16 19:34	2.5
Tetrahydrofuran	37	U	37		ug/m3			08/16/16 19:34	2.5
1,1,1-Trichloroethane	2.7	U	2.7		ug/m3			08/16/16 19:34	2.5
Cyclohexane	1.7	U	1.7		ug/m3			08/16/16 19:34	2.5
Carbon tetrachloride	3.1	U	3.1		ug/m3			08/16/16 19:34	2.5
Benzene	1.6	U	1.6		ug/m3			08/16/16 19:34	2.5
1,2-Dichloroethane	2.0	U	2.0		ug/m3			08/16/16 19:34	2.5
n-Heptane	2.0	U	2.0		ug/m3			08/16/16 19:34	2.5
Trichloroethene	2.7	U	2.7		ug/m3			08/16/16 19:34	2.5
1,2-Dichloropropane	2.3	U	2.3		ug/m3			08/16/16 19:34	2.5
Bromodichloromethane	3.4	U	3.4		ug/m3			08/16/16 19:34	2.5
cis-1,3-Dichloropropene	2.3	U	2.3		ug/m3			08/16/16 19:34	2.5
Methyl isobutyl ketone	5.1	U	5.1		ug/m3			08/16/16 19:34	2.5
Toluene	1.9	U	1.9		ug/m3			08/16/16 19:34	2.5
trans-1,3-Dichloropropene	2.3	U	2.3		ug/m3			08/16/16 19:34	2.5
1,1,2-Trichloroethane	2.7	U	2.7		ug/m3			08/16/16 19:34	2.5
Tetrachloroethene	3.4	U	3.4		ug/m3			08/16/16 19:34	2.5
Methyl Butyl Ketone (2-Hexanone)	5.1	U	5.1		ug/m3			08/16/16 19:34	2.5
1,2-Dibromoethane	3.8	U	3.8		ug/m3			08/16/16 19:34	2.5
Chlorobenzene	2.3	U	2.3		ug/m3			08/16/16 19:34	2.5
Ethylbenzene	2.2	U	2.2		ug/m3			08/16/16 19:34	2.5
m,p-Xylene	5.4	U	5.4		ug/m3			08/16/16 19:34	2.5
Xylene, o-	2.2	U	2.2		ug/m3			08/16/16 19:34	2.5
Styrene	2.1	U	2.1		ug/m3			08/16/16 19:34	2.5
Bromoform	5.2	U	5.2		ug/m3			08/16/16 19:34	2.5
1,1,2,2-Tetrachloroethane	3.4	U	3.4		ug/m3			08/16/16 19:34	2.5
4-Ethyltoluene	2.5	U	2.5		ug/m3			08/16/16 19:34	2.5
1,3,5-Trimethylbenzene	2.5	U	2.5		ug/m3			08/16/16 19:34	2.5
1,2,4-Trimethylbenzene	2.5	U	2.5		ug/m3			08/16/16 19:34	2.5
1,3-Dichlorobenzene	3.0	U	3.0		ug/m3			08/16/16 19:34	2.5
1,4-Dichlorobenzene	3.0	U	3.0		ug/m3			08/16/16 19:34	2.5
Benzyl chloride	2.6	U	2.6		ug/m3			08/16/16 19:34	2.5
1,2-Dichlorobenzene	3.0	U	3.0		ug/m3			08/16/16 19:34	2.5
1,2,4-Trichlorobenzene	9.3	U	9.3		ug/m3			08/16/16 19:34	2.5
Hexachlorobutadiene	5.3	U	5.3		ug/m3			08/16/16 19:34	2.5
Naphthalene	6.6	U	6.6		ug/m3			08/16/16 19:34	2.5
Dibromochloromethane	4.3	U	4.3		ug/m3			08/16/16 19:34	2.5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2.8*	*J*	*ppb v/v*		*9.82*			*08/16/16 19:34*	*2.5*
1-Butanol	*2.6*	*J N*	*ppb v/v*		*12.96*	*71-36-3*		*08/16/16 19:34*	*2.5*

Client Sample ID: SS-5
Date Collected: 08/11/16 12:57
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34810-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	28	U	28		ppb v/v			08/16/16 20:24	5.56
Dichlorodifluoromethane	2.8	U	2.8		ppb v/v			08/16/16 20:24	5.56
1,2-Dichlorotetrafluoroethane	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Chloromethane	2.8	U	2.8		ppb v/v			08/16/16 20:24	5.56
Vinyl chloride	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
1,3-Butadiene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Bromomethane	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Chloroethane	2.8	U	2.8		ppb v/v			08/16/16 20:24	5.56
Trichlorofluoromethane	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Ethanol	**28**		28		ppb v/v			08/16/16 20:24	5.56
Freon TF	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
1,1-Dichloroethene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Acetone	**54**		28		ppb v/v			08/16/16 20:24	5.56
Isopropyl alcohol	**110**		28		ppb v/v			08/16/16 20:24	5.56
Carbon disulfide	2.8	U	2.8		ppb v/v			08/16/16 20:24	5.56
Methylene Chloride	2.8	U	2.8		ppb v/v			08/16/16 20:24	5.56
Methyl tert-butyl ether	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
trans-1,2-Dichloroethene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
n-Hexane	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
1,1-Dichloroethane	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Vinyl acetate	28	U	28		ppb v/v			08/16/16 20:24	5.56
Ethyl acetate	28	U	28		ppb v/v			08/16/16 20:24	5.56
Methyl Ethyl Ketone	**2.9**		2.8		ppb v/v			08/16/16 20:24	5.56
cis-1,2-Dichloroethene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Chloroform	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Tetrahydrofuran	28	U	28		ppb v/v			08/16/16 20:24	5.56
1,1,1-Trichloroethane	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Cyclohexane	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Carbon tetrachloride	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Benzene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
1,2-Dichloroethane	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
n-Heptane	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Trichloroethene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
1,2-Dichloropropane	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Bromodichloromethane	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
cis-1,3-Dichloropropene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Methyl isobutyl ketone	2.8	U	2.8		ppb v/v			08/16/16 20:24	5.56
Toluene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
trans-1,3-Dichloropropene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
1,1,2-Trichloroethane	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Tetrachloroethene	**1.2**		1.1		ppb v/v			08/16/16 20:24	5.56
Methyl Butyl Ketone (2-Hexanone)	2.8	U	2.8		ppb v/v			08/16/16 20:24	5.56
1,2-Dibromoethane	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Chlorobenzene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Ethylbenzene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
m,p-Xylene	2.8	U	2.8		ppb v/v			08/16/16 20:24	5.56
Xylene, o-	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Styrene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56

Client Sample ID: SS-5
Date Collected: 08/11/16 12:57
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34810-6
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
1,1,2,2-Tetrachloroethane	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
4-Ethyltoluene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
1,3,5-Trimethylbenzene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
1,2,4-Trimethylbenzene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
1,3-Dichlorobenzene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
1,4-Dichlorobenzene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Benzyl chloride	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
1,2-Dichlorobenzene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
1,2,4-Trichlorobenzene	2.8	U	2.8		ppb v/v			08/16/16 20:24	5.56
Hexachlorobutadiene	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56
Naphthalene	2.8	U	2.8		ppb v/v			08/16/16 20:24	5.56
Dibromochloromethane	1.1	U	1.1		ppb v/v			08/16/16 20:24	5.56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	48	U	48		ug/m3			08/16/16 20:24	5.56
Dichlorodifluoromethane	14	U	14		ug/m3			08/16/16 20:24	5.56
1,2-Dichlorotetrafluoroethane	7.8	U	7.8		ug/m3			08/16/16 20:24	5.56
Chloromethane	5.7	U	5.7		ug/m3			08/16/16 20:24	5.56
Vinyl chloride	2.8	U	2.8		ug/m3			08/16/16 20:24	5.56
1,3-Butadiene	2.5	U	2.5		ug/m3			08/16/16 20:24	5.56
Bromomethane	4.3	U	4.3		ug/m3			08/16/16 20:24	5.56
Chloroethane	7.3	U	7.3		ug/m3			08/16/16 20:24	5.56
Trichlorofluoromethane	6.2	U	6.2		ug/m3			08/16/16 20:24	5.56
Ethanol	**53**		52		ug/m3			08/16/16 20:24	5.56
Freon TF	8.5	U	8.5		ug/m3			08/16/16 20:24	5.56
1,1-Dichloroethene	4.4	U	4.4		ug/m3			08/16/16 20:24	5.56
Acetone	**130**		66		ug/m3			08/16/16 20:24	5.56
Isopropyl alcohol	**270**		68		ug/m3			08/16/16 20:24	5.56
Carbon disulfide	8.7	U	8.7		ug/m3			08/16/16 20:24	5.56
Methylene Chloride	9.7	U	9.7		ug/m3			08/16/16 20:24	5.56
Methyl tert-butyl ether	4.0	U	4.0		ug/m3			08/16/16 20:24	5.56
trans-1,2-Dichloroethene	4.4	U	4.4		ug/m3			08/16/16 20:24	5.56
n-Hexane	3.9	U	3.9		ug/m3			08/16/16 20:24	5.56
1,1-Dichloroethane	4.5	U	4.5		ug/m3			08/16/16 20:24	5.56
Vinyl acetate	98	U	98		ug/m3			08/16/16 20:24	5.56
Ethyl acetate	100	U	100		ug/m3			08/16/16 20:24	5.56
Methyl Ethyl Ketone	**8.5**		8.2		ug/m3			08/16/16 20:24	5.56
cis-1,2-Dichloroethene	4.4	U	4.4		ug/m3			08/16/16 20:24	5.56
Chloroform	5.4	U	5.4		ug/m3			08/16/16 20:24	5.56
Tetrahydrofuran	82	U	82		ug/m3			08/16/16 20:24	5.56
1,1,1-Trichloroethane	6.1	U	6.1		ug/m3			08/16/16 20:24	5.56
Cyclohexane	3.8	U	3.8		ug/m3			08/16/16 20:24	5.56
Carbon tetrachloride	7.0	U	7.0		ug/m3			08/16/16 20:24	5.56
Benzene	3.6	U	3.6		ug/m3			08/16/16 20:24	5.56
1,2-Dichloroethane	4.5	U	4.5		ug/m3			08/16/16 20:24	5.56
n-Heptane	4.6	U	4.6		ug/m3			08/16/16 20:24	5.56
Trichloroethene	6.0	U	6.0		ug/m3			08/16/16 20:24	5.56
1,2-Dichloropropane	5.1	U	5.1		ug/m3			08/16/16 20:24	5.56

Client Sample ID: SS-5

Lab Sample ID: 200-34810-6

Date Collected: 08/11/16 12:57
Matrix: Air
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	7.5	U	7.5		ug/m3			08/16/16 20:24	5.56
cis-1,3-Dichloropropene	5.0	U	5.0		ug/m3			08/16/16 20:24	5.56
Methyl isobutyl ketone	11	U	11		ug/m3			08/16/16 20:24	5.56
Toluene	4.2	U	4.2		ug/m3			08/16/16 20:24	5.56
trans-1,3-Dichloropropene	5.0	U	5.0		ug/m3			08/16/16 20:24	5.56
1,1,2-Trichloroethane	6.1	U	6.1		ug/m3			08/16/16 20:24	5.56
Tetrachloroethene	**8.3**		7.5		ug/m3			08/16/16 20:24	5.56
Methyl Butyl Ketone (2-Hexanone)	11	U	11		ug/m3			08/16/16 20:24	5.56
1,2-Dibromoethane	8.5	U	8.5		ug/m3			08/16/16 20:24	5.56
Chlorobenzene	5.1	U	5.1		ug/m3			08/16/16 20:24	5.56
Ethylbenzene	4.8	U	4.8		ug/m3			08/16/16 20:24	5.56
m,p-Xylene	12	U	12		ug/m3			08/16/16 20:24	5.56
Xylene, o-	4.8	U	4.8		ug/m3			08/16/16 20:24	5.56
Styrene	4.7	U	4.7		ug/m3			08/16/16 20:24	5.56
Bromoform	11	U	11		ug/m3			08/16/16 20:24	5.56
1,1,2,2-Tetrachloroethane	7.6	U	7.6		ug/m3			08/16/16 20:24	5.56
4-Ethyltoluene	5.5	U	5.5		ug/m3			08/16/16 20:24	5.56
1,3,5-Trimethylbenzene	5.5	U	5.5		ug/m3			08/16/16 20:24	5.56
1,2,4-Trimethylbenzene	5.5	U	5.5		ug/m3			08/16/16 20:24	5.56
1,3-Dichlorobenzene	6.7	U	6.7		ug/m3			08/16/16 20:24	5.56
1,4-Dichlorobenzene	6.7	U	6.7		ug/m3			08/16/16 20:24	5.56
Benzyl chloride	5.8	U	5.8		ug/m3			08/16/16 20:24	5.56
1,2-Dichlorobenzene	6.7	U	6.7		ug/m3			08/16/16 20:24	5.56
1,2,4-Trichlorobenzene	21	U	21		ug/m3			08/16/16 20:24	5.56
Hexachlorobutadiene	12	U	12		ug/m3			08/16/16 20:24	5.56
Naphthalene	15	U	15		ug/m3			08/16/16 20:24	5.56
Dibromochloromethane	9.5	U	9.5		ug/m3			08/16/16 20:24	5.56

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ppb v/v*					*08/16/16 20:24*	*5.56*

Client Sample ID: SS-6

Lab Sample ID: 200-34810-7

Date Collected: 08/11/16 13:00
Matrix: Air
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	77	U	77		ppb v/v			08/16/16 21:14	15.39
Dichlorodifluoromethane	7.7	U	7.7		ppb v/v			08/16/16 21:14	15.39
1,2-Dichlorotetrafluoroethane	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Chloromethane	7.7	U	7.7		ppb v/v			08/16/16 21:14	15.39
Vinyl chloride	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
1,3-Butadiene	**3.8**		3.1		ppb v/v			08/16/16 21:14	15.39
Bromomethane	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Chloroethane	7.7	U	7.7		ppb v/v			08/16/16 21:14	15.39
Trichlorofluoromethane	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Ethanol	77	U	77		ppb v/v			08/16/16 21:14	15.39
Freon TF	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39

Client Sample ID: SS-6
Date Collected: 08/11/16 13:00
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34810-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Acetone	**5300**	**E**	77		ppb v/v			08/16/16 21:14	15.39
Isopropyl alcohol	**11000**	**E**	77		ppb v/v			08/16/16 21:14	15.39
Carbon disulfide	**7.7**		7.7		ppb v/v			08/16/16 21:14	15.39
Methylene Chloride	7.7	U	7.7		ppb v/v			08/16/16 21:14	15.39
Methyl tert-butyl ether	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
trans-1,2-Dichloroethene	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
n-Hexane	**3.2**		3.1		ppb v/v			08/16/16 21:14	15.39
1,1-Dichloroethane	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Vinyl acetate	77	U	77		ppb v/v			08/16/16 21:14	15.39
Ethyl acetate	77	U	77		ppb v/v			08/16/16 21:14	15.39
Methyl Ethyl Ketone	**8.8**		7.7		ppb v/v			08/16/16 21:14	15.39
cis-1,2-Dichloroethene	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Chloroform	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Tetrahydrofuran	77	U	77		ppb v/v			08/16/16 21:14	15.39
1,1,1-Trichloroethane	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Cyclohexane	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Carbon tetrachloride	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Benzene	**5.3**		3.1		ppb v/v			08/16/16 21:14	15.39
1,2-Dichloroethane	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
n-Heptane	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Trichloroethene	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
1,2-Dichloropropane	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Bromodichloromethane	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
cis-1,3-Dichloropropene	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Methyl isobutyl ketone	7.7	U	7.7		ppb v/v			08/16/16 21:14	15.39
Toluene	**6.4**		3.1		ppb v/v			08/16/16 21:14	15.39
trans-1,3-Dichloropropene	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
1,1,2-Trichloroethane	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Tetrachloroethene	**14**		3.1		ppb v/v			08/16/16 21:14	15.39
Methyl Butyl Ketone (2-Hexanone)	7.7	U	7.7		ppb v/v			08/16/16 21:14	15.39
1,2-Dibromoethane	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Chlorobenzene	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Ethylbenzene	**15**		3.1		ppb v/v			08/16/16 21:14	15.39
m,p-Xylene	**57**		7.7		ppb v/v			08/16/16 21:14	15.39
Xylene, o-	**19**		3.1		ppb v/v			08/16/16 21:14	15.39
Styrene	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Bromoform	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
1,1,2,2-Tetrachloroethane	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
4-Ethyltoluene	**12**		3.1		ppb v/v			08/16/16 21:14	15.39
1,3,5-Trimethylbenzene	**18**		3.1		ppb v/v			08/16/16 21:14	15.39
1,2,4-Trimethylbenzene	**58**		3.1		ppb v/v			08/16/16 21:14	15.39
1,3-Dichlorobenzene	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
1,4-Dichlorobenzene	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
Benzyl chloride	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
1,2-Dichlorobenzene	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39
1,2,4-Trichlorobenzene	7.7	U	7.7		ppb v/v			08/16/16 21:14	15.39
Hexachlorobutadiene	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39

Client Sample ID: SS-6
Date Collected: 08/11/16 13:00
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34810-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	7.7	U	7.7		ppb v/v			08/16/16 21:14	15.39
Dibromochloromethane	3.1	U	3.1		ppb v/v			08/16/16 21:14	15.39

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	130	U	130		ug/m3			08/16/16 21:14	15.39
Dichlorodifluoromethane	38	U	38		ug/m3			08/16/16 21:14	15.39
1,2-Dichlorotetrafluoroethane	22	U	22		ug/m3			08/16/16 21:14	15.39
Chloromethane	16	U	16		ug/m3			08/16/16 21:14	15.39
Vinyl chloride	7.9	U	7.9		ug/m3			08/16/16 21:14	15.39
1,3-Butadiene	**8.5**		6.8		ug/m3			08/16/16 21:14	15.39
Bromomethane	12	U	12		ug/m3			08/16/16 21:14	15.39
Chloroethane	20	U	20		ug/m3			08/16/16 21:14	15.39
Trichlorofluoromethane	17	U	17		ug/m3			08/16/16 21:14	15.39
Ethanol	140	U	140		ug/m3			08/16/16 21:14	15.39
Freon TF	24	U	24		ug/m3			08/16/16 21:14	15.39
1,1-Dichloroethene	12	U	12		ug/m3			08/16/16 21:14	15.39
Acetone	**13000**	**E**	180		ug/m3			08/16/16 21:14	15.39
Isopropyl alcohol	**28000**	**E**	190		ug/m3			08/16/16 21:14	15.39
Carbon disulfide	**24**		24		ug/m3			08/16/16 21:14	15.39
Methylene Chloride	27	U	27		ug/m3			08/16/16 21:14	15.39
Methyl tert-butyl ether	11	U	11		ug/m3			08/16/16 21:14	15.39
trans-1,2-Dichloroethene	12	U	12		ug/m3			08/16/16 21:14	15.39
n-Hexane	**11**		11		ug/m3			08/16/16 21:14	15.39
1,1-Dichloroethane	12	U	12		ug/m3			08/16/16 21:14	15.39
Vinyl acetate	270	U	270		ug/m3			08/16/16 21:14	15.39
Ethyl acetate	280	U	280		ug/m3			08/16/16 21:14	15.39
Methyl Ethyl Ketone	**26**		23		ug/m3			08/16/16 21:14	15.39
cis-1,2-Dichloroethene	12	U	12		ug/m3			08/16/16 21:14	15.39
Chloroform	15	U	15		ug/m3			08/16/16 21:14	15.39
Tetrahydrofuran	230	U	230		ug/m3			08/16/16 21:14	15.39
1,1,1-Trichloroethane	17	U	17		ug/m3			08/16/16 21:14	15.39
Cyclohexane	11	U	11		ug/m3			08/16/16 21:14	15.39
Carbon tetrachloride	19	U	19		ug/m3			08/16/16 21:14	15.39
Benzene	**17**		9.8		ug/m3			08/16/16 21:14	15.39
1,2-Dichloroethane	12	U	12		ug/m3			08/16/16 21:14	15.39
n-Heptane	13	U	13		ug/m3			08/16/16 21:14	15.39
Trichloroethene	17	U	17		ug/m3			08/16/16 21:14	15.39
1,2-Dichloropropane	14	U	14		ug/m3			08/16/16 21:14	15.39
Bromodichloromethane	21	U	21		ug/m3			08/16/16 21:14	15.39
cis-1,3-Dichloropropene	14	U	14		ug/m3			08/16/16 21:14	15.39
Methyl isobutyl ketone	32	U	32		ug/m3			08/16/16 21:14	15.39
Toluene	**24**		12		ug/m3			08/16/16 21:14	15.39
trans-1,3-Dichloropropene	14	U	14		ug/m3			08/16/16 21:14	15.39
1,1,2-Trichloroethane	17	U	17		ug/m3			08/16/16 21:14	15.39
Tetrachloroethene	**92**		21		ug/m3			08/16/16 21:14	15.39
Methyl Butyl Ketone (2-Hexanone)	32	U	32		ug/m3			08/16/16 21:14	15.39
1,2-Dibromoethane	24	U	24		ug/m3			08/16/16 21:14	15.39
Chlorobenzene	14	U	14		ug/m3			08/16/16 21:14	15.39
Ethylbenzene	**67**		13		ug/m3			08/16/16 21:14	15.39

Client Sample ID: SS-6

Lab Sample ID: 200-34810-7

Date Collected: 08/11/16 13:00
Matrix: Air
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	**250**		33		ug/m3			08/16/16 21:14	15.39
Xylene, o-	**82**		13		ug/m3			08/16/16 21:14	15.39
Styrene	13	U	13		ug/m3			08/16/16 21:14	15.39
Bromoform	32	U	32		ug/m3			08/16/16 21:14	15.39
1,1,2,2-Tetrachloroethane	21	U	21		ug/m3			08/16/16 21:14	15.39
4-Ethyltoluene	**58**		15		ug/m3			08/16/16 21:14	15.39
1,3,5-Trimethylbenzene	**89**		15		ug/m3			08/16/16 21:14	15.39
1,2,4-Trimethylbenzene	**290**		15		ug/m3			08/16/16 21:14	15.39
1,3-Dichlorobenzene	19	U	19		ug/m3			08/16/16 21:14	15.39
1,4-Dichlorobenzene	19	U	19		ug/m3			08/16/16 21:14	15.39
Benzyl chloride	16	U	16		ug/m3			08/16/16 21:14	15.39
1,2-Dichlorobenzene	19	U	19		ug/m3			08/16/16 21:14	15.39
1,2,4-Trichlorobenzene	57	U	57		ug/m3			08/16/16 21:14	15.39
Hexachlorobutadiene	33	U	33		ug/m3			08/16/16 21:14	15.39
Naphthalene	40	U	40		ug/m3			08/16/16 21:14	15.39
Dibromochloromethane	26	U	26		ug/m3			08/16/16 21:14	15.39

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Benzene, 1-ethyl-2-methyl-	*19*	*J N*	*ppb v/v*		*22.35*	*611-14-3*		*08/16/16 21:14*	*15.39*
Benzene, 1,2,3-trimethyl-	*17*	*J N*	*ppb v/v*		*23.26*	*526-73-8*		*08/16/16 21:14*	*15.39*
Undecane	*37*	*J N*	*ppb v/v*		*23.68*	*1120-21-4*		*08/16/16 21:14*	*15.39*
Dodecane	*48*	*J N*	*ppb v/v*		*25.32*	*112-40-3*		*08/16/16 21:14*	*15.39*
Unknown	*28*	*J*	*ppb v/v*		*25.56*			*08/16/16 21:14*	*15.39*
Cyclopentane, pentyl-	*16*	*J N*	*ppb v/v*		*26.44*	*3741-00-2*		*08/16/16 21:14*	*15.39*
Tridecane	*19*	*J N*	*ppb v/v*		*27.13*	*629-50-5*		*08/16/16 21:14*	*15.39*

Client Sample ID: SS-4

Lab Sample ID: 200-34810-8

Date Collected: 08/11/16 13:23
Matrix: Air
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	13	U	13		ppb v/v			08/16/16 22:05	2.5
Dichlorodifluoromethane	1.3	U	1.3		ppb v/v			08/16/16 22:05	2.5
1,2-Dichlorotetrafluoroethane	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Chloromethane	1.3	U	1.3		ppb v/v			08/16/16 22:05	2.5
Vinyl chloride	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
1,3-Butadiene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Bromomethane	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Chloroethane	1.3	U	1.3		ppb v/v			08/16/16 22:05	2.5
Trichlorofluoromethane	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Ethanol	**15**		13		ppb v/v			08/16/16 22:05	2.5
Freon TF	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
1,1-Dichloroethene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Acetone	**34**		13		ppb v/v			08/16/16 22:05	2.5
Isopropyl alcohol	**60**		13		ppb v/v			08/16/16 22:05	2.5
Carbon disulfide	**2.5**		1.3		ppb v/v			08/16/16 22:05	2.5
Methylene Chloride	1.3	U	1.3		ppb v/v			08/16/16 22:05	2.5

Client Sample ID: SS-4
Date Collected: 08/11/16 13:23
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34810-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
trans-1,2-Dichloroethene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
n-Hexane	**0.55**		0.50		ppb v/v			08/16/16 22:05	2.5
1,1-Dichloroethane	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Vinyl acetate	13	U	13		ppb v/v			08/16/16 22:05	2.5
Ethyl acetate	13	U	13		ppb v/v			08/16/16 22:05	2.5
Methyl Ethyl Ketone	**3.8**		1.3		ppb v/v			08/16/16 22:05	2.5
cis-1,2-Dichloroethene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Chloroform	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Tetrahydrofuran	13	U	13		ppb v/v			08/16/16 22:05	2.5
1,1,1-Trichloroethane	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Cyclohexane	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Carbon tetrachloride	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Benzene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
1,2-Dichloroethane	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
n-Heptane	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Trichloroethene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
1,2-Dichloropropane	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Bromodichloromethane	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
cis-1,3-Dichloropropene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Methyl isobutyl ketone	1.3	U	1.3		ppb v/v			08/16/16 22:05	2.5
Toluene	**0.58**		0.50		ppb v/v			08/16/16 22:05	2.5
trans-1,3-Dichloropropene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
1,1,2-Trichloroethane	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Tetrachloroethene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Methyl Butyl Ketone (2-Hexanone)	1.3	U	1.3		ppb v/v			08/16/16 22:05	2.5
1,2-Dibromoethane	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Chlorobenzene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Ethylbenzene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
m,p-Xylene	1.3	U	1.3		ppb v/v			08/16/16 22:05	2.5
Xylene, o-	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Styrene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Bromoform	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
4-Ethyltoluene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
1,3,5-Trimethylbenzene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
1,2,4-Trimethylbenzene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
1,3-Dichlorobenzene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
1,4-Dichlorobenzene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Benzyl chloride	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
1,2-Dichlorobenzene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
1,2,4-Trichlorobenzene	1.3	U	1.3		ppb v/v			08/16/16 22:05	2.5
Hexachlorobutadiene	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5
Naphthalene	1.3	U	1.3		ppb v/v			08/16/16 22:05	2.5
Dibromochloromethane	0.50	U	0.50		ppb v/v			08/16/16 22:05	2.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	22	U	22		ug/m3			08/16/16 22:05	2.5
Dichlorodifluoromethane	6.2	U	6.2		ug/m3			08/16/16 22:05	2.5

Client Sample ID: SS-4
Date Collected: 08/11/16 13:23
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34810-8
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorotetrafluoroethane	3.5	U	3.5		ug/m3			08/16/16 22:05	2.5
Chloromethane	2.6	U	2.6		ug/m3			08/16/16 22:05	2.5
Vinyl chloride	1.3	U	1.3		ug/m3			08/16/16 22:05	2.5
1,3-Butadiene	1.1	U	1.1		ug/m3			08/16/16 22:05	2.5
Bromomethane	1.9	U	1.9		ug/m3			08/16/16 22:05	2.5
Chloroethane	3.3	U	3.3		ug/m3			08/16/16 22:05	2.5
Trichlorofluoromethane	2.8	U	2.8		ug/m3			08/16/16 22:05	2.5
Ethanol	**29**		24		ug/m3			08/16/16 22:05	2.5
Freon TF	3.8	U	3.8		ug/m3			08/16/16 22:05	2.5
1,1-Dichloroethene	2.0	U	2.0		ug/m3			08/16/16 22:05	2.5
Acetone	**81**		30		ug/m3			08/16/16 22:05	2.5
Isopropyl alcohol	**150**		31		ug/m3			08/16/16 22:05	2.5
Carbon disulfide	**7.9**		3.9		ug/m3			08/16/16 22:05	2.5
Methylene Chloride	4.3	U	4.3		ug/m3			08/16/16 22:05	2.5
Methyl tert-butyl ether	1.8	U	1.8		ug/m3			08/16/16 22:05	2.5
trans-1,2-Dichloroethene	2.0	U	2.0		ug/m3			08/16/16 22:05	2.5
n-Hexane	**1.9**		1.8		ug/m3			08/16/16 22:05	2.5
1,1-Dichloroethane	2.0	U	2.0		ug/m3			08/16/16 22:05	2.5
Vinyl acetate	44	U	44		ug/m3			08/16/16 22:05	2.5
Ethyl acetate	45	U	45		ug/m3			08/16/16 22:05	2.5
Methyl Ethyl Ketone	**11**		3.7		ug/m3			08/16/16 22:05	2.5
cis-1,2-Dichloroethene	2.0	U	2.0		ug/m3			08/16/16 22:05	2.5
Chloroform	2.4	U	2.4		ug/m3			08/16/16 22:05	2.5
Tetrahydrofuran	37	U	37		ug/m3			08/16/16 22:05	2.5
1,1,1-Trichloroethane	2.7	U	2.7		ug/m3			08/16/16 22:05	2.5
Cyclohexane	1.7	U	1.7		ug/m3			08/16/16 22:05	2.5
Carbon tetrachloride	3.1	U	3.1		ug/m3			08/16/16 22:05	2.5
Benzene	1.6	U	1.6		ug/m3			08/16/16 22:05	2.5
1,2-Dichloroethane	2.0	U	2.0		ug/m3			08/16/16 22:05	2.5
n-Heptane	2.0	U	2.0		ug/m3			08/16/16 22:05	2.5
Trichloroethene	2.7	U	2.7		ug/m3			08/16/16 22:05	2.5
1,2-Dichloropropane	2.3	U	2.3		ug/m3			08/16/16 22:05	2.5
Bromodichloromethane	3.4	U	3.4		ug/m3			08/16/16 22:05	2.5
cis-1,3-Dichloropropene	2.3	U	2.3		ug/m3			08/16/16 22:05	2.5
Methyl isobutyl ketone	5.1	U	5.1		ug/m3			08/16/16 22:05	2.5
Toluene	**2.2**		1.9		ug/m3			08/16/16 22:05	2.5
trans-1,3-Dichloropropene	2.3	U	2.3		ug/m3			08/16/16 22:05	2.5
1,1,2-Trichloroethane	2.7	U	2.7		ug/m3			08/16/16 22:05	2.5
Tetrachloroethene	3.4	U	3.4		ug/m3			08/16/16 22:05	2.5
Methyl Butyl Ketone (2-Hexanone)	5.1	U	5.1		ug/m3			08/16/16 22:05	2.5
1,2-Dibromoethane	3.8	U	3.8		ug/m3			08/16/16 22:05	2.5
Chlorobenzene	2.3	U	2.3		ug/m3			08/16/16 22:05	2.5
Ethylbenzene	2.2	U	2.2		ug/m3			08/16/16 22:05	2.5
m,p-Xylene	5.4	U	5.4		ug/m3			08/16/16 22:05	2.5
Xylene, o-	2.2	U	2.2		ug/m3			08/16/16 22:05	2.5
Styrene	2.1	U	2.1		ug/m3			08/16/16 22:05	2.5
Bromoform	5.2	U	5.2		ug/m3			08/16/16 22:05	2.5
1,1,2,2-Tetrachloroethane	3.4	U	3.4		ug/m3			08/16/16 22:05	2.5

Client Sample ID: SS-4

Lab Sample ID: 200-34810-8
Matrix: Air
Date Collected: 08/11/16 13:23
Date Received: 08/12/16 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Ethyltoluene	2.5	U	2.5		ug/m3			08/16/16 22:05	2.5
1,3,5-Trimethylbenzene	2.5	U	2.5		ug/m3			08/16/16 22:05	2.5
1,2,4-Trimethylbenzene	2.5	U	2.5		ug/m3			08/16/16 22:05	2.5
1,3-Dichlorobenzene	3.0	U	3.0		ug/m3			08/16/16 22:05	2.5
1,4-Dichlorobenzene	3.0	U	3.0		ug/m3			08/16/16 22:05	2.5
Benzyl chloride	2.6	U	2.6		ug/m3			08/16/16 22:05	2.5
1,2-Dichlorobenzene	3.0	U	3.0		ug/m3			08/16/16 22:05	2.5
1,2,4-Trichlorobenzene	9.3	U	9.3		ug/m3			08/16/16 22:05	2.5
Hexachlorobutadiene	5.3	U	5.3		ug/m3			08/16/16 22:05	2.5
Naphthalene	6.6	U	6.6		ug/m3			08/16/16 22:05	2.5
Dibromochloromethane	4.3	U	4.3		ug/m3			08/16/16 22:05	2.5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Silanol, trimethyl-	*5.9*	*J N*	*ppb v/v*		*9.80*	*1066-40-6*		*08/16/16 22:05*	*2.5*
Cyclotrisiloxane, hexamethyl-	*6.4*	*J N*	*ppb v/v*		*16.37*	*541-05-9*		*08/16/16 22:05*	*2.5*

Client Sample ID: SG-1

Lab Sample ID: 200-34851-1
Matrix: Air
Date Collected: 08/10/16 11:55
Date Received: 08/15/16 09:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	**48**		13		ppb v/v			08/16/16 22:55	2.5
Dichlorodifluoromethane	1.3	U	1.3		ppb v/v			08/16/16 22:55	2.5
1,2-Dichlorotetrafluoroethane	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Chloromethane	1.3	U	1.3		ppb v/v			08/16/16 22:55	2.5
Vinyl chloride	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
1,3-Butadiene	**4.2**		0.50		ppb v/v			08/16/16 22:55	2.5
Bromomethane	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Chloroethane	1.3	U	1.3		ppb v/v			08/16/16 22:55	2.5
Trichlorofluoromethane	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Ethanol	13	U	13		ppb v/v			08/16/16 22:55	2.5
Freon TF	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
1,1-Dichloroethene	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Acetone	**83**		13		ppb v/v			08/16/16 22:55	2.5
Isopropyl alcohol	13	U	13		ppb v/v			08/16/16 22:55	2.5
Carbon disulfide	**2.6**		1.3		ppb v/v			08/16/16 22:55	2.5
Methylene Chloride	1.3	U	1.3		ppb v/v			08/16/16 22:55	2.5
Methyl tert-butyl ether	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
trans-1,2-Dichloroethene	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
n-Hexane	**1.9**		0.50		ppb v/v			08/16/16 22:55	2.5
1,1-Dichloroethane	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Vinyl acetate	13	U	13		ppb v/v			08/16/16 22:55	2.5
Ethyl acetate	13	U	13		ppb v/v			08/16/16 22:55	2.5
Methyl Ethyl Ketone	**7.2**		1.3		ppb v/v			08/16/16 22:55	2.5
cis-1,2-Dichloroethene	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Chloroform	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Tetrahydrofuran	13	U	13		ppb v/v			08/16/16 22:55	2.5

Client Sample ID: SG-1
Date Collected: 08/10/16 11:55
Date Received: 08/15/16 09:00
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34851-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Cyclohexane	**0.65**		0.50		ppb v/v			08/16/16 22:55	2.5
Carbon tetrachloride	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Benzene	**1.9**		0.50		ppb v/v			08/16/16 22:55	2.5
1,2-Dichloroethane	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
n-Heptane	**1.4**		0.50		ppb v/v			08/16/16 22:55	2.5
Trichloroethene	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
1,2-Dichloropropane	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Bromodichloromethane	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
cis-1,3-Dichloropropene	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Methyl isobutyl ketone	1.3	U	1.3		ppb v/v			08/16/16 22:55	2.5
Toluene	**9.9**		0.50		ppb v/v			08/16/16 22:55	2.5
trans-1,3-Dichloropropene	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
1,1,2-Trichloroethane	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Tetrachloroethene	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Methyl Butyl Ketone (2-Hexanone)	1.3	U	1.3		ppb v/v			08/16/16 22:55	2.5
1,2-Dibromoethane	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Chlorobenzene	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Ethylbenzene	**4.0**		0.50		ppb v/v			08/16/16 22:55	2.5
m,p-Xylene	**8.7**		1.3		ppb v/v			08/16/16 22:55	2.5
Xylene, o-	**3.7**		0.50		ppb v/v			08/16/16 22:55	2.5
Styrene	**0.80**		0.50		ppb v/v			08/16/16 22:55	2.5
Bromoform	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
4-Ethyltoluene	**1.4**		0.50		ppb v/v			08/16/16 22:55	2.5
1,3,5-Trimethylbenzene	**1.8**		0.50		ppb v/v			08/16/16 22:55	2.5
1,2,4-Trimethylbenzene	**6.2**		0.50		ppb v/v			08/16/16 22:55	2.5
1,3-Dichlorobenzene	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
1,4-Dichlorobenzene	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Benzyl chloride	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
1,2-Dichlorobenzene	**0.69**		0.50		ppb v/v			08/16/16 22:55	2.5
1,2,4-Trichlorobenzene	1.3	U	1.3		ppb v/v			08/16/16 22:55	2.5
Hexachlorobutadiene	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5
Naphthalene	1.3	U	1.3		ppb v/v			08/16/16 22:55	2.5
Dibromochloromethane	0.50	U	0.50		ppb v/v			08/16/16 22:55	2.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	**82**		22		ug/m3			08/16/16 22:55	2.5
Dichlorodifluoromethane	6.2	U	6.2		ug/m3			08/16/16 22:55	2.5
1,2-Dichlorotetrafluoroethane	3.5	U	3.5		ug/m3			08/16/16 22:55	2.5
Chloromethane	2.6	U	2.6		ug/m3			08/16/16 22:55	2.5
Vinyl chloride	1.3	U	1.3		ug/m3			08/16/16 22:55	2.5
1,3-Butadiene	**9.2**		1.1		ug/m3			08/16/16 22:55	2.5
Bromomethane	1.9	U	1.9		ug/m3			08/16/16 22:55	2.5
Chloroethane	3.3	U	3.3		ug/m3			08/16/16 22:55	2.5
Trichlorofluoromethane	2.8	U	2.8		ug/m3			08/16/16 22:55	2.5
Ethanol	24	U	24		ug/m3			08/16/16 22:55	2.5
Freon TF	3.8	U	3.8		ug/m3			08/16/16 22:55	2.5
1,1-Dichloroethene	2.0	U	2.0		ug/m3			08/16/16 22:55	2.5

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Client Sample ID: SG-1
Date Collected: 08/10/16 11:55
Date Received: 08/15/16 09:00
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34851-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**200**		30		ug/m3			08/16/16 22:55	2.5
Isopropyl alcohol	31	U	31		ug/m3			08/16/16 22:55	2.5
Carbon disulfide	**8.1**		3.9		ug/m3			08/16/16 22:55	2.5
Methylene Chloride	4.3	U	4.3		ug/m3			08/16/16 22:55	2.5
Methyl tert-butyl ether	1.8	U	1.8		ug/m3			08/16/16 22:55	2.5
trans-1,2-Dichloroethene	2.0	U	2.0		ug/m3			08/16/16 22:55	2.5
n-Hexane	**6.8**		1.8		ug/m3			08/16/16 22:55	2.5
1,1-Dichloroethane	2.0	U	2.0		ug/m3			08/16/16 22:55	2.5
Vinyl acetate	44	U	44		ug/m3			08/16/16 22:55	2.5
Ethyl acetate	45	U	45		ug/m3			08/16/16 22:55	2.5
Methyl Ethyl Ketone	**21**		3.7		ug/m3			08/16/16 22:55	2.5
cis-1,2-Dichloroethene	2.0	U	2.0		ug/m3			08/16/16 22:55	2.5
Chloroform	2.4	U	2.4		ug/m3			08/16/16 22:55	2.5
Tetrahydrofuran	37	U	37		ug/m3			08/16/16 22:55	2.5
1,1,1-Trichloroethane	2.7	U	2.7		ug/m3			08/16/16 22:55	2.5
Cyclohexane	**2.2**		1.7		ug/m3			08/16/16 22:55	2.5
Carbon tetrachloride	3.1	U	3.1		ug/m3			08/16/16 22:55	2.5
Benzene	**6.0**		1.6		ug/m3			08/16/16 22:55	2.5
1,2-Dichloroethane	2.0	U	2.0		ug/m3			08/16/16 22:55	2.5
n-Heptane	**5.7**		2.0		ug/m3			08/16/16 22:55	2.5
Trichloroethene	2.7	U	2.7		ug/m3			08/16/16 22:55	2.5
1,2-Dichloropropane	2.3	U	2.3		ug/m3			08/16/16 22:55	2.5
Bromodichloromethane	3.4	U	3.4		ug/m3			08/16/16 22:55	2.5
cis-1,3-Dichloropropene	2.3	U	2.3		ug/m3			08/16/16 22:55	2.5
Methyl isobutyl ketone	5.1	U	5.1		ug/m3			08/16/16 22:55	2.5
Toluene	**37**		1.9		ug/m3			08/16/16 22:55	2.5
trans-1,3-Dichloropropene	2.3	U	2.3		ug/m3			08/16/16 22:55	2.5
1,1,2-Trichloroethane	2.7	U	2.7		ug/m3			08/16/16 22:55	2.5
Tetrachloroethene	3.4	U	3.4		ug/m3			08/16/16 22:55	2.5
Methyl Butyl Ketone (2-Hexanone)	5.1	U	5.1		ug/m3			08/16/16 22:55	2.5
1,2-Dibromoethane	3.8	U	3.8		ug/m3			08/16/16 22:55	2.5
Chlorobenzene	2.3	U	2.3		ug/m3			08/16/16 22:55	2.5
Ethylbenzene	**17**		2.2		ug/m3			08/16/16 22:55	2.5
m,p-Xylene	**38**		5.4		ug/m3			08/16/16 22:55	2.5
Xylene, o-	**16**		2.2		ug/m3			08/16/16 22:55	2.5
Styrene	**3.4**		2.1		ug/m3			08/16/16 22:55	2.5
Bromoform	5.2	U	5.2		ug/m3			08/16/16 22:55	2.5
1,1,2,2-Tetrachloroethane	3.4	U	3.4		ug/m3			08/16/16 22:55	2.5
4-Ethyltoluene	**7.0**		2.5		ug/m3			08/16/16 22:55	2.5
1,3,5-Trimethylbenzene	**8.7**		2.5		ug/m3			08/16/16 22:55	2.5
1,2,4-Trimethylbenzene	**30**		2.5		ug/m3			08/16/16 22:55	2.5
1,3-Dichlorobenzene	3.0	U	3.0		ug/m3			08/16/16 22:55	2.5
1,4-Dichlorobenzene	3.0	U	3.0		ug/m3			08/16/16 22:55	2.5
Benzyl chloride	2.6	U	2.6		ug/m3			08/16/16 22:55	2.5
1,2-Dichlorobenzene	**4.2**		3.0		ug/m3			08/16/16 22:55	2.5
1,2,4-Trichlorobenzene	9.3	U	9.3		ug/m3			08/16/16 22:55	2.5
Hexachlorobutadiene	5.3	U	5.3		ug/m3			08/16/16 22:55	2.5
Naphthalene	6.6	U	6.6		ug/m3			08/16/16 22:55	2.5

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Client Sample ID: SG-1
Date Collected: 08/10/16 11:55
Date Received: 08/15/16 09:00
Sample Container: Summa Canister 6L

Lab Sample ID: 200-34851-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	4.3	U	4.3		ug/m3			08/16/16 22:55	2.5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1-Propene, 2-methyl-	*12*	*J N*	*ppb v/v*		*3.71*	*115-11-7*		*08/16/16 22:55*	*2.5*
Unknown	*17*	*J*	*ppb v/v*		*4.09*			*08/16/16 22:55*	*2.5*
Isoprene	*11*	*J N*	*ppb v/v*		*5.88*	*78-79-5*		*08/16/16 22:55*	*2.5*
Pentane, 2,3,4-trimethyl-	*8.4*	*J N*	*ppb v/v*		*14.11*	*565-75-3*		*08/16/16 22:55*	*2.5*
Unknown	*12*	*J*	*ppb v/v*		*14.38*			*08/16/16 22:55*	*2.5*
1-Decene	*9.3*	*J N*	*ppb v/v*		*21.80*	*872-05-9*		*08/16/16 22:55*	*2.5*
Unknown	*8.8*	*J*	*ppb v/v*		*22.80*			*08/16/16 22:55*	*2.5*
Unknown	*8.7*	*J*	*ppb v/v*		*23.16*			*08/16/16 22:55*	*2.5*
Unknown	*14*	*J*	*ppb v/v*		*24.12*			*08/16/16 22:55*	*2.5*
Dodecane	*11*	*J N*	*ppb v/v*		*25.32*	*112-40-3*		*08/16/16 22:55*	*2.5*

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-108221/7
Matrix: Air
Analysis Batch: 108221

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	5.0	U	5.0		ppb v/v			08/16/16 14:32	1
Dichlorodifluoromethane	0.50	U	0.50		ppb v/v			08/16/16 14:32	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Chloromethane	0.50	U	0.50		ppb v/v			08/16/16 14:32	1
Vinyl chloride	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
1,3-Butadiene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Bromomethane	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Chloroethane	0.50	U	0.50		ppb v/v			08/16/16 14:32	1
Trichlorofluoromethane	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Ethanol	5.0	U	5.0		ppb v/v			08/16/16 14:32	1
Freon TF	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
1,1-Dichloroethene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Acetone	5.0	U	5.0		ppb v/v			08/16/16 14:32	1
Isopropyl alcohol	5.0	U	5.0		ppb v/v			08/16/16 14:32	1
Carbon disulfide	0.50	U	0.50		ppb v/v			08/16/16 14:32	1
Methylene Chloride	0.50	U	0.50		ppb v/v			08/16/16 14:32	1
Methyl tert-butyl ether	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
trans-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
n-Hexane	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
1,1-Dichloroethane	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Vinyl acetate	5.0	U	5.0		ppb v/v			08/16/16 14:32	1
Ethyl acetate	5.0	U	5.0		ppb v/v			08/16/16 14:32	1
Methyl Ethyl Ketone	0.50	U	0.50		ppb v/v			08/16/16 14:32	1
cis-1,2-Dichloroethene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Chloroform	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Tetrahydrofuran	5.0	U	5.0		ppb v/v			08/16/16 14:32	1
1,1,1-Trichloroethane	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Cyclohexane	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Carbon tetrachloride	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Benzene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
1,2-Dichloroethane	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
n-Heptane	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Trichloroethene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
1,2-Dichloropropane	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Bromodichloromethane	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
cis-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Methyl isobutyl ketone	0.50	U	0.50		ppb v/v			08/16/16 14:32	1
Toluene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
trans-1,3-Dichloropropene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
1,1,2-Trichloroethane	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Tetrachloroethene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50		ppb v/v			08/16/16 14:32	1
1,2-Dibromoethane	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Chlorobenzene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Ethylbenzene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
m,p-Xylene	0.50	U	0.50		ppb v/v			08/16/16 14:32	1
Xylene, o-	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Styrene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-108221/7
Matrix: Air
Analysis Batch: 108221

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
4-Ethyltoluene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
1,3,5-Trimethylbenzene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
1,2,4-Trimethylbenzene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
1,3-Dichlorobenzene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
1,4-Dichlorobenzene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Benzyl chloride	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
1,2-Dichlorobenzene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ppb v/v			08/16/16 14:32	1
Hexachlorobutadiene	0.20	U	0.20		ppb v/v			08/16/16 14:32	1
Naphthalene	0.50	U	0.50		ppb v/v			08/16/16 14:32	1
Dibromochloromethane	0.20	U	0.20		ppb v/v			08/16/16 14:32	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	8.6	U	8.6		ug/m3			08/16/16 14:32	1
Dichlorodifluoromethane	2.5	U	2.5		ug/m3			08/16/16 14:32	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4		ug/m3			08/16/16 14:32	1
Chloromethane	1.0	U	1.0		ug/m3			08/16/16 14:32	1
Vinyl chloride	0.51	U	0.51		ug/m3			08/16/16 14:32	1
1,3-Butadiene	0.44	U	0.44		ug/m3			08/16/16 14:32	1
Bromomethane	0.78	U	0.78		ug/m3			08/16/16 14:32	1
Chloroethane	1.3	U	1.3		ug/m3			08/16/16 14:32	1
Trichlorofluoromethane	1.1	U	1.1		ug/m3			08/16/16 14:32	1
Ethanol	9.4	U	9.4		ug/m3			08/16/16 14:32	1
Freon TF	1.5	U	1.5		ug/m3			08/16/16 14:32	1
1,1-Dichloroethene	0.79	U	0.79		ug/m3			08/16/16 14:32	1
Acetone	12	U	12		ug/m3			08/16/16 14:32	1
Isopropyl alcohol	12	U	12		ug/m3			08/16/16 14:32	1
Carbon disulfide	1.6	U	1.6		ug/m3			08/16/16 14:32	1
Methylene Chloride	1.7	U	1.7		ug/m3			08/16/16 14:32	1
Methyl tert-butyl ether	0.72	U	0.72		ug/m3			08/16/16 14:32	1
trans-1,2-Dichloroethene	0.79	U	0.79		ug/m3			08/16/16 14:32	1
n-Hexane	0.70	U	0.70		ug/m3			08/16/16 14:32	1
1,1-Dichloroethane	0.81	U	0.81		ug/m3			08/16/16 14:32	1
Vinyl acetate	18	U	18		ug/m3			08/16/16 14:32	1
Ethyl acetate	18	U	18		ug/m3			08/16/16 14:32	1
Methyl Ethyl Ketone	1.5	U	1.5		ug/m3			08/16/16 14:32	1
cis-1,2-Dichloroethene	0.79	U	0.79		ug/m3			08/16/16 14:32	1
Chloroform	0.98	U	0.98		ug/m3			08/16/16 14:32	1
Tetrahydrofuran	15	U	15		ug/m3			08/16/16 14:32	1
1,1,1-Trichloroethane	1.1	U	1.1		ug/m3			08/16/16 14:32	1
Cyclohexane	0.69	U	0.69		ug/m3			08/16/16 14:32	1
Carbon tetrachloride	1.3	U	1.3		ug/m3			08/16/16 14:32	1
Benzene	0.64	U	0.64		ug/m3			08/16/16 14:32	1
1,2-Dichloroethane	0.81	U	0.81		ug/m3			08/16/16 14:32	1
n-Heptane	0.82	U	0.82		ug/m3			08/16/16 14:32	1
Trichloroethene	1.1	U	1.1		ug/m3			08/16/16 14:32	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-108221/7
Matrix: Air
Analysis Batch: 108221

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.92	U	0.92		ug/m3			08/16/16 14:32	1
Bromodichloromethane	1.3	U	1.3		ug/m3			08/16/16 14:32	1
cis-1,3-Dichloropropene	0.91	U	0.91		ug/m3			08/16/16 14:32	1
Methyl isobutyl ketone	2.0	U	2.0		ug/m3			08/16/16 14:32	1
Toluene	0.75	U	0.75		ug/m3			08/16/16 14:32	1
trans-1,3-Dichloropropene	0.91	U	0.91		ug/m3			08/16/16 14:32	1
1,1,2-Trichloroethane	1.1	U	1.1		ug/m3			08/16/16 14:32	1
Tetrachloroethene	1.4	U	1.4		ug/m3			08/16/16 14:32	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0		ug/m3			08/16/16 14:32	1
1,2-Dibromoethane	1.5	U	1.5		ug/m3			08/16/16 14:32	1
Chlorobenzene	0.92	U	0.92		ug/m3			08/16/16 14:32	1
Ethylbenzene	0.87	U	0.87		ug/m3			08/16/16 14:32	1
m,p-Xylene	2.2	U	2.2		ug/m3			08/16/16 14:32	1
Xylene, o-	0.87	U	0.87		ug/m3			08/16/16 14:32	1
Styrene	0.85	U	0.85		ug/m3			08/16/16 14:32	1
Bromoform	2.1	U	2.1		ug/m3			08/16/16 14:32	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4		ug/m3			08/16/16 14:32	1
4-Ethyltoluene	0.98	U	0.98		ug/m3			08/16/16 14:32	1
1,3,5-Trimethylbenzene	0.98	U	0.98		ug/m3			08/16/16 14:32	1
1,2,4-Trimethylbenzene	0.98	U	0.98		ug/m3			08/16/16 14:32	1
1,3-Dichlorobenzene	1.2	U	1.2		ug/m3			08/16/16 14:32	1
1,4-Dichlorobenzene	1.2	U	1.2		ug/m3			08/16/16 14:32	1
Benzyl chloride	1.0	U	1.0		ug/m3			08/16/16 14:32	1
1,2-Dichlorobenzene	1.2	U	1.2		ug/m3			08/16/16 14:32	1
1,2,4-Trichlorobenzene	3.7	U	3.7		ug/m3			08/16/16 14:32	1
Hexachlorobutadiene	2.1	U	2.1		ug/m3			08/16/16 14:32	1
Naphthalene	2.6	U	2.6		ug/m3			08/16/16 14:32	1
Dibromochloromethane	1.7	U	1.7		ug/m3			08/16/16 14:32	1

Tentatively Identified Compound	*Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ppb v/v*					*08/16/16 14:32*	*1*

Lab Sample ID: LCS 200-108221/6
Matrix: Air
Analysis Batch: 108221

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Propylene	10.0	11.1		ppb v/v		111	58 - 129
Dichlorodifluoromethane	10.0	10.5		ppb v/v		105	68 - 128
1,2-Dichlorotetrafluoroethane	10.0	10.5		ppb v/v		105	78 - 138
Chloromethane	10.0	11.0		ppb v/v		110	57 - 126
Vinyl chloride	10.0	10.6		ppb v/v		106	62 - 125
1,3-Butadiene	10.0	11.1		ppb v/v		111	59 - 125
Bromomethane	10.0	10.3		ppb v/v		103	68 - 128
Chloroethane	10.0	10.7		ppb v/v		107	65 - 125
Trichlorofluoromethane	10.0	10.1		ppb v/v		101	67 - 127
Ethanol	15.0	15.2		ppb v/v		102	28 - 168
Freon TF	10.0	9.91		ppb v/v		99	68 - 128

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-108221/6
Matrix: Air
Analysis Batch: 108221

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	10.2		ppb v/v		102	67 - 127
Acetone	10.0	11.1		ppb v/v		111	64 - 136
Isopropyl alcohol	10.0	10.9		ppb v/v		109	55 - 124
Carbon disulfide	10.0	10.4		ppb v/v		104	81 - 141
Methylene Chloride	10.0	10.9		ppb v/v		109	62 - 122
Methyl tert-butyl ether	10.0	10.6		ppb v/v		106	67 - 127
trans-1,2-Dichloroethene	10.0	10.7		ppb v/v		107	72 - 132
n-Hexane	10.0	10.7		ppb v/v		107	71 - 131
1,1-Dichloroethane	10.0	10.4		ppb v/v		104	66 - 126
Vinyl acetate	10.0	10.9		ppb v/v		109	62 - 130
Ethyl acetate	10.0	9.99		ppb v/v		100	75 - 135
Methyl Ethyl Ketone	10.0	10.4		ppb v/v		104	62 - 122
cis-1,2-Dichloroethene	10.0	10.0		ppb v/v		100	67 - 127
Chloroform	10.0	10.2		ppb v/v		102	69 - 129
Tetrahydrofuran	10.0	10.8		ppb v/v		108	61 - 136
1,1,1-Trichloroethane	10.0	10.3		ppb v/v		103	70 - 130
Cyclohexane	10.0	10.3		ppb v/v		103	69 - 129
Carbon tetrachloride	10.0	10.1		ppb v/v		101	62 - 143
Benzene	10.0	10.1		ppb v/v		101	67 - 127
1,2-Dichloroethane	10.0	10.5		ppb v/v		105	67 - 132
n-Heptane	10.0	10.7		ppb v/v		107	62 - 130
Trichloroethene	10.0	9.79		ppb v/v		98	68 - 128
1,2-Dichloropropane	10.0	10.3		ppb v/v		103	67 - 127
Bromodichloromethane	10.0	10.2		ppb v/v		102	69 - 129
cis-1,3-Dichloropropene	10.0	10.3		ppb v/v		103	70 - 130
Methyl isobutyl ketone	10.0	10.7		ppb v/v		107	62 - 130
Toluene	10.0	10.0		ppb v/v		100	67 - 127
trans-1,3-Dichloropropene	10.0	10.1		ppb v/v		101	69 - 129
1,1,2-Trichloroethane	10.0	10.1		ppb v/v		101	69 - 129
Tetrachloroethene	10.0	9.51		ppb v/v		95	70 - 130
Methyl Butyl Ketone (2-Hexanone)	10.0	10.5		ppb v/v		105	61 - 127
1,2-Dibromoethane	10.0	9.95		ppb v/v		100	70 - 130
Chlorobenzene	10.0	9.78		ppb v/v		98	68 - 128
Ethylbenzene	10.0	10.1		ppb v/v		101	68 - 128
m,p-Xylene	20.0	20.1		ppb v/v		101	68 - 128
Xylene, o-	10.0	9.92		ppb v/v		99	67 - 127
Styrene	10.0	10.2		ppb v/v		102	68 - 128
Bromoform	10.0	9.37		ppb v/v		94	34 - 170
1,1,2,2-Tetrachloroethane	10.0	10.2		ppb v/v		102	69 - 129
4-Ethyltoluene	10.0	10.3		ppb v/v		103	69 - 129
1,3,5-Trimethylbenzene	10.0	10.1		ppb v/v		101	65 - 125
1,2,4-Trimethylbenzene	10.0	10.2		ppb v/v		102	65 - 125
1,3-Dichlorobenzene	10.0	9.78		ppb v/v		98	67 - 127
1,4-Dichlorobenzene	10.0	9.83		ppb v/v		98	66 - 126
Benzyl chloride	10.0	10.0		ppb v/v		100	54 - 135
1,2-Dichlorobenzene	10.0	9.75		ppb v/v		97	67 - 127
1,2,4-Trichlorobenzene	10.0	9.18		ppb v/v		92	59 - 126

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-108221/6
Matrix: Air
Analysis Batch: 108221

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	10.0	9.46		ppb v/v		95	62 - 130
Naphthalene	10.0	8.89		ppb v/v		89	50 - 121
Dibromochloromethane	10.0	9.89		ppb v/v		99	66 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Propylene	17	19.0		ug/m3		111	58 - 129
Dichlorodifluoromethane	49	52.1		ug/m3		105	68 - 128
1,2-Dichlorotetrafluoroethane	70	73.3		ug/m3		105	78 - 138
Chloromethane	21	22.7		ug/m3		110	57 - 126
Vinyl chloride	26	27.2		ug/m3		106	62 - 125
1,3-Butadiene	22	24.6		ug/m3		111	59 - 125
Bromomethane	39	39.9		ug/m3		103	68 - 128
Chloroethane	26	28.4		ug/m3		107	65 - 125
Trichlorofluoromethane	56	56.8		ug/m3		101	67 - 127
Ethanol	28	28.7		ug/m3		102	28 - 168
Freon TF	77	76.0		ug/m3		99	68 - 128
1,1-Dichloroethene	40	40.3		ug/m3		102	67 - 127
Acetone	24	26.5		ug/m3		111	64 - 136
Isopropyl alcohol	25	26.8		ug/m3		109	55 - 124
Carbon disulfide	31	32.5		ug/m3		104	81 - 141
Methylene Chloride	35	37.7		ug/m3		109	62 - 122
Methyl tert-butyl ether	36	38.2		ug/m3		106	67 - 127
trans-1,2-Dichloroethene	40	42.4		ug/m3		107	72 - 132
n-Hexane	35	37.8		ug/m3		107	71 - 131
1,1-Dichloroethane	40	42.3		ug/m3		104	66 - 126
Vinyl acetate	35	38.5		ug/m3		109	62 - 130
Ethyl acetate	36	36.0		ug/m3		100	75 - 135
Methyl Ethyl Ketone	29	30.8		ug/m3		104	62 - 122
cis-1,2-Dichloroethene	40	39.8		ug/m3		100	67 - 127
Chloroform	49	50.0		ug/m3		102	69 - 129
Tetrahydrofuran	29	31.9		ug/m3		108	61 - 136
1,1,1-Trichloroethane	55	56.1		ug/m3		103	70 - 130
Cyclohexane	34	35.5		ug/m3		103	69 - 129
Carbon tetrachloride	63	63.7		ug/m3		101	62 - 143
Benzene	32	32.1		ug/m3		101	67 - 127
1,2-Dichloroethane	40	42.6		ug/m3		105	67 - 132
n-Heptane	41	44.0		ug/m3		107	62 - 130
Trichloroethene	54	52.6		ug/m3		98	68 - 128
1,2-Dichloropropane	46	47.8		ug/m3		103	67 - 127
Bromodichloromethane	67	68.2		ug/m3		102	69 - 129
cis-1,3-Dichloropropene	45	46.6		ug/m3		103	70 - 130
Methyl isobutyl ketone	41	44.0		ug/m3		107	62 - 130
Toluene	38	37.8		ug/m3		100	67 - 127
trans-1,3-Dichloropropene	45	46.0		ug/m3		101	69 - 129
1,1,2-Trichloroethane	55	54.8		ug/m3		101	69 - 129
Tetrachloroethene	68	64.5		ug/m3		95	70 - 130
Methyl Butyl Ketone (2-Hexanone)	41	43.1		ug/m3		105	61 - 127

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-108221/6
Matrix: Air
Analysis Batch: 108221

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	77	76.5		ug/m3		100	70 - 130
Chlorobenzene	46	45.0		ug/m3		98	68 - 128
Ethylbenzene	43	43.7		ug/m3		101	68 - 128
m,p-Xylene	87	87.3		ug/m3		101	68 - 128
Xylene, o-	43	43.1		ug/m3		99	67 - 127
Styrene	43	43.5		ug/m3		102	68 - 128
Bromoform	100	96.9		ug/m3		94	34 - 170
1,1,2,2-Tetrachloroethane	69	70.3		ug/m3		102	69 - 129
4-Ethyltoluene	49	50.6		ug/m3		103	69 - 129
1,3,5-Trimethylbenzene	49	49.6		ug/m3		101	65 - 125
1,2,4-Trimethylbenzene	49	50.0		ug/m3		102	65 - 125
1,3-Dichlorobenzene	60	58.8		ug/m3		98	67 - 127
1,4-Dichlorobenzene	60	59.1		ug/m3		98	66 - 126
Benzyl chloride	52	51.8		ug/m3		100	54 - 135
1,2-Dichlorobenzene	60	58.6		ug/m3		97	67 - 127
1,2,4-Trichlorobenzene	74	68.1		ug/m3		92	59 - 126
Hexachlorobutadiene	110	101		ug/m3		95	62 - 130
Naphthalene	52	46.6		ug/m3		89	50 - 121
Dibromochloromethane	85	84.3		ug/m3		99	66 - 130

Lab Sample ID: 200-34810-1 DU
Matrix: Air
Analysis Batch: 108221

Client Sample ID: SG-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Propylene	24		20.1		ppb v/v		19	25
Dichlorodifluoromethane	1.0	U	1.0	U	ppb v/v		NC	25
1,2-Dichlorotetrafluoroethane	0.40	U	0.40	U	ppb v/v		NC	25
Chloromethane	1.0	U	1.0	U	ppb v/v		NC	25
Vinyl chloride	0.40	U	0.40	U	ppb v/v		NC	25
1,3-Butadiene	1.6		1.43		ppb v/v		14	25
Bromomethane	0.40	U	0.40	U	ppb v/v		NC	25
Chloroethane	1.0	U	1.0	U	ppb v/v		NC	25
Trichlorofluoromethane	0.40	U	0.40	U	ppb v/v		NC	25
Ethanol	10		10	U	ppb v/v		NC	25
Freon TF	0.40	U	0.40	U	ppb v/v		NC	25
1,1-Dichloroethene	0.40	U	0.40	U	ppb v/v		NC	25
Acetone	51		42.5		ppb v/v		17	25
Isopropyl alcohol	22		18.4		ppb v/v		20	25
Carbon disulfide	1.0	U	1.0	U	ppb v/v		NC	25
Methylene Chloride	1.0	U	1.0	U	ppb v/v		NC	25
Methyl tert-butyl ether	0.40	U	0.40	U	ppb v/v		NC	25
trans-1,2-Dichloroethene	0.40	U	0.40	U	ppb v/v		NC	25
n-Hexane	0.83		0.730		ppb v/v		12	25
1,1-Dichloroethane	0.40	U	0.40	U	ppb v/v		NC	25
Vinyl acetate	10	U	10	U	ppb v/v		NC	25
Ethyl acetate	10	U	10	U	ppb v/v		NC	25
Methyl Ethyl Ketone	3.4		3.07		ppb v/v		9	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: 200-34810-1 DU
Matrix: Air
Analysis Batch: 108221

Client Sample ID: SG-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
cis-1,2-Dichloroethene	0.40	U	0.40	U	ppb v/v		NC	25
Chloroform	0.40	U	0.40	U	ppb v/v		NC	25
Tetrahydrofuran	10	U	10	U	ppb v/v		NC	25
1,1,1-Trichloroethane	0.40	U	0.40	U	ppb v/v		NC	25
Cyclohexane	0.40	U	0.40	U	ppb v/v		NC	25
Carbon tetrachloride	0.40	U	0.40	U	ppb v/v		NC	25
Benzene	0.79		0.721		ppb v/v		10	25
1,2-Dichloroethane	0.40	U	0.40	U	ppb v/v		NC	25
n-Heptane	0.64		0.572		ppb v/v		12	25
Trichloroethene	0.40	U	0.40	U	ppb v/v		NC	25
1,2-Dichloropropane	0.40	U	0.40	U	ppb v/v		NC	25
Bromodichloromethane	0.40	U	0.40	U	ppb v/v		NC	25
cis-1,3-Dichloropropene	0.40	U	0.40	U	ppb v/v		NC	25
Methyl isobutyl ketone	1.0	U	1.0	U	ppb v/v		NC	25
Toluene	7.7		7.54		ppb v/v		2	25
trans-1,3-Dichloropropene	0.40	U	0.40	U	ppb v/v		NC	25
1,1,2-Trichloroethane	0.40	U	0.40	U	ppb v/v		NC	25
Tetrachloroethene	0.40	U	0.40	U	ppb v/v		NC	25
Methyl Butyl Ketone (2-Hexanone)	1.0	U	1.0	U	ppb v/v		NC	25
1,2-Dibromoethane	0.40	U	0.40	U	ppb v/v		NC	25
Chlorobenzene	0.40	U	0.40	U	ppb v/v		NC	25
Ethylbenzene	3.0		2.98		ppb v/v		0.7	25
m,p-Xylene	6.7		6.72		ppb v/v		0	25
Xylene, o-	2.9		2.98		ppb v/v		1	25
Styrene	0.56		0.552		ppb v/v		2	25
Bromoform	0.40	U	0.40	U	ppb v/v		NC	25
1,1,2,2-Tetrachloroethane	0.40	U	0.40	U	ppb v/v		NC	25
4-Ethyltoluene	1.2		1.18		ppb v/v		2	25
1,3,5-Trimethylbenzene	1.4		1.41		ppb v/v		2	25
1,2,4-Trimethylbenzene	5.4		5.29		ppb v/v		2	25
1,3-Dichlorobenzene	0.40	U	0.40	U	ppb v/v		NC	25
1,4-Dichlorobenzene	0.40	U	0.40	U	ppb v/v		NC	25
Benzyl chloride	0.40	U	0.40	U	ppb v/v		NC	25
1,2-Dichlorobenzene	0.70		0.684		ppb v/v		3	25
1,2,4-Trichlorobenzene	1.0	U	1.0	U	ppb v/v		NC	25
Hexachlorobutadiene	0.40	U	0.40	U	ppb v/v		NC	25
Naphthalene	1.0	U	1.0	U	ppb v/v		NC	25
Dibromochloromethane	0.40	U	0.40	U	ppb v/v		NC	25

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Propylene	42		34.7		ug/m3		19	25
Dichlorodifluoromethane	4.9	U	4.9	U	ug/m3		NC	25
1,2-Dichlorotetrafluoroethane	2.8	U	2.8	U	ug/m3		NC	25
Chloromethane	2.1	U	2.1	U	ug/m3		NC	25
Vinyl chloride	1.0	U	1.0	U	ug/m3		NC	25
1,3-Butadiene	3.6		3.17		ug/m3		14	25
Bromomethane	1.6	U	1.6	U	ug/m3		NC	25

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: 200-34810-1 DU
Matrix: Air
Analysis Batch: 108221

Client Sample ID: SG-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloroethane	2.6	U		2.6	U	ug/m3				NC	25
Trichlorofluoromethane	2.2	U		2.2	U	ug/m3				NC	25
Ethanol	19			19	U	ug/m3				NC	25
Freon TF	3.1	U		3.1	U	ug/m3				NC	25
1,1-Dichloroethene	1.6	U		1.6	U	ug/m3				NC	25
Acetone	120			101		ug/m3				17	25
Isopropyl alcohol	55			45.2		ug/m3				20	25
Carbon disulfide	3.1	U		3.1	U	ug/m3				NC	25
Methylene Chloride	3.5	U		3.5	U	ug/m3				NC	25
Methyl tert-butyl ether	1.4	U		1.4	U	ug/m3				NC	25
trans-1,2-Dichloroethene	1.6	U		1.6	U	ug/m3				NC	25
n-Hexane	2.9			2.57		ug/m3				12	25
1,1-Dichloroethane	1.6	U		1.6	U	ug/m3				NC	25
Vinyl acetate	35	U		35	U	ug/m3				NC	25
Ethyl acetate	36	U		36	U	ug/m3				NC	25
Methyl Ethyl Ketone	10			9.06		ug/m3				9	25
cis-1,2-Dichloroethene	1.6	U		1.6	U	ug/m3				NC	25
Chloroform	2.0	U		2.0	U	ug/m3				NC	25
Tetrahydrofuran	29	U		29	U	ug/m3				NC	25
1,1,1-Trichloroethane	2.2	U		2.2	U	ug/m3				NC	25
Cyclohexane	1.4	U		1.4	U	ug/m3				NC	25
Carbon tetrachloride	2.5	U		2.5	U	ug/m3				NC	25
Benzene	2.5			2.30		ug/m3				10	25
1,2-Dichloroethane	1.6	U		1.6	U	ug/m3				NC	25
n-Heptane	2.6			2.34		ug/m3				12	25
Trichloroethene	2.1	U		2.1	U	ug/m3				NC	25
1,2-Dichloropropane	1.8	U		1.8	U	ug/m3				NC	25
Bromodichloromethane	2.7	U		2.7	U	ug/m3				NC	25
cis-1,3-Dichloropropene	1.8	U		1.8	U	ug/m3				NC	25
Methyl isobutyl ketone	4.1	U		4.1	U	ug/m3				NC	25
Toluene	29			28.4		ug/m3				2	25
trans-1,3-Dichloropropene	1.8	U		1.8	U	ug/m3				NC	25
1,1,2-Trichloroethane	2.2	U		2.2	U	ug/m3				NC	25
Tetrachloroethene	2.7	U		2.7	U	ug/m3				NC	25
Methyl Butyl Ketone (2-Hexanone)	4.1	U		4.1	U	ug/m3				NC	25
1,2-Dibromoethane	3.1	U		3.1	U	ug/m3				NC	25
Chlorobenzene	1.8	U		1.8	U	ug/m3				NC	25
Ethylbenzene	13			12.9		ug/m3				0.7	25
m,p-Xylene	29			29.2		ug/m3				0	25
Xylene, o-	13			13.0		ug/m3				1	25
Styrene	2.4			2.35		ug/m3				2	25
Bromoform	4.1	U		4.1	U	ug/m3				NC	25
1,1,2,2-Tetrachloroethane	2.7	U		2.7	U	ug/m3				NC	25
4-Ethyltoluene	5.9			5.79		ug/m3				2	25
1,3,5-Trimethylbenzene	7.1			6.93		ug/m3				2	25
1,2,4-Trimethylbenzene	27			26.0		ug/m3				2	25
1,3-Dichlorobenzene	2.4	U		2.4	U	ug/m3				NC	25

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: 200-34810-1 DU
Matrix: Air
Analysis Batch: 108221

Client Sample ID: SG-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,4-Dichlorobenzene	2.4	U		2.4	U	ug/m3				NC	25
Benzyl chloride	2.1	U		2.1	U	ug/m3				NC	25
1,2-Dichlorobenzene	4.2			4.12		ug/m3				3	25
1,2,4-Trichlorobenzene	7.4	U		7.4	U	ug/m3				NC	25
Hexachlorobutadiene	4.3	U		4.3	U	ug/m3				NC	25
Naphthalene	5.2	U		5.2	U	ug/m3				NC	25
Dibromochloromethane	3.4	U		3.4	U	ug/m3				NC	25

QC Association Summary

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Air - GC/MS VOA

Analysis Batch: 108221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-34810-1	SG-2	Total/NA	Air	TO-15	
200-34810-2	SG-3	Total/NA	Air	TO-15	
200-34810-3	SS-1	Total/NA	Air	TO-15	
200-34810-4	SS-2	Total/NA	Air	TO-15	
200-34810-5	SS-3	Total/NA	Air	TO-15	
200-34810-6	SS-5	Total/NA	Air	TO-15	
200-34810-7	SS-6	Total/NA	Air	TO-15	
200-34810-8	SS-4	Total/NA	Air	TO-15	
200-34851-1	SG-1	Total/NA	Air	TO-15	
MB 200-108221/7	Method Blank	Total/NA	Air	TO-15	
LCS 200-108221/6	Lab Control Sample	Total/NA	Air	TO-15	
200-34810-1 DU	SG-2	Total/NA	Air	TO-15	

Lab Chronicle

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Client Sample ID: SG-2
Date Collected: 08/10/16 12:15
Date Received: 08/12/16 10:15

Lab Sample ID: 200-34810-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2	108221	08/16/16 15:23	WRD	TAL BUR

Client Sample ID: SG-3
Date Collected: 08/10/16 13:44
Date Received: 08/12/16 10:15

Lab Sample ID: 200-34810-2
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		17.9	108221	08/16/16 17:03	WRD	TAL BUR

Client Sample ID: SS-1
Date Collected: 08/11/16 12:28
Date Received: 08/12/16 10:15

Lab Sample ID: 200-34810-3
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		3.51	108221	08/16/16 17:53	WRD	TAL BUR

Client Sample ID: SS-2
Date Collected: 08/11/16 12:30
Date Received: 08/12/16 10:15

Lab Sample ID: 200-34810-4
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2	108221	08/16/16 18:43	WRD	TAL BUR

Client Sample ID: SS-3
Date Collected: 08/11/16 12:37
Date Received: 08/12/16 10:15

Lab Sample ID: 200-34810-5
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2.5	108221	08/16/16 19:34	WRD	TAL BUR

Client Sample ID: SS-5
Date Collected: 08/11/16 12:57
Date Received: 08/12/16 10:15

Lab Sample ID: 200-34810-6
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		5.56	108221	08/16/16 20:24	WRD	TAL BUR

Lab Chronicle

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Client Sample ID: SS-6
Date Collected: 08/11/16 13:00
Date Received: 08/12/16 10:15

Lab Sample ID: 200-34810-7
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		15.39	108221	08/16/16 21:14	WRD	TAL BUR

Client Sample ID: SS-4
Date Collected: 08/11/16 13:23
Date Received: 08/12/16 10:15

Lab Sample ID: 200-34810-8
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2.5	108221	08/16/16 22:05	WRD	TAL BUR

Client Sample ID: SG-1
Date Collected: 08/10/16 11:55
Date Received: 08/15/16 09:00

Lab Sample ID: 200-34851-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2.5	108221	08/16/16 22:55	WRD	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Laboratory: TestAmerica Burlington

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Minnesota	NELAP	5	050-999-436	12-31-16

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
TO-15		Air	Vinyl acetate

Method Summary

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Nova Consulting Group Inc
Project/Site: Office Warehouse Bldg

TestAmerica Job ID: 200-34810-1
SDG: 200-34810-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-34810-1	SG-2	Air	08/10/16 12:15	08/12/16 10:15
200-34810-2	SG-3	Air	08/10/16 13:44	08/12/16 10:15
200-34810-3	SS-1	Air	08/11/16 12:28	08/12/16 10:15
200-34810-4	SS-2	Air	08/11/16 12:30	08/12/16 10:15
200-34810-5	SS-3	Air	08/11/16 12:37	08/12/16 10:15
200-34810-6	SS-5	Air	08/11/16 12:57	08/12/16 10:15
200-34810-7	SS-6	Air	08/11/16 13:00	08/12/16 10:15
200-34810-8	SS-4	Air	08/11/16 13:23	08/12/16 10:15
200-34851-1	SG-1	Air	08/10/16 11:55	08/15/16 09:00

30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	**Project Manager:** Eric Helmus	**Samples Collected By:** MDH
Company: Nova Consulting	**Phone:** 612-819-1125	1 of 2 COCs
Address: 1107 Hazeltine Blvd #400	**Email:** Eric.helmus@novaconsulting.com	
City/State/Zip Chaska, MN 55318		
Phone: 612-819-1125	**Site Contact:**	
FAX:	**TA Contact:**	
Project Name: Office/Warehouse Bldg	**Analysis Turnaround Time**	
Site: St. Paul, MN	**Standard (Specify)** ✓	
PO # E16-2821	**Rush (Specify)**	

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type: Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
S6-1	8/10/16	11:18	11:55	-30"	0"	5293	4446	X										
S6-2	↓	11:39	12:15	-30"	0"	6122	3868	X										
S6-3	↓	13:05	13:44	-30"	0"	4609	4834	X										
S5-1	8/11/16	11:37	12:38	-30"	0"	4636	3213	X										
S5-2		11:40	12:30	-27"	0"	4680	3521	X										
S5-3	↓	12:02	12:37	-30"	0"	5516	3376	X										

Temperature (Fahrenheit)

	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)

	Interior	Ambient	
Start			
Stop			

200-34810 Chain of Custody

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	**Date/Time:**	**Samples Received by:**
Samples Relinquished by:	**Date/Time:** 8/11/16 14:25	**Received by:** Thomas G Lee T. AMERICA 8/11/16 14:45
Relinquished by: Thomas G Lee 8/11/16	**Date/Time:** 1615	**Received by:** 8/12/16 1015

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

8/18/2016

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager:	**Samples Collected By:**	2 of 2 COCs
Company: Nova Consulting	Phone:		
Address:	Email: See Page 1		
City/State/Zip: See Page 1			
Phone:	Site Contact:		
FAX:	TA Contact:		
Project Name:	**Analysis Turnaround Time**		
Site:	Standard (Specify) ✓		
PO # E16-2821	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SS-5	8/11/16	12:21	12:57	-28"	0"	4612	4136	X											
SS-6		12:24	13:00	-30"	0"	5011	4310	X											
SS-4		12:04	13:03	-28"	0"	5324	3275	X											

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date/Time:	Samples Received by:	
Samples Relinquished by:	Date/Time: 8/11/16 14:25	Received by:	
Relinquished by: Thomas D. Ren	Date/Time: 8/11/16 16:15	Received by:	T. AMERICA 8/11/16 14:45
			1015

Lab Use Only Shipper Name: Opened by: Condition:

ORIGIN ID:BTVA (952) 922-2777
BARB RUTTEN
TESTAMERICA LABORATORIES, INC.
7600 WEST 27TH ST
UNIT 236
ST. LOUIS PARK, MN 55426
UNITED STATES US

SHIP DATE: 19JUL16
ACTWGT: 5.0 LB MAN
CAD: 000890364/CAFE2915
DIMS: 20x20x14 IN

BILL SENDER

TO SAMPLE MANAGEMENT
TEST AMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1058 REF: S200-15326
RMA: S200-15326

FedEx Express

FedEx
TRK# 0221 6906 0391 6910

FRI - 12 AUG 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403
VT-US
BTV

FID 5099221 11AUG16 MICA 539C1/1370/976E

7600 WEST 27TH ST

ORIGIN ID:BTVA (802) 923-1058
MANAGEMENT

ORIGIN ID:BTVA (952) 922-2777
BARB RUTTEN
TESTAMERICA LABORATORIES, INC.
7600 WEST 27TH ST
UNIT 236
ST. LOUIS PARK, MN 55426
UNITED STATES US

SHIP DATE: 19JUL16
ACTWGT: 5.0 LB MAN
CAD: 000890364/CAFE2915
DIMS: 20x20x14 IN

BILL SENDER

TO SAMPLE MANAGEMENT
TEST AMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1058 REF: S200-15326
RMA: S200-15326

FedEx Express

FedEx
TRK# 0221 6906 0391 6909

FRI - 12 AUG 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403
VT-US
BTV

FID 5099221 11AUG16 MICA 539C1/1370/976E

Page 53 of 117

8/18/2016

30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: Eric Helmus	Samples Collected By: MDH
Company: Nova Consulting	Phone: 612-819-1125	1 of 2 COCs
Address: 1107 Hazeltine Blvd #400	Email: Eric.helmus@novaconsulting.com	
City/State/Zip Chaska, MN 55318		
Phone: 612-819-1125	Site Contact:	
FAX:	TA Contact:	
Project Name: Office/Warehouse Bldg	**Analysis Turnaround Time**	
Site: St. Paul, MN	Standard (Specify) ✓	
PO # E16-2821	Rush (Specify)	

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum In Field, "Hg (Start)	Canister Vacuum In Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SS-1	8/10/16	11:18	11:55	-30"	0"	5293	4446	X											
SS-2		11:32	12:15	-30"	0"	6122	2868	X											
SS-3		13:05	13:44	-30"	0"	4609	4834	X											
SS-1	8/11/16	11:37	12:28	-30"	0"	4636	3213	X											
SS-2		11:40	12:30	-27"	0"	4680	3521	X											
SS-3		12:02	12:37	-30"	0"	5516	3376	X											

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

200-34851 Chain of Custody

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date/Time:	Samples Received by:	
Samples Relinquished by:	Date/Time: 8/11/16 14:25	Received by: Thomas G Lee	T. America 8/11/16 14:45
Relinquished by: Thomas G Lee	Date/Time: 8/11/16 16:15	Received by:	8/15/16 0900 TABER

Lab Use Only Shipper Name: Opened by: Condition:

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager:	Samples Collected By:	2 of 2 COCs
Company: Nova Consulting	Phone:		
Address:	Email: See Page 1		
City/State/Zip			
Phone: See Page 1	Site Contact:		
FAX:	TA Contact:		
Project Name:	**Analysis Turnaround Time**		
Site:	Standard (Specify) ✓		
PO # E16-2821	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type: Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SS-5	8/11/16	12:21	12:57	-28"	0"	4612	4136	X										
SS-6		12:24	13:00	-30"	0"	5011	4310	X										
SS-4		12:04	13:03	-28"	0"	5324	3275	X										

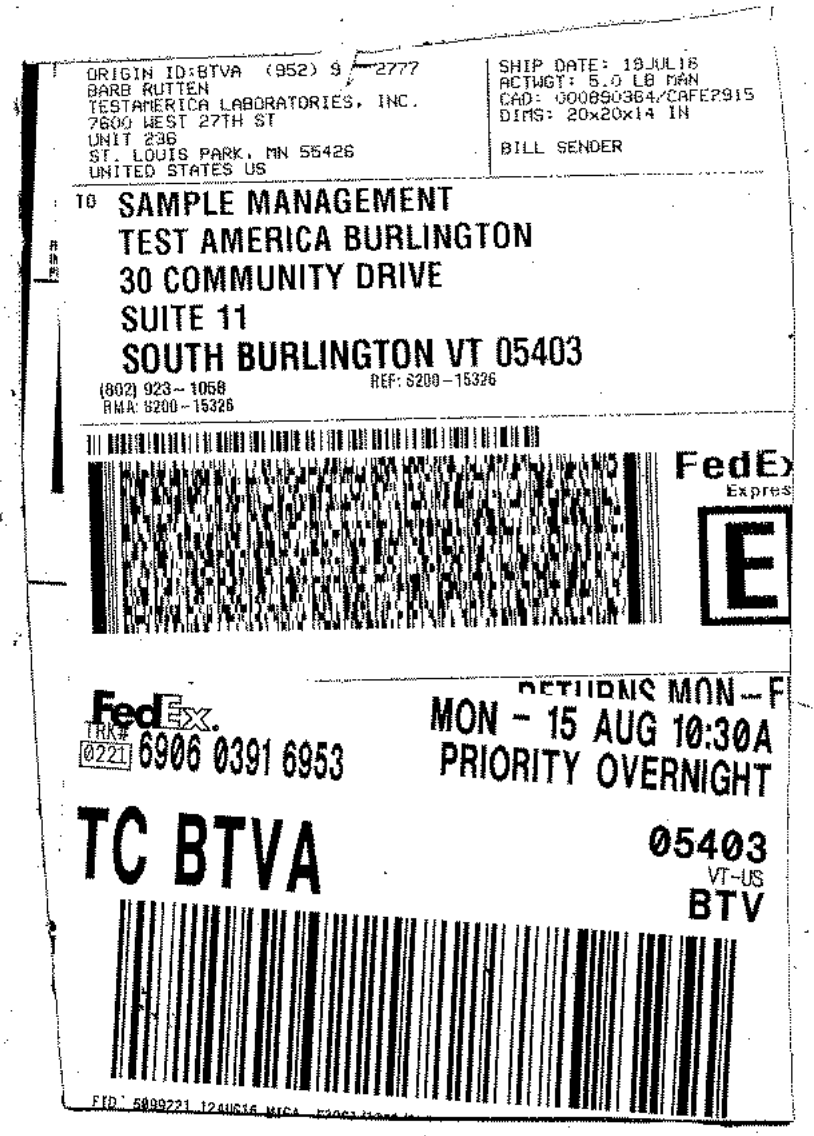
Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date/Time:	Samples Received by:	
Samples Relinquished by:	Date/Time: 8/11/16 14:25	Received by: Thomas D. Rea T. AMERICA	8/11/16 14:45
Relinquished by: Thomas D. Rea 8/11/16	Date/Time: 16:15	Received by: 8/15/16 0900	

Lab Use Only: Shipper Name: Opened by: Condition:



ORIGIN ID:BTVA (952) 9 2777
BARB RUTTEN
TESTAMERICA LABORATORIES, INC.
7600 WEST 27TH ST
UNIT 236
ST. LOUIS PARK, MN 55426
UNITED STATES US

SHIP DATE: 19JUL16
ACTWGT: 5.0 LB MAN
CAD: 000890364/CAFE2915
DIMS: 20x20x14 IN

BILL SENDER

TO SAMPLE MANAGEMENT
TEST AMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1058
RMA: 8200-15326

REF: 8200-15326

FedEx Expres

FedEx.
TRK# 0221 6906 0391 6953

RETURNS MON-F
MON - 15 AUG 10:30A
PRIORITY OVERNIGHT

TC BTVA

05403
VT-US
BTV

FED 5099221 12AUG16 MICA

Login Sample Receipt Checklist

Client: Nova Consulting Group Inc

Job Number: 200-34810-1
SDG Number: 200-34810-1

Login Number: 34810
List Number: 1
Creator: Lavigne III, Scott M

List Source: TestAmerica Burlington

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

Login Sample Receipt Checklist

Client: Nova Consulting Group Inc

Job Number: 200-34810-1
SDG Number: 200-34810-1

Login Number: 34851
List Number: 1
Creator: Atherton, Joel E

List Source: TestAmerica Burlington

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

200-33243-A-3
2911
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 4/27/2016 12:00 AM 200-S25091

Pre-Shipment Clean Canister Certification Report

Certification Type: ~~Batch~~ ☐ Individual

Canister Cleaning & Pre-Shipment Leak Test								
System ID		# Cycles	Cleaning Date	Technician	Canister Size		
Bottom		25	4/27/16	[signature]	(6L)	1L	3L

Leak Test								
Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adjusted Initial[2] ("Hg)	Difference[3]	Initial Reading	Final Reading
1	2845	T	-29.5	-29.7	+0.2	Gauge ID: G-19	Gauge ID: G-19 / G-19
2	5981	T	-29.6		+0.1	Date: 4/28/16	Date: 5/3/16 / 5/4/16
3	2911	-29.8	-29.5	-29.5	0	Time: 1030	Time: 1110 / 1430
4	5413	|	-29.6	|	+0.1	Tech: [signature]	Tech: [signature] / [signature]
5	4446	|	-29.5	-29.5	0	BP: 29.8 ("Hg)	BP: 29.7 / 29.5 ("Hg)
6	5045	|	-29.5	-29.5	0	Temp 22 (°C)	Temp: 22 / 21 (°C)
7	4335	|	-29.3	|	+0.4	[3]Acceptance Criteria:	
8	3609	|	-29.6	|	+0.1	(1) The difference must be less than or equal to + 0.5	
9	3657	|	-29.3	|	+0.4	(2) Pressure readings must be at least 24 hours apart.	
10	5403	|	-29.5	-29.5	0	If time frame was not met, the PM must authorize shipment of canister:	
11	3349	|	-29.6	|	+0.1	*PM Authorization:*	
12	3374	"	-29.5	" -29.5	0	Signature	Date

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory											
Test Method: ☐TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15				Inventory Level					Secondary Review	
Can ID	Date	Sequence	Analyst	1	2	3	4	Limited	Review Date	Reviewer
2911	5/02/16	19668	~~PAD~~ ZP		✓				5/02/16	PAD

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.

Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments: 0.04

BR-FAI023:10.19.09:7
TestAmerica

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	# Cycles	Cleaning Date	Technician	Canister Size		Certification Type:	
Oven 3/4	23	7/7/2016	MLT	1L	6L	Batch	Individual

Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adj. Initial[2] ("Hg)	Diff.[3]	Initial Reading Gauge:	Date:	Time:	Tech:	BP:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	BP:	Temp:
1	5060	-29.6	-29.9	-29.7	-0.2	G9	7/8/2016	1330	MLT	29.5	22	G9	7/22/16	1700	MLT	29.6	22
2	5049		-29.6		+0.1	↓	↓	↓	↓	↓		↓	↓	↓	↓	↓	
3	4136	-29.7	-29.4	-29.4	0	↓	7/21/16	1510	↓	29.5		↓	↑	↑	↓	29.2	↑
4	3537	↓	-29.6	↓	-0.2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
5	3866	↓	-29.4	↓	0	↓	↓	↓	↓	↓	↓	↓	7/22/16	1645	↓	↓	23
6	3014	-29.6	-29.3	-29.7	+0.4	↓	7/8/16	1330	↓	29.5	22	↓	7/22/16	1700	↓	29.6	22
7	2780	↓	-29.9	↓	-0.2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
8	3792	↓	-29.9	↓	+0.2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
9	4023	↓	-29.9	↓	+0.2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
10	4081	↓	-29.6	↓	+0.1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
11	3525	↓	-30.0	↓	+0.3	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
12	2741	↓	-29.9	↓	+0.2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] Adjusted Initial Pressure = Initial Pressure + (Initial BP - Final BP).

[3] Difference = Final Pressure - Adjusted Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.5. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister PM Authorization Signature: Date:

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☑ TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Rev
3866	7/12/16	20818	PAD		XXXX				7/13/16	Rev1

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Comments:

FAI023:04.13.16:9

TestAmerica Burlington

200-34298-A-5
3866
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 7/7/2016 12:00 AM
200-460950

Loc: 200
34298
#5
A

7/12/2016

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	# Cycles	Cleaning Date	Technician	Canister Size		Certification Type:	
Oven 1/2	35	7/7/2016	MLT	1L	6L	Batch	Individual

Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adj. Initial[2] ("Hg)	Diff.[3]	Initial Reading Gauge:	Date:	Time:	Tech:	BP:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	BP:	Temp:
1	4275	-29.80	-29.8	-29.6	-0.2	G9	7/8/2016	1330	MLT	29.5	22	G9	7/12/16	1200	MC	29.5	22
2	3419	-29.7	-29.7	-29.4	-0.3	↓	7/12/16	1510	↓	29.5	↓		7/12/16	1645		29.2	23
3	4233	-29.6	-29.8	-29.6	-0.2	G9	7/8/16	~~1330~~	MC	29.5	22		7/12/16	1200		29.5	22
4	4807		-29.8		-0.2												
5	4312		-29.9		-0.3												
6	2596	-29.7	-29.4	-29.4	0		7/12/16	1510		29.5			7/12/16	1645		29.2	23
7	4308		-29.7		-0.3												
8	4459		-29.6		-0.2												
9	4775		-29.6		-0.2												
10	5104		Leak														
11	3370		-29.6		0												
12	4476		-29.6		0												

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] Adjusted Initial Pressure = Initial Pressure + (Initial BP - Final BP).

[3] Difference = Final Pressure - Adjusted Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.5. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister PM Authorization Signature: Date:

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☑ TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Revir
3419	7/12/16	20818	PAO		XXXX				7/13/16	AN

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Comments:

FAI023:04.13.16:9

TestAmerica Burlington

200-34305-A-2
3419
Location: Air-Storage
Bottle, Summa Canister 6L
Sampled: 7/7/2016 12:00 AM 200-96102-5

Loc: 200
34305
#2
A

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	# Cycles	Cleaning Date	Technician	Canister Size		Certification Type:	
Oven 1/2	50	7/13/2016	mlt	1L	6L	Batch	Individual

Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adj. Initial[2] ("Hg)	Diff.[3]	Initial Reading Gauge:	Date:	Time:	Tech:	BP:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	BP:	Temp:
1	2604	-29.3	-29.6	-29.41	-0.2	-0.9	7/14/16	1530	Smt	29.2	22	G	7/15/16	1300	mt	29.3	22
2	3707		-29.7	-29.5	-0.2		7/15/16	1700	mt	29.3			7/27/16	1200		29.4	
3	4315		-29.7		-0.2												
4	4280		-29.3		+0.2												
5	3275		-29.6		-0.2												
6	5084		-29.7		-0.3												
7	2945		-29.6		-0.2												
8	3760		-29.6	-29.5	-0.1		7/15	1700	mt	29.3			7/27/16	1200		29.4	
9	5727		-29.3		+0.2												
10	2898		-29.7		-0.3												
11	3820	-29.4	-29.7	-29.5	-0.2		7/15/16	1700	mt	29.3	22		7/27/16	1200		29.4	22
12	5621	-29.3	-29.6	-29.4	-0.2	G9	7/14/16	1530	—	29.2	22		7/15/16	1300		29.3	22

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] Adjusted Initial Pressure = Initial Pressure + (Initial BP - Final BP).

[3] Difference = Final Pressure - Adjusted Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.5. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister PM Authorization Signature: Date:

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☑ TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Reviewer
3820	7/18/16	20896	GBO		xxxx				7/18/16	AM

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Comments: Re-pressed 7/15/16 HS

200-34373-A-11
3820
Location: Air-Storage
Bottle: 3litre Canister 6L
Sampled: 7/14/2016 12:00 AM 200-962744

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8/18/2016

FAI023:04.13.16:9
TestAmerica Burlington

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test																	
System ID			# Cycles		Cleaning Date		Technician				Canister Size		Certification Type:				
Oven 3/4			32		7/13/2016		mlt				1L	6L	Batch (circled)		Individual		
					Initial Reading						Final Reading						
Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adj. Initial[2] ("Hg)	Diff.[3]	Gauge:	Date:	Time:	Tech:	BP:	Temp:	Gauge:	Date:	Time:	Tech:	BP:	Temp:
1	4115	-29.2	-19.5	-19.3	-0.2	69	7/14/16	1530	S	29.2	22	69	7/15/16	1510	ms	29.3	22
2	4235		-19.3		0												
3	5657		Leak														
4	3614	-19.4	-19.6	-19.5	-0.1		7/15/16	1230	mc	29.3	22		7/21/16	1233		-29.4	22
5	2730	-19.4	-19.7	-19.3	-0.2		7/14/16	1530	Sm	29.2	22		7/15/16	1510		29.3	22
6	4790		-19.5		-0.2												
7	3602		-19.6		-0.3												
8	3501		-19.3		0												
9	4310		-19.2		+0.1												
10	2952		-19.3		0												
11	4470		-19.3		0												
12	4148		-19.5		-0.2												

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] Adjusted Initial Pressure = Initial Pressure + (Initial BP - Final BP).

[3] Difference = Final Pressure - Adjusted Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.5. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister PM Authorization Signature: Date:

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☑ TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Reviewer
3614	7/19/16	20921	PAD		xxxx				7/19/16	AN

200-34374-A-4
3614
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 7/14/2016 12:00 AM
200-952748

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).
Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).
Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).
Inventory Level 4: Individual or Batch Certification (TO15LLNJ 0.08 ppbv).
Inventory Level Limited: Canisters may only be used for certain projects.

Comments:

FAI023:04.13.15:9
TestAmerica Burlington

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	# Cycles	Cleaning Date	Technician	Canister Size	Certification Type:
Top Rack	20	7/21/2016	MLT	1L / 6L	Batch / Individual

Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adj. Initial[2] ("Hg)	Diff.[3]	Initial Reading Gauge:	Initial Reading Date:	Initial Reading Time:	Initial Reading Tech:	Initial Reading BP:	Initial Reading Temp:	Final Reading Gauge:	Final Reading Date:	Final Reading Time:	Final Reading Tech:	Final Reading BP:	Final Reading Temp:
1	5448	-29.5	-29.6	-29.5/16	0	G9	22-Jul	1100	MLT	29.2	23	G9	7/30/16	1345	MT	29.5	22
2	5961	↓	-29.6	↓	+0.2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
3	2868	↓	-29.7	↓	+0.1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
4	3291	↓	-29.7	↓	+0.1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
5	~~4346~~																
6	4324	↓	-29.7	↓	+0.1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
7	5421		-29.6	-29.6	0	G9	8/2/16	1230	↓	29.6	22		8/2/16	1230	↓	29.6	22
8	5437	-29.5	-29.9	-29.8	-0.1	G9	22-Jul	1100	MLT	29.2	23		7/30/16	1345		29.5	22
9	5649	↓	-30.0	↓	-0.2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
10	3232	↓	-29.6	-29.6	0	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
11	4818	↓	-30.0	↓	-0.2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
12	2602	↓	-29.3	↓	+0.5	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] Adjusted Initial Pressure = Initial Pressure + (Initial BP - Final BP).

[3] Difference = Final Pressure - Adjusted Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.5. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization Signature:** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: TO15 Routine < TO15 LL < NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Review
5421	7/26/16	21603	PAD		XXXX				7/27/16	AW

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Comments:

FAI023:04.13.16:9

TestAmerica Burlington

8/18/2016

200-34477-A-7
5421
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 7/21/2016 12:00 AM 200-954785

Loc: 200
34477
#7
A

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	# Cycles	Cleaning Date	Technician	Canister Size		Certification Type:	
Oven 3/4	23	7/21/2016	MLT	1L	6L	Batch	Individual

Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adj. Initial[2] ("Hg)	Diff.[3]	Initial Reading Gauge:	Initial Reading Date:	Initial Reading Time:	Initial Reading Tech:	Initial Reading BP:	Initial Reading Temp:	Final Reading Gauge:	Final Reading Date:	Final Reading Time:	Final Reading Tech:	Final Reading BP:	Final Reading Temp:
1	3213	-29.4	-29.7	-29.7	0	69	7/22/16	1615	MT	29.2	72	69	7/30/16	1400	MT	29.5	72
2	4351		-29.7		0												
3	4087		-29.8		-0.1												
4	2778		-29.8		-0.1												
5	5094		-29.9		-0.2												
6	4834		-29.8		-0.1												
7	4387		-29.9		-0.2												
8	5036	-29.6	-29.8	-29.7	-0.1		7/30/16	1545		29.5	22		8/2/16	1250		29.6	22
9	3000	-29.4	-29.8	-29.7	-0.1		7/22/16	1615		29.2	22		7/30/16	1400		29.5	22
10	5117		-29.8		-0.1												
11	3521		-29.8		-0.1												
12	4827		-29.9		-0.2												

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] Adjusted Initial Pressure = Initial Pressure + (Initial BP - Final BP).

[3] Difference = Final Pressure - Adjusted Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.5. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization Signature:** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: TO15 Routine ≤ TO15 LL ≤ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Reviewer
5036	7/26/16	21003	PAD		XXXXX				7/27/16	AMZ

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Comments:

FAI023:04.13.16:9

TestAmerica Burlington

200-34492-A-8
5036
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 7/21/2016 12:00 AM 209-955052

Loc: 200
34492
#8
A

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-33243-1

SDG No.:

Client Sample ID: 2911 Lab Sample ID: 200-33243-3

Matrix: Air Lab File ID: 19668_11.D

Analysis Method: TO-15 Date Collected: 04/27/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/28/2016 19:36

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 103817 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-33243-1

SDG No.:

Client Sample ID: 2911 Lab Sample ID: 200-33243-3

Matrix: Air Lab File ID: 19668_11.D

Analysis Method: TO-15 Date Collected: 04/27/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/28/2016 19:36

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 103817 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-33243-1

SDG No.:

Client Sample ID: 2911 Lab Sample ID: 200-33243-3

Matrix: Air Lab File ID: 19668_11.D

Analysis Method: TO-15 Date Collected: 04/27/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 04/28/2016 19:36

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 103817 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHC.i\20160428-19668.b\19668_11.D
Lims ID: 200-33243-A-3
Client ID: 2911
Sample Type: Client
Inject. Date: 28-Apr-2016 19:36:30 ALS Bottle#: 12 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0019668-011
Misc. Info.: 33243-03
Operator ID: pad Instrument ID: CHC.i

Method: \\ChromNA\Burlington\ChromData\CHC.i\20160428-19668.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 02-May-2016 10:23:39 Calib Date: 25-Apr-2016 23:37:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHC.i\20160425-19605.b\19605_11.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: puangmaleek Date: 02-May-2016 10:23:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.991				ND	
2 Dichlorodifluoromethane	85		3.060				ND	
3 Chlorodifluoromethane	51		3.113				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.332				ND	
5 Chloromethane	50		3.466				ND	
6 Butane	43		3.674				ND	
7 Vinyl chloride	62		3.716				ND	
8 Butadiene	54		3.796				ND	
10 Bromomethane	94		4.490				ND	
11 Chloroethane	64		4.736				ND	
13 Vinyl bromide	106		5.136				ND	
14 Trichlorofluoromethane	101		5.243				ND	
17 Ethanol	45		5.862				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		6.353				ND	
21 1,1-Dichloroethene	96		6.390				ND	
22 Acetone	43		6.641				ND	
23 Carbon disulfide	76		6.774				ND	
24 Isopropyl alcohol	45		6.967				ND	
25 3-Chloro-1-propene	41		7.201				ND	
27 Methylene Chloride	49		7.506				ND	
28 2-Methyl-2-propanol	59		7.751				ND	
29 Methyl tert-butyl ether	73		7.911				ND	
31 trans-1,2-Dichloroethene	61		7.954				ND	
33 Hexane	57		8.344				ND	
34 1,1-Dichloroethane	63		8.840				ND	
35 Vinyl acetate	43		8.936				ND	
37 cis-1,2-Dichloroethene	96		9.977				ND	
39 Ethyl acetate	88		10.078				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
* 40 Chlorobromomethane	128	10.441	10.446	-0.005	95	617921	10.0	
41 Tetrahydrofuran	42		10.446				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	38 2-Butanone (MEK)	72		10.452				ND	
	42 Chloroform	83		10.590				ND	
	43 Cyclohexane	84		10.820				ND	
	44 1,1,1-Trichloroethane	97		10.852				ND	
	45 Carbon tetrachloride	117		11.108				ND	
	46 Isooctane	57		11.556				ND	
	47 Benzene	78		11.578				ND	
	48 1,2-Dichloroethane	62		11.775				ND	
	49 n-Heptane	43		11.962				ND	
*	50 1,4-Difluorobenzene	114	12.448	12.448	0.000	97	3200853	10.0	
	53 Trichloroethene	95		12.917				ND	
	54 1,2-Dichloropropane	63		13.483				ND	
	55 Methyl methacrylate	69		13.664				ND	
	56 1,4-Dioxane	88		13.718				ND	
	57 Dibromomethane	174		13.744				ND	
	58 Dichlorobromomethane	83		14.054				ND	
	60 cis-1,3-Dichloropropene	75		15.004				ND	
	61 4-Methyl-2-pentanone (MIBK	43		15.292				ND	
	65 Toluene	92		15.591				ND	
	66 trans-1,3-Dichloropropene	75		16.205				ND	
	67 1,1,2-Trichloroethane	83		16.578				ND	
	68 Tetrachloroethene	166	16.669	16.674	-0.005	89	1781	0.0241	
	69 2-Hexanone	43		17.021				ND	
	71 Chlorodibromomethane	129		17.336				ND	
	72 Ethylene Dibromide	107		17.598				ND	
*	74 Chlorobenzene-d5	117	18.494	18.500	-0.006	90	2925874	10.0	
	75 Chlorobenzene	112		18.558				ND	
	76 Ethylbenzene	91		18.708				ND	
	78 m-Xylene & p-Xylene	106		18.959				ND	
	79 o-Xylene	106		19.797				ND	
	80 Styrene	104		19.855				ND	
S	73 Xylenes, Total	106		20.100				ND	
	81 Bromoform	173		20.277				ND	
	82 Isopropylbenzene	105		20.485				ND	
	84 1,1,2,2-Tetrachloroethane	83		21.141				ND	
	85 N-Propylbenzene	91		21.205				ND	
	88 4-Ethyltoluene	105		21.398				ND	
	89 2-Chlorotoluene	91		21.403				ND	
	90 1,3,5-Trimethylbenzene	105		21.504				ND	
	92 tert-Butylbenzene	119		21.990				ND	
	93 1,2,4-Trimethylbenzene	105		22.086				ND	
	94 sec-Butylbenzene	105		22.316				ND	
	95 4-Isopropyltoluene	119		22.513				ND	
	96 1,3-Dichlorobenzene	146		22.545				ND	
	97 1,4-Dichlorobenzene	146		22.678				ND	
	98 Benzyl chloride	91		22.876				ND	
	100 n-Butylbenzene	91		23.084				ND	
	101 1,2-Dichlorobenzene	146		23.207				ND	
	103 1,2,4-Trichlorobenzene	180		25.672				ND	
	104 Hexachlorobutadiene	225		25.854				ND	
	105 Naphthalene	128		26.147				ND	

Reagents:

ATTO15CISs_00007 Amount Added: 20.00 Units: mL Run Reagent

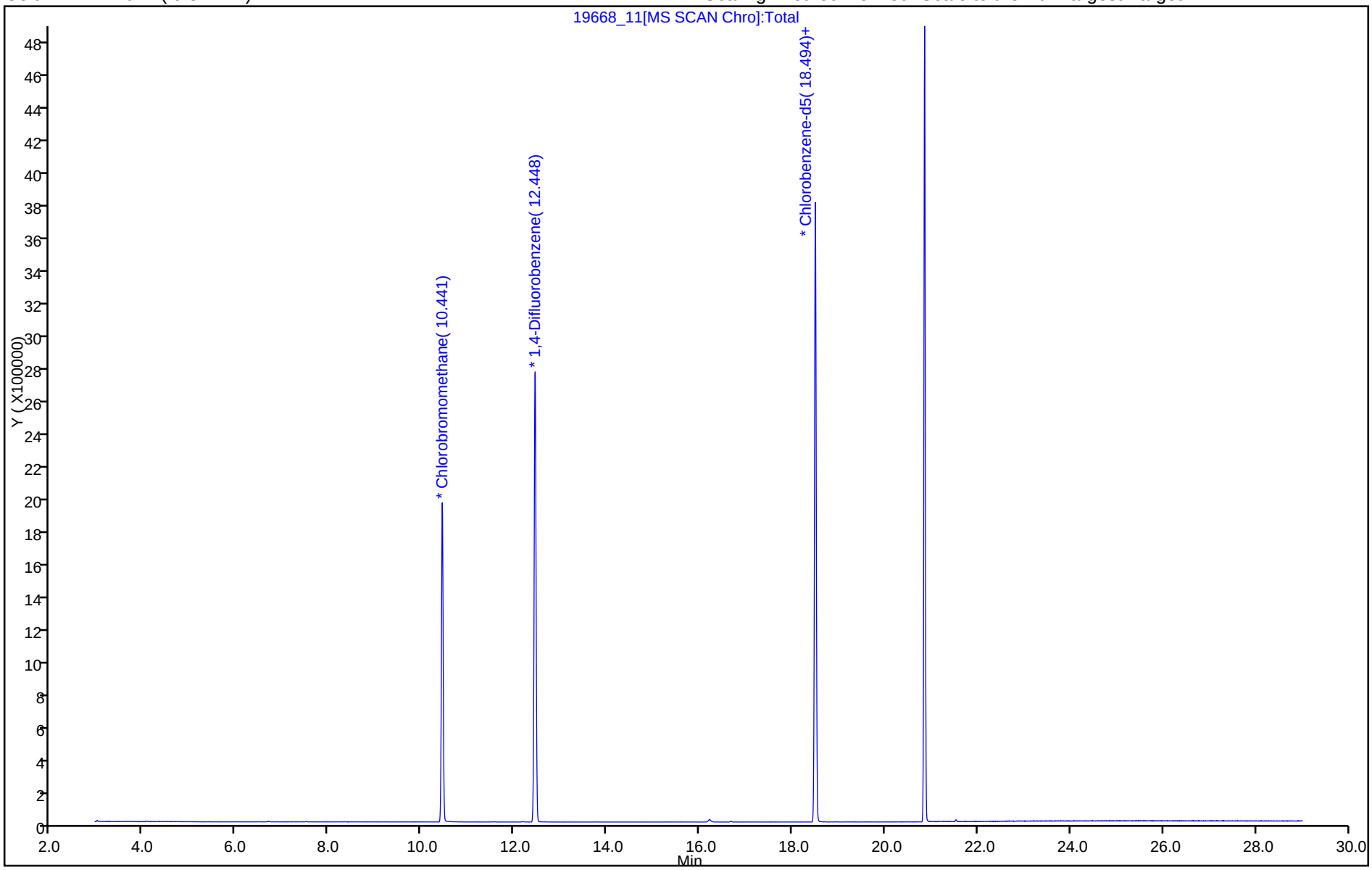
Report Date: 02-May-2016 10:23:40 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHC.i\20160428-19668.b\19668_11.D

Injection Date:	28-Apr-2016 19:36:30	Instrument ID:	CHC.i	Operator ID:	pad
Lims ID:	200-33243-A-3	Lab Sample ID:	200-33243-3	Worklist Smp#:	11
Client ID:	2911				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	12
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34298-1

SDG No.:

Client Sample ID: 3866 Lab Sample ID: 200-34298-5

Matrix: Air Lab File ID: 20818_09.D

Analysis Method: TO-15 Date Collected: 07/07/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/11/2016 17:04

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 106892 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34298-1

SDG No.:

Client Sample ID: 3866 Lab Sample ID: 200-34298-5

Matrix: Air Lab File ID: 20818_09.D

Analysis Method: TO-15 Date Collected: 07/07/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/11/2016 17:04

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 106892 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34298-1

SDG No.:

Client Sample ID: 3866 Lab Sample ID: 200-34298-5

Matrix: Air Lab File ID: 20818_09.D

Analysis Method: TO-15 Date Collected: 07/07/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/11/2016 17:04

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 106892 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHC.i\20160711-20818.b\20818_09.D
Lims ID: 200-34298-A-5 Lab Sample ID: 200-34298-5
Client ID: 3866
Sample Type: Client
Inject. Date: 11-Jul-2016 17:04:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0020818-009
Misc. Info.: 34298-05
Operator ID: ggg Instrument ID: CHC.i

Method: \\ChromNA\Burlington\ChromData\CHC.i\20160711-20818.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 13-Jul-2016 09:54:44 Calib Date: 30-Jun-2016 22:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHC.i\20160630-20687.b\20687_10.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: nelsona Date: 13-Jul-2016 09:55:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.983				ND	
2 Dichlorodifluoromethane	85	3.053	3.053	0.000	95	1809	0.0350	
3 Chlorodifluoromethane	51	3.112	3.106	0.006	96	2471	0.0555	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.320				ND	
5 Chloromethane	50	3.458	3.458	0.000	96	2971	0.1192	
6 Butane	43		3.661				ND	
7 Vinyl chloride	62		3.704				ND	
8 Butadiene	54		3.784				ND	
10 Bromomethane	94		4.472				ND	
11 Chloroethane	64		4.723				ND	
13 Vinyl bromide	106		5.118				ND	
14 Trichlorofluoromethane	101		5.225				ND	
17 Ethanol	45	5.855	5.833	0.022	99	8796	0.6777	
20 1,1,2-Trichloro-1,2,2-trif	101		6.335				ND	
21 1,1-Dichloroethene	96		6.367				ND	
22 Acetone	43	6.629	6.618	0.011	100	59559	1.29	
23 Carbon disulfide	76	6.746	6.751	-0.005	99	4661	0.0890	
24 Isopropyl alcohol	45		6.938				ND	
25 3-Chloro-1-propene	41		7.178				ND	
27 Methylene Chloride	49		7.482				ND	
28 2-Methyl-2-propanol	59		7.728				ND	
29 Methyl tert-butyl ether	73		7.888				ND	
31 trans-1,2-Dichloroethene	61		7.925				ND	
33 Hexane	57	8.326	8.326	0.000	64	565	0.0156	
34 1,1-Dichloroethane	63		8.811				ND	
35 Vinyl acetate	43		8.902				ND	
37 cis-1,2-Dichloroethene	96		9.948				ND	
38 2-Butanone (MEK)	72	10.017	10.001	0.016	98	2020	0.1734	
39 Ethyl acetate	88		10.055				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
* 40 Chlorobromomethane	128	10.412	10.412	0.000	92	321843	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		10.418				ND	
	42 Chloroform	83		10.562				ND	
	43 Cyclohexane	84		10.791				ND	
	44 1,1,1-Trichloroethane	97		10.823				ND	
	45 Carbon tetrachloride	117		11.074				ND	
	46 Isooctane	57		11.522				ND	
	47 Benzene	78		11.549				ND	
	48 1,2-Dichloroethane	62		11.741				ND	
	49 n-Heptane	43		11.928				ND	
*	50 1,4-Difluorobenzene	114	12.414	12.414	0.000	98	1777704	10.0	
	53 Trichloroethene	95		12.883				ND	
	54 1,2-Dichloropropane	63		13.444				ND	
	55 Methyl methacrylate	69		13.631				ND	
	56 1,4-Dioxane	88		13.679				ND	
	57 Dibromomethane	174		13.711				ND	
	58 Dichlorobromomethane	83		14.020				ND	
	60 cis-1,3-Dichloropropene	75		14.965				ND	
	61 4-Methyl-2-pentanone (MIBK	43		15.258				ND	
	65 Toluene	92		15.552				ND	
	66 trans-1,3-Dichloropropene	75		16.166				ND	
	67 1,1,2-Trichloroethane	83		16.539				ND	
	68 Tetrachloroethene	166		16.641				ND	
	69 2-Hexanone	43		16.987				ND	
	71 Chlorodibromomethane	129		17.302				ND	
	72 Ethylene Dibromide	107		17.564				ND	
*	74 Chlorobenzene-d5	117	18.460	18.460	0.000	96	1739659	10.0	
	75 Chlorobenzene	112		18.519				ND	
	76 Ethylbenzene	91		18.674				ND	
	78 m-Xylene & p-Xylene	106		18.925				ND	
	79 o-Xylene	106		19.763				ND	
	80 Styrene	104		19.816				ND	
S	73 Xylenes, Total	106		20.100				ND	
	81 Bromoform	173		20.243				ND	
	82 Isopropylbenzene	105		20.451				ND	
	84 1,1,2,2-Tetrachloroethane	83		21.113				ND	
	85 N-Propylbenzene	91		21.177				ND	
	88 4-Ethyltoluene	105		21.364				ND	
	89 2-Chlorotoluene	91		21.374				ND	
	90 1,3,5-Trimethylbenzene	105		21.470				ND	
	92 tert-Butylbenzene	119		21.961				ND	
	93 1,2,4-Trimethylbenzene	105		22.058				ND	
	94 sec-Butylbenzene	105		22.287				ND	
	95 4-Isopropyltoluene	119		22.490				ND	
	96 1,3-Dichlorobenzene	146		22.517				ND	
	97 1,4-Dichlorobenzene	146		22.655				ND	
	98 Benzyl chloride	91		22.847				ND	
	100 n-Butylbenzene	91		23.056				ND	
	101 1,2-Dichlorobenzene	146		23.178				ND	
	103 1,2,4-Trichlorobenzene	180		25.633				ND	
	104 Hexachlorobutadiene	225		25.820				ND	
	105 Naphthalene	128		26.103				ND	

Reagents:

ATTO15CISs_00010 Amount Added: 20.00 Units: mL Run Reagent

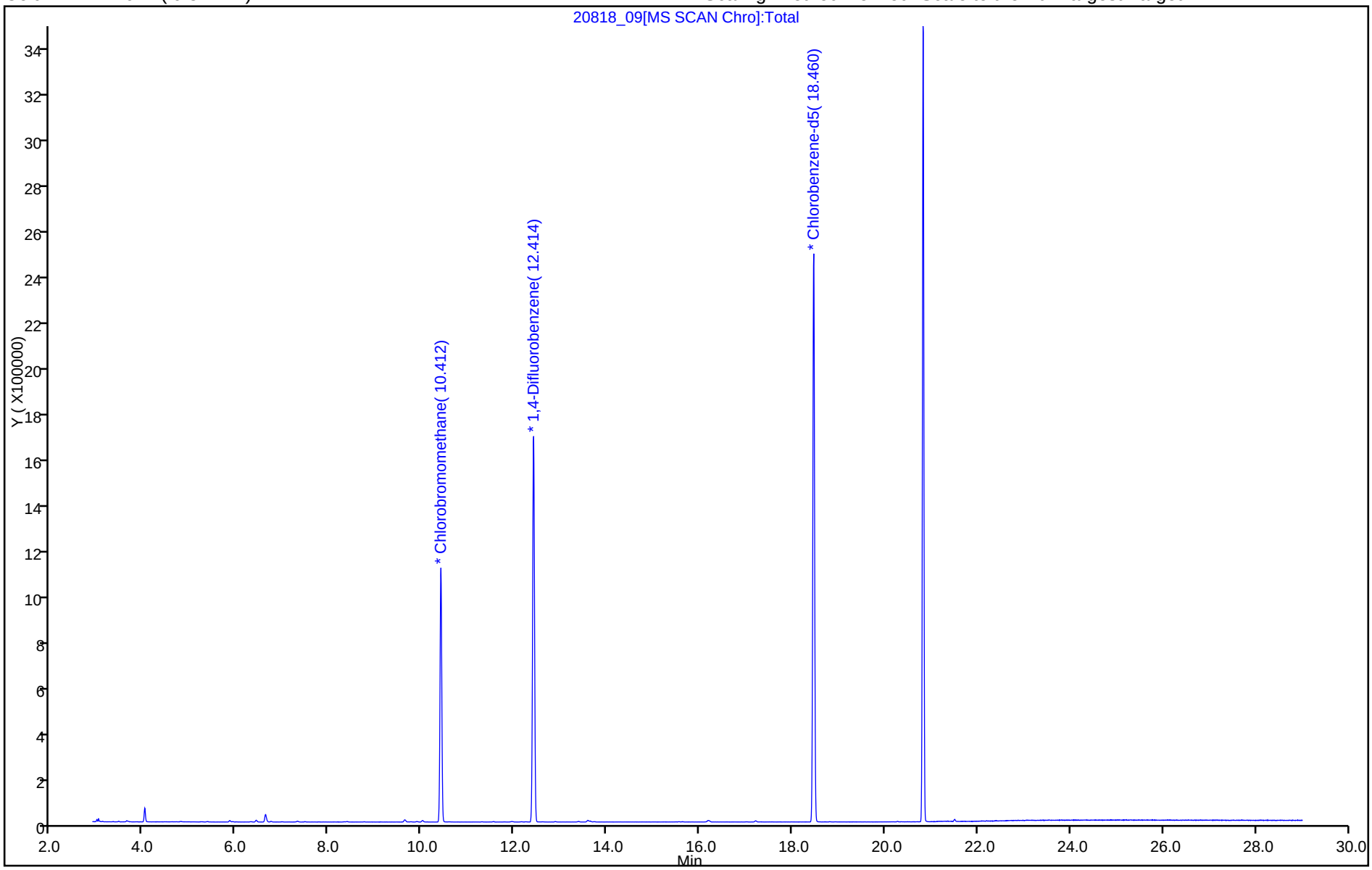
Report Date: 13-Jul-2016 09:55:27 Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHC.i\20160711-20818.b\20818_09.D

Injection Date:	11-Jul-2016 17:04:30	Instrument ID:	CHC.i	Operator ID:	ggg
Lims ID:	200-34298-A-5	Lab Sample ID:	200-34298-5	Worklist Smp#:	9
Client ID:	3866				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	7
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34305-1

SDG No.:

Client Sample ID: 3419 Lab Sample ID: 200-34305-2

Matrix: Air Lab File ID: 20818_11.D

Analysis Method: TO-15 Date Collected: 07/07/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/11/2016 19:02

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 106892 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34305-1

SDG No.:

Client Sample ID: 3419 Lab Sample ID: 200-34305-2

Matrix: Air Lab File ID: 20818_11.D

Analysis Method: TO-15 Date Collected: 07/07/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/11/2016 19:02

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 106892 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34305-1

SDG No.:

Client Sample ID: 3419 Lab Sample ID: 200-34305-2

Matrix: Air Lab File ID: 20818_11.D

Analysis Method: TO-15 Date Collected: 07/07/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/11/2016 19:02

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 106892 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHC.i\20160711-20818.b\20818_11.D
Lims ID: 200-34305-A-2 Lab Sample ID: 200-34305-2
Client ID: 3419
Sample Type: Client
Inject. Date: 11-Jul-2016 19:02:30 ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0020818-011
Misc. Info.: 34305-02
Operator ID: ggg Instrument ID: CHC.i

Method: \\ChromNA\Burlington\ChromData\CHC.i\20160711-20818.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 12-Jul-2016 15:36:59 Calib Date: 30-Jun-2016 22:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHC.i\20160630-20687.b\20687_10.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: daiglep Date: 12-Jul-2016 15:31:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.983				ND	
2 Dichlorodifluoromethane	85		3.053				ND	
3 Chlorodifluoromethane	51		3.106				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.320				ND	
5 Chloromethane	50		3.458				ND	
6 Butane	43		3.661				ND	
7 Vinyl chloride	62		3.704				ND	
8 Butadiene	54		3.784				ND	
10 Bromomethane	94		4.472				ND	
11 Chloroethane	64		4.723				ND	
13 Vinyl bromide	106		5.118				ND	
14 Trichlorofluoromethane	101		5.225				ND	
17 Ethanol	45	5.860	5.833	0.027	98	3231	0.2465	
20 1,1,2-Trichloro-1,2,2-trif	101		6.335				ND	
21 1,1-Dichloroethene	96		6.367				ND	
22 Acetone	43		6.618				ND	
23 Carbon disulfide	76	6.746	6.751	-0.005	98	7811	0.1477	
24 Isopropyl alcohol	45		6.938				ND	
25 3-Chloro-1-propene	41		7.178				ND	
27 Methylene Chloride	49		7.482				ND	
28 2-Methyl-2-propanol	59		7.728				ND	
29 Methyl tert-butyl ether	73		7.888				ND	
31 trans-1,2-Dichloroethene	61		7.925				ND	
33 Hexane	57		8.326				ND	
34 1,1-Dichloroethane	63		8.811				ND	
35 Vinyl acetate	43		8.902				ND	
* 40 Chlorobromomethane	128	10.412	10.412	0.000	92	325058	10.0	
37 cis-1,2-Dichloroethene	96		9.948				ND	
38 2-Butanone (MEK)	72		10.001				ND	
39 Ethyl acetate	88		10.055				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		10.418				ND	
	42 Chloroform	83		10.562				ND	
	43 Cyclohexane	84		10.791				ND	
	44 1,1,1-Trichloroethane	97		10.823				ND	
	45 Carbon tetrachloride	117		11.074				ND	
	46 Isooctane	57		11.522				ND	
	47 Benzene	78		11.549				ND	
	48 1,2-Dichloroethane	62		11.741				ND	
	49 n-Heptane	43		11.928				ND	
*	50 1,4-Difluorobenzene	114	12.414	12.414	0.000	98	1785759		10.0
	53 Trichloroethene	95		12.883				ND	
	54 1,2-Dichloropropane	63		13.444				ND	
	55 Methyl methacrylate	69		13.631				ND	
	56 1,4-Dioxane	88		13.679				ND	
	57 Dibromomethane	174		13.711				ND	
	58 Dichlorobromomethane	83		14.020				ND	
	60 cis-1,3-Dichloropropene	75		14.965				ND	
	61 4-Methyl-2-pentanone (MIBK	43		15.258				ND	
	65 Toluene	92		15.552				ND	
	66 trans-1,3-Dichloropropene	75		16.166				ND	
	67 1,1,2-Trichloroethane	83		16.539				ND	
	68 Tetrachloroethene	166		16.641				ND	
	69 2-Hexanone	43		16.987				ND	
	71 Chlorodibromomethane	129		17.302				ND	
	72 Ethylene Dibromide	107		17.564				ND	
*	74 Chlorobenzene-d5	117	18.460	18.460	0.000	96	1736515		10.0
	75 Chlorobenzene	112		18.519				ND	
	76 Ethylbenzene	91		18.674				ND	
	78 m-Xylene & p-Xylene	106		18.925				ND	
	79 o-Xylene	106		19.763				ND	
	80 Styrene	104		19.816				ND	
S	73 Xylenes, Total	106		20.100				ND	
	81 Bromoform	173		20.243				ND	
	82 Isopropylbenzene	105		20.451				ND	
	84 1,1,2,2-Tetrachloroethane	83		21.113				ND	
	85 N-Propylbenzene	91		21.177				ND	
	88 4-Ethyltoluene	105		21.364				ND	
	89 2-Chlorotoluene	91		21.374				ND	
	90 1,3,5-Trimethylbenzene	105		21.470				ND	
	92 tert-Butylbenzene	119		21.961				ND	
	93 1,2,4-Trimethylbenzene	105		22.058				ND	
	94 sec-Butylbenzene	105		22.287				ND	
	95 4-Isopropyltoluene	119		22.490				ND	
	96 1,3-Dichlorobenzene	146		22.517				ND	
	97 1,4-Dichlorobenzene	146		22.655				ND	
	98 Benzyl chloride	91		22.847				ND	
	100 n-Butylbenzene	91		23.056				ND	
	101 1,2-Dichlorobenzene	146		23.178				ND	
	103 1,2,4-Trichlorobenzene	180		25.633				ND	
	104 Hexachlorobutadiene	225		25.820				ND	
	105 Naphthalene	128		26.103				ND	

Reagents:

ATTO15CISs_00010 Amount Added: 20.00 Units: mL Run Reagent

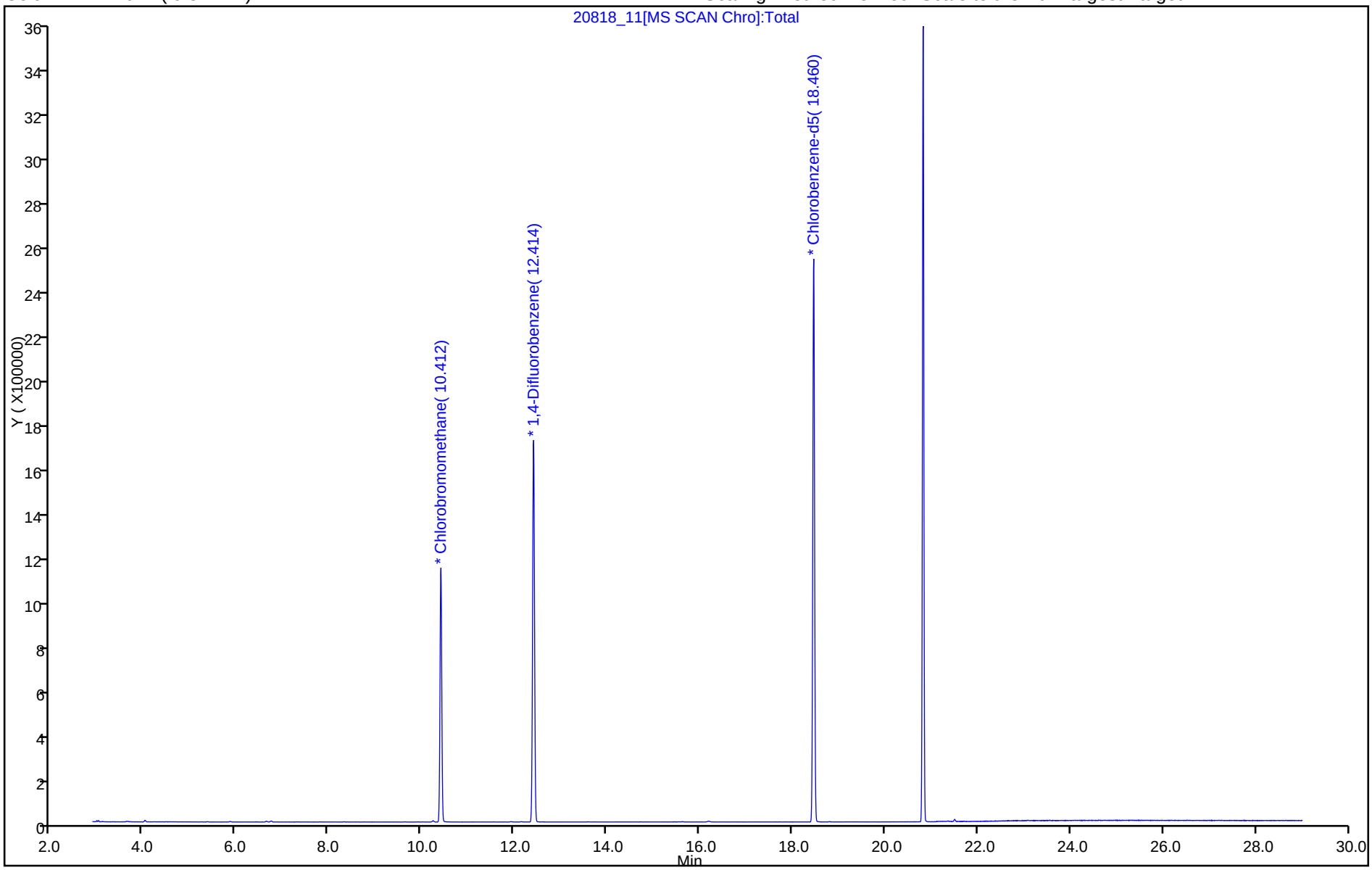
Report Date: 12-Jul-2016 15:37:10 Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHC.i\20160711-20818.b\20818_11.D

Injection Date:	11-Jul-2016 19:02:30	Instrument ID:	CHC.i	Operator ID:	ggg
Lims ID:	200-34305-A-2	Lab Sample ID:	200-34305-2	Worklist Smp#:	11
Client ID:	3419				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	9
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34373-1

SDG No.:

Client Sample ID: 3820 Lab Sample ID: 200-34373-11

Matrix: Air Lab File ID: 20898_06.D

Analysis Method: TO-15 Date Collected: 07/14/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/15/2016 14:39

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 107104 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34373-1

SDG No.:

Client Sample ID: 3820 Lab Sample ID: 200-34373-11

Matrix: Air Lab File ID: 20898_06.D

Analysis Method: TO-15 Date Collected: 07/14/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/15/2016 14:39

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 107104 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34373-1

SDG No.:

Client Sample ID: 3820 Lab Sample ID: 200-34373-11

Matrix: Air Lab File ID: 20898_06.D

Analysis Method: TO-15 Date Collected: 07/14/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/15/2016 14:39

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 107104 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20160715-20898.b\20898_06.D
Lims ID: 200-34373-A-11 Lab Sample ID: 200-34373-11
Client ID: 3820
Sample Type: Client
Inject. Date: 15-Jul-2016 14:39:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0020898-006
Misc. Info.: 34373-11
Operator ID: pad Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20160715-20898.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 18-Jul-2016 11:39:15 Calib Date: 15-Jun-2016 23:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20160615-20450.b\20450_10.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: guazzonig Date: 18-Jul-2016 10:22:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.081				ND	
2 Dichlorodifluoromethane	85		3.145				ND	
3 Chlorodifluoromethane	51		3.199				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.408				ND	
5 Chloromethane	50	3.552	3.547	0.005	1	308	0.0247	
6 Butane	43		3.734				ND	
7 Vinyl chloride	62		3.782				ND	
8 Butadiene	54		3.852				ND	
9 Bromomethane	94		4.520				ND	
10 Chloroethane	64		4.745				ND	
12 Vinyl bromide	106		5.125				ND	
13 Trichlorofluoromethane	101		5.216				ND	
15 Ethanol	45	5.847	5.794	0.053	97	5497	0.8746	
18 1,1,2-Trichloro-1,2,2-trif	101		6.270				ND	
20 1,1-Dichloroethene	96		6.329				ND	
21 Acetone	43		6.580				ND	
22 Carbon disulfide	76	6.724	6.730	-0.006	95	3216	0.0685	
23 Isopropyl alcohol	45		6.874				ND	
24 3-Chloro-1-propene	41		7.110				ND	
26 Methylene Chloride	49		7.409				ND	
28 2-Methyl-2-propanol	59		7.671				ND	
29 Methyl tert-butyl ether	73		7.826				ND	
30 trans-1,2-Dichloroethene	61		7.853				ND	
32 Hexane	57		8.228				ND	
33 1,1-Dichloroethane	63		8.747				ND	
34 Vinyl acetate	43		8.816				ND	
35 cis-1,2-Dichloroethene	96		9.902				ND	
36 2-Butanone (MEK)	72		9.956				ND	
37 Ethyl acetate	88		9.988				ND	
S 38 1,2-Dichloroethene, Total	61		10.000				ND	
* 40 Chlorobromomethane	128	10.394	10.400	-0.006	78	244975	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	39 Tetrahydrofuran	42		10.405				ND	
	41 Chloroform	83		10.533				ND	
	42 Cyclohexane	84		10.785				ND	
	43 1,1,1-Trichloroethane	97		10.817				ND	
	44 Carbon tetrachloride	117		11.084				ND	
	45 Isooctane	57		11.528				ND	
	46 Benzene	78		11.582				ND	
	47 1,2-Dichloroethane	62		11.791				ND	
	48 n-Heptane	43		11.946				ND	
*	50 1,4-Difluorobenzene	114	12.486	12.491	-0.005	92	1292859	10.0	
	52 Trichloroethene	95		12.994				ND	
	53 1,2-Dichloropropane	63		13.588				ND	
	54 Methyl methacrylate	69		13.754				ND	
	55 1,4-Dioxane	88		13.829				ND	
	56 Dibromomethane	174		13.861				ND	
	57 Dichlorobromomethane	83		14.171				ND	
	58 cis-1,3-Dichloropropene	75		15.145				ND	
	61 4-Methyl-2-pentanone (MIBK	43		15.455				ND	
	62 Toluene	92		15.755				ND	
	67 trans-1,3-Dichloropropene	75		16.397				ND	
	68 1,1,2-Trichloroethane	83		16.793				ND	
	69 Tetrachloroethene	166		16.894				ND	
	70 2-Hexanone	43		17.274				ND	
	71 Chlorodibromomethane	129		17.595				ND	
	72 Ethylene Dibromide	107		17.879				ND	
*	73 Chlorobenzene-d5	117	18.820	18.825	-0.005	83	1158183	10.0	
	74 Chlorobenzene	112		18.884				ND	
	75 Ethylbenzene	91		19.039				ND	
	77 m-Xylene & p-Xylene	106		19.307				ND	
S	80 Xylenes, Total	106		20.000				ND	
	78 o-Xylene	106		20.200				ND	
	79 Styrene	104		20.259				ND	
	81 Bromoform	173		20.725				ND	
	82 Isopropylbenzene	105		20.928				ND	
	85 1,1,2,2-Tetrachloroethane	83		21.639				ND	
	86 N-Propylbenzene	91		21.698				ND	
	89 4-Ethyltoluene	105		21.896				ND	
	90 2-Chlorotoluene	91		21.912				ND	
	91 1,3,5-Trimethylbenzene	105		22.009				ND	
	93 tert-Butylbenzene	119		22.522				ND	
	94 1,2,4-Trimethylbenzene	105	22.618	22.618	0.000	1	757	0.005665	
	95 sec-Butylbenzene	105		22.859				ND	
	96 4-Isopropyltoluene	119		23.068				ND	
	97 1,3-Dichlorobenzene	146	23.111	23.105	0.006	89	1220	0.0117	
	98 1,4-Dichlorobenzene	146	23.244	23.250	-0.006	92	1559	0.0148	
	99 Benzyl chloride	91		23.453				ND	
	101 n-Butylbenzene	91	23.662	23.662	0.000	86	1037	0.007098	
	102 1,2-Dichlorobenzene	146	23.806	23.806	0.000	92	1459	0.0147	
	104 1,2,4-Trichlorobenzene	180	26.411	26.406	0.005	83	1348	0.0160	
	105 Hexachlorobutadiene	225		26.593				ND	
	106 Naphthalene	128	26.920	26.914	0.006	1	2860	0.0188	

Reagents:

ATTO15XISs_00002 Amount Added: 20.00 Units: mL Run Reagent

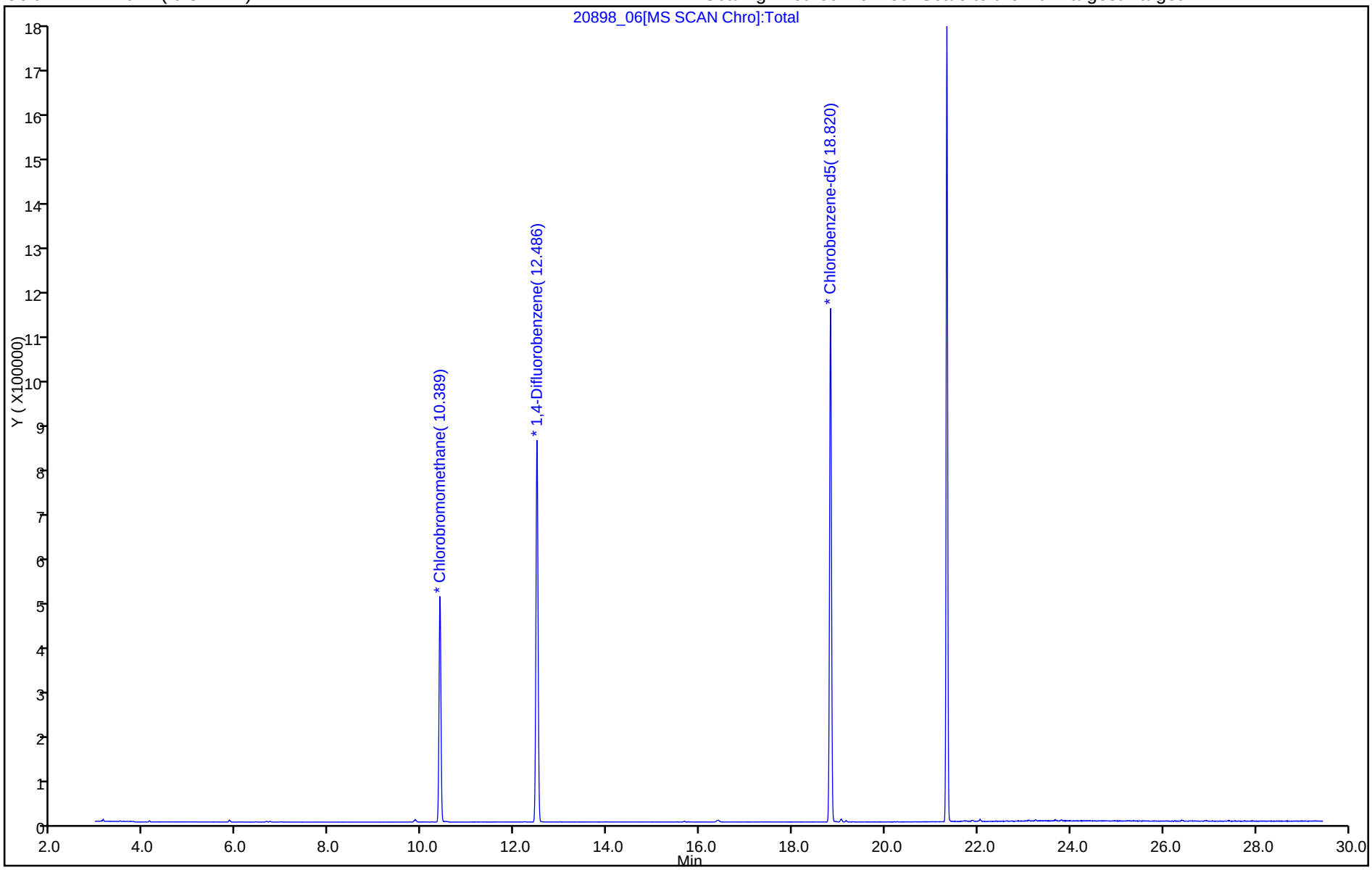
Report Date: 18-Jul-2016 11:39:24 Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20160715-20898.b\20898_06.D

Injection Date:	15-Jul-2016 14:39:30	Instrument ID:	CHX.i	Operator ID:	pad
Lims ID:	200-34373-A-11	Lab Sample ID:	200-34373-11	Worklist Smp#:	6
Client ID:	3820				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	6
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34374-1

SDG No.:

Client Sample ID: 3614 Lab Sample ID: 200-34374-4

Matrix: Air Lab File ID: 20921_20.D

Analysis Method: TO-15 Date Collected: 07/14/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/19/2016 02:45

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 107156 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34374-1

SDG No.:

Client Sample ID: 3614 Lab Sample ID: 200-34374-4

Matrix: Air Lab File ID: 20921_20.D

Analysis Method: TO-15 Date Collected: 07/14/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/19/2016 02:45

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 107156 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34374-1

SDG No.:

Client Sample ID: 3614 Lab Sample ID: 200-34374-4

Matrix: Air Lab File ID: 20921_20.D

Analysis Method: TO-15 Date Collected: 07/14/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/19/2016 02:45

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 107156 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20160718-20921.b\20921_20.D
Lims ID: 200-34374-A-4 Lab Sample ID: 200-34374-4
Client ID: 3614
Sample Type: Client
Inject. Date: 19-Jul-2016 02:45:30 ALS Bottle#: 16 Worklist Smp#: 20
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0020921-020
Misc. Info.: 34374-04
Operator ID: ggg Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20160718-20921.b\TO15_LLNJ_TO3_CHX.i.m.m
Limit Group: AI_TO15_ICAL
Last Update: 19-Jul-2016 11:23:07 Calib Date: 15-Jun-2016 23:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20160615-20450.b\20450_10.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: daiglep Date: 19-Jul-2016 10:41:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.081				ND	
2 Dichlorodifluoromethane	85		3.151				ND	
3 Chlorodifluoromethane	51		3.199				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.408				ND	
5 Chloromethane	50		3.547				ND	
6 Butane	43		3.734				ND	
7 Vinyl chloride	62		3.782				ND	
8 Butadiene	54		3.857				ND	
9 Bromomethane	94		4.520				ND	
10 Chloroethane	64		4.745				ND	
12 Vinyl bromide	106		5.125				ND	
13 Trichlorofluoromethane	101		5.216				ND	
15 Ethanol	45		5.794				ND	
18 1,1,2-Trichloro-1,2,2-trif	101		6.270				ND	
20 1,1-Dichloroethene	96		6.323				ND	
21 Acetone	43		6.580				ND	
22 Carbon disulfide	76		6.730				ND	
23 Isopropyl alcohol	45		6.880				ND	
24 3-Chloro-1-propene	41		7.110				ND	
26 Methylene Chloride	49		7.409				ND	
28 2-Methyl-2-propanol	59		7.671				ND	
29 Methyl tert-butyl ether	73		7.826				ND	
30 trans-1,2-Dichloroethene	61		7.853				ND	
32 Hexane	57		8.228				ND	
33 1,1-Dichloroethane	63		8.747				ND	
34 Vinyl acetate	43		8.816				ND	
35 cis-1,2-Dichloroethene	96		9.902				ND	
36 2-Butanone (MEK)	72		9.956				ND	
S 38 1,2-Dichloroethene, Total	61		10.000				ND	
37 Ethyl acetate	88		9.993				ND	
* 40 Chlorobromomethane	128	10.394	10.394	0.000	71	271604	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	39 Tetrahydrofuran	42		10.405				ND	
	41 Chloroform	83		10.533				ND	
	42 Cyclohexane	84		10.785				ND	
	43 1,1,1-Trichloroethane	97		10.822				ND	
	44 Carbon tetrachloride	117		11.079				ND	
	45 Isooctane	57		11.528				ND	
	46 Benzene	78		11.582				ND	
	47 1,2-Dichloroethane	62		11.791				ND	
	48 n-Heptane	43		11.951				ND	
*	50 1,4-Difluorobenzene	114	12.486	12.491	-0.005	91	1489128	10.0	
	52 Trichloroethene	95	12.994	12.994	0.000	63	367	0.008764	
	53 1,2-Dichloropropane	63		13.588				ND	
	54 Methyl methacrylate	69		13.754				ND	
	55 1,4-Dioxane	88		13.829				ND	
	56 Dibromomethane	174		13.861				ND	
	57 Dichlorobromomethane	83		14.171				ND	
	58 cis-1,3-Dichloropropene	75		15.145				ND	
	61 4-Methyl-2-pentanone (MIBK	43		15.455				ND	
	62 Toluene	92		15.755				ND	
	67 trans-1,3-Dichloropropene	75		16.397				ND	
	68 1,1,2-Trichloroethane	83		16.787				ND	
	69 Tetrachloroethene	166		16.889				ND	
	70 2-Hexanone	43		17.274				ND	
	71 Chlorodibromomethane	129		17.595				ND	
	72 Ethylene Dibromide	107		17.879				ND	
*	73 Chlorobenzene-d5	117	18.820	18.820	0.000	81	1354852	10.0	
	74 Chlorobenzene	112		18.884				ND	
	75 Ethylbenzene	91		19.039				ND	
	77 m-Xylene & p-Xylene	106		19.307				ND	
S	80 Xylenes, Total	106		20.000				ND	
	78 o-Xylene	106		20.200				ND	
	79 Styrene	104		20.259				ND	
	81 Bromoform	173		20.725				ND	
	82 Isopropylbenzene	105		20.928				ND	
	85 1,1,2,2-Tetrachloroethane	83		21.639				ND	
	86 N-Propylbenzene	91		21.698				ND	
	89 4-Ethyltoluene	105		21.896				ND	
	90 2-Chlorotoluene	91		21.912				ND	
	91 1,3,5-Trimethylbenzene	105		22.009				ND	
	93 tert-Butylbenzene	119		22.522				ND	
	94 1,2,4-Trimethylbenzene	105		22.618				ND	
	95 sec-Butylbenzene	105		22.859				ND	
	96 4-Isopropyltoluene	119		23.068				ND	
	97 1,3-Dichlorobenzene	146		23.105				ND	
	98 1,4-Dichlorobenzene	146		23.244				ND	
	99 Benzyl chloride	91		23.453				ND	
	101 n-Butylbenzene	91		23.662				ND	
	102 1,2-Dichlorobenzene	146		23.806				ND	
	104 1,2,4-Trichlorobenzene	180		26.406				ND	
	105 Hexachlorobutadiene	225		26.593				ND	
	106 Naphthalene	128		26.914				ND	

Reagents:

ATTO15XISs_00002 Amount Added: 20.00 Units: mL Run Reagent

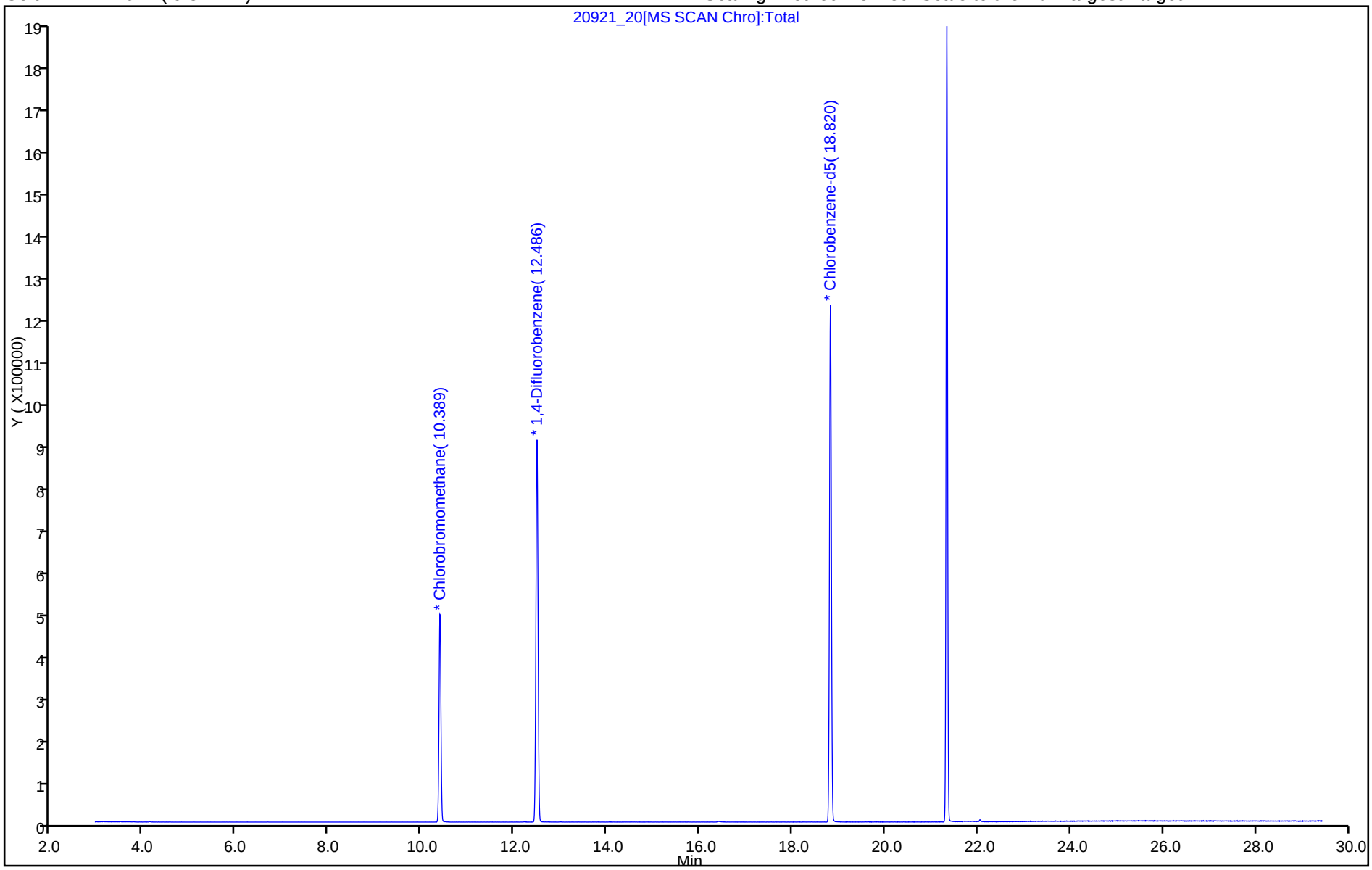
Report Date: 19-Jul-2016 11:24:01 Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20160718-20921.b\20921_20.D

Injection Date:	19-Jul-2016 02:45:30	Instrument ID:	CHX.i	Operator ID:	ggg
Lims ID:	200-34374-A-4	Lab Sample ID:	200-34374-4	Worklist Smp#:	20
Client ID:	3614				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	16
Method:	TO15_LLNJ_TO3_CHX.i.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34477-1

SDG No.:

Client Sample ID: 5421 Lab Sample ID: 200-34477-7

Matrix: Air Lab File ID: 21003_16.D

Analysis Method: TO-15 Date Collected: 07/21/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/22/2016 23:49

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 107362 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34477-1

SDG No.:

Client Sample ID: 5421 Lab Sample ID: 200-34477-7

Matrix: Air Lab File ID: 21003_16.D

Analysis Method: TO-15 Date Collected: 07/21/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/22/2016 23:49

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 107362 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34477-1

SDG No.:

Client Sample ID: 5421 Lab Sample ID: 200-34477-7

Matrix: Air Lab File ID: 21003_16.D

Analysis Method: TO-15 Date Collected: 07/21/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/22/2016 23:49

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 107362 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHC.i\20160722-21003.b\21003_16.D
Lims ID: 200-34477-A-7 Lab Sample ID: 200-34477-7
Client ID: 5421
Sample Type: Client
Inject. Date: 22-Jul-2016 23:49:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0021003-016
Misc. Info.: 34477-07
Operator ID: pad Instrument ID: CHC.i

Method: \\ChromNA\Burlington\ChromData\CHC.i\20160722-21003.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 26-Jul-2016 12:09:57 Calib Date: 30-Jun-2016 22:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHC.i\20160630-20687.b\20687_10.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: daiglep Date: 26-Jul-2016 12:02:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.978				ND	
2 Dichlorodifluoromethane	85		3.053				ND	
3 Chlorodifluoromethane	51		3.106				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.320				ND	
5 Chloromethane	50		3.453				ND	
6 Butane	43		3.661				ND	
7 Vinyl chloride	62		3.704				ND	
8 Butadiene	54		3.779				ND	
10 Bromomethane	94		4.472				ND	
11 Chloroethane	64		4.718				ND	
13 Vinyl bromide	106		5.118				ND	
14 Trichlorofluoromethane	101		5.225				ND	
17 Ethanol	45		5.833				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		6.335				ND	
21 1,1-Dichloroethene	96		6.367				ND	
22 Acetone	43		6.613				ND	
24 Isopropyl alcohol	45		6.938				ND	
23 Carbon disulfide	76		6.746				ND	
25 3-Chloro-1-propene	41		7.178				ND	
27 Methylene Chloride	49		7.483				ND	
28 2-Methyl-2-propanol	59		7.723				ND	
29 Methyl tert-butyl ether	73		7.883				ND	
31 trans-1,2-Dichloroethene	61		7.925				ND	
33 Hexane	57		8.320				ND	
34 1,1-Dichloroethane	63		8.811				ND	
35 Vinyl acetate	43		8.902				ND	
37 cis-1,2-Dichloroethene	96		9.943				ND	
39 Ethyl acetate	88		10.050				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
38 2-Butanone (MEK)	72		9.996				ND	
* 40 Chlorobromomethane	128	10.412	10.412	0.000	95	275835	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		10.412				ND	
	42 Chloroform	83		10.557				ND	
	43 Cyclohexane	84		10.791				ND	
	44 1,1,1-Trichloroethane	97		10.823				ND	
	45 Carbon tetrachloride	117		11.074				ND	
	46 Isooctane	57		11.523				ND	
	47 Benzene	78		11.544				ND	
	48 1,2-Dichloroethane	62		11.736				ND	
	49 n-Heptane	43		11.928				ND	
*	50 1,4-Difluorobenzene	114	12.408	12.414	-0.006	98	1526419	10.0	
	53 Trichloroethene	95		12.883				ND	
	54 1,2-Dichloropropane	63		13.444				ND	
	55 Methyl methacrylate	69		13.631				ND	
	56 1,4-Dioxane	88		13.679				ND	
	57 Dibromomethane	174		13.711				ND	
	58 Dichlorobromomethane	83		14.020				ND	
	60 cis-1,3-Dichloropropene	75		14.965				ND	
	61 4-Methyl-2-pentanone (MIBK	43		15.253				ND	
	65 Toluene	92		15.552				ND	
	66 trans-1,3-Dichloropropene	75		16.166				ND	
	67 1,1,2-Trichloroethane	83		16.539				ND	
	68 Tetrachloroethene	166		16.641				ND	
	69 2-Hexanone	43		16.988				ND	
	71 Chlorodibromomethane	129		17.297				ND	
	72 Ethylene Dibromide	107		17.564				ND	
*	74 Chlorobenzene-d5	117	18.455	18.461	-0.006	98	1489376	10.0	
	75 Chlorobenzene	112		18.519				ND	
	76 Ethylbenzene	91		18.674				ND	
	78 m-Xylene & p-Xylene	106		18.925				ND	
	79 o-Xylene	106		19.763				ND	
	80 Styrene	104		19.816				ND	
S	73 Xylenes, Total	106		20.100				ND	
	81 Bromoform	173		20.243				ND	
	82 Isopropylbenzene	105		20.451				ND	
	84 1,1,2,2-Tetrachloroethane	83		21.113				ND	
	85 N-Propylbenzene	91		21.177				ND	
	88 4-Ethyltoluene	105		21.364				ND	
	89 2-Chlorotoluene	91		21.369				ND	
	90 1,3,5-Trimethylbenzene	105		21.471				ND	
	92 tert-Butylbenzene	119		21.962				ND	
	93 1,2,4-Trimethylbenzene	105		22.058				ND	
	94 sec-Butylbenzene	105		22.287				ND	
	95 4-Isopropyltoluene	119		22.490				ND	
	96 1,3-Dichlorobenzene	146		22.517				ND	
	97 1,4-Dichlorobenzene	146		22.650				ND	
	98 Benzyl chloride	91		22.847				ND	
	100 n-Butylbenzene	91		23.056				ND	
	101 1,2-Dichlorobenzene	146		23.178				ND	
	103 1,2,4-Trichlorobenzene	180		25.633				ND	
	104 Hexachlorobutadiene	225		25.815				ND	
	105 Naphthalene	128		26.103				ND	

Reagents:

ATTO15CISs_00010 Amount Added: 20.00 Units: mL Run Reagent

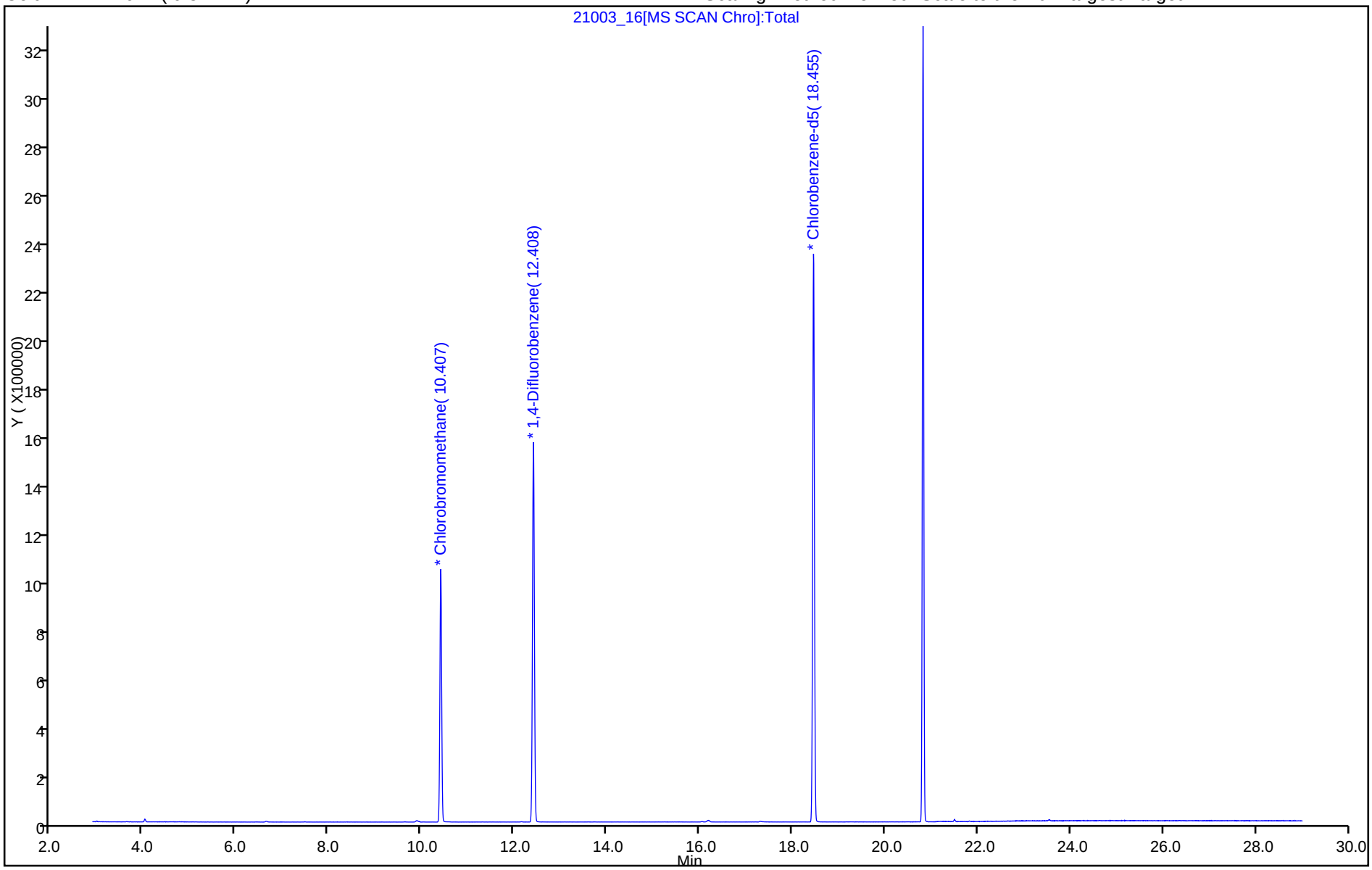
Report Date: 26-Jul-2016 12:10:11 Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHC.i\20160722-21003.b\21003_16.D

Injection Date:	22-Jul-2016 23:49:30	Instrument ID:	CHC.i	Operator ID:	pad
Lims ID:	200-34477-A-7	Lab Sample ID:	200-34477-7	Worklist Smp#:	16
Client ID:	5421				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	15
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34492-1

SDG No.:

Client Sample ID: 5036 Lab Sample ID: 200-34492-8

Matrix: Air Lab File ID: 21003_18.D

Analysis Method: TO-15 Date Collected: 07/21/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/23/2016 01:47

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 107362 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34492-1

SDG No.:

Client Sample ID: 5036 Lab Sample ID: 200-34492-8

Matrix: Air Lab File ID: 21003_18.D

Analysis Method: TO-15 Date Collected: 07/21/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/23/2016 01:47

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 107362 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-34492-1

SDG No.:

Client Sample ID: 5036 Lab Sample ID: 200-34492-8

Matrix: Air Lab File ID: 21003_18.D

Analysis Method: TO-15 Date Collected: 07/21/2016 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/23/2016 01:47

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 107362 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHC.i\20160722-21003.b\21003_18.D
Lims ID: 200-34492-A-8 Lab Sample ID: 200-34492-8
Client ID: 5036
Sample Type: Client
Inject. Date: 23-Jul-2016 01:47:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0021003-018
Misc. Info.: 34492-08
Operator ID: pad Instrument ID: CHC.i

Method: \\ChromNA\Burlington\ChromData\CHC.i\20160722-21003.b\TO15_MasterMethod_(v1)_CHC.i.m
Limit Group: AI_TO15_ICAL
Last Update: 26-Jul-2016 12:09:57 Calib Date: 30-Jun-2016 22:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHC.i\20160630-20687.b\20687_10.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: daiglep Date: 26-Jul-2016 12:06:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41	2.989	2.978	0.011	91	3372	0.1559	
2 Dichlorodifluoromethane	85		3.053				ND	
3 Chlorodifluoromethane	51	3.112	3.106	0.006	95	2077	0.0517	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.320				ND	
5 Chloromethane	50	3.458	3.453	0.005	95	1423	0.0633	
6 Butane	43		3.661				ND	
7 Vinyl chloride	62	3.715	3.704	0.011	92	827	0.0378	
8 Butadiene	54		3.779				ND	
10 Bromomethane	94		4.472				ND	
11 Chloroethane	64		4.718				ND	
13 Vinyl bromide	106		5.118				ND	
14 Trichlorofluoromethane	101		5.225				ND	
17 Ethanol	45	5.865	5.833	0.032	77	1684	0.1438	M
20 1,1,2-Trichloro-1,2,2-trif	101		6.335				ND	
21 1,1-Dichloroethene	96		6.367				ND	
22 Acetone	43	6.634	6.613	0.021	99	41724	1.00	
24 Isopropyl alcohol	45		6.938				ND	
23 Carbon disulfide	76	6.751	6.746	0.005	99	3990	0.0844	
25 3-Chloro-1-propene	41		7.178				ND	
27 Methylene Chloride	49	7.482	7.483	0.000	93	5228	0.1910	
28 2-Methyl-2-propanol	59		7.723				ND	
29 Methyl tert-butyl ether	73		7.883				ND	
31 trans-1,2-Dichloroethene	61		7.925				ND	
33 Hexane	57	8.320	8.320	0.000	86	5696	0.1748	
34 1,1-Dichloroethane	63		8.811				ND	
35 Vinyl acetate	43		8.902				ND	
37 cis-1,2-Dichloroethene	96	9.937	9.943	-0.006	93	956	0.0490	M
39 Ethyl acetate	88		10.050				ND	
S 30 1,2-Dichloroethene, Total	61				0		0.0490	
38 2-Butanone (MEK)	72		9.996				ND	
* 40 Chlorobromomethane	128	10.412	10.412	0.000	90	290393	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		10.412				ND	
	42 Chloroform	83		10.557				ND	
	43 Cyclohexane	84		10.791				ND	
	44 1,1,1-Trichloroethane	97		10.823				ND	
	45 Carbon tetrachloride	117		11.074				ND	
	46 Isooctane	57		11.523				ND	
	47 Benzene	78		11.544				ND	
	48 1,2-Dichloroethane	62		11.736				ND	
	49 n-Heptane	43		11.928				ND	
*	50 1,4-Difluorobenzene	114	12.408	12.414	-0.006	98	1608231	10.0	
	53 Trichloroethene	95		12.883				ND	
	54 1,2-Dichloropropane	63		13.444				ND	
	55 Methyl methacrylate	69		13.631				ND	
	56 1,4-Dioxane	88		13.679				ND	
	57 Dibromomethane	174		13.711				ND	
	58 Dichlorobromomethane	83		14.020				ND	
	60 cis-1,3-Dichloropropene	75		14.965				ND	
	61 4-Methyl-2-pentanone (MIBK	43		15.253				ND	
	65 Toluene	92		15.552				ND	
	66 trans-1,3-Dichloropropene	75		16.166				ND	
	67 1,1,2-Trichloroethane	83		16.539				ND	
	68 Tetrachloroethene	166		16.641				ND	
	69 2-Hexanone	43		16.988				ND	
	71 Chlorodibromomethane	129		17.297				ND	
	72 Ethylene Dibromide	107		17.564				ND	
*	74 Chlorobenzene-d5	117	18.460	18.461	-0.001	98	1574305	10.0	
	75 Chlorobenzene	112		18.519				ND	
	76 Ethylbenzene	91		18.674				ND	
	78 m-Xylene & p-Xylene	106		18.925				ND	
	79 o-Xylene	106		19.763				ND	
	80 Styrene	104		19.816				ND	
S	73 Xylenes, Total	106		20.100				ND	
	81 Bromoform	173		20.243				ND	
	82 Isopropylbenzene	105		20.451				ND	
	84 1,1,2,2-Tetrachloroethane	83		21.113				ND	
	85 N-Propylbenzene	91		21.177				ND	
	88 4-Ethyltoluene	105		21.364				ND	
	89 2-Chlorotoluene	91		21.369				ND	
	90 1,3,5-Trimethylbenzene	105		21.471				ND	
	92 tert-Butylbenzene	119		21.962				ND	
	93 1,2,4-Trimethylbenzene	105		22.058				ND	
	94 sec-Butylbenzene	105		22.287				ND	
	95 4-Isopropyltoluene	119		22.490				ND	
	96 1,3-Dichlorobenzene	146		22.517				ND	
	97 1,4-Dichlorobenzene	146		22.650				ND	
	98 Benzyl chloride	91		22.847				ND	
	100 n-Butylbenzene	91		23.056				ND	
	101 1,2-Dichlorobenzene	146		23.178				ND	
	103 1,2,4-Trichlorobenzene	180		25.633				ND	
	104 Hexachlorobutadiene	225		25.815				ND	
	105 Naphthalene	128		26.103				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15CISs_00010 Amount Added: 20.00 Units: mL Run Reagent

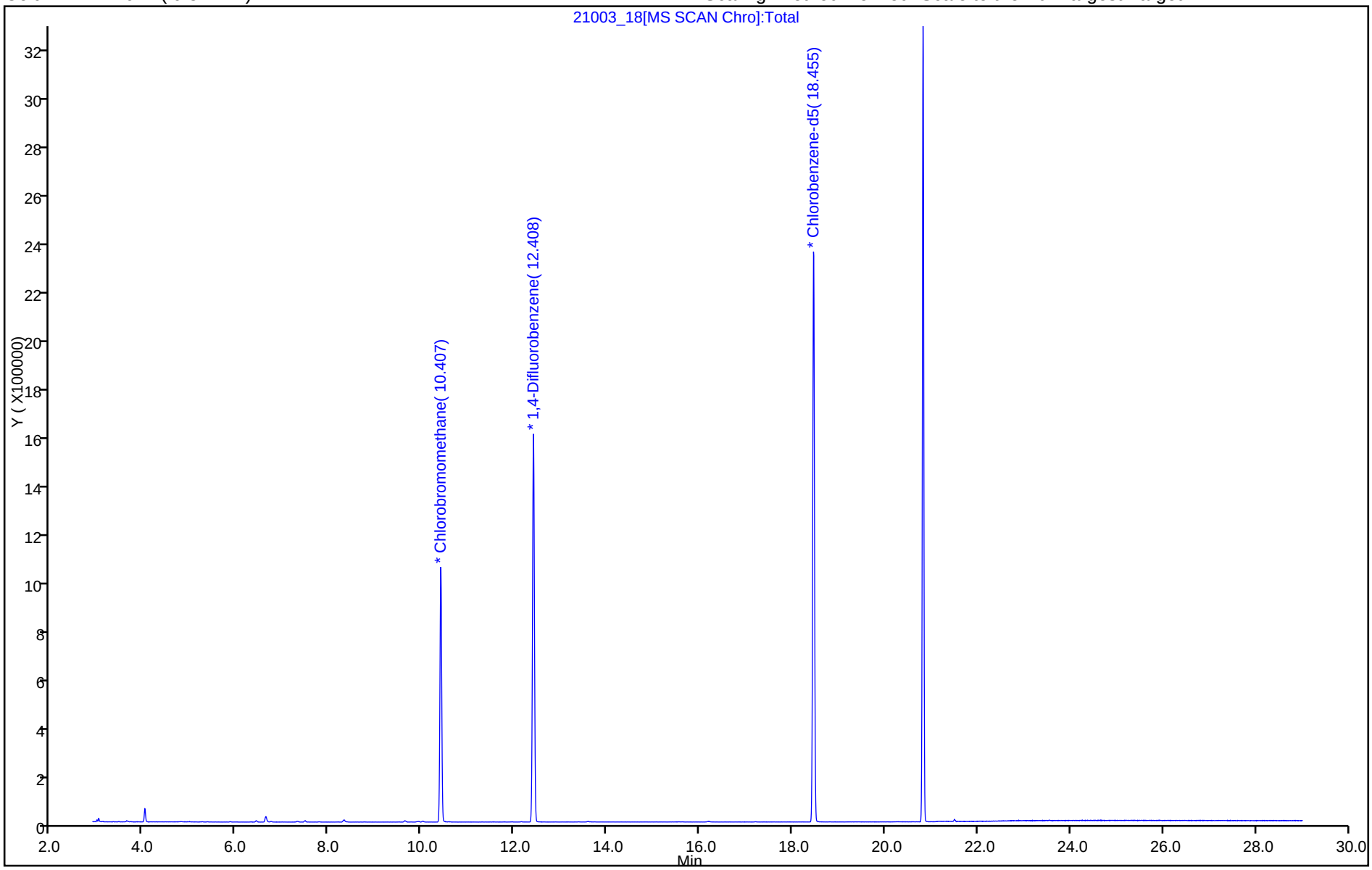
Report Date: 26-Jul-2016 12:10:13 Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHC.i\20160722-21003.b\21003_18.D

Injection Date:	23-Jul-2016 01:47:30	Instrument ID:	CHC.i	Operator ID:	pad
Lims ID:	200-34492-A-8	Lab Sample ID:	200-34492-8	Worklist Smp#:	18
Client ID:	5036				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	17
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

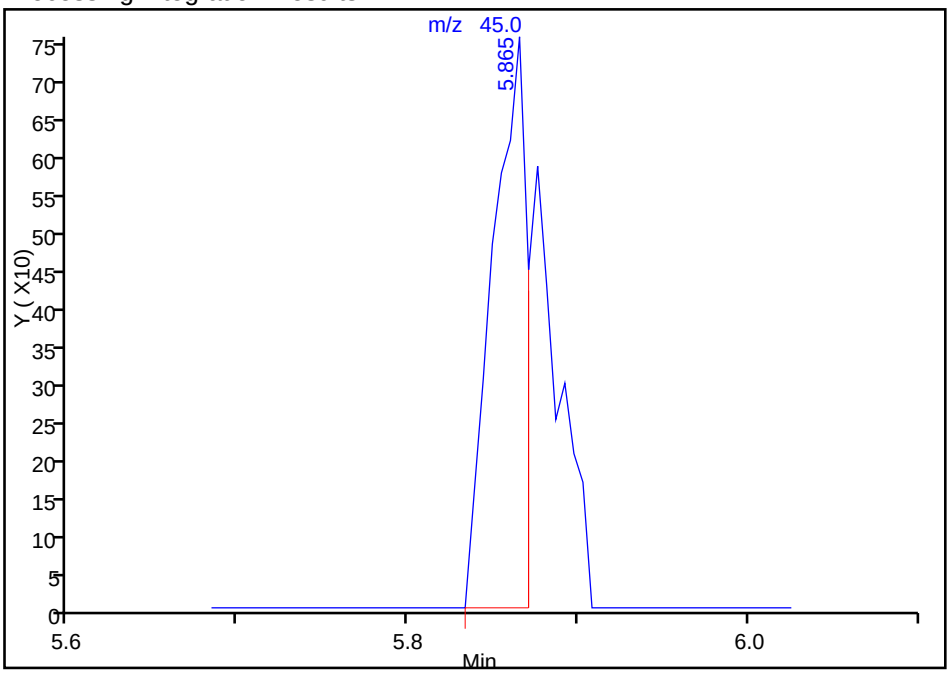
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHC.i\20160722-21003.b\21003_18.D				
Injection Date:	23-Jul-2016 01:47:30	Instrument ID:	CHC.i		
Lims ID:	200-34492-A-8	Lab Sample ID:	200-34492-8		
Client ID:	5036				
Operator ID:	pad	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5

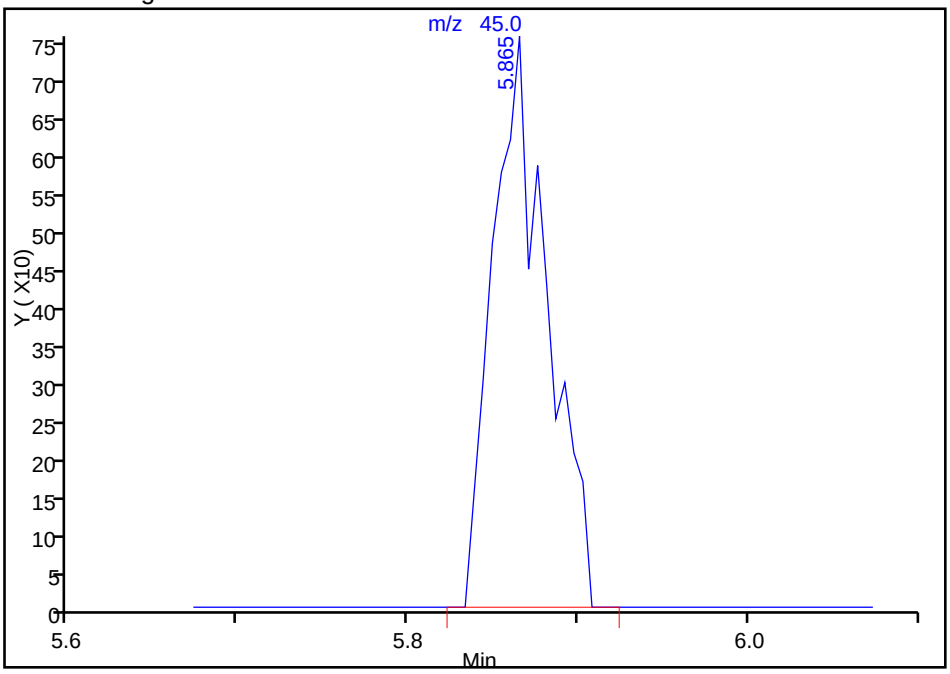
Processing Integration Results

RT: 5.87
Area: 1067
Amount: 0.091113
Amount Units: ppb v/v



Manual Integration Results

RT: 5.87
Area: 1684
Amount: 0.143800
Amount Units: ppb v/v



Reviewer: daiglep, 26-Jul-2016 12:06:51
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

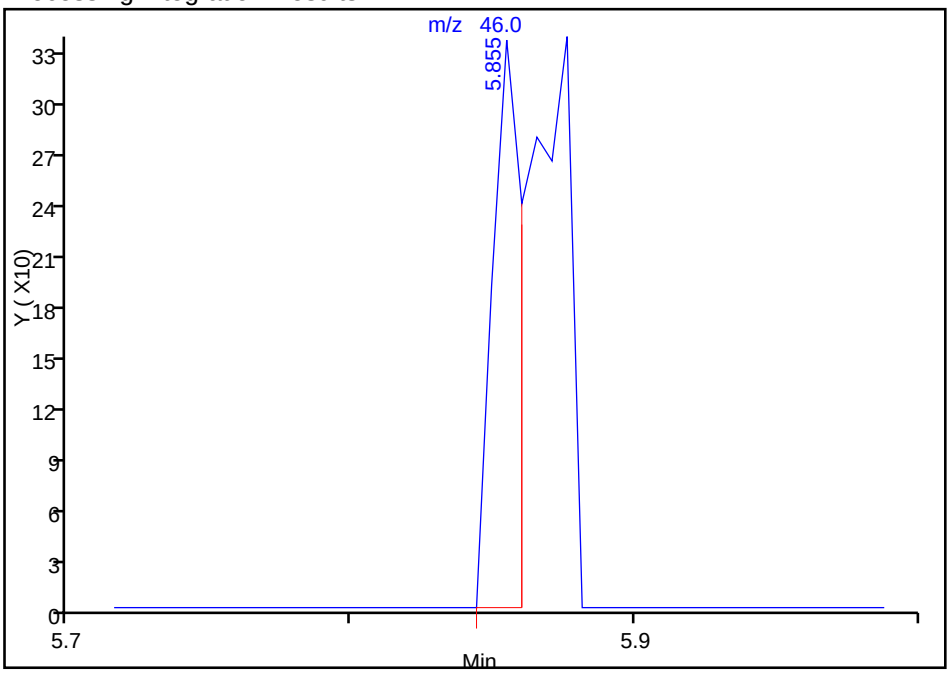
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHC.i\20160722-21003.b\21003_18.D				
Injection Date:	23-Jul-2016 01:47:30	Instrument ID:	CHC.i		
Lims ID:	200-34492-A-8	Lab Sample ID:	200-34492-8		
Client ID:	5036				
Operator ID:	pad	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5

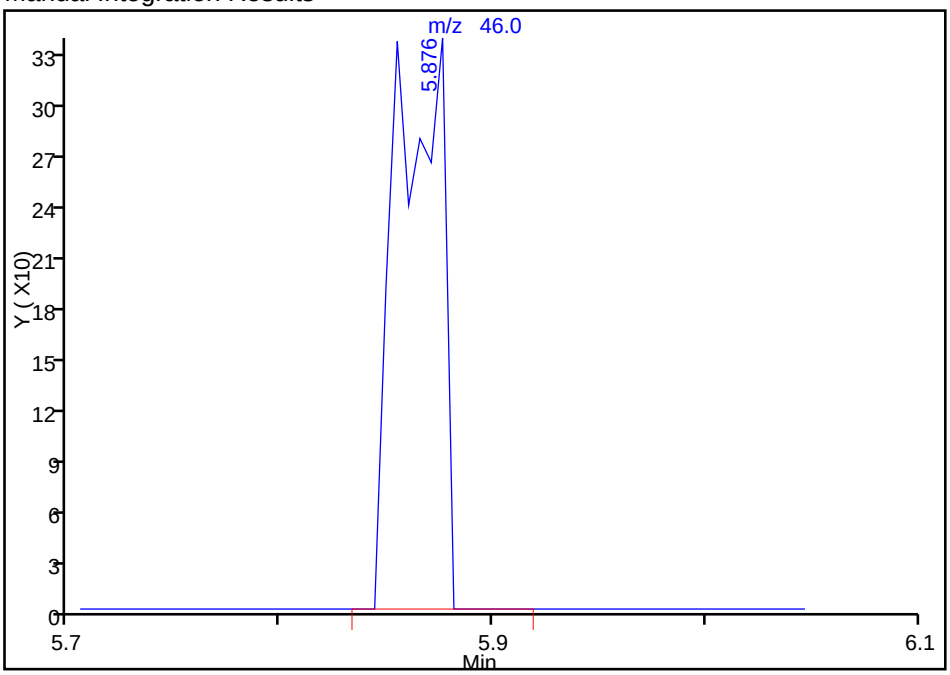
Processing Integration Results

RT: 5.85
Area: 243
Amount: 0.091113
Amount Units: ppb v/v



Manual Integration Results

RT: 5.88
Area: 523
Amount: 0.143800
Amount Units: ppb v/v



Reviewer: daiglep, 26-Jul-2016 12:06:51
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

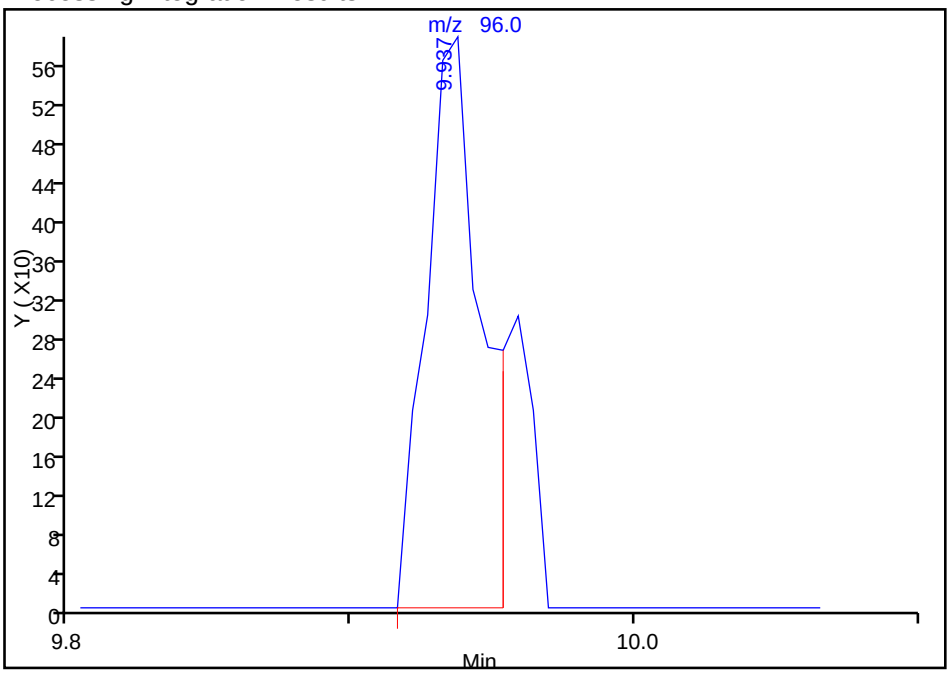
TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHC.i\20160722-21003.b\21003_18.D				
Injection Date:	23-Jul-2016 01:47:30	Instrument ID:	CHC.i		
Lims ID:	200-34492-A-8	Lab Sample ID:	200-34492-8		
Client ID:	5036				
Operator ID:	pad	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

37 cis-1,2-Dichloroethene, CAS: 156-59-2

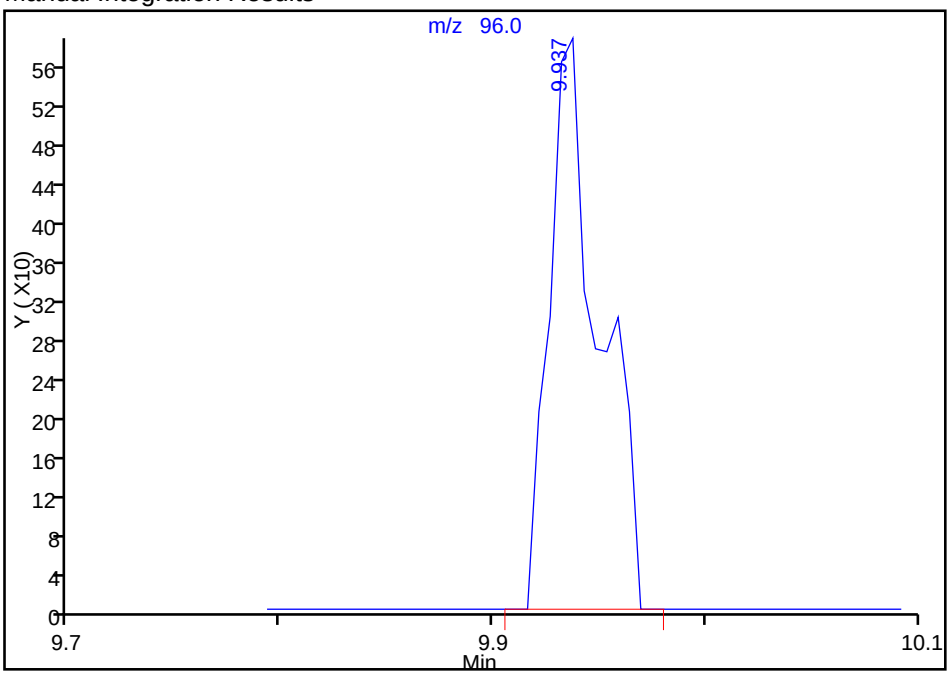
Processing Integration Results

RT: 9.94
Area: 797
Amount: 0.040888
Amount Units: ppb v/v



Manual Integration Results

RT: 9.94
Area: 956
Amount: 0.049045
Amount Units: ppb v/v



Reviewer: daiglep, 26-Jul-2016 12:06:51
Audit Action: Manually Integrated
Audit Reason: Baseline

APPENDIX F

RESTRICTIVE COVENANT

See next page

DECLARATION OF RESTRICTIONS AND COVENANTS

THIS DECLARATION OF RESTRICTIONS AND COVENANTS is made this 17th day of July, 2006, by Smurfit-Stone Container Enterprises, Inc. (d/b/a Smurfit-Stone Container Corporation) ("Smurfit-Stone"), a Delaware corporation authorized to conduct business in the State of Minnesota.

WITNESSETH:

WHEREAS, on or about November 1, 2004, Jefferson Smurfit Corporation (U.S.) was merged into Stone Container Corporation ("Stone"), with Stone being the surviving corporation that was subsequently renamed "Smurfit-Stone Container Enterprises, Inc."; and

WHEREAS, Smurfit-Stone is the fee owner of that certain real property located at 1050 North Kent Street, St. Paul, Ramsey County, Minnesota, which is more particularly described in Exhibit A hereto (the "Property"); and

WHEREAS, Smurfit-Stone formerly operated a folding carton manufacturing facility on the Property, and discontinued operations on the Property in 2003; and

WHEREAS, Smurfit-Stone is implementing a groundwater monitoring program on the Property; and

WHERAS, the Minnesota Pollution Control Agency ("MPCA") has approved Smurfit-Stone's groundwater monitoring program for the Property based on the assumption that the Property is to be used only for industrial purposes; and

WHEREAS, an Affidavit of Hazardous Substance Contamination for the Property was recorded in the Ramsey County Recorder's Office on August 17, 2004 as Document No. 3784036, and states, among other things, that the response actions at the Property were approved by the MPCA based on the assumption that the Property was to be used for industrial purposes; and

WHEREAS, Smurfit-Stone is recording this Declaration of Restrictions and Covenants (the "Declaration") on the Property to ensure that future use of the Property is consistent with the

assumptions used by MPCA in approving Smurfit-Stone's groundwater monitoring program and other cleanup activities for the Property, and is otherwise protective of human health and the environment.

NOW, THEREFORE, Smurfit-Stone makes the following declarations as to limitations, restrictions and uses to which the Property may be put, and specifies that such declarations shall constitute covenants to run with the Property as provided by law and shall be binding on Smurfit-Stone, its successors or assigns, all present or future owners of the Property, and all parties who now or hereafter have or hold any right, title or interest in the Property.

1. Subject to the terms and conditions of this Declaration, Smurfit-Stone declares and imposes the following restrictions ("Restrictions") on the Property:

A. There shall be no non-industrial use of the Property. Without limiting the foregoing, prohibited uses of the Property shall include the following: agricultural use of the land including forestry, fishing and mining; hotels or lodging; commercial uses; recreational uses including amusement parks, parks, camps, museums, zoos, or gardens; residential uses; and educational uses such as elementary and secondary schools, or day care services. As described using the codes in the North American Industry Classification System, United States, 1997 (NAICS)., Executive Office of the President, Office of Management and Budget, prohibited uses of the Property include, but are not limited to: Sector 11 Agriculture, Forestry, Fishing and Hunting; Subsection 212 Mining (except Oil and Gas); Code 512132 Drive-In Motion Picture Theaters; Code 51412 Libraries and Archives; Code 53111 Lessors of Residential Buildings and Dwellings; Subsector 611 Elementary and Secondary Schools; Subsector 623 Nursing and Residential Care Facilities; Subsector 624 Social Assistance; Subsector 711 Performing Arts, Spectator Sports and Related Industries; Subsector 712 Museums, Historical Sites, and Similar Institutions; Subsector 713 Amusement, Gambling, and Recreation Industries; Subsector 721 Accommodation (hotels, motels, RV parks, etc.); Subsector 813 Religious, Grantmaking, Civic, Professional, and Similar Organizations; and Subsector 814 Private Households.

B. There shall be no use of the groundwater on the Property, nor shall any potable/drinking water wells be installed on the Property.

2. This Declaration shall continue in effect until a party has demonstrated to Smurfit-Stone's reasonable satisfaction that the Property meets all applicable Federal, State and Local statutes, regulations, ordinances, codes, permits and all other requirements of every kind and nature pertaining to a non-industrial proposed use of the Property, including, but not limited to, all applicable environmental requirements, and that environmental conditions at the Property are suitable for such proposed use from the standpoint of protecting human health and the environment based on then-current standards and guidelines established or used by the MPCA and/or other regulatory agencies with jurisdiction over the Property.

3. When and if a party has so demonstrated to Smurfit-Stone's reasonable satisfaction that this Declaration should no longer be in effect, Smurfit-Stone shall issue a document declaring a

termination of this Declaration, such documentation to be recorded in the office of the County Recorded for Ramsey County, Minnesota.

In the event Smurfit-Stone is hereafter dissolved without having assigned its interest herein to a successor individual or entity disclosed in a document recorded in the Land Title Records for Ramsey County, Minnesota with reference hereto, then and thereafter this Declaration may be amended or terminated, and/or exceptions may be established pursuant to Section 2 hereof, by an instrument executed by the then owners of the Property and the Minnesota Pollution Control Agency.

4. It is the intention of Smurfit-Stone that the Restrictions contained in this Declaration shall touch and concern the Property, run with the land and with the title to the Property, and shall apply to and be binding upon and inure to the benefit of the successors and assigns of Smurfit-Stone, and to any and all parties hereafter having any right, title or interest in the Property or any part thereof.

5. If any provision of this Declaration is held to be invalid by any court of competent jurisdiction, the invalidity of such provision shall not affect the validity of any other provisions thereof. All such other provisions shall continue unimpaired in full force and effect.

6. The Restrictions contained in this Declaration shall be enforceable at law or in equity by Smurfit-Stone and its successors and assigns, the MPCA and any other person. This right shall include, without limitation, the right to recover damages, costs and expenses (including reasonable attorney's fees) for any losses, liabilities or claims arising from activities on the Property that violate the Restrictions.

7. This Declaration may not be amended or terminated except by an instrument executed by the owner(s) of the Property and by Smurfit-Stone, its successors and assigns.

IN WITNESS WHEREOF, this instrument has been executed on this 17th day of July, 2006.

Attest:_____
Assistant Secretary

SMURFIT-STONE CONTAINER ENTERPRISES, INC.

By:_____
Craig A. Hunt
Sr. Vice President

State of Illinois)
)
County of Cook)

Craig A. Hunt, Sr. Vice President for Smurfit-Stone Container Enterprises, Inc., a Delaware corporation, appeared before me this 17th day of July and signed the foregoing instrument on behalf of said Company.

Karen Hewitt
Notary Public

THIS INSTRUMENT WAS DRAFTED BY:

Timothy P. Davisson, Esq.
Stone Container Corporation
150 N. Michigan Avenue
Chicago, IL 60601

"OFFICIAL SEAL"
Karen Hewitt
Notary Public, State of Illinois
My Commission Exp. 06/30/2008

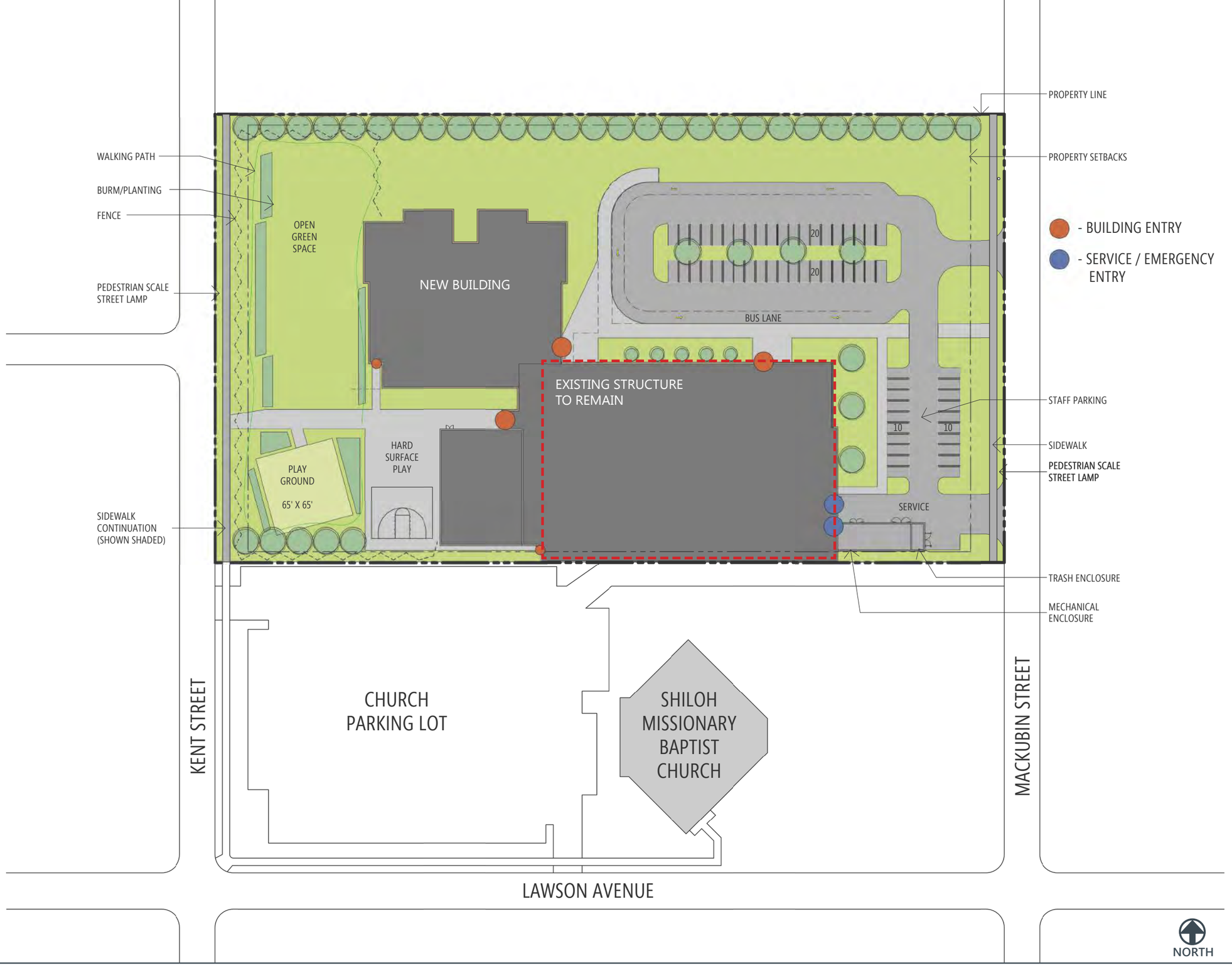
(S/Legal/RE/StPaulRestrictiveCovenant3-15-05)

APPENDIX G

REDEVELOPMENT PLANS

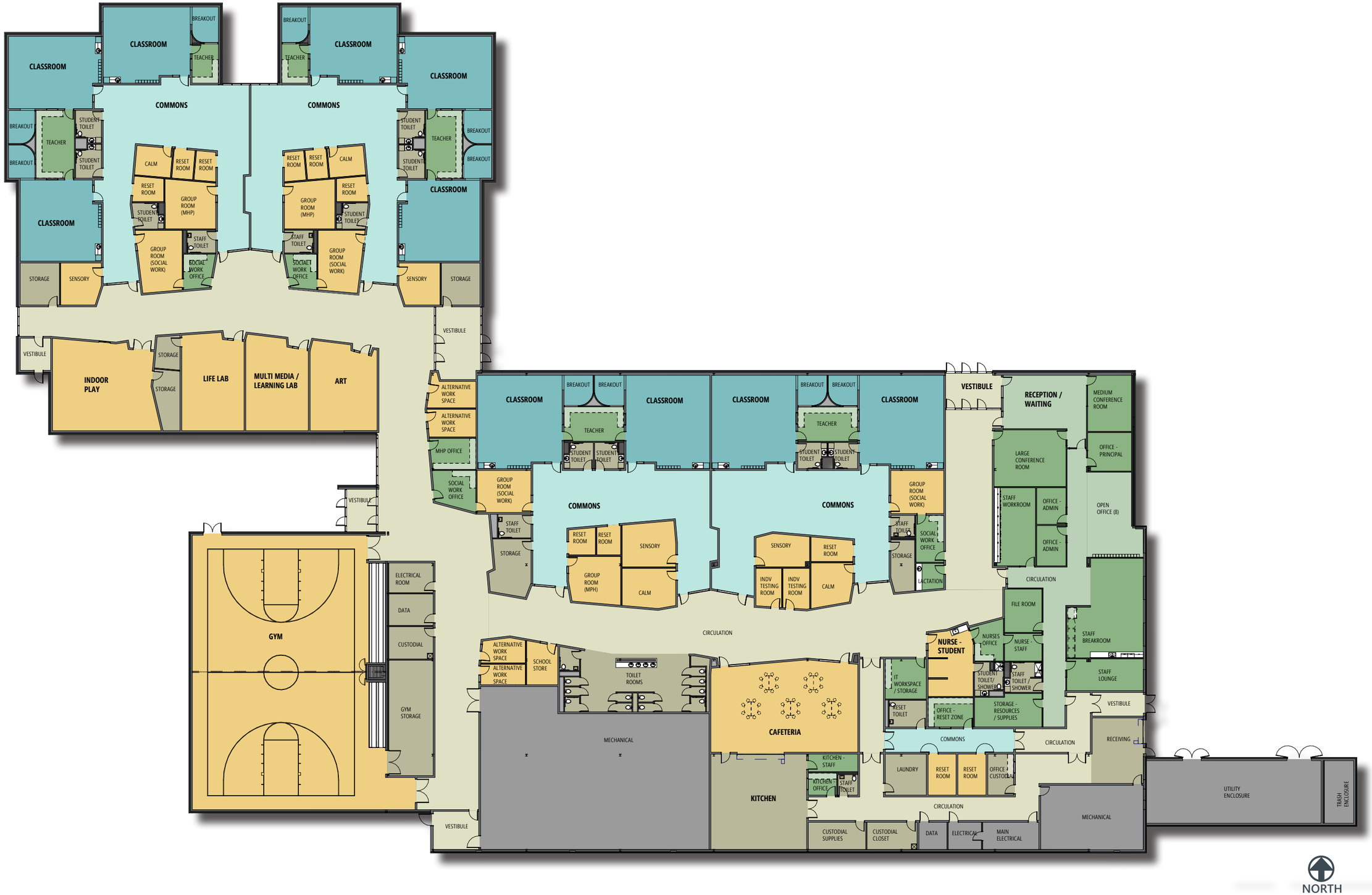
SITE PLANNING

SITE DIAGRAM



PLANNING

OVERALL PLAN



APPENDIX H

DEPRESSURIZATION SYSTEM FAN/BLOWER SPECIFICATIONS

Fantech

AUGUST 2007

FR SERIES
INLINE EXHAUST FANS

Fantech's versatile FR Series Inline Fans provide the ideal answer for a variety of air movement problems in residential and commercial applications. The fans feature a plastic housing constructed of UL-recognized, UV protected thermoplastic resin. This tough protective shell allows the fan to be mounted in outdoor and wet locations*. FR fans feature external rotor motors that have proven dependable year after year. Fan is fully caulked to prevent moisture from entering the housing.

Applications

FR fans can be used for multiple point exhaust applications, crawl space venting or make-up air supply. They are also widely used as booster fans to move air from one room or area to another.

ENERGY STAR

Look for the Energy Star Rated Models in Performance Data Chart on back page

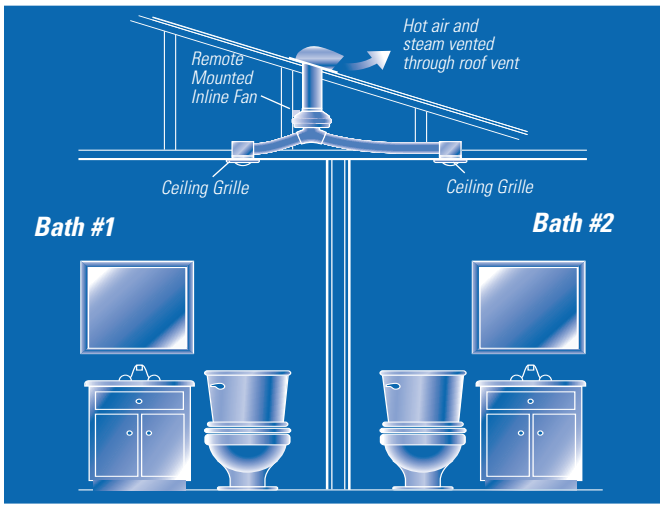
c UL us

C SP US

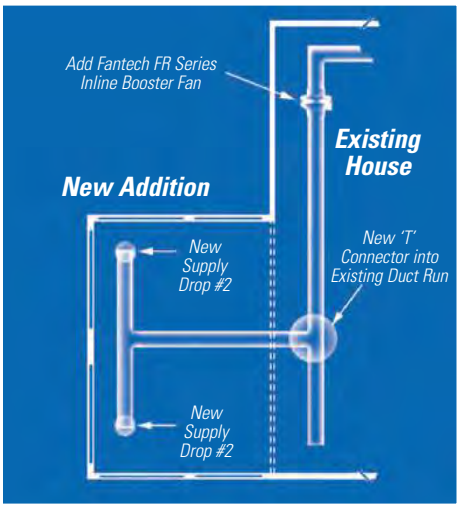
HVI CERTIFIED

FIVE YEAR WARRANTY

DUAL BATH APPLICATIONS - COMMERCIAL OR RESIDENTIAL

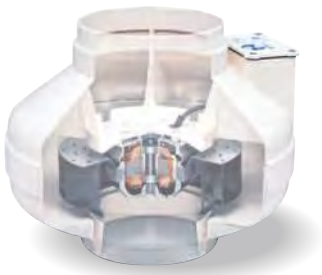


NEW ADDITION



EASY TO INSTALL.
LOADED WITH FEATURES:

- Prewired and supplied with a mounting bracket for easy installation
- UL Listed; CSA Certified
- Approved for residential and commercial applications and for wet locations
- Suitable for airstream temperatures up to 140° F
- Easy connection using external wiring box with waterproof gasket
- 122-649 CFM
- 4" to 10" duct diameters
- 100% speed controllable
- Five-year factory warranty



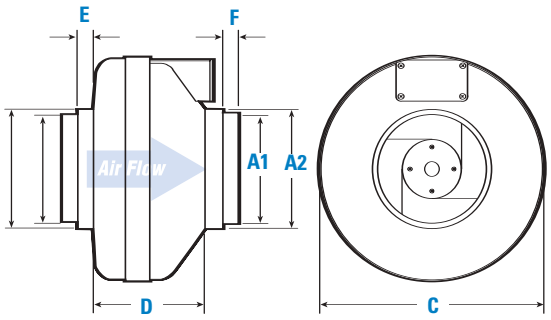
Fantech external rotor motor

** The FR Series is not manufactured to operate with water running through the motor compartment, or to be used in applications where the fan would be buried underground. A UL-recognized waterproof conduit should be used for all outdoor applications to prevent moisture entry via knockout in wiring box.*

FR SERIES

INLINE EXHAUST FANS

DIMENSIONAL DATA



Model	†A1	A2	C	D	E	F
FR 100	4	5	9½	6⅛	⅞	⅞
FR 110	4	5	9½	6⅛	⅞	⅞
FR 125	–	5	9½	6⅛	⅞	–
FR 140	6	6¼	11¾	5⅞	1	⅞
FR 150	6	6¼	11¾	5⅞	1	⅞
FR 160	6	6¼	11¾	5⅞	1	⅞
FR 200	8	10	13¼	6¼	1½	1½
FR 225	8	10	13¼	6¼	1½	1½
FR 250	–	10	13¼	6¼	1½	–

All dimensions in inches.
† Duct connections are ⅛" smaller than duct size.

FIVE YEAR WARRANTY

HVI CERTIFIED

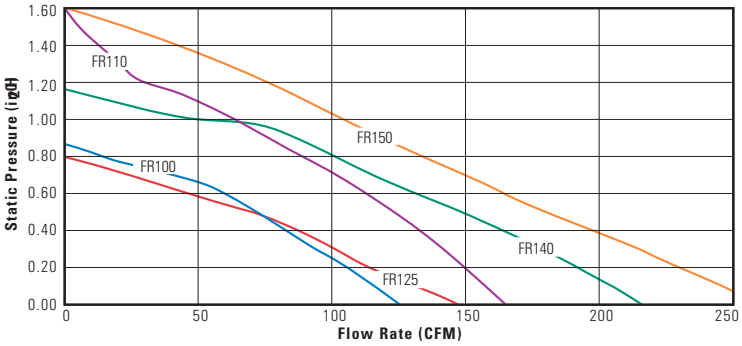
c UL us

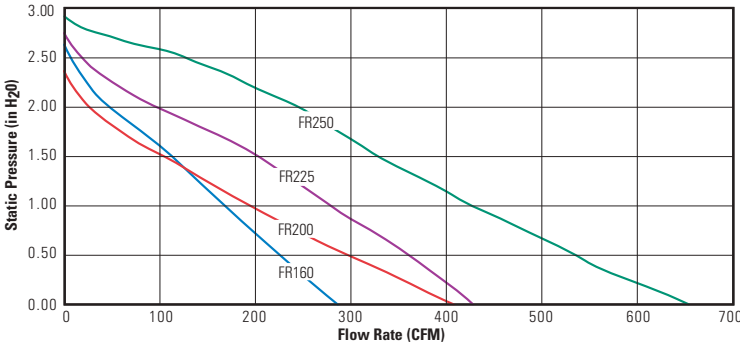
c SA us

ENERGY STAR

Look for the Energy Star Rated Models in Performance Data Chart.

AIR PERFORMANCE GRAPHS





PERFORMANCE DATA

Fan Model	Energy Star	RPM	Voltage	Rated Watts	Wattage Range	Max. Amps	Static Pressure in Inches W.G. 0"	.2"	.4"	.6"	.8"	1.0"	1.5"	Max. Ps	Duct Dia.
FR 100	✔	2900	115	19	13 – 19	0.18	122	100	78	55	15	—	—	0.87"	4"
FR 110	—	2900	115	80	62 – 80	0.72	167	150	133	113	88	63	4	1.60"	4"
FR 125	✔	2950	115	18	15 – 18	0.18	148	120	88	47	—	—	—	0.79"	5"
FR 140	✔	2850	115	61	47 – 62	0.53	214	190	162	132	99	46	—	1.15"	6"
FR 150	✔	2750	120	71	54 – 72	0.67	263	230	198	167	136	106	17	1.58"	6"
FR 160	—	2750	115	129	103 – 130	1.14	289	260	233	206	179	154	89	2.32"	6"
FR 200	✔	2750	115	122	106 – 128	1.11	408	360	308	259	213	173	72	2.14"	8"
FR 225	✔	3100	115	137	111 – 152	1.35	429	400	366	332	297	260	168	2.48"	8"
FR 250	—	2850	115	241	146 – 248	2.40	649	600	553	506	454	403	294	2.58"	10"

Performance shown is for installation type D - Ducted inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test.
Performance ratings do not include the effects of appurtenances in the airstream.

Fantech
United States 1712 Northgate Blvd. • Sarasota, FL. 34234 • 1.800.747.1762 • www.fantech.net
Canada 50 Kanalflakt Way • Bouctouche, NB E4S 3M5 • 1.800.565.3548 • www.fantech.ca

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