Phase II Environmental Investigation Report

145 Ganson Street (aka 127 Buffalo River and 189-191 Ganson Street)
Buffalo, New York

February 2019 B0465-018-001

Prepared For:

SpotOne, LLC

Prepared By:

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

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PHASE II ENVIRONMENTAL INVESTIGATION REPORT

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(AKA 127 BUFFALO RIVER AND 189-191 GANSON STREET)
BUFFALO, NEW YORK

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Prepared for:

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1.0 INTRODUCTION

1.1 Background and Site Description

Benchmark Environmental Engineering & Science, PLLC (Benchmark) performed a Phase II Environmental Investigation on behalf of SpotOne, LLC at 145 Ganson Street (aka 127 Buffalo River and 189-191 Ganson Street) in the City of Buffalo, Erie County, New York (Site).

The Site is located in a highly developed industrial area of the City of Buffalo (see Figure 1). The Site is supplied with municipal sanitary sewer, electric, natural-gas and public water.

As shown on Figure 2, two structures are present on the Site. Building 1 is a truck maintenance garage, truck washing station, and office. The original western portion of Building 2 is vacant and an addition to the east is a storage area for truck parts, empty drums, and old vehicles.

The Site, consisting of three parcels totaling approximately seven-acres, is defined in the table below:

Parcel Address	Size (acres)	Tax ID No.	Current Use
127 Buffalo River	2.2	122.13-4-2	Truck maintenance and office (Building 1)
189 Ganson Street	4.05	122.13-4-1.11	Parking lot
191 Ganson Street	0.75	122.09-2-4	Storage garage (Building 2)

As further detailed below, Benchmark completed a Phase I Environmental Site Assessment (ESA) for the Site.

1.2 Previous Study

Benchmark completed a Phase I ESA for the Site dated November 2018. The following provides a summary of historic Site uses identified through Benchmark's review of historic sources including Sanborn maps, city directories, regulatory documents and municipal records.

Approximate Years	Reported or Suspected Use	Owner/Occupant
At least 1889 through current	Current operations include truck maintenance, a truck washing station, office space and storage for truck parts, empty drums, and old vehicles. Historic operations included a mix of industrial, commercial, and residential uses. Sanborn maps indicate various structures and operations throughout these years including lumber sheds, iron ore yards, machine shops, tin shops, railroads, commercial buildings, and restaurants. Various railroad tracks also appeared on-Site. In addition, trucking, container, and transportation, and construction companies were on-Site. Previous studies indicate that Site was historically used as a storage yard and repair shop for Waste Management of New York's Downing Container Division garbage pickup, roll off and rental operations. Multiple residential structures were formerly present along Ganson Street. Municipal records and regulatory records indicate installation of at least 14 underground storage tanks (USTs) between 1949 and 1980, and removal of at least eight USTs between 1986 and 1988. The exact locations of several USTs were not identified in historical records. The number of tanks installed versus the number of tanks removed does not correspond which is not uncommon for a Site such as this. Various regulatory listings were identified for the Site including inactive/closed spill incidents, Resource Conservation and Recovery Act (RCRA), Petroleum Bulk Storage (PBS), etc.	Current owner: George W. Burnett Inc. Past owners/occupants include J. Lloyd, Earl Roberts, American Shipbuilding Co., Buffalo Dry Dock Co., Great Lakes Transit Corp., Earl Roberts, Waste Management/Downing Container Service Inc., N&K Cartage Co. Inc., Lake Erie Transportation Co. Inc., Roy Track Inc., and Carlson Truck Service.

Benchmark's assessment revealed the following RECs in connection with the Site:

- The long history of commercial and industrial operations (i.e., machine shops, tin shops, iron ore yards, railroads, shipbuilding companies, trucking companies with repair, and construction companies) with numerous USTs and various regulatory listings. In addition, the Site was historically used as a storage yard and repair shop for Waste Management of New York's Downing Container Division garbage pickup, roll off and rental operations.
- Concrete reportedly associated with former USTs/pump island areas were observed by Benchmark during the site visit as was black staining.

- The oil/water separator is considered a REC as the integrity of the oil/water separator is unknown.
- The unknown pipe identified protruding from the ground in the northeastern corner of Building 1 is considered a REC as the exact nature of the pipe is unknown and could not be verified by the Site contact.
- The numerous 55-gallon drums/barrels located in Building 2 are considered RECs as Benchmark could not verify the contents of the drums/barrels.
- It is possible that impacted fill material from unknown sources was brought to the property to use as backfill across the Site including a former boat slip area and former structure areas.

In consideration of the RECs detailed above, this Phase II was completed to further assess subsurface soil/fill and groundwater conditions at the Site.

2.0 SITE INVESTIGATION ACTIVITIES

2.1 Soil Boring Investigation

On January 24, 2019 and January 25, 2019, Benchmark's subcontractor, TREC Environmental, Inc. (TREC), mobilized a 6620DT Geoprobe direct-push drill rig equipped with a two-inch diameter, 48-inch long macro-core sampler to the Site to assess subsurface conditions on exterior portions of the Site. As shown on Figure 2, 21 soil borings designated as SB-1 through SB-21 were completed at the Site. The soil borings were advanced to depths ranging between 8 feet below ground surface (fbgs) and 16 fbgs.

The physical characteristics of all soil borings were classified using the ASTM D2488 Visual-Manual Procedure Description. Soil/fill from each soil boring was screened via headspace screening using a MiniRae 2000 Photoionization Detector (PID). Visual and/or olfactory observations, if any, were noted. All field observations, including lithology, depths, PID scan results, etc., at each investigation location are summarized on the soil boring logs included in Appendix A. Photographs taken during the work are included in Appendix B.

A total of twelve soil/fill samples were selected for laboratory analysis for Target Compound List (TCL) plus Commissioners Policy-51 (CP-51) volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) metals, and/or polychlorinated biphenyls (PCBs). The soil samples collected as part of the investigation were transported under chain-of custody command for analysis to TestAmerica Laboratories, Inc. (TestAmerica) in Amherst, New York. Samples were collected in laboratory provided sample jars and cooled to 4 C° prior to transport.

2.2 Groundwater Sampling

Four soil borings, SB-1W, SB-8W, and SB-13W, and SB20W, were converted into temporary one-inch diameter monitoring wells. The temporary wells were installed using one-inch diameter Schedule 40 PVC well screen and riser. Groundwater grab samples were collected from the temporary wells using a dedicated and disposable 0.5" polyethylene bailer subsequent to purging a minimum of three well volumes from each well. The temporary wells were manually decommissioned (pulled) following groundwater sampling activities. The resulting open annulus was backfilled with Site soils.

Additionally, two existing two-inch diameter monitoring wells previously installed by others (designated by Benchmark as MW-1 and MW-2) located in the central portion of the Site, were sampled by Benchmark utilizing a 1.5" polyethylene bailer. Existing monitoring wells on the northwest (MW-3) northeast (MW-4) portions of the Site could not be sampled as the wells are damaged.

Six groundwater samples were placed in pre-cleaned laboratory provided sample bottles, cooled to 4 °C in the field, and transported under chain-of-custody to TestAmerica for analysis of TCL plus CP-51 VOCs.

3.0 INVESTIGATION FINDINGS

3.1 Site Geology/Hydrogeology

The overburden geology observed during the soil boring investigation is generally described as non-native black fill materials at depths ranging between 2 fbgs and 10 fbgs overlying native soils consisting of sandy lean clay and/or fine sand to a depth of at least 16 fbgs (see the Soil Boring Logs provided in Appendix A). Fill materials encountered during this investigation consisted of gravel with sand and/or black granular material mixed with cinders, brick, concrete, and/or glass.

Groundwater was encountered during the drilling work at all soil boring investigation locations at depths ranging from near surface at 3 fbgs in the northernmost boring locations and between approximately 5 fbgs to 8 fbgs in the remainder of the Site. Groundwater levels measured in the two existing wells and four temporary wells prior to sampling ranged between 1.5 fbgs and 6.3 fbgs.

Groundwater flow is likely to the east or west toward the Buffalo River. Local groundwater flow, however, may be influenced by subsurface features, such as excavations, utilities, and localized fill-conditions.

3.2 Field Observations

Soil samples from the soil boring investigation were observed and scanned via headspace screening for volatile organics using a PID. A description of the field observations during the soil boring investigations are presented below:

Investigation Location ID	Environmental Concern Assessed	Highest PID reading (parts per million, ppm) and depth (fbgs)	Other Observations
SB-1	Former USTs and/or pump islands	0	Fill to 9 fbgs.
SB-2		72.2 ppm, 5.5-8 fbgs	Black staining, visible oily product within soil, petroleum-like odor, fill to 10 fbgs
SB-3		0	Fill to 5 fbgs.
SB-4		0	Fill to 4 fbgs.
SB-5		0	Fill to 2 fbgs.
SB-6		0	Fill to 5 fbgs.

Investigation Location ID	Environmental Concern Assessed	Highest PID reading (parts per million, ppm) and depth (fbgs)	Other Observations
SB-7	Former USTs and tin/pipe shop building	0	Fill to 4.5 fbgs.
SB-8	Former USTs and/or pump islands	45.7 ppm, 2-4 fbgs	Black staining, petroleum-like odors, sheen on water in sleeve, fill to 4 fbgs.
SB-9		0	Minimal return
SB-10		13.2 ppm, 4 fbgs	Black staining, petroleum-like odors, sheen on water in sleeve, fill to 5 fbgs.
SB-11		24.9 ppm, 8 fbgs	Black staining, petroleum-like odors, fill to 8 fbgs.
SB-12		0	Fill to 4 fbgs.
SB-13	Former roll-off storage area	0	Fill to 6 fbgs.
SB-14	Former boat dock/slip areas ang general site conditions	0	Fill to 6 fbgs.
SB-15		0	Fill to 5 fbgs.
SB-16	Delineation of field impacts noted at SB-2.	0	Fill to 5 fbgs.
SB-17		35.3 ppm, 5-7 fbgs	Black staining, petroleum-like odors, fill to 7.5 fbgs.
SB-18		0	Fill to 9 fbgs.
SB-19		0	Fill to 4 fbgs.
SB-20	Existing oil/water separator and pipe of unknown nature	0	Fill to 5.5 fbgs
SB-21	Former sheet metal shop building	0	Fill to 3 fbgs.

3.3 NYSDEC Spill Incident

Due to the field evidence of petroleum impacts (i.e., oily product) observed at SB-2 (127 Buffalo River parcel), as required by law, the New York State Department of Environmental Conservation (NYSDEC) was notified and Spill No. 1810799 was assigned to the 127 Buffalo River parcel. Ms. Francine Gallego of the Region 9 office is reportedly the NYSDEC Spill Engineer assigned to the spill incident.

3.4 Soil Analytical Results

Table 1 presents a summary of the laboratory analytical results. For comparative purposes, Table 1 includes CP-51 Soil Cleanup Levels (SCLs), 6NYCRR Part 375 Unrestricted Soil Cleanup Objectives (USCOs), Commercial SCOs (CSCOs), and Industrial SCOs (ISCOs). Appendix C contains a copy of the laboratory analytical data package.

PAHs were identified at concentrations exceeding CP-51 SCLs, USCOs, CSCOs and/or ISCOs in five soil/fill samples collected across the Site at SB-7, SB-8, SB-13, SB-14 and SB-21.

Metals were identified at concentrations exceeding USCOs, CSCOs and/or ISCOs in eight soil/fill samples collected across the Site at SB-7, SB-8, SB-10, SB-13, SB-14, SB-15, SB-20 and SB-21. CSCO and/or ISCO exceedances were identified at SB-7 (arsenic at 22 mg/kg), SB-8 (barium at 500 mg/kg and lead at 1,550 mg/kg), SB-13 (arsenic at 20.9 mg/kg), SB-14 (arsenic at 23.4 mg/kg), SB-15 (mercury at 12.6 mg/kg), SB-20 (arsenic at 20.3 mg/kg and lead at 1,030 mg/kg), and SB-21 (arsenic at 16.6 mg/kg).

PCBs were not identified at a concentration above laboratory detection limits in the soil/fill samples collected across the Site.

VOCs were either not detected at concentrations above laboratory detection limits or concentrations were below CP-51 SCLs and USCOs. In the case of SB-2 where field evidence of petroleum impact was identified, this suggests weathered petroleum.

A summary of impacts at the Site is provided as Figure 3.

3.5 Groundwater Analytical Results

Groundwater sample results are summarized on Table 3 with comparison to Class GA Groundwater Quality Standards (GWQS) per NYSDEC Technical and Operational Guidance Series (TOGS 1.1.1). A copy of the complete laboratory analytical data package is included in Appendix C.

As indicated on Table 3, VOC concentrations in all six groundwater samples collected across the Site were either not detected above laboratory detection limits or concentrations were significantly below their respective Class GA GWQS.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the Phase II Environmental Investigation at the Site, Benchmark offers the following conclusions and recommendations:

- The seven-acre Site has a long commercial and industrial history with operations including machine shops, tin shops, iron ore yards, railroads, storage yard and repair shop for a disposal facility, shipbuilding companies, trucking companies with repair/washing, and construction companies. In addition, numerous USTs and a boat slip that was backfilled with fill materials from unknown origins were identified in connection with the Site.
- Field evidence of petroleum impact (i.e., oily product, staining, odors and elevated PID readings) was noted in a former UST/pump island area at SB-2 and a proximate southern boring (SB-17) on the 127 Buffalo River parcel.
- Due to the field evidence of petroleum impacts, as required by law, the NYSDEC was notified and Spill No. 1810799 was assigned to the 127 Buffalo River parcel. Francine Gallego is reportedly the NYSDEC Spill Engineer assigned to the spill incident.
- The highest PID reading identified during the work (72.2 ppm) was noted at SB-2. Additional elevated PID readings were identified across the Site at SB-8 (45.7 ppm), SB-10 (13.2 ppm), SB-11 (24.9 ppm) and SB-17 (35.3 ppm) with odors noted. A sheen on water was noted at SB-8 and SB-10.
- Fill material mainly consisting of gravel with sand and/or black granular material mixed with cinders, brick, concrete, and/or glass was noted across the Site at depths ranging between 2 and 10 fbgs.
- Analytical results indicate the presence of fill materials impacted by PAHs and metals across the Site with concentrations exceeding 6NYCRR Part 375 USCOs, CSCOs and ISCOs. To a lesser extent, based on laboratory results and/or field observations, weathered petroleum impacts are present in a former tank/pump island area on the southern portion of the Site at SB-2 and SB-17 on the 127 Buffalo River Parcel. Field observations also indicate a sheen on groundwater on the northern portion of the Site (191 Ganson Street) at SB-8 and SB-10.
- VOC concentrations in groundwater samples were either not detected above laboratory detection limits or were at concentrations below GWQS.
- We understand the property is being considered for redevelopment. Based on the findings detailed above, the Site is a potential candidate for the New York Brownfield Cleanup Program (BCP). Regardless of whether the BCP is pursued, the NYSDEC will require that Spill No. 1810799 be properly addressed by the property owner. Further, impacted fill present on-Site will require exposure control, remediation and/or proper soil management either prior to or during the redevelopment project.

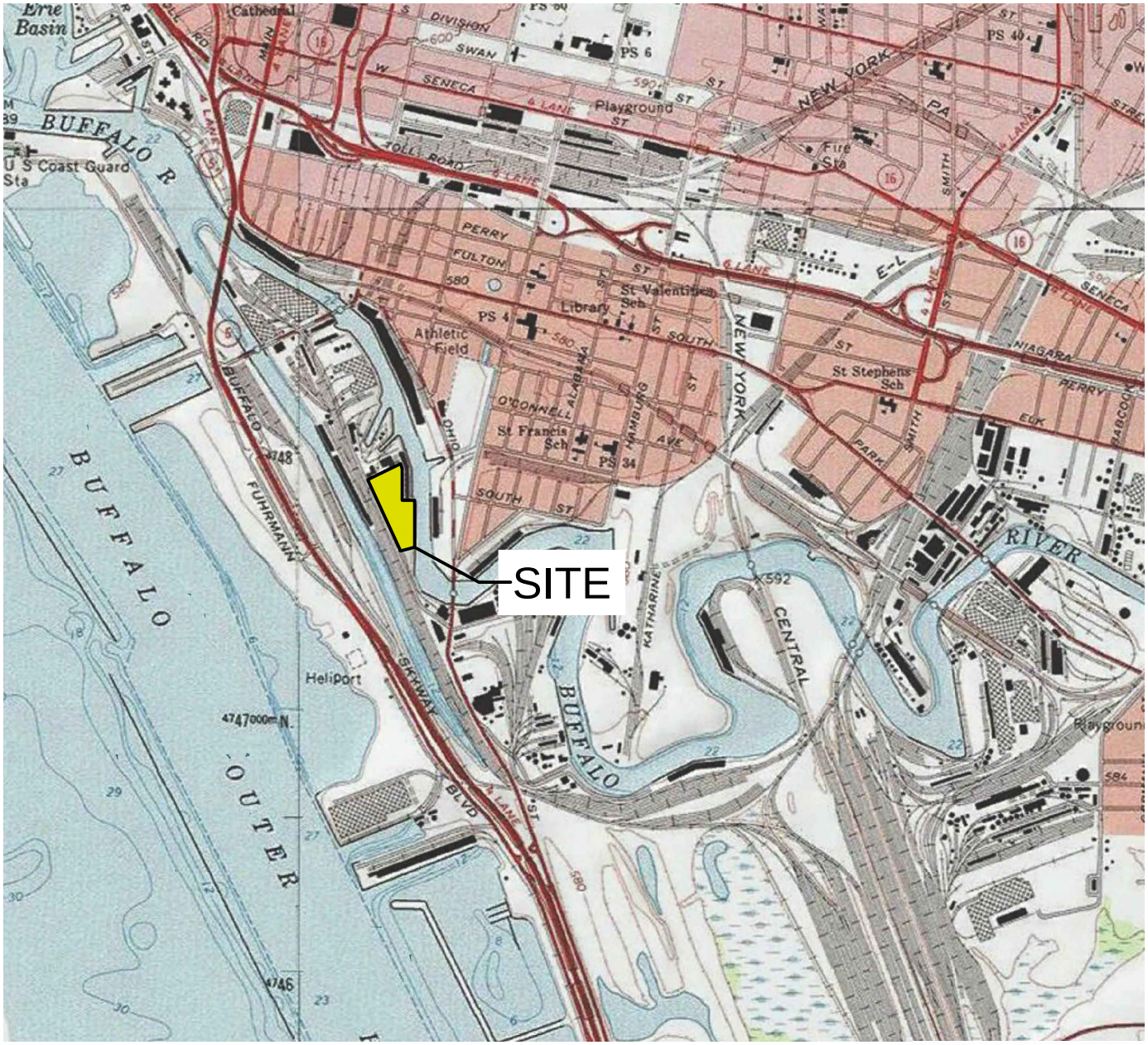
5.0 LIMITATIONS

This report has been prepared for the exclusive use of SpotOne, LLC. The contents of this report are limited to information available at the time of the Site investigation activities and to data referenced herein, and assume all referenced historic information sources to be true and accurate. The findings herein may be relied upon only at the discretion of SpotOne, LLC. Use of or reliance on this report or its findings by any other person or entity is prohibited without written permission of Benchmark Environmental Engineering & Science, PLLC.

FIGURES

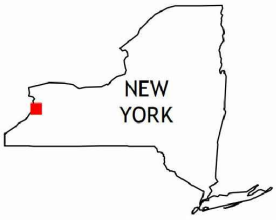
F:\CAD\Benchmark\SpotOne, LLC\Figure 1 - Site Location and Vicinity Map_PH2.dwg

FIGURE 1



2000' 0' 2000' 4000'

SCALE: 1 INCH = 2000 FEET
SCALE IN FEET
(approximate)



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DATE: FEBRUARY 2019

DRAFTED BY: CMS

SITE LOCATION AND VICINITY MAP

PHASE II ENVIRONMENTAL SITE INVESTIGATION

145 GANSON STREET
(AKA 127 BUFFALO RIVER AND 189-191 GANSON STREET)
BUFFALO, NEW YORK

PREPARED FOR

SPOTONE, LLC

F:\CAD\Benchmark\SpotOne, LLC\Figure 2 - Investigation Locations.dwg

DATE: FEBRUARY 2019
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LEGEND:

PROPERTY BOUNDARY

PARCEL BOUNDARY

SB-1 SOIL BORING

SB-2W SOIL BORING/ TEMPORARY MONITORING WELL

MW-1 EXISTING MONITORING WELL LOCATION (BY AFI, 1994)

NOTE: FORMER RAILROAD TRACKS SITEWIDE
FILL OBSERVED SITEWIDE

LOCATION OF FORMER GASOLINE PUMPS
MW-4 (DAMAGED)
SB-13W
SB-12
APPROXIMATE LOCATION OF FORMER PAINT SHOP
SB-11
SB-9
SB-10
SB-8W
LOCATION OF FORMER USTs
MW-3 (DAMAGED)
BUILDING 2
APPROXIMATE LOCATION OF FORMER TIN/PIPE SHOP
191 GANSON ST
SB-7
LOCATION OF FORMER USTs
SB-6
BUFFALO RIVER
SB-14
GANSON STREET
MW-1
189 GANSON ST
MW-2
APPROXIMATE LOCATION OF FORMER BOAT SLIP
SB-15
LOCATION OF FORMER GASOLINE TANK, PER 1925 AND 1951 SANBORNS
EXISTING 10,000-GAL. AST
SB-5
EXISTING OIL-WATER SEPARATOR
SB-4
SB-21
EXISTING PIPE OF UNKNOWN NATURE
SB-3
SB-20W
BUILDING 1
APPROXIMATE LOCATION OF FORMER SHEET METAL SHOP
SB-1
LOCATION OF FORMER USTs AND PUMP ISLAND
LOCATION OF FORMER USTs AND PUMP ISLAND
SB-16
SB-19
SB-17
SB-2W
SB-18
127 BUFFALO RIVER
APPROXIMATE LOCATION OF FORMER IRON ORE YARDS

N
100' 0' 100' 200'
SCALE: 1 INCH = 100 FEET
SCALE IN FEET
(approximate)

INVESTIGATION LOCATIONS

PHASE II ENVIRONMENTAL SITE INVESTIGATION

145 GANSON STREET
(AKA 127 BUFFALO RIVER AND 189-191 GANSON STREET)
BUFFALO, NEW YORK

PREPARED FOR
SPOTONE, LLC

FIGURE 2

BENCHMARK Environmental Engineering & Science, PLLC
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F:\CAD\Benchmark\SpotOne, LLC\Figure 3 - Areas of Concern.dwg

DATE: FEBRUARY 2019
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LEGEND:

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SB-1 SOIL BORING
- SB-2W SOIL BORING/ TEMPORARY MONITORING WELL
- MW-1 EXISTING MONITORING WELL LOCATION (BY AFI, 1994)
- PAHs EXCEEDING CSCOs AND/OR ISCOs
- METALS EXCEEDING CSCOs AND/OR ISCOs
- ELEVATED PID READINGS

NOTE: FORMER RAILROAD TRACKS SITEWIDE
FILL OBSERVED SITEWIDE

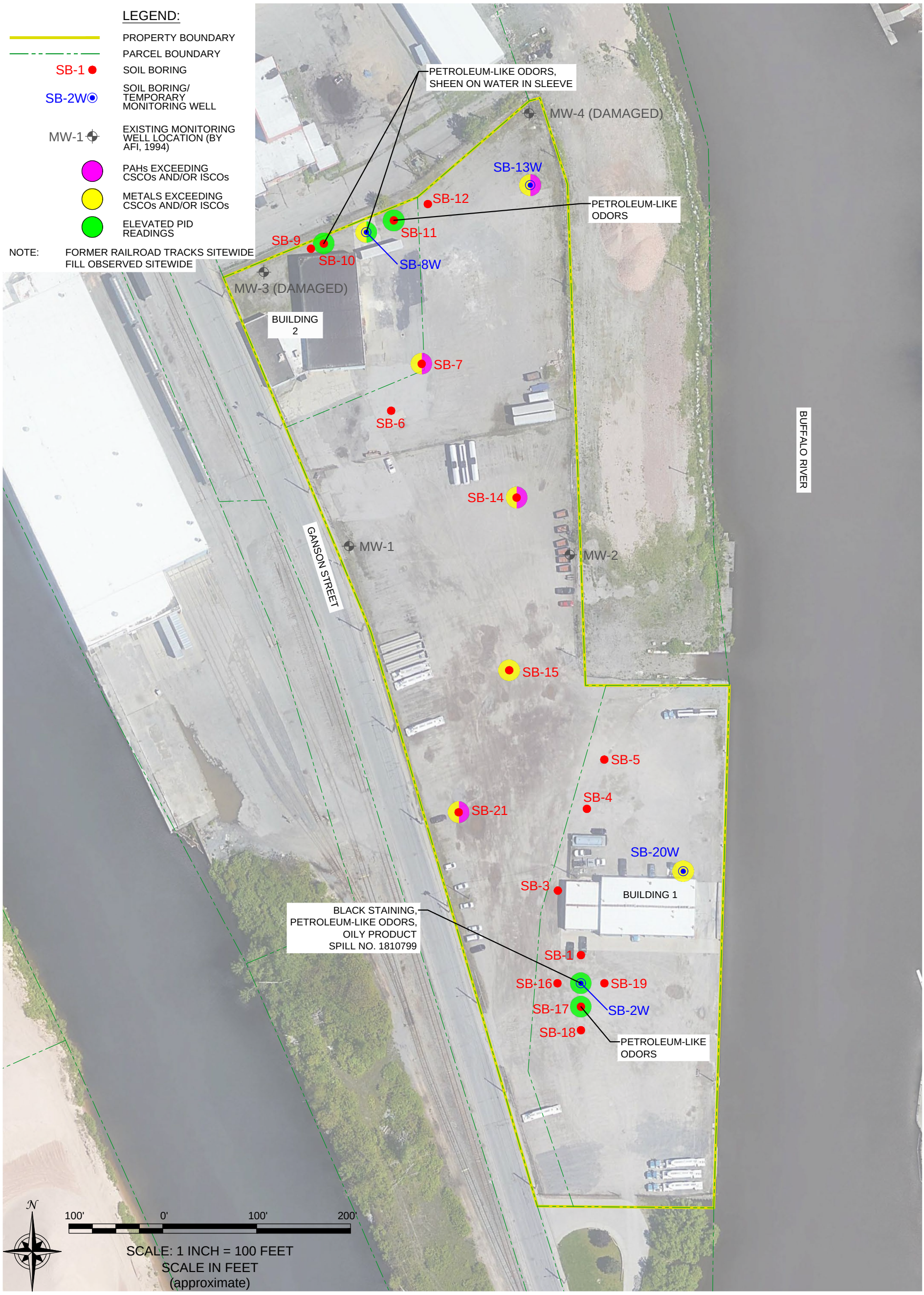

FIGURE 3

AREAS OF CONCERN

PHASE II ENVIRONMENTAL SITE INVESTIGATION

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TABLES

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF SUBSURFACE SOIL/FILL SAMPLE ANALYTICAL RESULTS
PHASE II ENVIRONMENTAL INVESTIGATION REPORT
145 GANSON STREET (AKA 127 BUFFALO RIVER AND 189-191 GANSON STREET)
BUFFALO, NEW YORK

PARAMETER[1]	CP-51 SCLs [2]	Unrestricted Use SCOs [3]	Commercial Use SCOs [3]	Industrial Use SCOs [3]	Sample Location (Depth - ft)												
					SB-2 (6-8)	SB-4 (2-4)	SB-7 (2.5-4.5)	SB-8 (2-4)	SB-10 (2.5-4.5)	SB-11 (6-8)	SB-13 (2-4)	SB-14 (2-4)	SB-15 (2-5)	SB-16 (3-5)	SB-17 (6-8)	SB-20 (3-6)	SB-21 (2-4)
					1/24/2019						1/25/2019						
Volatile Organic Compounds (VOCs) - mg/Kg [4]																	
1,2,4-Trimethylbenzene	**3.6**	**3.6**	**190**	**380**	ND	--	--	ND	ND	0.49	--	--	--	--	ND	--	--
2-Butanone (MEK)	**--**	**0.12**	**500**	**1000**	ND	--	--	0.009 J vs	0.0063 J vs	ND	--	--	--	--	ND	--	--
Acetone	**--**	**0.05**	**500**	**1000**	ND	--	--	0.049 vs	0.044 vs	ND	--	--	--	--	ND	--	--
Benzene	**0.06**	**0.06**	**44**	**89**	ND	--	--	0.0023 J vs	ND	ND	--	--	--	--	ND	--	--
Cyclohexane	**--**	**--**	**--**	**--**	ND	--	--	ND	ND	0.19	--	--	--	--	ND	--	--
Isopropylbenzene (Cumene)	**2.3**	**--**	**--**	**--**	ND	--	--	ND	ND	0.05 J	--	--	--	--	ND	--	--
Methyl acetate	**--**	**--**	**--**	**--**	0.14 J	--	--	ND	ND	ND	--	--	--	--	ND	--	--
Methylcyclohexane	**--**	**--**	**--**	**--**	ND	--	--	ND	ND	0.097 J	--	--	--	--	ND	--	--
Methylene chloride	**--**	**0.05**	**500**	**1000**	ND	--	--	0.0029 J vs B	ND	ND	--	--	--	--	ND	--	--
n-Butylbenzene	**12**	**12**	**500**	**1000**	ND	--	--	ND	ND	0.1 J	--	--	--	--	0.39 J	--	--
n-Propylbenzene	**3.9**	**3.9**	**500**	**1000**	ND	--	--	ND	ND	0.14	--	--	--	--	ND	--	--
sec-Butylbenzene	**11**	**11**	**500**	**1000**	ND	--	--	ND	ND	0.067 J	--	--	--	--	ND	--	--
Total Xylenes	**0.26**	**0.26**	**500**	**1000**	0.031 J	--	--	ND	ND	0.12 J	--	--	--	--	ND	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) - mg/Kg [4]																	
Acenaphthene	**20**	**20**	**500**	**1000**	0.42 J	ND	1.8	ND	ND	0.094 J	1.7	0.32 J	ND	ND	0.66	ND	5.2
Acenaphthylene	**100**	**100**	**500**	**1000**	ND	ND	0.23 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	3
Anthracene	**100**	**100**	**500**	**1000**	ND	ND	2.8	0.35 J	0.068 J	0.089 J	5.9	1 J	ND	ND	0.24	ND	14
Benzo(a)anthracene	**1**	**1**	**5.6**	**11**	ND	ND	**4.7**	1 J	0.21 J	0.21	**13**	**2.1**	ND	0.076 J	ND	0.2 J	**30**
Benzo(a)pyrene	**1**	**1**	**1**	**1.1**	ND	0.053 J	**4.4**	0.89 J	0.18 J	0.22	**12**	**1.8**	ND	0.082 J	ND	0.18 J	**31**
Benzo(b)fluoranthene	**1**	**1**	**5.6**	**11**	ND	0.07 J	**5.4**	**1.3**	0.32	0.3	**14**	**2.4**	0.22 J	0.14 J	ND	0.22 J	**35**
Benzo(ghi)perylene	**100**	**100**	**500**	**1000**	ND	0.075 J	3.1	0.86 J	0.19 J	0.23	8.5	1.4	0.26 J	0.15 J	ND	0.29 J	21
Benzo(k)fluoranthene	**0.8**	**0.8**	**56**	**110**	ND	0.027 J	**2.1**	0.54 J	ND	0.18 J	**5.2**	**1.1**	ND	0.053 J	ND	ND	**13**
Chrysene	**1**	**1**	**56**	**110**	ND	0.12 J	**5.1**	**1.2**	0.23	0.24	**12**	**2.1**	0.27 J	0.1 J	ND	0.23 J	**30**
Dibenzo(a,h)anthracene	**0.33**	**0.33**	**0.56**	**1.1**	ND	ND	ND	ND	ND	0.074 J	ND	ND	ND	ND	ND	ND	**6.7**
Fluoranthene	**100**	**100**	**500**	**1000**	ND	0.059 J	12	1.8	0.39	0.45	31	4.5	0.26 J	0.11 J	0.083 J	0.3 J	77
Fluorene	**30**	**30**	**500**	**1000**	0.69 J	ND	1.7	ND	ND	ND	1.5	0.39 J	ND	ND	1.4	ND	5.3
Indeno(1,2,3-cd)pyrene	**0.5**	**0.5**	**5.6**	**11**	ND	0.046 J	**2.6**	**0.71 J**	0.15 J	0.2 J	**7.6**	**1.2**	0.21 J	0.1 J	ND	0.18 J	**19**
Naphthalene	**12**	**12**	**500**	**1000**	ND	0.081 J	0.85	ND	0.041 J	ND	0.46 J	0.14 J	ND	ND	ND	ND	3.2
Phenanthrene	**100**	**100**	**500**	**1000**	1.3	0.21 J	13	1 J	0.26	0.33	25	3.7	0.32 J	0.12 J	3.3	0.46 J	58
Pyrene	**100**	**100**	**500**	**1000**	0.2 J	ND	10	1.6	0.34	0.4	24	3.7	0.22 J	0.11 J	0.4	0.32 J	68
Metals - mg/Kg																	
Arsenic	**--**	**13**	**16**	**16**	--	8.4	**22**	**13.3**	9.3	--	**20.9**	**23.4**	**14.3**	6.5	--	**20.3**	**16.6**
Barium	**--**	**350**	**400**	**10000**	--	25.7	209	**500**	169	--	124	84.1	331	91.8	--	118	197
Cadmium	**--**	**2.5**	**9.3**	**60**	--	0.2 J	0.65	0.69	0.65	--	0.79	ND	0.65	0.32	--	ND	0.53
Chromium	**--**	**30**	**1500**	**6800**	--	6.6	13.7	16.5	20.3	--	21	16.8	12.4	11.7	--	16.2	14.3
Lead	**--**	**63**	**1000**	**3900**	--	20.5 B	**275 B**	**1550 B**	**518 F2 B**	--	**125 B**	**304 B**	**438 B**	39 B	--	**1030 B**	**361 B**
Mercury	**--**	**0.18**	**2.8**	**5.7**	--	0.033	**0.27**	**1.1**	**0.34**	--	**0.23**	**0.61**	**12.6**	0.048	--	0.099	**0.75**
Selenium	**--**	**3.9**	**1500**	**6800**	--	ND	2.2 J	1.4 J	1.2 J	--	1.1 J	2.7 J	1.9 J	1.4 J	--	2.3 J	1.6 J
Silver	**--**	**2**	**1500**	**6800**	--	ND	0.3 J	ND	ND	--	ND	ND	ND	ND	--	ND	ND
Polychlorinated biphenyls (PCBs) - mg/Kg																	
Total PCBs	**0.1**	**0.1**	**1**	**25**	ND	ND	--	--	--	--	--	ND	ND	--	ND	--	--

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; other compounds were reported as non-detect.
2. Values per NYSDEC CP-51 Soil Cleanup Levels (SCLs) for gasoline impacted sites.
3. Values per NYSDEC Part 375 Soil Cleanup Objectives (SCOs).
4. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs.

Definitions:
ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter; Parameter not analyzed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
F2 = MS/MSD RPD exceeds control limits
B = Compound was found in the blank and sample.
vs = Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L.

Bold	= Result exceeds Unrestricted Use SCOs and/or CP-51 SCL.
Bold	= Result exceeds Commercial Use SCOs.
Bold	= Result exceeds Industrial use SCOs.

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TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PHASE II ENVIRONMENTAL INVESTIGATION REPORT
145 GANSON STREET (AKA 127 BUFFALO RIVER AND 189-191 GANSON STREET
BUFFALO, NEW YORK

PARAMETER[1]	GWQS[2]	Sample Location					
		SB-2W	SB-8W	SB-13W	SB-20W	MW-1	MW-2
		1/25/2019					
Volatile Organic Compounds (VOCs) - ug/L							
2-Butanone	**50**	ND	2.8 J	ND	ND	ND	ND
Acetone	**50**	ND	21	7 J	9.2 J	6.5 J	8.9 J
Benzene	**1**	ND	0.48 J	ND	ND	ND	ND
Methylene Chloride	**5**	ND	ND	ND	0.53 J	ND	0.57 J

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Division of Water Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - Class GA (TOGS 1.1.1)

Definitions:
ND = Parameter not detected above laboratory detection limit.
"--" = Sample not analyzed for parameter or no SCO available for the parameter.
J = Estimted Value - Below calibration range.
BOLD = Result exceeds GWQS.

APPENDIX A

SOIL BORING LOGS

Project No: B0465-018-001

Borehole Number: SB-1

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

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2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Fill - Gravel with Sand***					0.0		
					83%		0.0		
							0.0		
	-3.5 / 3.5	Black wood lens					0.0		
	-4.0 / 4.0	***Fill - Sandy Lean Clay*** Dark brown and grey, moist, mostly reworked medium plastic fines, some fine sand, no odor.					0.0		
5.0							0.0		
	-5.5 / 5.5	Sand lens					0.0		
	-6.0 / 6.0	Black wood lens			96%		0.0		
	-7.0 / 7.0	***Fill - Gravel*** Black gravel, with sandy lean clay, trace red brick, trace glass, no odor.					0.0		Water level
	-7.5 / 7.5	***Fill - Sandy Lean Clay*** As above, wet at 8 fbgs.					0.0		
	-9.0 / 9.0	***Native - Lean Clay*** Dark brown, wet, mostly medium plastic fines, trace fine sand, soft, medium density, no odor.					0.0		
10.0	-10.0 / 10.0	Black wood lens			83%		0.0		
							0.0		
	-12.0 / 12.0	End of Borehole					0.0		

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/24/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-2

Project: Phase II

A.K.A.: SB-2W

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

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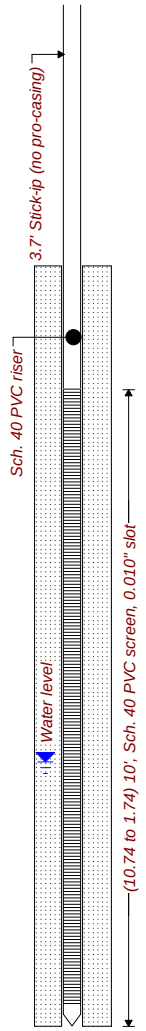
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 50 – 100)	Lab Sample	Well Completion Details or Remarks
-4.0									
	0.0	Ground Surface							
	0.0	***Fill - Crushed Gravel with Sand***					0.0		
	-0.5 / 0.5	***Fill - Poorly Graded Sand with Gravel*** Brown, moist, mostly fine sand, some angular gravel, no odor.					0.0		
1.0					71%				
	-2.5 / 2.5	***Fill - Poorly Graded Sand*** Light brown, moist, fine sand, wet at 7 fbgs.					0.0		
							0.0		
							0.0		
6.0	-6.0 / 6.0	Black staining, oily product, petroleum-like odors from 6-10 fbgs.			46%		72.2	Sample location	
							72.2		
							72.2		
							17.4		
	-10.0 / 10.0	***Native - Lean Clay*** Dark brown to grey, moist, mostly medium plastic fines, trace fine sand, medium density, medium toughness, no odor.			94%		6.8		
11.0							3.2		
	-12.0 / 12.0	End of Borehole					1.1		



Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/24/2019

Hole Size: 2"
Stick-up: 3.5'
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-3

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

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Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 50 / 100)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Fill - Gravel with Sand***					0.0		
	-1.5 / 1.5	***Fill - Well Graded Sand*** Brown, moist, no odor.					0.0		
	-2.0 / 2.0	***Fill - Sandy Lean Clay*** Reddish brown, moist, mostly reworked medium plastic fines, some fine sand, some angular gravel, medium density, medium toughness, no odor.			56%		0.0		
	-4.5 / 4.5	Wood lens					0.0		
5.0	-5.0 / 5.0	***Native - Sandy Lean Clay*** Brown to grey, moist, mostly medium plastic fines, some fines sand, medium density, medium toughness, no odor.			58%		0.0		
	-8.5 / 8.5	***Native - Poorly Graded Sand*** Brown, wet, mostly fine sand, some medium plastic fines, no odor.					0.0		Water level
10.0	-10.0 / 10.0	***Native - Lean Clay*** Dark brown, wet, mostly medium plastic fines, trace fine sand, medium density, medium toughness, no odor.			65%		0.0		
	-12.0 / 12.0	End of Borehole					0.0		

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/24/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-4

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

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Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Fill - Gravel with Sand***					0.0		
	-1.0 1.0	***Fill - Black Granular*** Black, mostly medium grained cinders, some medium grained sand, some concrete, some red brick, no odor.					0.0		
	-2.0 2.0	Broken concrete lens			67%		0.0		
	-2.5 2.5	Wood lens					0.0		
	-3.0 3.0	Brown sand lens					0.0	Sample location	
	-4.0 4.0	***Native - Lean Clay*** Brown to grey, moist, mostly medium plastic fines, trace fine sand, medium density, medium toughness, no odor.					0.0		
5.0							0.0		
					88%		0.0		
	-7.0 7.0	***Native - Sandy Lean Clay*** Brown, wet, mostly medium plastic fines, some fine sand, soft, medium density, no odor.					0.0		
							0.0		
10.0					81%		0.0		
	-11.0 11.0	***Native - Lean Clay*** Dark brown, wet, mostly medium plastic fines, trace fine sand, soft, medium density, no odor.					0.0		
	-12.0 12.0	End of Borehole					0.0		

Water level

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/24/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-5

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

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(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Fill - Gravel with Sand***					0.0		
	-0.5 / 0.5	***Fill - Poorly Graded Sand with Gravel*** Dark brown to light brown, moist, mostly fine sand, some angular gravel, no odor.					0.0		
	-1.0 / 1.0	***Fill - Black Granular*** Black, mostly medium grained cinders, some medium grained sand, some concrete, some red brick, no odor.					0.0		
	-2.0 / 2.0	***Native - Lean Clay*** Reddish brown to brown, moist, mostly medium plastic fines, trace fine sand, medium toughness, medium density, no odor.			60%		0.0		
5.0							0.0		Water level
	-5.5 / 5.5	***Native - Poorly Graded Sand with Clay*** Brown, wet, mostly fine sand, some medium plastic fines, no odor.			63%		0.0		
	-8.5 / 8.5	***Native - Lean Clay*** As above, wet.					0.0		
10.0					60%		0.0		
	-11.5 / 11.5	***Native - Poorly Graded Sand with Clay*** As above.					0.0		
	-12.0 / 12.0	End of Borehole							

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/24/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-6

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Fill - Gravel with Sand***					0.0		
	-2.0 / 2.0	Broken concrete lens			38%		0.0		
	-2.5 / 2.5	Brown sand lens					0.0		
	-3.0 / 3.0	Black gravel from 3-5 fbgs.					0.0		
5.0	-5.0 / 5.0	***Native - Poorly Graded Sand with Clay*** Brown, moist, mostly fine sand, some medium plastic fines, no odor.			38%		0.0		
							0.0		
							0.0		
	-8.0 / 8.0	***Native - Sandy Lean Clay*** Brown, wet, mostly medium plastic fines, some fine sand, medium density, medium toughness, no odor.					0.0		
							0.0		
10.0					67%		0.0		
							0.0		
	-12.0 / 12.0	End of Borehole					0.0		Water level

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/24/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-7

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0 / 0.0	Ground Surface							
		Fill - Gravel with Sand					0.0		
	-1.5 / 1.5	***Fill - Black Granular*** Black, mostly medium grained cinders, some medium grained sand, some concrete, some red brick, no odor.			65%		0.0		
							0.0	Sample location	
	-4.5 / 4.5	***Native - Poorly Graded Sand with Clay*** Brown, moist, mostly fine sand, some medium plastic fines, no odor.					0.0		
5.0							0.0		
	-6.0 / 6.0	***Native - Sandy Lean Clay*** Dark brown, moist to wet at 9 fbgs, mostly medium plastic fines, trace fine sand, medium toughness to soft, medium density, no odor.			54%		0.0		
							0.0		
							0.0		
							0.0		Water level
10.0					83%		0.0		
							0.0		
	-12.0 / 12.0	End of Borehole					0.0		

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/24/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-8

Project: Phase II

A.K.A.: SB-8W

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

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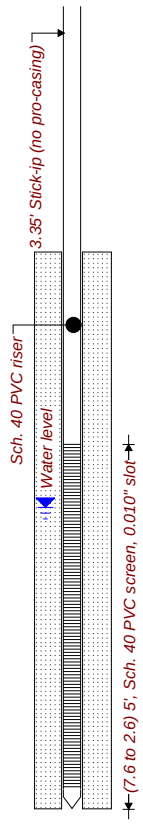
SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 50 – 100)	Lab Sample	Well Completion Details or Remarks
-3.0									
	0.0	Ground Surface							
	0.0	***Fill - Concrete***							
	-0.5 / 0.5	***Fill - Black Granular*** Black, mostly medium grained sand, some cinders, petroleum-like odor. Sheen on water in sleeve.			46%		4.7 45.7 45.7 45.7	Sample location	
2.0									
	-4.0 / 4.0	***Native - Lean Clay*** Reddish brown to dark brown, wet, mostly medium plastic fines, trace fine sands, medium density, medium toughness, no odor.			31%		5.3 0.0		
7.0							0.0 0.0 0.0		
	-8.0 / 8.0	***No Return*** Water in sleeve			0%		0.0 0.0 0.0		
12.0	-12.0 / 12.0	End of Borehole					0.0		



Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/24/2019

Hole Size: 2"
Stick-up: 3.35'
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-9

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0 / 0.0	Ground Surface							
		Fill - Gravel with Sand Black gravel, some fine sand, minimal return, no odor.			8%		0.0 / 0.0 / 0.0		Water level
	-4.0 / 4.0	***No Return*** Water in sleeve					0.0		
5.0					0%		0.0 / 0.0 / 0.0 / 0.0		
	-8.0 / 8.0	End of Borehole					0.0		

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/24/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-10

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Fill - Gravel with Sand***					0.0		
	-1.0 / 1.0	***Fill - Black Granular*** Black, moist to wet at 4.5 fbgs, mostly medium grained cinders, some medium grained sand, some concrete, some red brick, petroleum-like odor. Sheen on water in sleeve.			73%		0.0, 6.1, 13.2	Sample location	Water level
5.0	-5.0 / 5.0	***Native - Lean Clay*** Dark brown, wet, mostly medium plastic fines, trace fine sand, medium toughness, medium density, no odor.			44%		4.1, 2.7, 0.0, 0.0		
	-9.5 / 9.5	***Native - Sandy Lean Clay*** As above, some fine sand.			50%		0.0, 0.0, 0.0, 0.0		
10.0	-12.0 / 12.0	End of Borehole							

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/24/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-11

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

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2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
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SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs (ppm)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface					0 12.5 25		
	0.0	***Fill - Gravel with Sand***					0.0		
	-1.0 1.0	***Fill - Poorly Graded Sand*** Brown, moist, mostly fine sand, trace angular gravel, no odor.					0.0		
	-2.0 2.0	***Fill - Gravel*** Dark brown to grey, moist to wet at 3 fbgs, mostly subangular pea gravel, some fine sand, no odor.			44%		0.0		Water level
							0.0		
5.0							0.0		
	-5.5 5.5	***Fill - Poorly Graded Sand*** Black, wet, mostly fine sand, petroleum-like odors.			58%		2.4 16.2 24.9	Sample location	
	-8.0 8.0	***Native - Lean Clay*** Brown, wet, mostly medium plastic fines, trace fine sand, soft, medium density, no odor.					2.5		
10.0					0%		0.5		
							0.0		
							0.0		
					75%				
15.0									
	-16.0 16.0	End of Borehole							

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/24/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-12

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Fill - Gravel with Sand***					0.0		
	-2.0 / 2.0	***Fill - Sandy Lean Clay*** Dark brown, some black discoloration, moist, mostly reworked medium plastic fines, some fine sand, medium density, medium toughness, no odor.			65%		0.0		
							0.0		
	-4.0 / 4.0	***Native - Sandy Lean Clay*** Reddish brown to dark brown, moist, mostly medium plastic fines, some fine sand, medium density, medium toughness, no odor.					0.0		
5.0	-5.0 / 5.0	Brown sand lens			52%		0.0		
							0.0		
							0.0		
	-8.0 / 8.0	End of Borehole					0.0		

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/25/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-13

Project: Phase II

A.K.A.: SB-13W

Client: SpotOne, LLC

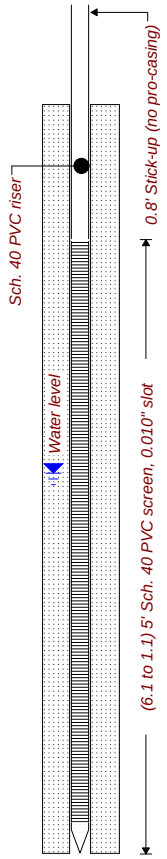
Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
-1.0									
	0.0	Ground Surface							
	0.0	***Fill - Gravel with Sand***					0.0		
	-1.0 1.0	***Fill - Broken Concrete***					0.0		
	-2.0 2.0	***Fill - Black Granular*** Black, moist to wet at 3 fbgs, mostly medium grained cinders, some medium grained sand, no odor.			71%		0.0	Sample location	
	-3.5 3.5	***Fill - Gravel*** Brown, wet, mostly sub-angular pea gravel, some fine sand, no odor.					0.0		
4.0							0.0		
	-6.0 6.0	***Native - Sandy Lean Clay*** Dark brown, wet, mostly medium plastic fines, some fine sand, medium density, medium toughness, no odor.			35%		0.0		
							0.0		
	-8.0 8.0	End of Borehole					0.0		



Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/25/2019

Hole Size: 2"
Stick-up: 0.8'
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-14

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Fill - Gravel with Sand***					0.0		
	-1.0 / 1.0	***Fill - Poorly Graded Sand*** Reddish brown, moist, mostly fine sand, no odor.					0.0		
	-2.0 / 2.0	***Fill - Black Granular*** Black, moist to wet at 4.5 fbgs,mostly medium grained cinders, some concrete, some red brick, some medium grained sand, no odor.			63%		0.0	Sample location	
5.0							0.0		Water level
	-6.0 / 6.0	***Native - Lean Clay*** Dark brown, wet, mostly medium plastic fines, trace fine sand, medium density, medium toughness, no odor.			25%		0.0		
	-8.0 / 8.0	End of Borehole					0.0		

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/25/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-15

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0 / 0.0	Ground Surface					0.0		
		Fill - Gravel with Sand					0.0		
	-2.0 / 2.0	***Fill - Black Granular*** Black,moist to wet at 4.5 fbgs, mostly medium grained cinders, some concrete, some red brick, some medium grained sand, no odor.			71%		0.0	Sample location	
5.0	-5.0 / 5.0	***Native - Lean Clay*** Dark brown, wet, mostly medium plastic fines, trace fine sand, medium density, medium toughness, no odor.			56%		0.0		
10.0					83%		0.0		
	-12.0 / 12.0	End of Borehole					0.0		

Water level

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/25/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-16

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0 / 0.0	Ground Surface							
		Fill - Gravel with Sand			75%		0.0, 0.0, 0.0		
	-3.0 / 3.0	***Fill - Black Granular*** Black, mostly medium grained cinders, some concrete, some red brick, some medium grained sand, no odor.					0.0	Sample location	
5.0	-5.0 / 5.0	***Native - Lean Clay*** Dark brown, wet, mostly medium plastic fines, trace fine sand, medium density, medium toughness, no odor.			75%		0.0, 0.0, 0.0		Water level
10.0					81%		0.0, 0.0, 0.0		
	-12.0 / 12.0	End of Borehole					0.0		

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/25/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-17

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0 / 0.0	Ground Surface							
		Fill - Gravel with Sand					0.0		
	-1.5 / 1.5	***Fill - Poorly Graded Sand*** Reddish brown to brown, moist to wet at 7 fbgs, mostly fine sand, trace medium plastic fines, petroleum-like odor.			67%		0.0		
							0.0		
							12.3		
5.0							35.3		
					46%		35.3	Sample location	
							35.3		Water level
	-7.5 / 7.5	***Native - Lean Clay*** Dark brown, wet, mostly medium plastic fines, trace fine sand, medium density, medium toughness, no odor.					5.5		
							0.0		
10.0					81%		0.0		
							0.0		
							0.0		
	-12.0 / 12.0	End of Borehole							

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/25/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-18

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Fill - Crushed Concrete***					0.0		
					67%		0.0		
	-3.0 / 3.0	***Fill - Black Granular*** Black, mostly medium grained cinders, some concrete, some red brick, some medium grained sand, no odor.					0.0		
	-4.5 / 4.5	***Fill - Lean Clay*** Dark brown, wet, mostly reworked medium plastic fines, trace fine sand, high density, medium toughness, no odor.					0.0		
5.0					92%		0.0		
							0.0		
							0.0		
	-9.0 / 9.0	***Native - Lean Clay*** Brown, wet, mostly medium plastic fines, trace fine sand, medium density, medium toughness, no odor.					0.0		
10.0					73%		0.0		
	-11.0 / 11.0	***Native - Poorly Graded Sand*** Dark brown, wet, mostly fine sand, trace medium plastic fines, no odor.					0.0		
	-12.0 / 12.0	End of Borehole							

Water level

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/25/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-19

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0 / 0.0	Ground Surface							
		Fill - Gravel with Sand			60%		0.0		
	-4.0 / 4.0	***Native - Sandy Lean Clay*** Dark brown, moist to wet at 8 fbgs, mostly medium plastic fines, some fine sand, medium density, medium toughness, no odor.			88%		0.0		Water level
10.0					88%		0.0		
	-12.0 / 12.0	End of Borehole					0.0		

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/25/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-20

Project: Phase II

A.K.A.: SB-20W

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
-4.0									
	0.0	Ground Surface							
	0.0	***Fill - Gravel with Sand***					0.0		
1.0	-1.5								
	1.5	***Fill - Black Granular*** Black, mostly medium grained cinders, some concrete, some red brick, some medium grained sand, no odor.			56%		0.0 0.0 0.0		
	-5.5						0.0	Sample location	
	5.5	***Native - Poorly Graded Sand*** Reddish brown, moist to wet at 6 fbgs, mostly fine sand, trace medium plastic fines, no odor.			50%		0.0 0.0 0.0		
6.0									
					17%		0.0 0.0 0.0		
11.0									
	-12.0								
	12.0	End of Borehole							

3.9' stick-up (no pro-casing)

Sch. 40 PVC riser

Water level

(1.13 to 11.13) 10' Sch. 40 PVC screen, 0.010" slot

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/25/2019

Hole Size: 2"
Stick-up: 3.9'
Datum:

Sheet: 1 of 1

Project No: B0465-018-001

Borehole Number: SB-21

Project: Phase II

A.K.A.:

Client: SpotOne, LLC

Logged By: CMS

Site Location: 145 Ganson St (127 Buff Riv & 189-191 Ganson St)

Checked By: BWM

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Fill - Gravel with Sand***					0.0		
	-0.5 / 0.5	***Fill - Black Granular*** Black, mostly medium grained cinders, some concrete, some red brick, some medium grained sand, no odor.			73%		0.0	Sample location	
							0.0		
							0.0		
	-4.0 / 4.0	***Native - Sandy Lean Clay*** Brown, moist to wet at 4.5 fbgs, mostly medium plastic fines, some fine sand, medium density, medium toughness, no odor.					0.0		Water level
5.0					75%		0.0		
							0.0		
							0.0		
							0.0		
					75%		0.0		
10.0							0.0		
							0.0		
	-12.0 / 12.0	End of Borehole					0.0		

Drilled By: Trec Environmental
Drill Rig Type: 6620DT
Drill Method: Direct push
Comments:
Drill Date(s): 1/25/2019

Hole Size: 2"
Stick-up:
Datum:

Sheet: 1 of 1

APPENDIX B

PHOTO LOG

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Photo 1: View of the location of SB-2 – facing north

Photo 2: View black staining and oily product encountered at SB-2.

Photo 3: View of the location of SB-7 – facing west

Photo 4: View of black granular fill material encountered at SB-7.

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5: View of the location of SB-8 – facing west

Photo 6: View of black granular fill material encountered at SB-8.

Photo 7: View of the location of SB-13 – facing north

Photo 8: View of black granular fill material encountered at SB-13.

SITE PHOTOGRAPHS

Photo 9:

Photo 10:

Photo 11:

Photo 12:

Photo 9: View of the location of SB-14 – facing north

Photo 10: View of black granular fill material encountered at SB-14.

Photo 11: View of the location of SB-20 – facing north

Photo 12: View of fill material encountered at SB-20.

APPENDIX C

LABORATORY ANALYTICAL DATA SUMMARY PACKAGE

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-148426-1
Client Project/Site: Benchmark - 145 Ganson St.

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Bryan Mayback

Authorized for release by:
2/7/2019 12:02:14 PM

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.
B	Compound was found in the blank and sample.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-148426-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-148426-1

Comments
No additional comments.

Receipt
The samples were received on 1/29/2019 11:52 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-457158 recovered above the upper control limit for Carbon tetrachloride and Chloromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SB-2 (6-8) (480-148426-1), SB-11 (6-8) (480-148426-6) and SB-17 (6-8) (480-148426-11).

Method(s) 8260C: The laboratory control sample (LCS) for preparation batch 480-457155 and analytical batch 480-457158 recovered outside control limits for the following analyte: Bromoform. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: SB-2 (6-8) (480-148426-1), SB-11 (6-8) (480-148426-6) and SB-17 (6-8) (480-148426-11).

Method(s) 8260C: The following samples were analyzed using medium level soil analysis and diluted due to the nature of the sample matrix: SB-17 (6-8) (480-148426-11), (480-148426-B-11-B MS) and (480-148426-B-11-C MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were analyzed using medium level soil analysis due to the nature of the sample matrix: SB-2 (6-8) (480-148426-1) and SB-11 (6-8) (480-148426-6). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method(s) 8270D: The following samples were diluted due to color and appearance: SB-2 (6-8) (480-148426-1), SB-7 (2.5-4.5) (480-148426-3), SB-8 (2-4) (480-148426-4), SB-13 (2-4) (480-148426-7), SB-14 (2-4) (480-148426-8), SB-15 (2-5) (480-148426-9), SB-20 (3-6) (480-148426-12) and SB-21 (2-4) (480-148426-13). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The following sample was diluted due to the abundance of target analytes: SB-21 (2-4) (480-148426-13). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: SB-21 (2-4) (480-148426-13). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC Semi VOA
Method(s) 8082A: The continuing calibration verification (CCV) associated with batch 480-457195 recovered above the upper control limit for PCB-1248. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SB-2 (6-8) (480-148426-1), SB-4 (2-4) (480-148426-2), SB-14 (2-4) (480-148426-8), SB-15 (2-5) (480-148426-9) and SB-17 (6-8) (480-148426-11).

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

Metals
Method(s) 6010C: The serial dilution (480-148426-B-5-B SD ^5) associated with batch 480-457502, exhibited a result outside the quality control limits for Total Chromium. However, the post digestion spike (PDS) was compliant, therefore no corrective action was necessary.

Job ID: 480-148426-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) 6010C: The recovery of post spike, (480-148426-B-5-B PDS), associated with batch 480-457502, exhibited a result outside quality control limits for Total Barium. However, the serial dilution (SD) of this sample was compliant, therefore no corrective action was necessary.

Method(s) 6010C: The following samples were diluted due to the presence of Total Iron which interferes with Silver, Cadmium, and Lead: SB-14 (2-4) (480-148426-8) and SB-20 (3-6) (480-148426-12). 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.

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-2 (6-8) — Lab Sample ID: 480-148426-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl acetate	140	J	650	62	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	31	J	130	17	ug/Kg	1	☼	8260C	Total/NA
Acenaphthene	420	J	1000	150	ug/Kg	5	☼	8270D	Total/NA
Fluorene	690	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Pyrene	200	J	1000	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	1300		1000	150	ug/Kg	5	☼	8270D	Total/NA

Client Sample ID: SB-4 (2-4) — Lab Sample ID: 480-148426-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	53	J	190	28	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	70	J	190	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	75	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	27	J	190	25	ug/Kg	1	☼	8270D	Total/NA
Chrysene	120	J	190	42	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	59	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	46	J	190	23	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	81	J	190	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	210		190	28	ug/Kg	1	☼	8270D	Total/NA
Arsenic	8.4		2.3	0.47	mg/Kg	1	☼	6010C	Total/NA
Barium	25.7		0.59	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.20	J	0.23	0.035	mg/Kg	1	☼	6010C	Total/NA
Chromium	6.6		0.59	0.23	mg/Kg	1	☼	6010C	Total/NA
Lead	20.5	B	1.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.033		0.021	0.0086	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-7 (2.5-4.5) — Lab Sample ID: 480-148426-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1800		1000	150	ug/Kg	5	☼	8270D	Total/NA
Acenaphthylene	230	J	1000	140	ug/Kg	5	☼	8270D	Total/NA
Anthracene	2800		1000	260	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	4700		1000	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	4400		1000	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	5400		1000	170	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	3100		1000	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	2100		1000	140	ug/Kg	5	☼	8270D	Total/NA
Chrysene	5100		1000	230	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	12000		1000	110	ug/Kg	5	☼	8270D	Total/NA
Fluorene	1700		1000	120	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2600		1000	130	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	850	J	1000	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	10000		1000	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	13000		1000	150	ug/Kg	5	☼	8270D	Total/NA
Arsenic	22.0		2.6	0.52	mg/Kg	1	☼	6010C	Total/NA
Barium	209		0.64	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.65		0.26	0.039	mg/Kg	1	☼	6010C	Total/NA
Chromium	13.7		0.64	0.26	mg/Kg	1	☼	6010C	Total/NA
Lead	275	B	1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.2	J	5.2	0.52	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-7 (2.5-4.5) (Continued)

Lab Sample ID: 480-148426-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.30	J	0.77	0.26	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.27		0.026	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-8 (2-4)

Lab Sample ID: 480-148426-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	49	vs	32	5.4	ug/Kg	1	☼	8260C	Total/NA
Benzene	2.3	J vs	6.4	0.31	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	9.0	J vs	32	2.3	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.9	J vs B	6.4	2.9	ug/Kg	1	☼	8260C	Total/NA
Anthracene	350	J	1100	270	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	1000	J	1100	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	890	J	1100	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	1300		1100	170	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	860	J	1100	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	540	J	1100	140	ug/Kg	5	☼	8270D	Total/NA
Chrysene	1200		1100	240	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	1800		1100	110	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	710	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
Pyrene	1600		1100	130	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	1000	J	1100	160	ug/Kg	5	☼	8270D	Total/NA
Arsenic	13.3		2.6	0.52	mg/Kg	1	☼	6010C	Total/NA
Barium	500		0.65	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.69		0.26	0.039	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.5		0.65	0.26	mg/Kg	1	☼	6010C	Total/NA
Lead	1550	B	1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.4	J	5.2	0.52	mg/Kg	1	☼	6010C	Total/NA
Mercury	1.1		0.026	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-10 (2.5-4.5)

Lab Sample ID: 480-148426-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	44	vs	31	5.3	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	6.3	J vs	31	2.3	ug/Kg	1	☼	8260C	Total/NA
Anthracene	68	J	220	54	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	210	J	220	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	180	J	220	32	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	320		220	35	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	190	J	220	23	ug/Kg	1	☼	8270D	Total/NA
Chrysene	230		220	49	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	390		220	23	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	150	J	220	27	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	41	J	220	28	ug/Kg	1	☼	8270D	Total/NA
Pyrene	340		220	26	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	260		220	32	ug/Kg	1	☼	8270D	Total/NA
Arsenic	9.3		2.5	0.50	mg/Kg	1	☼	6010C	Total/NA
Barium	169		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.65		0.25	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	20.3		0.63	0.25	mg/Kg	1	☼	6010C	Total/NA
Lead	518	F2 B	1.3	0.30	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-10 (2.5-4.5) (Continued) — Lab Sample ID: 480-148426-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	1.2	J	5.0	0.50	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.34		0.026	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-11 (6-8) — Lab Sample ID: 480-148426-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	490		130	35	ug/Kg	1	☼	8260C	Total/NA
Cyclohexane	190		130	28	ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	50	J	130	19	ug/Kg	1	☼	8260C	Total/NA
Methylcyclohexane	97	J	130	59	ug/Kg	1	☼	8260C	Total/NA
m,p-Xylene	74	J	250	70	ug/Kg	1	☼	8260C	Total/NA
n-Butylbenzene	100	J	130	37	ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	140		130	33	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	41	J	130	17	ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene	67	J	130	47	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	120	J	250	70	ug/Kg	1	☼	8260C	Total/NA
Acenaphthene	94	J	200	29	ug/Kg	1	☼	8270D	Total/NA
Anthracene	89	J	200	49	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	210		200	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	220		200	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	300		200	31	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	230		200	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	180	J	200	26	ug/Kg	1	☼	8270D	Total/NA
Chrysene	240		200	44	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	74	J	200	35	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	450		200	21	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	200		200	24	ug/Kg	1	☼	8270D	Total/NA
Pyrene	400		200	23	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	330		200	29	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: SB-13 (2-4) — Lab Sample ID: 480-148426-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1700		980	140	ug/Kg	5	☼	8270D	Total/NA
Anthracene	5900		980	240	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	13000		980	98	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	12000		980	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	14000		980	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8500		980	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	5200		980	130	ug/Kg	5	☼	8270D	Total/NA
Chrysene	12000		980	220	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	31000		980	100	ug/Kg	5	☼	8270D	Total/NA
Fluorene	1500		980	110	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	7600		980	120	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	460	J	980	130	ug/Kg	5	☼	8270D	Total/NA
Pyrene	24000		980	110	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	25000		980	140	ug/Kg	5	☼	8270D	Total/NA
Arsenic	20.9		2.3	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	124		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.79		0.23	0.034	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-13 (2-4) (Continued) — Lab Sample ID: 480-148426-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	21.0		0.56	0.23	mg/Kg	1	☼	6010C	Total/NA
Lead	125	B	1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.1	J	4.5	0.45	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.23		0.022	0.0091	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-14 (2-4) — Lab Sample ID: 480-148426-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	320	J	1100	160	ug/Kg	5	☼	8270D	Total/NA
Anthracene	1000	J	1100	270	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	2100		1100	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	1800		1100	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	2400		1100	170	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1400		1100	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	1100		1100	140	ug/Kg	5	☼	8270D	Total/NA
Chrysene	2100		1100	240	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	4500		1100	110	ug/Kg	5	☼	8270D	Total/NA
Fluorene	390	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1200		1100	130	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	140	J	1100	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	3700		1100	130	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	3700		1100	160	ug/Kg	5	☼	8270D	Total/NA
Arsenic	23.4		2.7	0.54	mg/Kg	1	☼	6010C	Total/NA
Barium	84.1		0.67	0.15	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.8		0.67	0.27	mg/Kg	1	☼	6010C	Total/NA
Lead	304	B	6.7	1.6	mg/Kg	5	☼	6010C	Total/NA
Selenium	2.7	J	5.4	0.54	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.61		0.025	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-15 (2-5) — Lab Sample ID: 480-148426-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	220	J	1100	180	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	260	J	1100	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	270	J	1100	250	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	260	J	1100	120	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	210	J	1100	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	220	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	320	J	1100	170	ug/Kg	5	☼	8270D	Total/NA
Arsenic	14.3		2.6	0.52	mg/Kg	1	☼	6010C	Total/NA
Barium	331		0.65	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.65		0.26	0.039	mg/Kg	1	☼	6010C	Total/NA
Chromium	12.4		0.65	0.26	mg/Kg	1	☼	6010C	Total/NA
Lead	438	B	1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.9	J	5.2	0.52	mg/Kg	1	☼	6010C	Total/NA
Mercury	12.6		0.26	0.10	mg/Kg	10	☼	7471B	Total/NA

Client Sample ID: SB-16 (3-5) — Lab Sample ID: 480-148426-10

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-16 (3-5) (Continued)

Lab Sample ID: 480-148426-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	76	J	180	18	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	82	J	180	27	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	140	J	180	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	150	J	180	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	53	J	180	23	ug/Kg	1	☼	8270D	Total/NA
Chrysene	100	J	180	41	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	110	J	180	19	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	100	J	180	22	ug/Kg	1	☼	8270D	Total/NA
Pyrene	110	J	180	21	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	120	J	180	27	ug/Kg	1	☼	8270D	Total/NA
Arsenic	6.5		2.2	0.44	mg/Kg	1	☼	6010C	Total/NA
Barium	91.8		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.32		0.22	0.033	mg/Kg	1	☼	6010C	Total/NA
Chromium	11.7		0.56	0.22	mg/Kg	1	☼	6010C	Total/NA
Lead	39.0	B	1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.4	J	4.4	0.44	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.048		0.020	0.0080	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-17 (6-8)

Lab Sample ID: 480-148426-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butylbenzene	390	J	1100	320	ug/Kg	8	☼	8260C	Total/NA
Acenaphthene	660		210	31	ug/Kg	1	☼	8270D	Total/NA
Anthracene	240		210	52	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	83	J	210	22	ug/Kg	1	☼	8270D	Total/NA
Fluorene	1400		210	25	ug/Kg	1	☼	8270D	Total/NA
Pyrene	400		210	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	3300		210	31	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: SB-20 (3-6)

Lab Sample ID: 480-148426-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	200	J	960	96	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	180	J	960	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	220	J	960	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	290	J	960	100	ug/Kg	5	☼	8270D	Total/NA
Chrysene	230	J	960	210	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	300	J	960	100	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	180	J	960	120	ug/Kg	5	☼	8270D	Total/NA
Pyrene	320	J	960	110	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	460	J	960	140	ug/Kg	5	☼	8270D	Total/NA
Arsenic	20.3		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	118		0.59	0.13	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.2		0.59	0.24	mg/Kg	1	☼	6010C	Total/NA
Lead	1030	B	5.9	1.4	mg/Kg	5	☼	6010C	Total/NA
Selenium	2.3	J	4.8	0.48	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.099		0.021	0.0086	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-21 (2-4)

Lab Sample ID: 480-148426-13

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-21 (2-4) (Continued)

Lab Sample ID: 480-148426-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	5200		980	140	ug/Kg	5	☼	8270D	Total/NA
Acenaphthylene	3000		980	130	ug/Kg	5	☼	8270D	Total/NA
Anthracene	14000		980	240	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	30000		980	98	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	31000		980	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	21000		980	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	13000		980	130	ug/Kg	5	☼	8270D	Total/NA
Chrysene	30000		980	220	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	6700		980	170	ug/Kg	5	☼	8270D	Total/NA
Fluorene	5300		980	120	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	19000		980	120	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	3200		980	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	35000		9800	1600	ug/Kg	50	☼	8270D	Total/NA
Fluoranthene - DL	77000		9800	1000	ug/Kg	50	☼	8270D	Total/NA
Pyrene - DL	68000		9800	1200	ug/Kg	50	☼	8270D	Total/NA
Phenanthrene - DL	58000		9800	1400	ug/Kg	50	☼	8270D	Total/NA
Arsenic	16.6		2.4	0.47	mg/Kg	1	☼	6010C	Total/NA
Barium	197		0.59	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.53		0.24	0.035	mg/Kg	1	☼	6010C	Total/NA
Chromium	14.3		0.59	0.24	mg/Kg	1	☼	6010C	Total/NA
Lead	361	B	1.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.6	J	4.7	0.47	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.75		0.022	0.0088	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-2 (6-8)
Date Collected: 01/24/19 09:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-1
Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		130	36	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
1,1,2,2-Tetrachloroethane	ND		130	21	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		130	65	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
1,1,2-Trichloroethane	ND		130	27	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
1,1-Dichloroethane	ND		130	40	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
1,1-Dichloroethene	ND		130	45	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
1,2,4-Trichlorobenzene	ND		130	49	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
1,2,4-Trimethylbenzene	ND		130	36	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
1,2-Dibromo-3-Chloropropane	ND		130	65	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
1,2-Dichlorobenzene	ND		130	33	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
1,2-Dichloroethane	ND		130	53	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
1,2-Dichloropropane	ND		130	21	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
1,3,5-Trimethylbenzene	ND		130	39	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
1,3-Dichlorobenzene	ND		130	35	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
1,4-Dichlorobenzene	ND		130	18	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
2-Butanone (MEK)	ND		650	390	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
2-Hexanone	ND		650	270	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
4-Isopropyltoluene	ND		130	44	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
4-Methyl-2-pentanone (MIBK)	ND		650	42	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Acetone	ND		650	540	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Benzene	ND		130	25	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Bromoform	ND	*	130	65	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Bromomethane	ND		130	29	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Carbon disulfide	ND		130	59	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Carbon tetrachloride	ND		130	33	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Chlorobenzene	ND		130	17	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Dibromochloromethane	ND		130	63	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Chloroethane	ND		130	27	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Chloroform	ND		130	89	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Chloromethane	ND		130	31	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
cis-1,2-Dichloroethene	ND		130	36	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Cyclohexane	ND		130	29	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Bromodichloromethane	ND		130	26	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Dichlorodifluoromethane	ND		130	57	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Ethylbenzene	ND		130	38	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
1,2-Dibromoethane	ND		130	23	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Isopropylbenzene	ND		130	20	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Methyl acetate	**140**	**J**	650	62	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Methyl tert-butyl ether	ND		130	49	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Methylcyclohexane	ND		130	61	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Methylene Chloride	ND		130	26	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
m,p-Xylene	ND		260	72	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
n-Butylbenzene	ND		130	38	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
N-Propylbenzene	ND		130	34	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
o-Xylene	**31**	**J**	130	17	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
sec-Butylbenzene	ND		130	48	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Tetrachloroethene	ND		130	18	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Toluene	ND		130	35	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
trans-1,2-Dichloroethene	ND		130	31	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1

Client Sample ID: SB-2 (6-8)

Date Collected: 01/24/19 09:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-1

Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		130	13	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Trichloroethene	ND		130	36	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Trichlorofluoromethane	ND		130	61	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Vinyl chloride	ND		130	44	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Xylenes, Total	ND		260	72	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
cis-1,3-Dichloropropene	ND		130	31	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
Styrene	ND		130	31	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1
tert-Butylbenzene	ND		130	36	ug/Kg	☼	01/31/19 07:37	01/31/19 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*53 - 146*	*01/31/19 07:37*	*01/31/19 14:01*	*1*
4-Bromofluorobenzene (Surr)	*104*		*49 - 148*	*01/31/19 07:37*	*01/31/19 14:01*	*1*
Toluene-d8 (Surr)	*101*		*50 - 149*	*01/31/19 07:37*	*01/31/19 14:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**420**	**J**	1000	150	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5
Acenaphthylene	ND		1000	130	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5
Anthracene	ND		1000	250	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5
Benzo[a]anthracene	ND		1000	100	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5
Benzo[a]pyrene	ND		1000	150	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5
Benzo[b]fluoranthene	ND		1000	160	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5
Benzo[g,h,i]perylene	ND		1000	110	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5
Benzo[k]fluoranthene	ND		1000	130	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5
Chrysene	ND		1000	220	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5
Dibenz(a,h)anthracene	ND		1000	180	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5
Fluoranthene	ND		1000	110	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5
Fluorene	**690**	**J**	1000	120	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5
Indeno[1,2,3-cd]pyrene	ND		1000	120	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5
Naphthalene	ND		1000	130	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5
Pyrene	**200**	**J**	1000	120	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5
Phenanthrene	**1300**		1000	150	ug/Kg	☼	01/29/19 14:22	01/30/19 18:37	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*54 - 120*	*01/29/19 14:22*	*01/30/19 18:37*	*5*
2-Fluorobiphenyl	*85*		*60 - 120*	*01/29/19 14:22*	*01/30/19 18:37*	*5*
2-Fluorophenol (Surr)	*74*		*52 - 120*	*01/29/19 14:22*	*01/30/19 18:37*	*5*
Phenol-d5 (Surr)	*73*		*54 - 120*	*01/29/19 14:22*	*01/30/19 18:37*	*5*
p-Terphenyl-d14 (Surr)	*99*		*65 - 121*	*01/29/19 14:22*	*01/30/19 18:37*	*5*
Nitrobenzene-d5 (Surr)	*76*		*53 - 120*	*01/29/19 14:22*	*01/30/19 18:37*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	01/30/19 08:35	01/31/19 13:39	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	01/30/19 08:35	01/31/19 13:39	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	01/30/19 08:35	01/31/19 13:39	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	01/30/19 08:35	01/31/19 13:39	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	01/30/19 08:35	01/31/19 13:39	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	01/30/19 08:35	01/31/19 13:39	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	01/30/19 08:35	01/31/19 13:39	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-2 (6-8)
Date Collected: 01/24/19 09:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-1
Matrix: Solid
Percent Solids: 82.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		60 - 154	01/30/19 08:35	01/31/19 13:39	1
DCB Decachlorobiphenyl	85		65 - 174	01/30/19 08:35	01/31/19 13:39	1

Client Sample ID: SB-4 (2-4)

Date Collected: 01/24/19 10:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-2

Matrix: Solid
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		190	28	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1
Acenaphthylene	ND		190	25	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1
Anthracene	ND		190	47	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1
Benzo[a]pyrene	**53**	**J**	190	28	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1
Benzo[b]fluoranthene	**70**	**J**	190	30	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1
Benzo[g,h,i]perylene	**75**	**J**	190	20	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1
Benzo[k]fluoranthene	**27**	**J**	190	25	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1
Chrysene	**120**	**J**	190	42	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1
Fluoranthene	**59**	**J**	190	20	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1
Fluorene	ND		190	22	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1
Indeno[1,2,3-cd]pyrene	**46**	**J**	190	23	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1
Naphthalene	**81**	**J**	190	25	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1
Pyrene	ND		190	22	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1
Phenanthrene	**210**		190	28	ug/Kg	☼	01/29/19 14:22	01/30/19 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*111*		*54 - 120*	*01/29/19 14:22*	*01/30/19 19:03*	*1*
2-Fluorobiphenyl	*91*		*60 - 120*	*01/29/19 14:22*	*01/30/19 19:03*	*1*
2-Fluorophenol (Surr)	*78*		*52 - 120*	*01/29/19 14:22*	*01/30/19 19:03*	*1*
Phenol-d5 (Surr)	*84*		*54 - 120*	*01/29/19 14:22*	*01/30/19 19:03*	*1*
p-Terphenyl-d14 (Surr)	*111*		*65 - 121*	*01/29/19 14:22*	*01/30/19 19:03*	*1*
Nitrobenzene-d5 (Surr)	*87*		*53 - 120*	*01/29/19 14:22*	*01/30/19 19:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.046	mg/Kg	☼	01/30/19 08:35	01/31/19 14:59	1
PCB-1221	ND		0.23	0.046	mg/Kg	☼	01/30/19 08:35	01/31/19 14:59	1
PCB-1232	ND		0.23	0.046	mg/Kg	☼	01/30/19 08:35	01/31/19 14:59	1
PCB-1242	ND		0.23	0.046	mg/Kg	☼	01/30/19 08:35	01/31/19 14:59	1
PCB-1248	ND		0.23	0.046	mg/Kg	☼	01/30/19 08:35	01/31/19 14:59	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	01/30/19 08:35	01/31/19 14:59	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	01/30/19 08:35	01/31/19 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*60 - 154*	*01/30/19 08:35*	*01/31/19 14:59*	*1*
DCB Decachlorobiphenyl	*98*		*65 - 174*	*01/30/19 08:35*	*01/31/19 14:59*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.4**		2.3	0.47	mg/Kg	☼	02/01/19 08:10	02/01/19 20:53	1
Barium	**25.7**		0.59	0.13	mg/Kg	☼	02/01/19 08:10	02/01/19 20:53	1
Cadmium	**0.20**	**J**	0.23	0.035	mg/Kg	☼	02/01/19 08:10	02/01/19 20:53	1
Chromium	**6.6**		0.59	0.23	mg/Kg	☼	02/01/19 08:10	02/01/19 20:53	1
Lead	**20.5**	**B**	1.2	0.28	mg/Kg	☼	02/01/19 08:10	02/01/19 20:53	1
Selenium	ND		4.7	0.47	mg/Kg	☼	02/01/19 08:10	02/01/19 20:53	1
Silver	ND		0.70	0.23	mg/Kg	☼	02/01/19 08:10	02/01/19 20:53	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-4 (2-4)
Date Collected: 01/24/19 10:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-2
Matrix: Solid
Percent Solids: 88.2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.021	0.0086	mg/Kg	☼	01/31/19 11:25	01/31/19 13:37	1

Client Sample ID: SB-7 (2.5-4.5)

Date Collected: 01/24/19 12:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-3

Matrix: Solid
Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1800		1000	150	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5
Acenaphthylene	230	J	1000	140	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5
Anthracene	2800		1000	260	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5
Benzo[a]anthracene	4700		1000	100	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5
Benzo[a]pyrene	4400		1000	150	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5
Benzo[b]fluoranthene	5400		1000	170	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5
Benzo[g,h,i]perylene	3100		1000	110	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5
Benzo[k]fluoranthene	2100		1000	140	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5
Chrysene	5100		1000	230	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5
Dibenz(a,h)anthracene	ND		1000	180	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5
Fluoranthene	12000		1000	110	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5
Fluorene	1700		1000	120	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5
Indeno[1,2,3-cd]pyrene	2600		1000	130	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5
Naphthalene	850	J	1000	140	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5
Pyrene	10000		1000	120	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5
Phenanthrene	13000		1000	150	ug/Kg	☼	01/29/19 14:22	01/30/19 19:28	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*98*		*54 - 120*	*01/29/19 14:22*	*01/30/19 19:28*	*5*
2-Fluorobiphenyl	*82*		*60 - 120*	*01/29/19 14:22*	*01/30/19 19:28*	*5*
2-Fluorophenol (Surr)	*79*		*52 - 120*	*01/29/19 14:22*	*01/30/19 19:28*	*5*
Phenol-d5 (Surr)	*80*		*54 - 120*	*01/29/19 14:22*	*01/30/19 19:28*	*5*
p-Terphenyl-d14 (Surr)	*105*		*65 - 121*	*01/29/19 14:22*	*01/30/19 19:28*	*5*
Nitrobenzene-d5 (Surr)	*79*		*53 - 120*	*01/29/19 14:22*	*01/30/19 19:28*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	22.0		2.6	0.52	mg/Kg	☼	02/01/19 08:10	02/01/19 20:57	1
Barium	209		0.64	0.14	mg/Kg	☼	02/01/19 08:10	02/01/19 20:57	1
Cadmium	0.65		0.26	0.039	mg/Kg	☼	02/01/19 08:10	02/01/19 20:57	1
Chromium	13.7		0.64	0.26	mg/Kg	☼	02/01/19 08:10	02/01/19 20:57	1
Lead	275	B	1.3	0.31	mg/Kg	☼	02/01/19 08:10	02/01/19 20:57	1
Selenium	2.2	J	5.2	0.52	mg/Kg	☼	02/01/19 08:10	02/01/19 20:57	1
Silver	0.30	J	0.77	0.26	mg/Kg	☼	02/01/19 08:10	02/01/19 20:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.026	0.010	mg/Kg	☼	01/31/19 11:25	01/31/19 13:38	1

Client Sample ID: SB-8 (2-4)
Date Collected: 01/24/19 12:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-4
Matrix: Solid
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.4	0.46	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
1,1,2,2-Tetrachloroethane	ND	vs	6.4	1.0	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.4	1.5	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
1,1,2-Trichloroethane	ND	vs	6.4	0.83	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
1,1-Dichloroethane	ND	vs	6.4	0.78	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
1,1-Dichloroethene	ND	vs	6.4	0.78	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
1,2,4-Trichlorobenzene	ND	vs	6.4	0.39	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
1,2,4-Trimethylbenzene	ND	vs	6.4	1.2	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.4	3.2	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
1,2-Dichlorobenzene	ND	vs	6.4	0.50	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
1,2-Dichloroethane	ND	vs	6.4	0.32	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
1,2-Dichloropropane	ND	vs	6.4	3.2	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
1,3,5-Trimethylbenzene	ND	vs	6.4	0.41	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
1,3-Dichlorobenzene	ND	vs	6.4	0.33	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
1,4-Dichlorobenzene	ND	vs	6.4	0.90	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
2-Hexanone	ND	vs	32	3.2	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
4-Isopropyltoluene	ND	vs	6.4	0.51	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Acetone	**49**	**vs**	32	5.4	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Benzene	**2.3**	**J vs**	6.4	0.31	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Bromoform	ND	vs	6.4	3.2	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Bromomethane	ND	vs	6.4	0.58	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Carbon disulfide	ND	vs	6.4	3.2	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Carbon tetrachloride	ND	vs	6.4	0.62	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Chlorobenzene	ND	vs	6.4	0.84	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Dibromochloromethane	ND	vs	6.4	0.82	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Chloroethane	ND	vs	6.4	1.4	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Chloroform	ND	vs	6.4	0.40	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Chloromethane	ND	vs	6.4	0.39	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
cis-1,2-Dichloroethene	ND	vs	6.4	0.82	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
cis-1,3-Dichloropropene	ND	vs	6.4	0.92	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Cyclohexane	ND	vs	6.4	0.90	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Bromodichloromethane	ND	vs	6.4	0.86	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Dichlorodifluoromethane	ND	vs	6.4	0.53	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Ethylbenzene	ND	vs	6.4	0.44	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
1,2-Dibromoethane	ND	vs	6.4	0.82	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Isopropylbenzene	ND	vs	6.4	0.96	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Methyl acetate	ND	vs	32	3.9	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
2-Butanone (MEK)	**9.0**	**J vs**	32	2.3	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
4-Methyl-2-pentanone (MIBK)	ND	vs	32	2.1	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Methyl tert-butyl ether	ND	vs	6.4	0.63	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Methylcyclohexane	ND	vs	6.4	0.97	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Methylene Chloride	**2.9**	**J vs B**	6.4	2.9	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
m,p-Xylene	ND	vs	13	1.1	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
n-Butylbenzene	ND	vs	6.4	0.56	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
N-Propylbenzene	ND	vs	6.4	0.51	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
o-Xylene	ND	vs	6.4	0.84	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
sec-Butylbenzene	ND	vs	6.4	0.56	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Styrene	ND	vs	6.4	0.32	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
tert-Butylbenzene	ND	vs	6.4	0.67	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1

Client Sample ID: SB-8 (2-4)

Date Collected: 01/24/19 12:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-4

Matrix: Solid
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND	vs	6.4	0.86	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Toluene	ND	vs	6.4	0.48	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
trans-1,2-Dichloroethene	ND	vs	6.4	0.66	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
trans-1,3-Dichloropropene	ND	vs	6.4	2.8	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Trichloroethene	ND	vs	6.4	1.4	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Trichlorofluoromethane	ND	vs	6.4	0.60	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Vinyl chloride	ND	vs	6.4	0.78	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1
Xylenes, Total	ND	vs	13	1.1	ug/Kg	☼	01/31/19 19:45	02/01/19 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*01/31/19 19:45*	*02/01/19 00:49*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*01/31/19 19:45*	*02/01/19 00:49*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*01/31/19 19:45*	*02/01/19 00:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1100	160	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5
Acenaphthylene	ND		1100	140	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5
Anthracene	**350**	**J**	1100	270	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5
Benzo[a]anthracene	**1000**	**J**	1100	110	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5
Benzo[a]pyrene	**890**	**J**	1100	160	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5
Benzo[b]fluoranthene	**1300**		1100	170	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5
Benzo[g,h,i]perylene	**860**	**J**	1100	110	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5
Benzo[k]fluoranthene	**540**	**J**	1100	140	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5
Chrysene	**1200**		1100	240	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5
Dibenz(a,h)anthracene	ND		1100	190	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5
Fluoranthene	**1800**		1100	110	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5
Fluorene	ND		1100	130	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5
Indeno[1,2,3-cd]pyrene	**710**	**J**	1100	130	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5
Naphthalene	ND		1100	140	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5
Pyrene	**1600**		1100	130	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5
Phenanthrene	**1000**	**J**	1100	160	ug/Kg	☼	01/29/19 14:22	01/30/19 19:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*99*		*54 - 120*	*01/29/19 14:22*	*01/30/19 19:54*	*5*
2-Fluorobiphenyl	*80*		*60 - 120*	*01/29/19 14:22*	*01/30/19 19:54*	*5*
2-Fluorophenol (Surr)	*73*		*52 - 120*	*01/29/19 14:22*	*01/30/19 19:54*	*5*
Phenol-d5 (Surr)	*74*		*54 - 120*	*01/29/19 14:22*	*01/30/19 19:54*	*5*
p-Terphenyl-d14 (Surr)	*99*		*65 - 121*	*01/29/19 14:22*	*01/30/19 19:54*	*5*
Nitrobenzene-d5 (Surr)	*76*		*53 - 120*	*01/29/19 14:22*	*01/30/19 19:54*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**13.3**		2.6	0.52	mg/Kg	☼	02/01/19 08:10	02/01/19 21:12	1
Barium	**500**		0.65	0.14	mg/Kg	☼	02/01/19 08:10	02/01/19 21:12	1
Cadmium	**0.69**		0.26	0.039	mg/Kg	☼	02/01/19 08:10	02/01/19 21:12	1
Chromium	**16.5**		0.65	0.26	mg/Kg	☼	02/01/19 08:10	02/01/19 21:12	1
Lead	**1550**	**B**	1.3	0.31	mg/Kg	☼	02/01/19 08:10	02/01/19 21:12	1
Selenium	**1.4**	**J**	5.2	0.52	mg/Kg	☼	02/01/19 08:10	02/01/19 21:12	1
Silver	ND		0.78	0.26	mg/Kg	☼	02/01/19 08:10	02/01/19 21:12	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-8 (2-4)
Date Collected: 01/24/19 12:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-4
Matrix: Solid
Percent Solids: 77.7

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.1		0.026	0.011	mg/Kg	☼	01/31/19 11:25	01/31/19 13:46	1

Client Sample ID: SB-10 (2.5-4.5)

Date Collected: 01/24/19 13:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-5

Matrix: Solid
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.2	0.45	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
1,1,2,2-Tetrachloroethane	ND	vs	6.2	1.0	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.2	1.4	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
1,1,2-Trichloroethane	ND	vs	6.2	0.81	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
1,1-Dichloroethane	ND	vs	6.2	0.76	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
1,1-Dichloroethene	ND	vs	6.2	0.76	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
1,2,4-Trichlorobenzene	ND	vs	6.2	0.38	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
1,2,4-Trimethylbenzene	ND	vs	6.2	1.2	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.2	3.1	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
1,2-Dichlorobenzene	ND	vs	6.2	0.49	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
1,2-Dichloroethane	ND	vs	6.2	0.31	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
1,2-Dichloropropane	ND	vs	6.2	3.1	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
1,3,5-Trimethylbenzene	ND	vs	6.2	0.40	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
1,3-Dichlorobenzene	ND	vs	6.2	0.32	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
1,4-Dichlorobenzene	ND	vs	6.2	0.87	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
2-Hexanone	ND	vs	31	3.1	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
4-Isopropyltoluene	ND	vs	6.2	0.50	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Acetone	**44**	**vs**	31	5.3	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Benzene	ND	vs	6.2	0.31	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Bromoform	ND	vs	6.2	3.1	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Bromomethane	ND	vs	6.2	0.56	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Carbon disulfide	ND	vs	6.2	3.1	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Carbon tetrachloride	ND	vs	6.2	0.60	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Chlorobenzene	ND	vs	6.2	0.82	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Dibromochloromethane	ND	vs	6.2	0.80	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Chloroethane	ND	vs	6.2	1.4	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Chloroform	ND	vs	6.2	0.39	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Chloromethane	ND	vs	6.2	0.38	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
cis-1,2-Dichloroethene	ND	vs	6.2	0.80	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
cis-1,3-Dichloropropene	ND	vs	6.2	0.90	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Cyclohexane	ND	vs	6.2	0.87	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Bromodichloromethane	ND	vs	6.2	0.84	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Dichlorodifluoromethane	ND	vs	6.2	0.52	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Ethylbenzene	ND	vs	6.2	0.43	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
1,2-Dibromoethane	ND	vs	6.2	0.80	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Isopropylbenzene	ND	vs	6.2	0.94	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Methyl acetate	ND	vs	31	3.8	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
2-Butanone (MEK)	**6.3**	**J vs**	31	2.3	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
4-Methyl-2-pentanone (MIBK)	ND	vs	31	2.0	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Methyl tert-butyl ether	ND	vs	6.2	0.61	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Methylcyclohexane	ND	vs	6.2	0.95	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Methylene Chloride	ND	vs	6.2	2.9	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
m,p-Xylene	ND	vs	12	1.0	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
n-Butylbenzene	ND	vs	6.2	0.54	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
N-Propylbenzene	ND	vs	6.2	0.50	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
o-Xylene	ND	vs	6.2	0.81	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
sec-Butylbenzene	ND	vs	6.2	0.54	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Styrene	ND	vs	6.2	0.31	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
tert-Butylbenzene	ND	vs	6.2	0.65	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1

Client Sample ID: SB-10 (2.5-4.5)

Date Collected: 01/24/19 13:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-5

Matrix: Solid
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND	vs	6.2	0.84	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Toluene	ND	vs	6.2	0.47	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
trans-1,2-Dichloroethene	ND	vs	6.2	0.64	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
trans-1,3-Dichloropropene	ND	vs	6.2	2.7	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Trichloroethene	ND	vs	6.2	1.4	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Trichlorofluoromethane	ND	vs	6.2	0.59	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Vinyl chloride	ND	vs	6.2	0.76	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	01/31/19 08:43	01/31/19 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 126*	*01/31/19 08:43*	*01/31/19 13:01*	*1*
Toluene-d8 (Surr)	*111*		*71 - 125*	*01/31/19 08:43*	*01/31/19 13:01*	*1*
4-Bromofluorobenzene (Surr)	*92*		*72 - 126*	*01/31/19 08:43*	*01/31/19 13:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		220	32	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1
Acenaphthylene	ND		220	28	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1
Anthracene	**68**	**J**	220	54	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1
Benzo[a]anthracene	**210**	**J**	220	22	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1
Benzo[a]pyrene	**180**	**J**	220	32	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1
Benzo[b]fluoranthene	**320**		220	35	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1
Benzo[g,h,i]perylene	**190**	**J**	220	23	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1
Benzo[k]fluoranthene	ND		220	28	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1
Chrysene	**230**		220	49	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1
Dibenz(a,h)anthracene	ND		220	38	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1
Fluoranthene	**390**		220	23	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1
Fluorene	ND		220	26	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1
Indeno[1,2,3-cd]pyrene	**150**	**J**	220	27	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1
Naphthalene	**41**	**J**	220	28	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1
Pyrene	**340**		220	26	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1
Phenanthrene	**260**		220	32	ug/Kg	☼	01/29/19 14:22	01/30/19 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*100*		*54 - 120*	*01/29/19 14:22*	*01/30/19 20:19*	*1*
2-Fluorobiphenyl	*88*		*60 - 120*	*01/29/19 14:22*	*01/30/19 20:19*	*1*
2-Fluorophenol (Surr)	*83*		*52 - 120*	*01/29/19 14:22*	*01/30/19 20:19*	*1*
Phenol-d5 (Surr)	*82*		*54 - 120*	*01/29/19 14:22*	*01/30/19 20:19*	*1*
p-Terphenyl-d14 (Surr)	*105*		*65 - 121*	*01/29/19 14:22*	*01/30/19 20:19*	*1*
Nitrobenzene-d5 (Surr)	*86*		*53 - 120*	*01/29/19 14:22*	*01/30/19 20:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.3**		2.5	0.50	mg/Kg	☼	02/01/19 08:10	02/01/19 21:15	1
Barium	**169**		0.63	0.14	mg/Kg	☼	02/01/19 08:10	02/01/19 21:15	1
Cadmium	**0.65**		0.25	0.038	mg/Kg	☼	02/01/19 08:10	02/01/19 21:15	1
Chromium	**20.3**		0.63	0.25	mg/Kg	☼	02/01/19 08:10	02/01/19 21:15	1
Lead	**518**	**F2 B**	1.3	0.30	mg/Kg	☼	02/01/19 08:10	02/01/19 21:15	1
Selenium	**1.2**	**J**	5.0	0.50	mg/Kg	☼	02/01/19 08:10	02/01/19 21:15	1
Silver	ND		0.76	0.25	mg/Kg	☼	02/01/19 08:10	02/01/19 21:15	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-10 (2.5-4.5)
Date Collected: 01/24/19 13:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-5
Matrix: Solid
Percent Solids: 77.7

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.34		0.026	0.010	mg/Kg	☼	01/31/19 11:25	01/31/19 13:47	1

Client Sample ID: SB-11 (6-8)
Date Collected: 01/24/19 14:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-6
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		130	35	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
1,1,2,2-Tetrachloroethane	ND		130	21	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		130	64	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
1,1,2-Trichloroethane	ND		130	27	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
1,1-Dichloroethane	ND		130	39	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
1,1-Dichloroethene	ND		130	44	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
1,2,4-Trichlorobenzene	ND		130	48	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
1,2,4-Trimethylbenzene	**490**		130	35	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
1,2-Dibromo-3-Chloropropane	ND		130	64	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
1,2-Dichlorobenzene	ND		130	32	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
1,2-Dichloroethane	ND		130	52	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
1,2-Dichloropropane	ND		130	21	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
1,3,5-Trimethylbenzene	ND		130	38	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
1,3-Dichlorobenzene	ND		130	34	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
1,4-Dichlorobenzene	ND		130	18	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
2-Butanone (MEK)	ND		640	380	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
2-Hexanone	ND		640	260	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
4-Isopropyltoluene	ND		130	43	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
4-Methyl-2-pentanone (MIBK)	ND		640	41	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Acetone	ND		640	520	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Benzene	ND		130	24	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Bromoform	ND	*	130	64	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Bromomethane	ND		130	28	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Carbon disulfide	ND		130	58	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Carbon tetrachloride	ND		130	32	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Chlorobenzene	ND		130	17	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Dibromochloromethane	ND		130	62	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Chloroethane	ND		130	26	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Chloroform	ND		130	87	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Chloromethane	ND		130	30	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
cis-1,2-Dichloroethene	ND		130	35	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Cyclohexane	**190**		130	28	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Bromodichloromethane	ND		130	25	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Dichlorodifluoromethane	ND		130	55	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Ethylbenzene	ND		130	37	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
1,2-Dibromoethane	ND		130	22	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Isopropylbenzene	**50**	**J**	130	19	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Methyl acetate	ND		640	60	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Methyl tert-butyl ether	ND		130	48	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Methylcyclohexane	**97**	**J**	130	59	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Methylene Chloride	ND		130	25	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
m,p-Xylene	**74**	**J**	250	70	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
n-Butylbenzene	**100**	**J**	130	37	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
N-Propylbenzene	**140**		130	33	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
o-Xylene	**41**	**J**	130	17	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
sec-Butylbenzene	**67**	**J**	130	47	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Tetrachloroethene	ND		130	17	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Toluene	ND		130	34	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
trans-1,2-Dichloroethene	ND		130	30	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1

Client Sample ID: SB-11 (6-8)
Date Collected: 01/24/19 14:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-6
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		130	12	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Trichloroethene	ND		130	35	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Trichlorofluoromethane	ND		130	60	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Vinyl chloride	ND		130	43	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Xylenes, Total	**120**	**J**	250	70	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
cis-1,3-Dichloropropene	ND		130	30	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
Styrene	ND		130	31	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1
tert-Butylbenzene	ND		130	35	ug/Kg	☼	01/31/19 07:37	01/31/19 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*53 - 146*	*01/31/19 07:37*	*01/31/19 14:27*	*1*
4-Bromofluorobenzene (Surr)	*101*		*49 - 148*	*01/31/19 07:37*	*01/31/19 14:27*	*1*
Toluene-d8 (Surr)	*97*		*50 - 149*	*01/31/19 07:37*	*01/31/19 14:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**94**	**J**	200	29	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1
Acenaphthylene	ND		200	26	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1
Anthracene	**89**	**J**	200	49	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1
Benzo[a]anthracene	**210**		200	20	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1
Benzo[a]pyrene	**220**		200	29	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1
Benzo[b]fluoranthene	**300**		200	31	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1
Benzo[g,h,i]perylene	**230**		200	21	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1
Benzo[k]fluoranthene	**180**	**J**	200	26	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1
Chrysene	**240**		200	44	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1
Dibenz(a,h)anthracene	**74**	**J**	200	35	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1
Fluoranthene	**450**		200	21	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1
Fluorene	ND		200	23	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1
Indeno[1,2,3-cd]pyrene	**200**		200	24	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1
Naphthalene	ND		200	26	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1
Pyrene	**400**		200	23	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1
Phenanthrene	**330**		200	29	ug/Kg	☼	01/29/19 14:22	01/30/19 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*107*		*54 - 120*	*01/29/19 14:22*	*01/30/19 20:45*	*1*
2-Fluorobiphenyl	*89*		*60 - 120*	*01/29/19 14:22*	*01/30/19 20:45*	*1*
2-Fluorophenol (Surr)	*87*		*52 - 120*	*01/29/19 14:22*	*01/30/19 20:45*	*1*
Phenol-d5 (Surr)	*86*		*54 - 120*	*01/29/19 14:22*	*01/30/19 20:45*	*1*
p-Terphenyl-d14 (Surr)	*111*		*65 - 121*	*01/29/19 14:22*	*01/30/19 20:45*	*1*
Nitrobenzene-d5 (Surr)	*84*		*53 - 120*	*01/29/19 14:22*	*01/30/19 20:45*	*1*

Client Sample ID: SB-13 (2-4)

Date Collected: 01/25/19 09:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-7

Matrix: Solid
Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**1700**		980	140	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5
Acenaphthylene	ND		980	130	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5
Anthracene	**5900**		980	240	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5
Benzo[a]anthracene	**13000**		980	98	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5
Benzo[a]pyrene	**12000**		980	140	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5
Benzo[b]fluoranthene	**14000**		980	150	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5
Benzo[g,h,i]perylene	**8500**		980	100	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5
Benzo[k]fluoranthene	**5200**		980	130	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5
Chrysene	**12000**		980	220	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5
Dibenz(a,h)anthracene	ND		980	170	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5
Fluoranthene	**31000**		980	100	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5
Fluorene	**1500**		980	110	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5
Indeno[1,2,3-cd]pyrene	**7600**		980	120	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5
Naphthalene	**460**	**J**	980	130	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5
Pyrene	**24000**		980	110	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5
Phenanthrene	**25000**		980	140	ug/Kg	☼	01/29/19 14:22	01/30/19 21:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*114*		*54 - 120*	*01/29/19 14:22*	*01/30/19 21:10*	*5*
2-Fluorobiphenyl	*86*		*60 - 120*	*01/29/19 14:22*	*01/30/19 21:10*	*5*
2-Fluorophenol (Surr)	*81*		*52 - 120*	*01/29/19 14:22*	*01/30/19 21:10*	*5*
Phenol-d5 (Surr)	*85*		*54 - 120*	*01/29/19 14:22*	*01/30/19 21:10*	*5*
p-Terphenyl-d14 (Surr)	*99*		*65 - 121*	*01/29/19 14:22*	*01/30/19 21:10*	*5*
Nitrobenzene-d5 (Surr)	*84*		*53 - 120*	*01/29/19 14:22*	*01/30/19 21:10*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**20.9**		2.3	0.45	mg/Kg	☼	02/01/19 08:10	02/01/19 21:34	1
Barium	**124**		0.56	0.12	mg/Kg	☼	02/01/19 08:10	02/01/19 21:34	1
Cadmium	**0.79**		0.23	0.034	mg/Kg	☼	02/01/19 08:10	02/01/19 21:34	1
Chromium	**21.0**		0.56	0.23	mg/Kg	☼	02/01/19 08:10	02/01/19 21:34	1
Lead	**125**	**B**	1.1	0.27	mg/Kg	☼	02/01/19 08:10	02/01/19 21:34	1
Selenium	**1.1**	**J**	4.5	0.45	mg/Kg	☼	02/01/19 08:10	02/01/19 21:34	1
Silver	ND		0.68	0.23	mg/Kg	☼	02/01/19 08:10	02/01/19 21:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.23**		0.022	0.0091	mg/Kg	☼	01/31/19 11:25	01/31/19 13:48	1

Client Sample ID: SB-14 (2-4)

Date Collected: 01/25/19 10:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-8

Matrix: Solid
Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**320**	**J**	1100	160	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5
Acenaphthylene	ND		1100	140	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5
Anthracene	**1000**	**J**	1100	270	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5
Benzo[a]anthracene	**2100**		1100	110	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5
Benzo[a]pyrene	**1800**		1100	160	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5
Benzo[b]fluoranthene	**2400**		1100	170	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5
Benzo[g,h,i]perylene	**1400**		1100	110	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5
Benzo[k]fluoranthene	**1100**		1100	140	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5
Chrysene	**2100**		1100	240	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5
Dibenz(a,h)anthracene	ND		1100	190	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5
Fluoranthene	**4500**		1100	110	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5
Fluorene	**390**	**J**	1100	130	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5
Indeno[1,2,3-cd]pyrene	**1200**		1100	130	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5
Naphthalene	**140**	**J**	1100	140	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5
Pyrene	**3700**		1100	130	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5
Phenanthrene	**3700**		1100	160	ug/Kg	☼	01/29/19 14:22	01/30/19 21:35	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*97*		*54 - 120*	*01/29/19 14:22*	*01/30/19 21:35*	*5*
2-Fluorobiphenyl	*78*		*60 - 120*	*01/29/19 14:22*	*01/30/19 21:35*	*5*
2-Fluorophenol (Surr)	*81*		*52 - 120*	*01/29/19 14:22*	*01/30/19 21:35*	*5*
Phenol-d5 (Surr)	*80*		*54 - 120*	*01/29/19 14:22*	*01/30/19 21:35*	*5*
p-Terphenyl-d14 (Surr)	*108*		*65 - 121*	*01/29/19 14:22*	*01/30/19 21:35*	*5*
Nitrobenzene-d5 (Surr)	*77*		*53 - 120*	*01/29/19 14:22*	*01/30/19 21:35*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.31	0.060	mg/Kg	☼	01/30/19 08:35	01/31/19 15:14	1
PCB-1221	ND		0.31	0.060	mg/Kg	☼	01/30/19 08:35	01/31/19 15:14	1
PCB-1232	ND		0.31	0.060	mg/Kg	☼	01/30/19 08:35	01/31/19 15:14	1
PCB-1242	ND		0.31	0.060	mg/Kg	☼	01/30/19 08:35	01/31/19 15:14	1
PCB-1248	ND		0.31	0.060	mg/Kg	☼	01/30/19 08:35	01/31/19 15:14	1
PCB-1254	ND		0.31	0.14	mg/Kg	☼	01/30/19 08:35	01/31/19 15:14	1
PCB-1260	ND		0.31	0.14	mg/Kg	☼	01/30/19 08:35	01/31/19 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*60 - 154*	*01/30/19 08:35*	*01/31/19 15:14*	*1*
DCB Decachlorobiphenyl	*76*		*65 - 174*	*01/30/19 08:35*	*01/31/19 15:14*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**23.4**		2.7	0.54	mg/Kg	☼	02/01/19 08:10	02/01/19 21:38	1
Barium	**84.1**		0.67	0.15	mg/Kg	☼	02/01/19 08:10	02/01/19 21:38	1
Cadmium	ND		1.3	0.20	mg/Kg	☼	02/01/19 08:10	02/06/19 10:55	5
Chromium	**16.8**		0.67	0.27	mg/Kg	☼	02/01/19 08:10	02/01/19 21:38	1
Lead	**304**	**B**	6.7	1.6	mg/Kg	☼	02/01/19 08:10	02/06/19 10:55	5
Selenium	**2.7**	**J**	5.4	0.54	mg/Kg	☼	02/01/19 08:10	02/01/19 21:38	1
Silver	ND		4.0	1.3	mg/Kg	☼	02/01/19 08:10	02/06/19 10:55	5

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-14 (2-4)
Date Collected: 01/25/19 10:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-8
Matrix: Solid
Percent Solids: 77.3

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.61		0.025	0.010	mg/Kg	☼	01/31/19 11:25	01/31/19 13:49	1

Client Sample ID: SB-15 (2-5)

Date Collected: 01/25/19 10:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-9

Matrix: Solid
Percent Solids: 74.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1100	170	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5
Acenaphthylene	ND		1100	150	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5
Anthracene	ND		1100	280	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5
Benzo[a]anthracene	ND		1100	110	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5
Benzo[a]pyrene	ND		1100	170	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5
Benzo[b]fluoranthene	**220**	**J**	1100	180	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5
Benzo[g,h,i]perylene	**260**	**J**	1100	120	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5
Benzo[k]fluoranthene	ND		1100	150	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5
Chrysene	**270**	**J**	1100	250	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5
Dibenz(a,h)anthracene	ND		1100	200	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5
Fluoranthene	**260**	**J**	1100	120	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5
Fluorene	ND		1100	130	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5
Indeno[1,2,3-cd]pyrene	**210**	**J**	1100	140	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5
Naphthalene	ND		1100	150	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5
Pyrene	**220**	**J**	1100	130	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5
Phenanthrene	**320**	**J**	1100	170	ug/Kg	☼	01/29/19 14:22	01/30/19 22:01	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*54 - 120*	*01/29/19 14:22*	*01/30/19 22:01*	*5*
2-Fluorobiphenyl	*79*		*60 - 120*	*01/29/19 14:22*	*01/30/19 22:01*	*5*
2-Fluorophenol (Surr)	*77*		*52 - 120*	*01/29/19 14:22*	*01/30/19 22:01*	*5*
Phenol-d5 (Surr)	*82*		*54 - 120*	*01/29/19 14:22*	*01/30/19 22:01*	*5*
p-Terphenyl-d14 (Surr)	*106*		*65 - 121*	*01/29/19 14:22*	*01/30/19 22:01*	*5*
Nitrobenzene-d5 (Surr)	*67*		*53 - 120*	*01/29/19 14:22*	*01/30/19 22:01*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.058	mg/Kg	☼	01/30/19 08:35	01/31/19 15:30	1
PCB-1221	ND		0.30	0.058	mg/Kg	☼	01/30/19 08:35	01/31/19 15:30	1
PCB-1232	ND		0.30	0.058	mg/Kg	☼	01/30/19 08:35	01/31/19 15:30	1
PCB-1242	ND		0.30	0.058	mg/Kg	☼	01/30/19 08:35	01/31/19 15:30	1
PCB-1248	ND		0.30	0.058	mg/Kg	☼	01/30/19 08:35	01/31/19 15:30	1
PCB-1254	ND		0.30	0.14	mg/Kg	☼	01/30/19 08:35	01/31/19 15:30	1
PCB-1260	ND		0.30	0.14	mg/Kg	☼	01/30/19 08:35	01/31/19 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*60 - 154*	*01/30/19 08:35*	*01/31/19 15:30*	*1*
DCB Decachlorobiphenyl	*80*		*65 - 174*	*01/30/19 08:35*	*01/31/19 15:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**14.3**		2.6	0.52	mg/Kg	☼	02/01/19 08:10	02/01/19 21:42	1
Barium	**331**		0.65	0.14	mg/Kg	☼	02/01/19 08:10	02/01/19 21:42	1
Cadmium	**0.65**		0.26	0.039	mg/Kg	☼	02/01/19 08:10	02/01/19 21:42	1
Chromium	**12.4**		0.65	0.26	mg/Kg	☼	02/01/19 08:10	02/01/19 21:42	1
Lead	**438**	**B**	1.3	0.31	mg/Kg	☼	02/01/19 08:10	02/01/19 21:42	1
Selenium	**1.9**	**J**	5.2	0.52	mg/Kg	☼	02/01/19 08:10	02/01/19 21:42	1
Silver	ND		0.78	0.26	mg/Kg	☼	02/01/19 08:10	02/01/19 21:42	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-15 (2-5)
Date Collected: 01/25/19 10:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-9
Matrix: Solid
Percent Solids: 74.9

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	12.6		0.26	0.10	mg/Kg	☼	01/31/19 11:25	01/31/19 14:19	10

Client Sample ID: SB-16 (3-5)

Date Collected: 01/25/19 11:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-10

Matrix: Solid
Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		180	27	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1
Acenaphthylene	ND		180	23	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1
Anthracene	ND		180	45	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1
Benzo[a]anthracene	**76**	**J**	180	18	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1
Benzo[a]pyrene	**82**	**J**	180	27	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1
Benzo[b]fluoranthene	**140**	**J**	180	29	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1
Benzo[g,h,i]perylene	**150**	**J**	180	19	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1
Benzo[k]fluoranthene	**53**	**J**	180	23	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1
Chrysene	**100**	**J**	180	41	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1
Dibenz(a,h)anthracene	ND		180	32	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1
Fluoranthene	**110**	**J**	180	19	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1
Fluorene	ND		180	21	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1
Indeno[1,2,3-cd]pyrene	**100**	**J**	180	22	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1
Naphthalene	ND		180	23	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1
Pyrene	**110**	**J**	180	21	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1
Phenanthrene	**120**	**J**	180	27	ug/Kg	☼	01/29/19 14:22	01/30/19 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*108*		*54 - 120*	*01/29/19 14:22*	*01/30/19 22:26*	*1*
2-Fluorobiphenyl	*93*		*60 - 120*	*01/29/19 14:22*	*01/30/19 22:26*	*1*
2-Fluorophenol (Surr)	*93*		*52 - 120*	*01/29/19 14:22*	*01/30/19 22:26*	*1*
Phenol-d5 (Surr)	*90*		*54 - 120*	*01/29/19 14:22*	*01/30/19 22:26*	*1*
p-Terphenyl-d14 (Surr)	*110*		*65 - 121*	*01/29/19 14:22*	*01/30/19 22:26*	*1*
Nitrobenzene-d5 (Surr)	*85*		*53 - 120*	*01/29/19 14:22*	*01/30/19 22:26*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.5**		2.2	0.44	mg/Kg	☼	02/01/19 08:10	02/01/19 21:57	1
Barium	**91.8**		0.56	0.12	mg/Kg	☼	02/01/19 08:10	02/01/19 21:57	1
Cadmium	**0.32**		0.22	0.033	mg/Kg	☼	02/01/19 08:10	02/01/19 21:57	1
Chromium	**11.7**		0.56	0.22	mg/Kg	☼	02/01/19 08:10	02/01/19 21:57	1
Lead	**39.0**	**B**	1.1	0.27	mg/Kg	☼	02/01/19 08:10	02/01/19 21:57	1
Selenium	**1.4**	**J**	4.4	0.44	mg/Kg	☼	02/01/19 08:10	02/01/19 21:57	1
Silver	ND		0.67	0.22	mg/Kg	☼	02/01/19 08:10	02/01/19 21:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.048**		0.020	0.0080	mg/Kg	☼	01/31/19 11:25	01/31/19 13:55	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-17 (6-8)
Date Collected: 01/25/19 11:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-11
Matrix: Solid
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1100	300	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
1,1,2,2-Tetrachloroethane	ND		1100	180	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1100	550	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
1,1,2-Trichloroethane	ND		1100	230	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
1,1-Dichloroethane	ND		1100	340	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
1,1-Dichloroethene	ND		1100	380	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
1,2,4-Trichlorobenzene	ND		1100	420	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
1,2,4-Trimethylbenzene	ND		1100	310	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
1,2-Dibromo-3-Chloropropane	ND	F1	1100	550	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
1,2-Dichlorobenzene	ND		1100	280	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
1,2-Dichloroethane	ND		1100	450	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
1,2-Dichloropropane	ND		1100	180	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
1,3,5-Trimethylbenzene	ND		1100	330	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
1,3-Dichlorobenzene	ND		1100	290	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
1,4-Dichlorobenzene	ND		1100	150	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
2-Butanone (MEK)	ND		5500	3300	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
2-Hexanone	ND		5500	2300	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
4-Isopropyltoluene	ND		1100	370	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
4-Methyl-2-pentanone (MIBK)	ND		5500	350	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Acetone	ND	F1	5500	4500	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Benzene	ND		1100	210	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Bromoform	ND	* F1	1100	550	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Bromomethane	ND		1100	240	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Carbon disulfide	ND		1100	500	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Carbon tetrachloride	ND	F1	1100	280	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Chlorobenzene	ND		1100	150	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Dibromochloromethane	ND		1100	530	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Chloroethane	ND		1100	230	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Chloroform	ND		1100	760	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Chloromethane	ND	F1	1100	260	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
cis-1,2-Dichloroethene	ND		1100	300	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Cyclohexane	ND		1100	240	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Bromodichloromethane	ND		1100	220	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Dichlorodifluoromethane	ND		1100	480	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Ethylbenzene	ND		1100	320	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
1,2-Dibromoethane	ND		1100	190	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Isopropylbenzene	ND		1100	170	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Methyl acetate	ND	F1	5500	520	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Methyl tert-butyl ether	ND		1100	420	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Methylcyclohexane	ND		1100	520	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Methylene Chloride	ND		1100	220	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
m,p-Xylene	ND		2200	610	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
n-Butylbenzene	**390**	**J**	1100	320	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
N-Propylbenzene	ND		1100	290	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
o-Xylene	ND		1100	140	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
sec-Butylbenzene	ND		1100	410	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Tetrachloroethene	ND		1100	150	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Toluene	ND		1100	300	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
trans-1,2-Dichloroethene	ND		1100	260	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8

Client Sample ID: SB-17 (6-8)
Date Collected: 01/25/19 11:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-11
Matrix: Solid
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1100	110	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Trichloroethene	ND		1100	310	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Trichlorofluoromethane	ND		1100	520	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Vinyl chloride	ND		1100	370	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Xylenes, Total	ND		2200	610	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
cis-1,3-Dichloropropene	ND		1100	260	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
Styrene	ND		1100	270	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8
tert-Butylbenzene	ND		1100	310	ug/Kg	☼	01/31/19 07:37	01/31/19 14:54	8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*53 - 146*	*01/31/19 07:37*	*01/31/19 14:54*	*8*
4-Bromofluorobenzene (Surr)	*101*		*49 - 148*	*01/31/19 07:37*	*01/31/19 14:54*	*8*
Toluene-d8 (Surr)	*99*		*50 - 149*	*01/31/19 07:37*	*01/31/19 14:54*	*8*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**660**		210	31	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1
Acenaphthylene	ND		210	27	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1
Anthracene	**240**		210	52	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1
Benzo[a]pyrene	ND		210	31	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1
Benzo[b]fluoranthene	ND		210	33	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1
Benzo[g,h,i]perylene	ND		210	22	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1
Benzo[k]fluoranthene	ND		210	27	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1
Chrysene	ND		210	47	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1
Fluoranthene	**83**	**J**	210	22	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1
Fluorene	**1400**		210	25	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1
Naphthalene	ND		210	27	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1
Pyrene	**400**		210	25	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1
Phenanthrene	**3300**		210	31	ug/Kg	☼	01/29/19 14:22	01/30/19 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*97*		*54 - 120*	*01/29/19 14:22*	*01/30/19 22:52*	*1*
2-Fluorobiphenyl	*97*		*60 - 120*	*01/29/19 14:22*	*01/30/19 22:52*	*1*
2-Fluorophenol (Surr)	*85*		*52 - 120*	*01/29/19 14:22*	*01/30/19 22:52*	*1*
Phenol-d5 (Surr)	*90*		*54 - 120*	*01/29/19 14:22*	*01/30/19 22:52*	*1*
p-Terphenyl-d14 (Surr)	*110*		*65 - 121*	*01/29/19 14:22*	*01/30/19 22:52*	*1*
Nitrobenzene-d5 (Surr)	*88*		*53 - 120*	*01/29/19 14:22*	*01/30/19 22:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	01/30/19 08:35	01/31/19 15:47	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	01/30/19 08:35	01/31/19 15:47	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	01/30/19 08:35	01/31/19 15:47	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	01/30/19 08:35	01/31/19 15:47	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	01/30/19 08:35	01/31/19 15:47	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	01/30/19 08:35	01/31/19 15:47	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	01/30/19 08:35	01/31/19 15:47	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-17 (6-8)
Date Collected: 01/25/19 11:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-11
Matrix: Solid
Percent Solids: 79.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		60 - 154	01/30/19 08:35	01/31/19 15:47	1
DCB Decachlorobiphenyl	89		65 - 174	01/30/19 08:35	01/31/19 15:47	1

Client Sample ID: SB-20 (3-6)

Date Collected: 01/25/19 13:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-12

Matrix: Solid
Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		960	140	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5
Acenaphthylene	ND		960	120	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5
Anthracene	ND		960	240	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5
Benzo[a]anthracene	**200**	**J**	960	96	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5
Benzo[a]pyrene	**180**	**J**	960	140	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5
Benzo[b]fluoranthene	**220**	**J**	960	150	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5
Benzo[g,h,i]perylene	**290**	**J**	960	100	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5
Benzo[k]fluoranthene	ND		960	120	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5
Chrysene	**230**	**J**	960	210	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5
Dibenz(a,h)anthracene	ND		960	170	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5
Fluoranthene	**300**	**J**	960	100	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5
Fluorene	ND		960	110	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5
Indeno[1,2,3-cd]pyrene	**180**	**J**	960	120	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5
Naphthalene	ND		960	120	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5
Pyrene	**320**	**J**	960	110	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5
Phenanthrene	**460**	**J**	960	140	ug/Kg	☼	01/29/19 14:22	01/30/19 23:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*54 - 120*	*01/29/19 14:22*	*01/30/19 23:17*	*5*
2-Fluorobiphenyl	*71*		*60 - 120*	*01/29/19 14:22*	*01/30/19 23:17*	*5*
2-Fluorophenol (Surr)	*60*		*52 - 120*	*01/29/19 14:22*	*01/30/19 23:17*	*5*
Phenol-d5 (Surr)	*59*		*54 - 120*	*01/29/19 14:22*	*01/30/19 23:17*	*5*
p-Terphenyl-d14 (Surr)	*84*		*65 - 121*	*01/29/19 14:22*	*01/30/19 23:17*	*5*
Nitrobenzene-d5 (Surr)	*71*		*53 - 120*	*01/29/19 14:22*	*01/30/19 23:17*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**20.3**		2.4	0.48	mg/Kg	☼	02/01/19 08:10	02/01/19 22:00	1
Barium	**118**		0.59	0.13	mg/Kg	☼	02/01/19 08:10	02/01/19 22:00	1
Cadmium	ND		1.2	0.18	mg/Kg	☼	02/01/19 08:10	02/06/19 10:58	5
Chromium	**16.2**		0.59	0.24	mg/Kg	☼	02/01/19 08:10	02/01/19 22:00	1
Lead	**1030**	**B**	5.9	1.4	mg/Kg	☼	02/01/19 08:10	02/06/19 10:58	5
Selenium	**2.3**	**J**	4.8	0.48	mg/Kg	☼	02/01/19 08:10	02/01/19 22:00	1
Silver	ND		3.6	1.2	mg/Kg	☼	02/01/19 08:10	02/06/19 10:58	5

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.099**		0.021	0.0086	mg/Kg	☼	01/31/19 11:25	01/31/19 13:56	1

Client Sample ID: SB-21 (2-4)
Date Collected: 01/25/19 14:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-13
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5200		980	140	ug/Kg	☼	01/29/19 14:22	01/30/19 23:43	5
Acenaphthylene	3000		980	130	ug/Kg	☼	01/29/19 14:22	01/30/19 23:43	5
Anthracene	14000		980	240	ug/Kg	☼	01/29/19 14:22	01/30/19 23:43	5
Benzo[a]anthracene	30000		980	98	ug/Kg	☼	01/29/19 14:22	01/30/19 23:43	5
Benzo[a]pyrene	31000		980	140	ug/Kg	☼	01/29/19 14:22	01/30/19 23:43	5
Benzo[g,h,i]perylene	21000		980	100	ug/Kg	☼	01/29/19 14:22	01/30/19 23:43	5
Benzo[k]fluoranthene	13000		980	130	ug/Kg	☼	01/29/19 14:22	01/30/19 23:43	5
Chrysene	30000		980	220	ug/Kg	☼	01/29/19 14:22	01/30/19 23:43	5
Dibenz(a,h)anthracene	6700		980	170	ug/Kg	☼	01/29/19 14:22	01/30/19 23:43	5
Fluorene	5300		980	120	ug/Kg	☼	01/29/19 14:22	01/30/19 23:43	5
Indeno[1,2,3-cd]pyrene	19000		980	120	ug/Kg	☼	01/29/19 14:22	01/30/19 23:43	5
Naphthalene	3200		980	130	ug/Kg	☼	01/29/19 14:22	01/30/19 23:43	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*54 - 120*	*01/29/19 14:22*	*01/30/19 23:43*	*5*
2-Fluorobiphenyl	*84*		*60 - 120*	*01/29/19 14:22*	*01/30/19 23:43*	*5*
2-Fluorophenol (Surr)	*75*		*52 - 120*	*01/29/19 14:22*	*01/30/19 23:43*	*5*
Phenol-d5 (Surr)	*80*		*54 - 120*	*01/29/19 14:22*	*01/30/19 23:43*	*5*
p-Terphenyl-d14 (Surr)	*95*		*65 - 121*	*01/29/19 14:22*	*01/30/19 23:43*	*5*
Nitrobenzene-d5 (Surr)	*81*		*53 - 120*	*01/29/19 14:22*	*01/30/19 23:43*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	35000		9800	1600	ug/Kg	☼	01/29/19 14:22	01/31/19 16:30	50
Fluoranthene	77000		9800	1000	ug/Kg	☼	01/29/19 14:22	01/31/19 16:30	50
Pyrene	68000		9800	1200	ug/Kg	☼	01/29/19 14:22	01/31/19 16:30	50
Phenanthrene	58000		9800	1400	ug/Kg	☼	01/29/19 14:22	01/31/19 16:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*54 - 120*	*01/29/19 14:22*	*01/31/19 16:30*	*50*
2-Fluorobiphenyl	*97*		*60 - 120*	*01/29/19 14:22*	*01/31/19 16:30*	*50*
2-Fluorophenol (Surr)	*0*	*X*	*52 - 120*	*01/29/19 14:22*	*01/31/19 16:30*	*50*
Phenol-d5 (Surr)	*0*	*X*	*54 - 120*	*01/29/19 14:22*	*01/31/19 16:30*	*50*
p-Terphenyl-d14 (Surr)	*0*	*X*	*65 - 121*	*01/29/19 14:22*	*01/31/19 16:30*	*50*
Nitrobenzene-d5 (Surr)	*0*	*X*	*53 - 120*	*01/29/19 14:22*	*01/31/19 16:30*	*50*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16.6		2.4	0.47	mg/Kg	☼	02/01/19 08:10	02/01/19 22:04	1
Barium	197		0.59	0.13	mg/Kg	☼	02/01/19 08:10	02/01/19 22:04	1
Cadmium	0.53		0.24	0.035	mg/Kg	☼	02/01/19 08:10	02/01/19 22:04	1
Chromium	14.3		0.59	0.24	mg/Kg	☼	02/01/19 08:10	02/01/19 22:04	1
Lead	361	B	1.2	0.28	mg/Kg	☼	02/01/19 08:10	02/01/19 22:04	1
Selenium	1.6	J	4.7	0.47	mg/Kg	☼	02/01/19 08:10	02/01/19 22:04	1
Silver	ND		0.71	0.24	mg/Kg	☼	02/01/19 08:10	02/01/19 22:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.75		0.022	0.0088	mg/Kg	☼	01/31/19 11:25	01/31/19 13:57	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(53-146)	(49-148)	(50-149)
480-148426-1	SB-2 (6-8)	110	104	101
480-148426-6	SB-11 (6-8)	108	101	97
480-148426-11	SB-17 (6-8)	108	101	99
480-148426-11 MS	SB-17 (6-8)	107	104	98
480-148426-11 MSD	SB-17 (6-8)	111	104	101
LCS 480-457155/1-A	Lab Control Sample	112	104	99
MB 480-457155/2-A	Method Blank	110	104	99

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	TOL	BFB
Lab Sample ID	Client Sample ID	(64-126)	(71-125)	(72-126)
480-148426-4	SB-8 (2-4)	105	103	100
480-148426-5	SB-10 (2.5-4.5)	99	111	92
LCS 480-457179/1-A	Lab Control Sample	101	101	104
LCS 480-457311/1-A	Lab Control Sample	105	102	104
MB 480-457179/2-A	Method Blank	102	101	100
MB 480-457311/2-A	Method Blank	104	101	100

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	PHL	TPHd14	NBZ
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(54-120)	(65-121)	(53-120)
480-148426-1	SB-2 (6-8)	84	85	74	73	99	76
480-148426-2	SB-4 (2-4)	111	91	78	84	111	87
480-148426-3	SB-7 (2.5-4.5)	98	82	79	80	105	79
480-148426-4	SB-8 (2-4)	99	80	73	74	99	76
480-148426-5	SB-10 (2.5-4.5)	100	88	83	82	105	86
480-148426-6	SB-11 (6-8)	107	89	87	86	111	84
480-148426-7	SB-13 (2-4)	114	86	81	85	99	84
480-148426-8	SB-14 (2-4)	97	78	81	80	108	77
480-148426-9	SB-15 (2-5)	83	79	77	82	106	67
480-148426-10	SB-16 (3-5)	108	93	93	90	110	85
480-148426-11	SB-17 (6-8)	97	97	85	90	110	88
480-148426-12	SB-20 (3-6)	83	71	60	59	84	71
480-148426-13	SB-21 (2-4)	83	84	75	80	95	81

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	PHL	TPHd14	NBZ
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(54-120)	(65-121)	(53-120)
480-148426-13 - DL	SB-21 (2-4)	0 X	97	0 X	0 X	0 X	0 X
LCS 480-457005/2-A	Lab Control Sample	104	95	87	91	112	95
MB 480-457005/1-A	Method Blank	84	88	90	85	106	86

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(65-174)
480-148426-1	SB-2 (6-8)	74	85
480-148426-1 MS	SB-2 (6-8)	94	122
480-148426-1 MSD	SB-2 (6-8)	94	125
480-148426-2	SB-4 (2-4)	90	98
480-148426-8	SB-14 (2-4)	82	76
480-148426-9	SB-15 (2-5)	80	80
480-148426-11	SB-17 (6-8)	73	89
LCS 480-457067/2-A	Lab Control Sample	102	109
MB 480-457067/1-A	Method Blank	108	111

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

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

Lab Sample ID: MB 480-457155/2-A
Matrix: Solid
Analysis Batch: 457158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
1,1-Dichloroethane	ND		100	31	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
1,1-Dichloroethene	ND		100	35	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
1,2,4-Trimethylbenzene	ND		100	28	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
1,2-Dibromo-3-Chloropropane	ND		100	50	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
1,2-Dichlorobenzene	ND		100	26	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
1,2-Dichloroethane	ND		100	41	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
1,2-Dichloropropane	ND		100	16	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
1,3,5-Trimethylbenzene	ND		100	30	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
2-Hexanone	ND		500	210	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
4-Isopropyltoluene	ND		100	34	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Acetone	ND		500	410	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Benzene	ND		100	19	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Bromoform	ND		100	50	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Bromomethane	ND		100	22	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Carbon disulfide	ND		100	46	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Carbon tetrachloride	ND		100	26	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Chlorobenzene	ND		100	13	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Dibromochloromethane	ND		100	48	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Chloroethane	ND		100	21	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Chloroform	ND		100	69	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Chloromethane	ND		100	24	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Cyclohexane	ND		100	22	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Bromodichloromethane	ND		100	20	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Dichlorodifluoromethane	ND		100	44	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Ethylbenzene	ND		100	29	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
1,2-Dibromoethane	ND		100	18	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
2-Butanone (MEK)	ND		500	300	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
4-Methyl-2-pentanone (MIBK)	ND		500	32	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Isopropylbenzene	ND		100	15	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Methyl acetate	ND		500	48	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Methylcyclohexane	ND		100	47	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Methylene Chloride	ND		100	20	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
m,p-Xylene	ND		200	55	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
n-Butylbenzene	ND		100	29	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
N-Propylbenzene	ND		100	26	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
o-Xylene	ND		100	13	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
sec-Butylbenzene	ND		100	37	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Tetrachloroethene	ND		100	13	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Toluene	ND		100	27	ug/Kg		01/31/19 07:37	01/31/19 12:01	1

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

Lab Sample ID: MB 480-457155/2-A
Matrix: Solid
Analysis Batch: 457158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		100	24	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
trans-1,3-Dichloropropene	ND		100	9.8	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Trichloroethene	ND		100	28	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Trichlorofluoromethane	ND		100	47	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Vinyl chloride	ND		100	34	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Xylenes, Total	ND		200	55	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
Styrene	ND		100	24	ug/Kg		01/31/19 07:37	01/31/19 12:01	1
tert-Butylbenzene	ND		100	28	ug/Kg		01/31/19 07:37	01/31/19 12:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*53 - 146*	*01/31/19 07:37*	*01/31/19 12:01*	*1*
Toluene-d8 (Surr)	*99*		*50 - 149*	*01/31/19 07:37*	*01/31/19 12:01*	*1*
4-Bromofluorobenzene (Surr)	*104*		*49 - 148*	*01/31/19 07:37*	*01/31/19 12:01*	*1*

Lab Sample ID: LCS 480-457155/1-A
Matrix: Solid
Analysis Batch: 457158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	2990		ug/Kg		119	68 - 130
1,1,2,2-Tetrachloroethane	2500	2150		ug/Kg		86	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2660		ug/Kg		106	10 - 179
1,1,2-Trichloroethane	2500	2190		ug/Kg		87	80 - 120
1,1-Dichloroethane	2500	2600		ug/Kg		104	78 - 121
1,1-Dichloroethene	2500	2440		ug/Kg		97	48 - 133
1,2,4-Trichlorobenzene	2500	2610		ug/Kg		104	70 - 140
1,2,4-Trimethylbenzene	2500	2630		ug/Kg		105	77 - 127
1,2-Dibromo-3-Chloropropane	2500	2670		ug/Kg		107	56 - 122
1,2-Dichlorobenzene	2500	2520		ug/Kg		101	78 - 125
1,2-Dichloroethane	2500	2750		ug/Kg		110	74 - 127
1,2-Dichloropropane	2500	2650		ug/Kg		106	80 - 120
1,3,5-Trimethylbenzene	2500	2590		ug/Kg		104	79 - 120
1,3-Dichlorobenzene	2500	2500		ug/Kg		100	80 - 120
1,4-Dichlorobenzene	2500	2460		ug/Kg		98	80 - 120
2-Hexanone	12500	11200		ug/Kg		90	59 - 127
4-Isopropyltoluene	2500	2780		ug/Kg		111	80 - 120
Acetone	12500	12600		ug/Kg		101	47 - 141
Benzene	2500	2500		ug/Kg		100	77 - 125
Bromoform	2500	3220	*	ug/Kg		129	48 - 125
Bromomethane	2500	2870		ug/Kg		115	39 - 149
Carbon disulfide	2500	2380		ug/Kg		95	40 - 136
Carbon tetrachloride	2500	3210		ug/Kg		128	54 - 135
Chlorobenzene	2500	2550		ug/Kg		102	76 - 126
Dibromochloromethane	2500	2910		ug/Kg		116	64 - 120
Chloroethane	2500	2940		ug/Kg		117	23 - 150
Chloroform	2500	2490		ug/Kg		100	78 - 120

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

Lab Sample ID: LCS 480-457155/1-A
Matrix: Solid
Analysis Batch: 457158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	2500	3080		ug/Kg		123	61 - 124
cis-1,2-Dichloroethene	2500	2510		ug/Kg		100	79 - 124
Cyclohexane	2500	3020		ug/Kg		121	49 - 129
Bromodichloromethane	2500	2850		ug/Kg		114	71 - 121
Dichlorodifluoromethane	2500	3280		ug/Kg		131	10 - 150
Ethylbenzene	2500	2540		ug/Kg		101	78 - 124
1,2-Dibromoethane	2500	2320		ug/Kg		93	80 - 120
2-Butanone (MEK)	12500	12700		ug/Kg		102	54 - 149
4-Methyl-2-pentanone (MIBK)	12500	11900		ug/Kg		95	74 - 120
Isopropylbenzene	2500	2550		ug/Kg		102	76 - 120
Methyl acetate	5000	5120		ug/Kg		102	71 - 123
Methyl tert-butyl ether	2500	2330		ug/Kg		93	67 - 137
Methylcyclohexane	2500	2830		ug/Kg		113	50 - 130
Methylene Chloride	2500	2630		ug/Kg		105	75 - 118
m,p-Xylene	2500	2700		ug/Kg		108	77 - 125
n-Butylbenzene	2500	2790		ug/Kg		112	80 - 120
N-Propylbenzene	2500	2540		ug/Kg		102	76 - 120
o-Xylene	2500	2600		ug/Kg		104	80 - 124
sec-Butylbenzene	2500	2700		ug/Kg		108	79 - 120
Tetrachloroethene	2500	2640		ug/Kg		106	73 - 133
Toluene	2500	2420		ug/Kg		97	75 - 124
trans-1,2-Dichloroethene	2500	2480		ug/Kg		99	74 - 129
trans-1,3-Dichloropropene	2500	2600		ug/Kg		104	73 - 120
Trichloroethene	2500	2620		ug/Kg		105	75 - 131
Trichlorofluoromethane	2500	2680		ug/Kg		107	29 - 158
Vinyl chloride	2500	2930		ug/Kg		117	59 - 124
cis-1,3-Dichloropropene	2500	2700		ug/Kg		108	75 - 121
Styrene	2500	2550		ug/Kg		102	80 - 120
tert-Butylbenzene	2500	2680		ug/Kg		107	78 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*53 - 146*
Toluene-d8 (Surr)	*99*		*50 - 149*
4-Bromofluorobenzene (Surr)	*104*		*49 - 148*

Lab Sample ID: 480-148426-11 MS
Matrix: Solid
Analysis Batch: 457158

Client Sample ID: SB-17 (6-8)
Prep Type: Total/NA
Prep Batch: 457155

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		3100	4340		ug/Kg	☼	140	64 - 142
1,1,2,2-Tetrachloroethane	ND		3100	3740		ug/Kg	☼	121	56 - 128
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3100	3850		ug/Kg	☼	124	64 - 154
1,1,2-Trichloroethane	ND		3100	3540		ug/Kg	☼	114	63 - 133
1,1-Dichloroethane	ND		3100	3840		ug/Kg	☼	124	64 - 135
1,1-Dichloroethene	ND		3100	3650		ug/Kg	☼	118	62 - 145
1,2,4-Trichlorobenzene	ND		3100	4040		ug/Kg	☼	130	56 - 145

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

Lab Sample ID: 480-148426-11 MS
Matrix: Solid
Analysis Batch: 457158

Client Sample ID: SB-17 (6-8)
Prep Type: Total/NA
Prep Batch: 457155

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	ND		3100	3750		ug/Kg	☼	121	67 - 139
1,2-Dibromo-3-Chloropropane	ND	F1	3100	4020	F1	ug/Kg	☼	130	40 - 122
1,2-Dichlorobenzene	ND		3100	3890		ug/Kg	☼	125	68 - 133
1,2-Dichloroethane	ND		3100	3870		ug/Kg	☼	125	62 - 135
1,2-Dichloropropane	ND		3100	3770		ug/Kg	☼	122	67 - 139
1,3,5-Trimethylbenzene	ND		3100	3800		ug/Kg	☼	122	67 - 142
1,3-Dichlorobenzene	ND		3100	3800		ug/Kg	☼	122	68 - 136
1,4-Dichlorobenzene	ND		3100	3840		ug/Kg	☼	124	69 - 136
2-Hexanone	ND		15500	20200		ug/Kg	☼	130	44 - 130
4-Isopropyltoluene	ND		3100	4060		ug/Kg	☼	131	67 - 143
Acetone	ND	F1	15500	21200	F1	ug/Kg	☼	137	32 - 136
Benzene	ND		3100	3690		ug/Kg	☼	119	68 - 137
Bromoform	ND	* F1	3100	4050		ug/Kg	☼	131	43 - 134
Bromomethane	ND		3100	3850		ug/Kg	☼	124	38 - 137
Carbon disulfide	ND		3100	3190		ug/Kg	☼	103	52 - 139
Carbon tetrachloride	ND	F1	3100	4700	F1	ug/Kg	☼	152	60 - 150
Chlorobenzene	ND		3100	3940		ug/Kg	☼	127	67 - 136
Dibromochloromethane	ND		3100	3770		ug/Kg	☼	122	57 - 137
Chloroethane	ND		3100	3960		ug/Kg	☼	128	34 - 140
Chloroform	ND		3100	3710		ug/Kg	☼	120	64 - 133
Chloromethane	ND	F1	3100	4510	F1	ug/Kg	☼	146	47 - 143
cis-1,2-Dichloroethene	ND		3100	3290		ug/Kg	☼	106	65 - 137
Cyclohexane	ND		3100	4330		ug/Kg	☼	140	63 - 149
Bromodichloromethane	ND		3100	3930		ug/Kg	☼	127	62 - 136
Dichlorodifluoromethane	ND		3100	4590		ug/Kg	☼	148	26 - 150
Ethylbenzene	ND		3100	3730		ug/Kg	☼	120	67 - 136
1,2-Dibromoethane	ND		3100	3270		ug/Kg	☼	105	65 - 133
2-Butanone (MEK)	ND		15500	18300		ug/Kg	☼	118	46 - 132
4-Methyl-2-pentanone (MIBK)	ND		15500	18900		ug/Kg	☼	122	49 - 125
Isopropylbenzene	ND		3100	3890		ug/Kg	☼	125	65 - 147
Methyl acetate	ND	F1	6200	7580		ug/Kg	☼	122	50 - 124
Methyl tert-butyl ether	ND		3100	3640		ug/Kg	☼	118	60 - 130
Methylcyclohexane	ND		3100	4310		ug/Kg	☼	139	67 - 150
Methylene Chloride	ND		3100	3410		ug/Kg	☼	110	63 - 138
m,p-Xylene	ND		3100	3800		ug/Kg	☼	123	68 - 138
n-Butylbenzene	390	J	3100	4560		ug/Kg	☼	134	64 - 144
N-Propylbenzene	ND		3100	3920		ug/Kg	☼	126	64 - 144
o-Xylene	ND		3100	3890		ug/Kg	☼	126	67 - 135
sec-Butylbenzene	ND		3100	4160		ug/Kg	☼	134	66 - 145
Tetrachloroethene	ND		3100	3790		ug/Kg	☼	122	67 - 150
Toluene	ND		3100	3400		ug/Kg	☼	110	68 - 137
trans-1,2-Dichloroethene	ND		3100	3700		ug/Kg	☼	119	65 - 138
trans-1,3-Dichloropropene	ND		3100	3370		ug/Kg	☼	109	58 - 143
Trichloroethene	ND		3100	3780		ug/Kg	☼	122	69 - 143
Trichlorofluoromethane	ND		3100	4490		ug/Kg	☼	145	35 - 150
Vinyl chloride	ND		3100	4470		ug/Kg	☼	144	56 - 150
cis-1,3-Dichloropropene	ND		3100	3390		ug/Kg	☼	109	61 - 148
Styrene	ND		3100	3680		ug/Kg	☼	119	68 - 137

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

Lab Sample ID: 480-148426-11 MS
Matrix: Solid
Analysis Batch: 457158

Client Sample ID: SB-17 (6-8)
Prep Type: Total/NA
Prep Batch: 457155

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	ND		3100	3950		ug/Kg	☼	128	67 - 146

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*53 - 146*
Toluene-d8 (Surr)	*98*		*50 - 149*
4-Bromofluorobenzene (Surr)	*104*		*49 - 148*

Lab Sample ID: 480-148426-11 MSD
Matrix: Solid
Analysis Batch: 457158

Client Sample ID: SB-17 (6-8)
Prep Type: Total/NA
Prep Batch: 457155

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		3130	4280		ug/Kg	☼	137	64 - 142	1	20
1,1,2,2-Tetrachloroethane	ND		3130	3870		ug/Kg	☼	124	56 - 128	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3130	3920		ug/Kg	☼	125	64 - 154	2	20
1,1,2-Trichloroethane	ND		3130	3300		ug/Kg	☼	105	63 - 133	7	20
1,1-Dichloroethane	ND		3130	4080		ug/Kg	☼	130	64 - 135	6	20
1,1-Dichloroethene	ND		3130	3640		ug/Kg	☼	116	62 - 145	0	20
1,2,4-Trichlorobenzene	ND		3130	4430		ug/Kg	☼	141	56 - 145	9	20
1,2,4-Trimethylbenzene	ND		3130	3800		ug/Kg	☼	121	67 - 139	1	20
1,2-Dibromo-3-Chloropropane	ND	F1	3130	4350	F1	ug/Kg	☼	139	40 - 122	8	20
1,2-Dichlorobenzene	ND		3130	3690		ug/Kg	☼	118	68 - 133	5	20
1,2-Dichloroethane	ND		3130	4170		ug/Kg	☼	133	62 - 135	7	20
1,2-Dichloropropane	ND		3130	4020		ug/Kg	☼	128	67 - 139	6	20
1,3,5-Trimethylbenzene	ND		3130	4070		ug/Kg	☼	130	67 - 142	7	20
1,3-Dichlorobenzene	ND		3130	3840		ug/Kg	☼	123	68 - 136	1	20
1,4-Dichlorobenzene	ND		3130	3850		ug/Kg	☼	123	69 - 136	0	20
2-Hexanone	ND		15700	19400		ug/Kg	☼	124	44 - 130	4	20
4-Isopropyltoluene	ND		3130	4140		ug/Kg	☼	132	67 - 143	2	20
Acetone	ND	F1	15700	20700		ug/Kg	☼	132	32 - 136	3	20
Benzene	ND		3130	3920		ug/Kg	☼	125	68 - 137	6	20
Bromoform	ND	* F1	3130	4630	F1	ug/Kg	☼	148	43 - 134	13	20
Bromomethane	ND		3130	3960		ug/Kg	☼	126	38 - 137	3	20
Carbon disulfide	ND		3130	3370		ug/Kg	☼	108	52 - 139	6	20
Carbon tetrachloride	ND	F1	3130	4750	F1	ug/Kg	☼	152	60 - 150	1	20
Chlorobenzene	ND		3130	3990		ug/Kg	☼	127	67 - 136	1	20
Dibromochloromethane	ND		3130	3950		ug/Kg	☼	126	57 - 137	5	20
Chloroethane	ND		3130	4120		ug/Kg	☼	132	34 - 140	4	20
Chloroform	ND		3130	3660		ug/Kg	☼	117	64 - 133	1	20
Chloromethane	ND	F1	3130	4580	F1	ug/Kg	☼	146	47 - 143	1	20
cis-1,2-Dichloroethene	ND		3130	3670		ug/Kg	☼	117	65 - 137	11	20
Cyclohexane	ND		3130	4410		ug/Kg	☼	141	63 - 149	2	20
Bromodichloromethane	ND		3130	4080		ug/Kg	☼	130	62 - 136	4	20
Dichlorodifluoromethane	ND		3130	4360		ug/Kg	☼	139	26 - 150	5	20
Ethylbenzene	ND		3130	3800		ug/Kg	☼	122	67 - 136	2	20
1,2-Dibromoethane	ND		3130	3490		ug/Kg	☼	112	65 - 133	7	20
2-Butanone (MEK)	ND		15700	19700		ug/Kg	☼	126	46 - 132	7	20

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

Lab Sample ID: 480-148426-11 MSD
Matrix: Solid
Analysis Batch: 457158

Client Sample ID: SB-17 (6-8)
Prep Type: Total/NA
Prep Batch: 457155

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	ND		15700	19300		ug/Kg	☼	123	49 - 125	2	20
Isopropylbenzene	ND		3130	3880		ug/Kg	☼	124	65 - 147	0	20
Methyl acetate	ND	F1	6260	8170	F1	ug/Kg	☼	130	50 - 124	7	20
Methyl tert-butyl ether	ND		3130	3930		ug/Kg	☼	126	60 - 130	8	20
Methylcyclohexane	ND		3130	4400		ug/Kg	☼	140	67 - 150	2	20
Methylene Chloride	ND		3130	3710		ug/Kg	☼	118	63 - 138	8	20
m,p-Xylene	ND		3130	4000		ug/Kg	☼	128	68 - 138	5	20
n-Butylbenzene	390	J	3130	4500		ug/Kg	☼	131	64 - 144	1	20
N-Propylbenzene	ND		3130	3920		ug/Kg	☼	125	64 - 144	0	20
o-Xylene	ND		3130	3810		ug/Kg	☼	122	67 - 135	2	20
sec-Butylbenzene	ND		3130	4110		ug/Kg	☼	131	66 - 145	1	20
Tetrachloroethene	ND		3130	4070		ug/Kg	☼	130	67 - 150	7	20
Toluene	ND		3130	3400		ug/Kg	☼	109	68 - 137	0	20
trans-1,2-Dichloroethene	ND		3130	3880		ug/Kg	☼	124	65 - 138	5	20
trans-1,3-Dichloropropene	ND		3130	3340		ug/Kg	☼	107	58 - 143	1	20
Trichloroethene	ND		3130	4060		ug/Kg	☼	130	69 - 143	7	20
Trichlorofluoromethane	ND		3130	4230		ug/Kg	☼	135	35 - 150	6	20
Vinyl chloride	ND		3130	4350		ug/Kg	☼	139	56 - 150	3	20
cis-1,3-Dichloropropene	ND		3130	3480		ug/Kg	☼	111	61 - 148	2	20
Styrene	ND		3130	3690		ug/Kg	☼	118	68 - 137	0	20
tert-Butylbenzene	ND		3130	4110		ug/Kg	☼	131	67 - 146	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*53 - 146*
Toluene-d8 (Surr)	*101*		*50 - 149*
4-Bromofluorobenzene (Surr)	*104*		*49 - 148*

Lab Sample ID: MB 480-457179/2-A
Matrix: Solid
Analysis Batch: 457181

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
2-Hexanone	ND		25	2.5	ug/Kg		01/31/19 08:43	01/31/19 12:01	1

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

Lab Sample ID: MB 480-457179/2-A
Matrix: Solid
Analysis Batch: 457181

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Acetone	ND		25	4.2	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Benzene	ND		5.0	0.25	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Bromoform	ND		5.0	2.5	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Bromomethane	ND		5.0	0.45	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Chloroethane	ND		5.0	1.1	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Chloroform	ND		5.0	0.31	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Chloromethane	ND		5.0	0.30	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Cyclohexane	ND		5.0	0.70	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Methyl acetate	ND		25	3.0	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
m,p-Xylene	ND		10	0.84	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
o-Xylene	ND		5.0	0.65	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Toluene	ND		5.0	0.38	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Trichloroethene	ND		5.0	1.1	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Xylenes, Total	ND		10	0.84	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
Styrene	ND		5.0	0.25	ug/Kg		01/31/19 08:43	01/31/19 12:01	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		01/31/19 08:43	01/31/19 12:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 126*	*01/31/19 08:43*	*01/31/19 12:01*	*1*
Toluene-d8 (Surr)	*101*		*71 - 125*	*01/31/19 08:43*	*01/31/19 12:01*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*01/31/19 08:43*	*01/31/19 12:01*	*1*

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

Lab Sample ID: LCS 480-457179/1-A
Matrix: Solid
Analysis Batch: 457181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	50.2		ug/Kg		100	77 - 121
1,1,2,2-Tetrachloroethane	50.0	45.9		ug/Kg		92	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.7		ug/Kg		99	60 - 140
1,1,2-Trichloroethane	50.0	47.9		ug/Kg		96	78 - 122
1,1-Dichloroethane	50.0	49.5		ug/Kg		99	73 - 126
1,1-Dichloroethene	50.0	47.9		ug/Kg		96	59 - 125
1,2,4-Trichlorobenzene	50.0	44.8		ug/Kg		90	64 - 120
1,2,4-Trimethylbenzene	50.0	46.5		ug/Kg		93	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	44.5		ug/Kg		89	63 - 124
1,2-Dichlorobenzene	50.0	46.1		ug/Kg		92	75 - 120
1,2-Dichloroethane	50.0	50.2		ug/Kg		100	77 - 122
1,2-Dichloropropane	50.0	48.3		ug/Kg		97	75 - 124
1,3,5-Trimethylbenzene	50.0	46.5		ug/Kg		93	74 - 120
1,3-Dichlorobenzene	50.0	47.2		ug/Kg		94	74 - 120
1,4-Dichlorobenzene	50.0	46.3		ug/Kg		93	73 - 120
2-Hexanone	250	256		ug/Kg		102	59 - 130
4-Isopropyltoluene	50.0	46.5		ug/Kg		93	74 - 120
Acetone	250	257		ug/Kg		103	61 - 137
Benzene	50.0	50.0		ug/Kg		100	79 - 127
Bromoform	50.0	50.8		ug/Kg		102	68 - 126
Bromomethane	50.0	56.5		ug/Kg		113	37 - 149
Carbon disulfide	50.0	46.1		ug/Kg		92	64 - 131
Carbon tetrachloride	50.0	52.2		ug/Kg		104	75 - 135
Chlorobenzene	50.0	48.7		ug/Kg		97	76 - 124
Dibromochloromethane	50.0	50.1		ug/Kg		100	76 - 125
Chloroethane	50.0	49.2		ug/Kg		98	69 - 135
Chloroform	50.0	49.9		ug/Kg		100	80 - 120
Chloromethane	50.0	53.2		ug/Kg		106	63 - 127
cis-1,2-Dichloroethene	50.0	49.7		ug/Kg		99	81 - 120
Cyclohexane	50.0	46.8		ug/Kg		94	65 - 120
Bromodichloromethane	50.0	50.0		ug/Kg		100	80 - 122
Dichlorodifluoromethane	50.0	56.3		ug/Kg		113	57 - 142
Ethylbenzene	50.0	48.5		ug/Kg		97	80 - 120
1,2-Dibromoethane	50.0	48.4		ug/Kg		97	78 - 120
2-Butanone (MEK)	250	271		ug/Kg		108	70 - 134
4-Methyl-2-pentanone (MIBK)	250	252		ug/Kg		101	65 - 133
Isopropylbenzene	50.0	46.2		ug/Kg		92	72 - 120
Methyl acetate	100	102		ug/Kg		102	55 - 136
Methyl tert-butyl ether	50.0	50.6		ug/Kg		101	63 - 125
Methylcyclohexane	50.0	48.6		ug/Kg		97	60 - 140
Methylene Chloride	50.0	43.4		ug/Kg		87	61 - 127
m,p-Xylene	50.0	48.5		ug/Kg		97	70 - 130
n-Butylbenzene	50.0	46.0		ug/Kg		92	70 - 120
N-Propylbenzene	50.0	46.5		ug/Kg		93	70 - 130
o-Xylene	50.0	48.1		ug/Kg		96	70 - 130
sec-Butylbenzene	50.0	46.6		ug/Kg		93	74 - 120
Tetrachloroethene	50.0	48.9		ug/Kg		98	74 - 122

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

Lab Sample ID: LCS 480-457179/1-A
Matrix: Solid
Analysis Batch: 457181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	50.0	47.6		ug/Kg		95	74 - 128
trans-1,2-Dichloroethene	50.0	49.6		ug/Kg		99	78 - 126
trans-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	73 - 123
Trichloroethene	50.0	48.8		ug/Kg		98	77 - 129
Trichlorofluoromethane	50.0	53.2		ug/Kg		106	65 - 146
Vinyl chloride	50.0	54.5		ug/Kg		109	61 - 133
cis-1,3-Dichloropropene	50.0	49.3		ug/Kg		99	80 - 120
Styrene	50.0	46.7		ug/Kg		93	80 - 120
tert-Butylbenzene	50.0	46.0		ug/Kg		92	73 - 120

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

Lab Sample ID: MB 480-457311/2-A
Matrix: Solid
Analysis Batch: 457304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457311

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
2-Hexanone	ND		25	2.5	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Acetone	ND		25	4.2	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Benzene	ND		5.0	0.25	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Bromoform	ND		5.0	2.5	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Bromomethane	ND		5.0	0.45	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Chloroethane	ND		5.0	1.1	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Chloroform	ND		5.0	0.31	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Chloromethane	ND		5.0	0.30	ug/Kg		01/31/19 19:45	01/31/19 23:41	1

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

Lab Sample ID: MB 480-457311/2-A
Matrix: Solid
Analysis Batch: 457304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457311

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Cyclohexane	ND		5.0	0.70	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Methyl acetate	ND		25	3.0	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Methylene Chloride	2.46	J	5.0	2.3	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
m,p-Xylene	ND		10	0.84	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
o-Xylene	ND		5.0	0.65	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Toluene	ND		5.0	0.38	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Trichloroethene	ND		5.0	1.1	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Xylenes, Total	ND		10	0.84	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
Styrene	ND		5.0	0.25	ug/Kg		01/31/19 19:45	01/31/19 23:41	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		01/31/19 19:45	01/31/19 23:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*	*01/31/19 19:45*	*01/31/19 23:41*	*1*
Toluene-d8 (Surr)	*101*		*71 - 125*	*01/31/19 19:45*	*01/31/19 23:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*01/31/19 19:45*	*01/31/19 23:41*	*1*

Lab Sample ID: LCS 480-457311/1-A
Matrix: Solid
Analysis Batch: 457304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457311

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	48.7		ug/Kg		97	77 - 121
1,1,2,2-Tetrachloroethane	50.0	42.5		ug/Kg		85	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.1		ug/Kg		96	60 - 140
1,1,2-Trichloroethane	50.0	45.0		ug/Kg		90	78 - 122
1,1-Dichloroethane	50.0	47.7		ug/Kg		95	73 - 126
1,1-Dichloroethene	50.0	47.6		ug/Kg		95	59 - 125
1,2,4-Trichlorobenzene	50.0	44.0		ug/Kg		88	64 - 120

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

Lab Sample ID: LCS 480-457311/1-A
Matrix: Solid
Analysis Batch: 457304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457311

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	50.0	43.8		ug/Kg		88	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	40.0		ug/Kg		80	63 - 124
1,2-Dichlorobenzene	50.0	43.1		ug/Kg		86	75 - 120
1,2-Dichloroethane	50.0	47.5		ug/Kg		95	77 - 122
1,2-Dichloropropane	50.0	46.2		ug/Kg		92	75 - 124
1,3,5-Trimethylbenzene	50.0	44.3		ug/Kg		89	74 - 120
1,3-Dichlorobenzene	50.0	44.0		ug/Kg		88	74 - 120
1,4-Dichlorobenzene	50.0	43.8		ug/Kg		88	73 - 120
2-Hexanone	250	230		ug/Kg		92	59 - 130
4-Isopropyltoluene	50.0	44.5		ug/Kg		89	74 - 120
Acetone	250	234		ug/Kg		94	61 - 137
Benzene	50.0	48.3		ug/Kg		97	79 - 127
Bromoform	50.0	46.3		ug/Kg		93	68 - 126
Bromomethane	50.0	48.1		ug/Kg		96	37 - 149
Carbon disulfide	50.0	46.8		ug/Kg		94	64 - 131
Carbon tetrachloride	50.0	50.8		ug/Kg		102	75 - 135
Chlorobenzene	50.0	45.8		ug/Kg		92	76 - 124
Dibromochloromethane	50.0	46.3		ug/Kg		93	76 - 125
Chloroethane	50.0	38.9		ug/Kg		78	69 - 135
Chloroform	50.0	48.9		ug/Kg		98	80 - 120
Chloromethane	50.0	54.7		ug/Kg		109	63 - 127
cis-1,2-Dichloroethene	50.0	47.9		ug/Kg		96	81 - 120
Cyclohexane	50.0	44.1		ug/Kg		88	65 - 120
Bromodichloromethane	50.0	47.2		ug/Kg		94	80 - 122
Dichlorodifluoromethane	50.0	58.2		ug/Kg		116	57 - 142
Ethylbenzene	50.0	45.7		ug/Kg		91	80 - 120
1,2-Dibromoethane	50.0	45.0		ug/Kg		90	78 - 120
2-Butanone (MEK)	250	246		ug/Kg		98	70 - 134
4-Methyl-2-pentanone (MIBK)	250	228		ug/Kg		91	65 - 133
Isopropylbenzene	50.0	43.7		ug/Kg		87	72 - 120
Methyl acetate	100	91.9		ug/Kg		92	55 - 136
Methyl tert-butyl ether	50.0	48.1		ug/Kg		96	63 - 125
Methylcyclohexane	50.0	46.1		ug/Kg		92	60 - 140
Methylene Chloride	50.0	43.9		ug/Kg		88	61 - 127
m,p-Xylene	50.0	45.7		ug/Kg		91	70 - 130
n-Butylbenzene	50.0	43.5		ug/Kg		87	70 - 120
N-Propylbenzene	50.0	43.8		ug/Kg		88	70 - 130
o-Xylene	50.0	45.5		ug/Kg		91	70 - 130
sec-Butylbenzene	50.0	44.3		ug/Kg		89	74 - 120
Tetrachloroethene	50.0	46.7		ug/Kg		93	74 - 122
Toluene	50.0	45.8		ug/Kg		92	74 - 128
trans-1,2-Dichloroethene	50.0	49.1		ug/Kg		98	78 - 126
trans-1,3-Dichloropropene	50.0	44.9		ug/Kg		90	73 - 123
Trichloroethene	50.0	48.0		ug/Kg		96	77 - 129
Trichlorofluoromethane	50.0	48.5		ug/Kg		97	65 - 146
Vinyl chloride	50.0	54.8		ug/Kg		110	61 - 133
cis-1,3-Dichloropropene	50.0	46.2		ug/Kg		92	80 - 120
Styrene	50.0	43.5		ug/Kg		87	80 - 120

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

Lab Sample ID: LCS 480-457311/1-A
Matrix: Solid
Analysis Batch: 457304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457311

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
tert-Butylbenzene			50.0	43.9		ug/Kg		88	73 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*
Toluene-d8 (Surr)	*102*		*71 - 125*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*

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

Lab Sample ID: MB 480-457005/1-A
Matrix: Solid
Analysis Batch: 457115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457005

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		170	24	ug/Kg		01/29/19 14:22	01/30/19 14:47	1
Acenaphthylene	ND		170	21	ug/Kg		01/29/19 14:22	01/30/19 14:47	1
Anthracene	ND		170	41	ug/Kg		01/29/19 14:22	01/30/19 14:47	1
Benzo[a]anthracene	ND		170	17	ug/Kg		01/29/19 14:22	01/30/19 14:47	1
Benzo[a]pyrene	ND		170	24	ug/Kg		01/29/19 14:22	01/30/19 14:47	1
Benzo[b]fluoranthene	ND		170	26	ug/Kg		01/29/19 14:22	01/30/19 14:47	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		01/29/19 14:22	01/30/19 14:47	1
Benzo[k]fluoranthene	ND		170	21	ug/Kg		01/29/19 14:22	01/30/19 14:47	1
Chrysene	ND		170	37	ug/Kg		01/29/19 14:22	01/30/19 14:47	1
Dibenz(a,h)anthracene	ND		170	29	ug/Kg		01/29/19 14:22	01/30/19 14:47	1
Fluoranthene	ND		170	18	ug/Kg		01/29/19 14:22	01/30/19 14:47	1
Fluorene	ND		170	19	ug/Kg		01/29/19 14:22	01/30/19 14:47	1
Indeno[1,2,3-cd]pyrene	ND		170	20	ug/Kg		01/29/19 14:22	01/30/19 14:47	1
Naphthalene	ND		170	21	ug/Kg		01/29/19 14:22	01/30/19 14:47	1
Pyrene	ND		170	19	ug/Kg		01/29/19 14:22	01/30/19 14:47	1
Phenanthrene	ND		170	24	ug/Kg		01/29/19 14:22	01/30/19 14:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*54 - 120*	*01/29/19 14:22*	*01/30/19 14:47*	*1*
2-Fluorobiphenyl	*88*		*60 - 120*	*01/29/19 14:22*	*01/30/19 14:47*	*1*
2-Fluorophenol (Surr)	*90*		*52 - 120*	*01/29/19 14:22*	*01/30/19 14:47*	*1*
Phenol-d5 (Surr)	*85*		*54 - 120*	*01/29/19 14:22*	*01/30/19 14:47*	*1*
p-Terphenyl-d14 (Surr)	*106*		*65 - 121*	*01/29/19 14:22*	*01/30/19 14:47*	*1*
Nitrobenzene-d5 (Surr)	*86*		*53 - 120*	*01/29/19 14:22*	*01/30/19 14:47*	*1*

Lab Sample ID: LCS 480-457005/2-A
Matrix: Solid
Analysis Batch: 457115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457005

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene			1660	1560		ug/Kg		94	62 - 120		
Acenaphthylene			1660	1570		ug/Kg		95	58 - 121		
Anthracene			1660	1820		ug/Kg		109	62 - 120		

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

Lab Sample ID: LCS 480-457005/2-A
Matrix: Solid
Analysis Batch: 457115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457005

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	1660	1640		ug/Kg		99	65 - 120
Benzo[a]pyrene	1660	1850		ug/Kg		111	64 - 120
Benzo[b]fluoranthene	1660	1710		ug/Kg		103	64 - 120
Benzo[g,h,i]perylene	1660	1840		ug/Kg		111	45 - 145
Benzo[k]fluoranthene	1660	1940		ug/Kg		117	65 - 120
Chrysene	1660	1780		ug/Kg		107	64 - 120
Dibenz(a,h)anthracene	1660	1780		ug/Kg		107	54 - 132
Fluoranthene	1660	1800		ug/Kg		108	62 - 120
Fluorene	1660	1620		ug/Kg		97	63 - 120
Indeno[1,2,3-cd]pyrene	1660	1810		ug/Kg		109	56 - 134
Naphthalene	1660	1500		ug/Kg		90	55 - 120
Pyrene	1660	1780		ug/Kg		107	61 - 133
Phenanthrene	1660	1830		ug/Kg		110	60 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*104*		*54 - 120*
2-Fluorobiphenyl	*95*		*60 - 120*
2-Fluorophenol (Surr)	*87*		*52 - 120*
Phenol-d5 (Surr)	*91*		*54 - 120*
p-Terphenyl-d14 (Surr)	*112*		*65 - 121*
Nitrobenzene-d5 (Surr)	*95*		*53 - 120*

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

Lab Sample ID: MB 480-457067/1-A
Matrix: Solid
Analysis Batch: 457195

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457067

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.039	mg/Kg		01/30/19 08:35	01/31/19 12:35	1
PCB-1221	ND		0.20	0.039	mg/Kg		01/30/19 08:35	01/31/19 12:35	1
PCB-1232	ND		0.20	0.039	mg/Kg		01/30/19 08:35	01/31/19 12:35	1
PCB-1242	ND		0.20	0.039	mg/Kg		01/30/19 08:35	01/31/19 12:35	1
PCB-1248	ND		0.20	0.039	mg/Kg		01/30/19 08:35	01/31/19 12:35	1
PCB-1254	ND		0.20	0.093	mg/Kg		01/30/19 08:35	01/31/19 12:35	1
PCB-1260	ND		0.20	0.093	mg/Kg		01/30/19 08:35	01/31/19 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*108*		*60 - 154*	*01/30/19 08:35*	*01/31/19 12:35*	*1*
DCB Decachlorobiphenyl	*111*		*65 - 174*	*01/30/19 08:35*	*01/31/19 12:35*	*1*

Lab Sample ID: LCS 480-457067/2-A
Matrix: Solid
Analysis Batch: 457195

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457067

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.17	2.12		mg/Kg		97	51 - 185

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

Lab Sample ID: LCS 480-457067/2-A
Matrix: Solid
Analysis Batch: 457195

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457067

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1260			2.17	2.28		mg/Kg		105	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*102*		*60 - 154*
DCB Decachlorobiphenyl	*109*		*65 - 174*

Lab Sample ID: 480-148426-1 MS
Matrix: Solid
Analysis Batch: 457195

Client Sample ID: SB-2 (6-8)
Prep Type: Total/NA
Prep Batch: 457067

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		2.20	2.10		mg/Kg	☼	95	50 - 177		
PCB-1260	ND		2.20	2.89		mg/Kg	☼	131	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*94*		*60 - 154*
DCB Decachlorobiphenyl	*122*		*65 - 174*

Lab Sample ID: 480-148426-1 MSD
Matrix: Solid
Analysis Batch: 457195

Client Sample ID: SB-2 (6-8)
Prep Type: Total/NA
Prep Batch: 457067

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.15	2.12		mg/Kg	☼	99	50 - 177	1	50
PCB-1260	ND		2.15	2.92		mg/Kg	☼	136	33 - 200	1	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*94*		*60 - 154*
DCB Decachlorobiphenyl	*125*		*65 - 174*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-457210/1-A
Matrix: Solid
Analysis Batch: 457502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457210

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.40	mg/Kg		02/01/19 08:10	02/01/19 20:45	1
Barium	ND		0.50	0.11	mg/Kg		02/01/19 08:10	02/01/19 20:45	1
Cadmium	ND		0.20	0.030	mg/Kg		02/01/19 08:10	02/01/19 20:45	1
Chromium	ND		0.50	0.20	mg/Kg		02/01/19 08:10	02/01/19 20:45	1
Lead	0.330	J	1.0	0.24	mg/Kg		02/01/19 08:10	02/01/19 20:45	1
Selenium	ND		4.0	0.40	mg/Kg		02/01/19 08:10	02/01/19 20:45	1
Silver	ND		0.60	0.20	mg/Kg		02/01/19 08:10	02/01/19 20:45	1

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

Lab Sample ID: LCSSRM 480-457210/2-A
Matrix: Solid
Analysis Batch: 457502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457210

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	171	145.7		mg/Kg		85.2	66.1 - 122.2
Barium	272	236.5		mg/Kg		86.9	71.7 - 119.5
Cadmium	225	189.2		mg/Kg		84.1	70.2 - 117.3
Chromium	144	120.1		mg/Kg		83.4	66.1 - 122.9
Lead	111	116.4		mg/Kg		104.8	71.0 - 128.8
Selenium	206	176.1		mg/Kg		85.5	63.6 - 122.3
Silver	45.5	37.56		mg/Kg		82.5	66.2 - 124.2

Lab Sample ID: 480-148426-5 MS
Matrix: Solid
Analysis Batch: 457502

Client Sample ID: SB-10 (2.5-4.5)
Prep Type: Total/NA
Prep Batch: 457210

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	9.3		53.3	57.80		mg/Kg	☼	91	75 - 125
Barium	169		53.3	211.8		mg/Kg	☼	81	75 - 125
Cadmium	0.65		53.3	48.64		mg/Kg	☼	90	75 - 125
Chromium	20.3		53.3	70.61		mg/Kg	☼	94	75 - 125
Lead	518	F2 B	53.3	516.1	4	mg/Kg	☼	-3	75 - 125
Selenium	1.2	J	53.3	47.38		mg/Kg	☼	87	75 - 125
Silver	ND		13.3	11.51		mg/Kg	☼	86	75 - 125

Lab Sample ID: 480-148426-5 MSD
Matrix: Solid
Analysis Batch: 457502

Client Sample ID: SB-10 (2.5-4.5)
Prep Type: Total/NA
Prep Batch: 457210

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	9.3		51.0	56.07		mg/Kg	☼	92	75 - 125	3	20
Barium	169		51.0	212.3		mg/Kg	☼	86	75 - 125	0	20
Cadmium	0.65		51.0	46.64		mg/Kg	☼	90	75 - 125	4	20
Chromium	20.3		51.0	63.61		mg/Kg	☼	85	75 - 125	10	20
Lead	518	F2 B	51.0	408.0	4 F2	mg/Kg	☼	-215	75 - 125	23	20
Selenium	1.2	J	51.0	47.22		mg/Kg	☼	90	75 - 125	0	20
Silver	ND		12.7	10.87		mg/Kg	☼	85	75 - 125	6	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-457225/1-A
Matrix: Solid
Analysis Batch: 457271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019	0.0079	mg/Kg		01/31/19 11:25	01/31/19 13:29	1

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

Lab Sample ID: LCSSRM 480-457225/2-A ^10
Matrix: Solid
Analysis Batch: 457271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457225

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			12.0	12.49		mg/Kg		104.1	57.3 - 133.3		

Lab Sample ID: 480-148426-3 MS
Matrix: Solid
Analysis Batch: 457271

Client Sample ID: SB-7 (2.5-4.5)
Prep Type: Total/NA
Prep Batch: 457225

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.27		0.412	0.664		mg/Kg	☼	95	80 - 120		

Lab Sample ID: 480-148426-3 MSD
Matrix: Solid
Analysis Batch: 457271

Client Sample ID: SB-7 (2.5-4.5)
Prep Type: Total/NA
Prep Batch: 457225

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.27		0.403	0.716		mg/Kg	☼	110	80 - 120	8	20

GC/MS VOA

Prep Batch: 457155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-1	SB-2 (6-8)	Total/NA	Solid	5035A_H	
480-148426-6	SB-11 (6-8)	Total/NA	Solid	5035A_H	
480-148426-11	SB-17 (6-8)	Total/NA	Solid	5035A_H	
MB 480-457155/2-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-457155/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	
480-148426-11 MS	SB-17 (6-8)	Total/NA	Solid	5035A_H	
480-148426-11 MSD	SB-17 (6-8)	Total/NA	Solid	5035A_H	

Analysis Batch: 457158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-1	SB-2 (6-8)	Total/NA	Solid	8260C	457155
480-148426-6	SB-11 (6-8)	Total/NA	Solid	8260C	457155
480-148426-11	SB-17 (6-8)	Total/NA	Solid	8260C	457155
MB 480-457155/2-A	Method Blank	Total/NA	Solid	8260C	457155
LCS 480-457155/1-A	Lab Control Sample	Total/NA	Solid	8260C	457155
480-148426-11 MS	SB-17 (6-8)	Total/NA	Solid	8260C	457155
480-148426-11 MSD	SB-17 (6-8)	Total/NA	Solid	8260C	457155

Prep Batch: 457179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-5	SB-10 (2.5-4.5)	Total/NA	Solid	5035A_L	
MB 480-457179/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-457179/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 457181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-5	SB-10 (2.5-4.5)	Total/NA	Solid	8260C	457179
MB 480-457179/2-A	Method Blank	Total/NA	Solid	8260C	457179
LCS 480-457179/1-A	Lab Control Sample	Total/NA	Solid	8260C	457179

Analysis Batch: 457304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-4	SB-8 (2-4)	Total/NA	Solid	8260C	457311
MB 480-457311/2-A	Method Blank	Total/NA	Solid	8260C	457311
LCS 480-457311/1-A	Lab Control Sample	Total/NA	Solid	8260C	457311

Prep Batch: 457311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-4	SB-8 (2-4)	Total/NA	Solid	5035A_L	
MB 480-457311/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-457311/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

GC/MS Semi VOA

Prep Batch: 457005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-1	SB-2 (6-8)	Total/NA	Solid	3550C	
480-148426-2	SB-4 (2-4)	Total/NA	Solid	3550C	
480-148426-3	SB-7 (2.5-4.5)	Total/NA	Solid	3550C	
480-148426-4	SB-8 (2-4)	Total/NA	Solid	3550C	

GC/MS Semi VOA (Continued)

Prep Batch: 457005 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-5	SB-10 (2.5-4.5)	Total/NA	Solid	3550C	
480-148426-6	SB-11 (6-8)	Total/NA	Solid	3550C	
480-148426-7	SB-13 (2-4)	Total/NA	Solid	3550C	
480-148426-8	SB-14 (2-4)	Total/NA	Solid	3550C	
480-148426-9	SB-15 (2-5)	Total/NA	Solid	3550C	
480-148426-10	SB-16 (3-5)	Total/NA	Solid	3550C	
480-148426-11	SB-17 (6-8)	Total/NA	Solid	3550C	
480-148426-12	SB-20 (3-6)	Total/NA	Solid	3550C	
480-148426-13 - DL	SB-21 (2-4)	Total/NA	Solid	3550C	
480-148426-13	SB-21 (2-4)	Total/NA	Solid	3550C	
MB 480-457005/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-457005/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 457115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-1	SB-2 (6-8)	Total/NA	Solid	8270D	457005
480-148426-2	SB-4 (2-4)	Total/NA	Solid	8270D	457005
480-148426-3	SB-7 (2.5-4.5)	Total/NA	Solid	8270D	457005
480-148426-4	SB-8 (2-4)	Total/NA	Solid	8270D	457005
480-148426-5	SB-10 (2.5-4.5)	Total/NA	Solid	8270D	457005
480-148426-6	SB-11 (6-8)	Total/NA	Solid	8270D	457005
480-148426-7	SB-13 (2-4)	Total/NA	Solid	8270D	457005
480-148426-8	SB-14 (2-4)	Total/NA	Solid	8270D	457005
480-148426-9	SB-15 (2-5)	Total/NA	Solid	8270D	457005
480-148426-10	SB-16 (3-5)	Total/NA	Solid	8270D	457005
480-148426-11	SB-17 (6-8)	Total/NA	Solid	8270D	457005
480-148426-12	SB-20 (3-6)	Total/NA	Solid	8270D	457005
480-148426-13	SB-21 (2-4)	Total/NA	Solid	8270D	457005
MB 480-457005/1-A	Method Blank	Total/NA	Solid	8270D	457005
LCS 480-457005/2-A	Lab Control Sample	Total/NA	Solid	8270D	457005

Analysis Batch: 457255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-13 - DL	SB-21 (2-4)	Total/NA	Solid	8270D	457005

GC Semi VOA

Prep Batch: 457067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-1	SB-2 (6-8)	Total/NA	Solid	3550C	
480-148426-2	SB-4 (2-4)	Total/NA	Solid	3550C	
480-148426-8	SB-14 (2-4)	Total/NA	Solid	3550C	
480-148426-9	SB-15 (2-5)	Total/NA	Solid	3550C	
480-148426-11	SB-17 (6-8)	Total/NA	Solid	3550C	
MB 480-457067/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-457067/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-148426-1 MS	SB-2 (6-8)	Total/NA	Solid	3550C	
480-148426-1 MSD	SB-2 (6-8)	Total/NA	Solid	3550C	

GC Semi VOA (Continued)

Analysis Batch: 457195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-1	SB-2 (6-8)	Total/NA	Solid	8082A	457067
480-148426-2	SB-4 (2-4)	Total/NA	Solid	8082A	457067
480-148426-8	SB-14 (2-4)	Total/NA	Solid	8082A	457067
480-148426-9	SB-15 (2-5)	Total/NA	Solid	8082A	457067
480-148426-11	SB-17 (6-8)	Total/NA	Solid	8082A	457067
MB 480-457067/1-A	Method Blank	Total/NA	Solid	8082A	457067
LCS 480-457067/2-A	Lab Control Sample	Total/NA	Solid	8082A	457067
480-148426-1 MS	SB-2 (6-8)	Total/NA	Solid	8082A	457067
480-148426-1 MSD	SB-2 (6-8)	Total/NA	Solid	8082A	457067

Metals

Prep Batch: 457210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-2	SB-4 (2-4)	Total/NA	Solid	3050B	
480-148426-3	SB-7 (2.5-4.5)	Total/NA	Solid	3050B	
480-148426-4	SB-8 (2-4)	Total/NA	Solid	3050B	
480-148426-5	SB-10 (2.5-4.5)	Total/NA	Solid	3050B	
480-148426-7	SB-13 (2-4)	Total/NA	Solid	3050B	
480-148426-8	SB-14 (2-4)	Total/NA	Solid	3050B	
480-148426-9	SB-15 (2-5)	Total/NA	Solid	3050B	
480-148426-10	SB-16 (3-5)	Total/NA	Solid	3050B	
480-148426-12	SB-20 (3-6)	Total/NA	Solid	3050B	
480-148426-13	SB-21 (2-4)	Total/NA	Solid	3050B	
MB 480-457210/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-457210/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-148426-5 MS	SB-10 (2.5-4.5)	Total/NA	Solid	3050B	
480-148426-5 MSD	SB-10 (2.5-4.5)	Total/NA	Solid	3050B	

Prep Batch: 457225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-2	SB-4 (2-4)	Total/NA	Solid	7471B	
480-148426-3	SB-7 (2.5-4.5)	Total/NA	Solid	7471B	
480-148426-4	SB-8 (2-4)	Total/NA	Solid	7471B	
480-148426-5	SB-10 (2.5-4.5)	Total/NA	Solid	7471B	
480-148426-7	SB-13 (2-4)	Total/NA	Solid	7471B	
480-148426-8	SB-14 (2-4)	Total/NA	Solid	7471B	
480-148426-9	SB-15 (2-5)	Total/NA	Solid	7471B	
480-148426-10	SB-16 (3-5)	Total/NA	Solid	7471B	
480-148426-12	SB-20 (3-6)	Total/NA	Solid	7471B	
480-148426-13	SB-21 (2-4)	Total/NA	Solid	7471B	
MB 480-457225/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-457225/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-148426-3 MS	SB-7 (2.5-4.5)	Total/NA	Solid	7471B	
480-148426-3 MSD	SB-7 (2.5-4.5)	Total/NA	Solid	7471B	

Analysis Batch: 457271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-2	SB-4 (2-4)	Total/NA	Solid	7471B	457225
480-148426-3	SB-7 (2.5-4.5)	Total/NA	Solid	7471B	457225

Metals (Continued)

Analysis Batch: 457271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-4	SB-8 (2-4)	Total/NA	Solid	7471B	457225
480-148426-5	SB-10 (2.5-4.5)	Total/NA	Solid	7471B	457225
480-148426-7	SB-13 (2-4)	Total/NA	Solid	7471B	457225
480-148426-8	SB-14 (2-4)	Total/NA	Solid	7471B	457225
480-148426-9	SB-15 (2-5)	Total/NA	Solid	7471B	457225
480-148426-10	SB-16 (3-5)	Total/NA	Solid	7471B	457225
480-148426-12	SB-20 (3-6)	Total/NA	Solid	7471B	457225
480-148426-13	SB-21 (2-4)	Total/NA	Solid	7471B	457225
MB 480-457225/1-A	Method Blank	Total/NA	Solid	7471B	457225
LCSSRM 480-457225/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	457225
480-148426-3 MS	SB-7 (2.5-4.5)	Total/NA	Solid	7471B	457225
480-148426-3 MSD	SB-7 (2.5-4.5)	Total/NA	Solid	7471B	457225

Analysis Batch: 457502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-2	SB-4 (2-4)	Total/NA	Solid	6010C	457210
480-148426-3	SB-7 (2.5-4.5)	Total/NA	Solid	6010C	457210
480-148426-4	SB-8 (2-4)	Total/NA	Solid	6010C	457210
480-148426-5	SB-10 (2.5-4.5)	Total/NA	Solid	6010C	457210
480-148426-7	SB-13 (2-4)	Total/NA	Solid	6010C	457210
480-148426-8	SB-14 (2-4)	Total/NA	Solid	6010C	457210
480-148426-9	SB-15 (2-5)	Total/NA	Solid	6010C	457210
480-148426-10	SB-16 (3-5)	Total/NA	Solid	6010C	457210
480-148426-12	SB-20 (3-6)	Total/NA	Solid	6010C	457210
480-148426-13	SB-21 (2-4)	Total/NA	Solid	6010C	457210
MB 480-457210/1-A	Method Blank	Total/NA	Solid	6010C	457210
LCSSRM 480-457210/2-A	Lab Control Sample	Total/NA	Solid	6010C	457210
480-148426-5 MS	SB-10 (2.5-4.5)	Total/NA	Solid	6010C	457210
480-148426-5 MSD	SB-10 (2.5-4.5)	Total/NA	Solid	6010C	457210

Analysis Batch: 457973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-8	SB-14 (2-4)	Total/NA	Solid	6010C	457210
480-148426-12	SB-20 (3-6)	Total/NA	Solid	6010C	457210

General Chemistry

Analysis Batch: 457764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-1	SB-2 (6-8)	Total/NA	Solid	Moisture	
480-148426-2	SB-4 (2-4)	Total/NA	Solid	Moisture	
480-148426-3	SB-7 (2.5-4.5)	Total/NA	Solid	Moisture	
480-148426-4	SB-8 (2-4)	Total/NA	Solid	Moisture	
480-148426-5	SB-10 (2.5-4.5)	Total/NA	Solid	Moisture	
480-148426-6	SB-11 (6-8)	Total/NA	Solid	Moisture	
480-148426-7	SB-13 (2-4)	Total/NA	Solid	Moisture	
480-148426-8	SB-14 (2-4)	Total/NA	Solid	Moisture	
480-148426-9	SB-15 (2-5)	Total/NA	Solid	Moisture	
480-148426-10	SB-16 (3-5)	Total/NA	Solid	Moisture	
480-148426-11	SB-17 (6-8)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 457764 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148426-12	SB-20 (3-6)	Total/NA	Solid	Moisture	
480-148426-13	SB-21 (2-4)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-2 (6-8)
Date Collected: 01/24/19 09:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457764	02/05/19 10:33	CMK	TAL BUF

Client Sample ID: SB-2 (6-8)
Date Collected: 01/24/19 09:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-1
Matrix: Solid
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			457155	01/31/19 07:37	AMM	TAL BUF
Total/NA	Analysis	8260C		1	457158	01/31/19 14:01	AMM	TAL BUF
Total/NA	Prep	3550C			457005	01/29/19 14:22	SGD	TAL BUF
Total/NA	Analysis	8270D		5	457115	01/30/19 18:37	RJS	TAL BUF
Total/NA	Prep	3550C			457067	01/30/19 08:35	SMP	TAL BUF
Total/NA	Analysis	8082A		1	457195	01/31/19 13:39	W1T	TAL BUF

Client Sample ID: SB-4 (2-4)
Date Collected: 01/24/19 10:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457764	02/05/19 10:33	CMK	TAL BUF

Client Sample ID: SB-4 (2-4)
Date Collected: 01/24/19 10:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-2
Matrix: Solid
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			457005	01/29/19 14:22	SGD	TAL BUF
Total/NA	Analysis	8270D		1	457115	01/30/19 19:03	RJS	TAL BUF
Total/NA	Prep	3550C			457067	01/30/19 08:35	SMP	TAL BUF
Total/NA	Analysis	8082A		1	457195	01/31/19 14:59	W1T	TAL BUF
Total/NA	Prep	3050B			457210	02/01/19 08:10	JAK	TAL BUF
Total/NA	Analysis	6010C		1	457502	02/01/19 20:53	AMH	TAL BUF
Total/NA	Prep	7471B			457225	01/31/19 11:25	BMB	TAL BUF
Total/NA	Analysis	7471B		1	457271	01/31/19 13:37	BMB	TAL BUF

Client Sample ID: SB-7 (2.5-4.5)
Date Collected: 01/24/19 12:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457764	02/05/19 10:33	CMK	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-7 (2.5-4.5)

Lab Sample ID: 480-148426-3
Date Collected: 01/24/19 12:00
Matrix: Solid
Date Received: 01/29/19 11:52
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			457005	01/29/19 14:22	SGD	TAL BUF
Total/NA	Analysis	8270D		5	457115	01/30/19 19:28	RJS	TAL BUF
Total/NA	Prep	3050B			457210	02/01/19 08:10	JAK	TAL BUF
Total/NA	Analysis	6010C		1	457502	02/01/19 20:57	AMH	TAL BUF
Total/NA	Prep	7471B			457225	01/31/19 11:25	BMB	TAL BUF
Total/NA	Analysis	7471B		1	457271	01/31/19 13:38	BMB	TAL BUF

Client Sample ID: SB-8 (2-4)

Lab Sample ID: 480-148426-4
Date Collected: 01/24/19 12:30
Matrix: Solid
Date Received: 01/29/19 11:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457764	02/05/19 10:33	CMK	TAL BUF

Client Sample ID: SB-8 (2-4)

Lab Sample ID: 480-148426-4
Date Collected: 01/24/19 12:30
Matrix: Solid
Date Received: 01/29/19 11:52
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			457311	01/31/19 19:45	AEM	TAL BUF
Total/NA	Analysis	8260C		1	457304	02/01/19 00:49	CDC	TAL BUF
Total/NA	Prep	3550C			457005	01/29/19 14:22	SGD	TAL BUF
Total/NA	Analysis	8270D		5	457115	01/30/19 19:54	RJS	TAL BUF
Total/NA	Prep	3050B			457210	02/01/19 08:10	JAK	TAL BUF
Total/NA	Analysis	6010C		1	457502	02/01/19 21:12	AMH	TAL BUF
Total/NA	Prep	7471B			457225	01/31/19 11:25	BMB	TAL BUF
Total/NA	Analysis	7471B		1	457271	01/31/19 13:46	BMB	TAL BUF

Client Sample ID: SB-10 (2.5-4.5)

Lab Sample ID: 480-148426-5
Date Collected: 01/24/19 13:30
Matrix: Solid
Date Received: 01/29/19 11:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457764	02/05/19 10:33	CMK	TAL BUF

Client Sample ID: SB-10 (2.5-4.5)

Lab Sample ID: 480-148426-5
Date Collected: 01/24/19 13:30
Matrix: Solid
Date Received: 01/29/19 11:52
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			457179	01/31/19 08:43	CDC	TAL BUF
Total/NA	Analysis	8260C		1	457181	01/31/19 13:01	AEM	TAL BUF
Total/NA	Prep	3550C			457005	01/29/19 14:22	SGD	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-10 (2.5-4.5)

Lab Sample ID: 480-148426-5
Date Collected: 01/24/19 13:30
Matrix: Solid
Date Received: 01/29/19 11:52
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		1	457115	01/30/19 20:19	RJS	TAL BUF
Total/NA	Prep	3050B			457210	02/01/19 08:10	JAK	TAL BUF
Total/NA	Analysis	6010C		1	457502	02/01/19 21:15	AMH	TAL BUF
Total/NA	Prep	7471B			457225	01/31/19 11:25	BMB	TAL BUF
Total/NA	Analysis	7471B		1	457271	01/31/19 13:47	BMB	TAL BUF

Client Sample ID: SB-11 (6-8)

Lab Sample ID: 480-148426-6
Date Collected: 01/24/19 14:00
Matrix: Solid
Date Received: 01/29/19 11:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457764	02/05/19 10:33	CMK	TAL BUF

Client Sample ID: SB-11 (6-8)

Lab Sample ID: 480-148426-6
Date Collected: 01/24/19 14:00
Matrix: Solid
Date Received: 01/29/19 11:52
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			457155	01/31/19 07:37	AMM	TAL BUF
Total/NA	Analysis	8260C		1	457158	01/31/19 14:27	AMM	TAL BUF
Total/NA	Prep	3550C			457005	01/29/19 14:22	SGD	TAL BUF
Total/NA	Analysis	8270D		1	457115	01/30/19 20:45	RJS	TAL BUF

Client Sample ID: SB-13 (2-4)

Lab Sample ID: 480-148426-7
Date Collected: 01/25/19 09:30
Matrix: Solid
Date Received: 01/29/19 11:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457764	02/05/19 10:33	CMK	TAL BUF

Client Sample ID: SB-13 (2-4)

Lab Sample ID: 480-148426-7
Date Collected: 01/25/19 09:30
Matrix: Solid
Date Received: 01/29/19 11:52
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			457005	01/29/19 14:22	SGD	TAL BUF
Total/NA	Analysis	8270D		5	457115	01/30/19 21:10	RJS	TAL BUF
Total/NA	Prep	3050B			457210	02/01/19 08:10	JAK	TAL BUF
Total/NA	Analysis	6010C		1	457502	02/01/19 21:34	AMH	TAL BUF
Total/NA	Prep	7471B			457225	01/31/19 11:25	BMB	TAL BUF
Total/NA	Analysis	7471B		1	457271	01/31/19 13:48	BMB	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-14 (2-4)
Date Collected: 01/25/19 10:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457764	02/05/19 10:33	CMK	TAL BUF

Client Sample ID: SB-14 (2-4)
Date Collected: 01/25/19 10:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-8
Matrix: Solid
Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			457005	01/29/19 14:22	SGD	TAL BUF
Total/NA	Analysis	8270D		5	457115	01/30/19 21:35	RJS	TAL BUF
Total/NA	Prep	3550C			457067	01/30/19 08:35	SMP	TAL BUF
Total/NA	Analysis	8082A		1	457195	01/31/19 15:14	W1T	TAL BUF
Total/NA	Prep	3050B			457210	02/01/19 08:10	JAK	TAL BUF
Total/NA	Analysis	6010C		1	457502	02/01/19 21:38	AMH	TAL BUF
Total/NA	Prep	3050B			457210	02/01/19 08:10	JAK	TAL BUF
Total/NA	Analysis	6010C		5	457973	02/06/19 10:55	LMH	TAL BUF
Total/NA	Prep	7471B			457225	01/31/19 11:25	BMB	TAL BUF
Total/NA	Analysis	7471B		1	457271	01/31/19 13:49	BMB	TAL BUF

Client Sample ID: SB-15 (2-5)
Date Collected: 01/25/19 10:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457764	02/05/19 10:33	CMK	TAL BUF

Client Sample ID: SB-15 (2-5)
Date Collected: 01/25/19 10:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-9
Matrix: Solid
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			457005	01/29/19 14:22	SGD	TAL BUF
Total/NA	Analysis	8270D		5	457115	01/30/19 22:01	RJS	TAL BUF
Total/NA	Prep	3550C			457067	01/30/19 08:35	SMP	TAL BUF
Total/NA	Analysis	8082A		1	457195	01/31/19 15:30	W1T	TAL BUF
Total/NA	Prep	3050B			457210	02/01/19 08:10	JAK	TAL BUF
Total/NA	Analysis	6010C		1	457502	02/01/19 21:42	AMH	TAL BUF
Total/NA	Prep	7471B			457225	01/31/19 11:25	BMB	TAL BUF
Total/NA	Analysis	7471B		10	457271	01/31/19 14:19	BMB	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-16 (3-5)
Date Collected: 01/25/19 11:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457764	02/05/19 10:33	CMK	TAL BUF

Client Sample ID: SB-16 (3-5)
Date Collected: 01/25/19 11:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-10
Matrix: Solid
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			457005	01/29/19 14:22	SGD	TAL BUF
Total/NA	Analysis	8270D		1	457115	01/30/19 22:26	RJS	TAL BUF
Total/NA	Prep	3050B			457210	02/01/19 08:10	JAK	TAL BUF
Total/NA	Analysis	6010C		1	457502	02/01/19 21:57	AMH	TAL BUF
Total/NA	Prep	7471B			457225	01/31/19 11:25	BMB	TAL BUF
Total/NA	Analysis	7471B		1	457271	01/31/19 13:55	BMB	TAL BUF

Client Sample ID: SB-17 (6-8)
Date Collected: 01/25/19 11:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457764	02/05/19 10:33	CMK	TAL BUF

Client Sample ID: SB-17 (6-8)
Date Collected: 01/25/19 11:30
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-11
Matrix: Solid
Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			457155	01/31/19 07:37	AMM	TAL BUF
Total/NA	Analysis	8260C		8	457158	01/31/19 14:54	AMM	TAL BUF
Total/NA	Prep	3550C			457005	01/29/19 14:22	SGD	TAL BUF
Total/NA	Analysis	8270D		1	457115	01/30/19 22:52	RJS	TAL BUF
Total/NA	Prep	3550C			457067	01/30/19 08:35	SMP	TAL BUF
Total/NA	Analysis	8082A		1	457195	01/31/19 15:47	W1T	TAL BUF

Client Sample ID: SB-20 (3-6)
Date Collected: 01/25/19 13:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457764	02/05/19 10:33	CMK	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Client Sample ID: SB-20 (3-6)

Date Collected: 01/25/19 13:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-12
Matrix: Solid
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			457005	01/29/19 14:22	SGD	TAL BUF
Total/NA	Analysis	8270D		5	457115	01/30/19 23:17	RJS	TAL BUF
Total/NA	Prep	3050B			457210	02/01/19 08:10	JAK	TAL BUF
Total/NA	Analysis	6010C		1	457502	02/01/19 22:00	AMH	TAL BUF
Total/NA	Prep	3050B			457210	02/01/19 08:10	JAK	TAL BUF
Total/NA	Analysis	6010C		5	457973	02/06/19 10:58	LMH	TAL BUF
Total/NA	Prep	7471B			457225	01/31/19 11:25	BMB	TAL BUF
Total/NA	Analysis	7471B		1	457271	01/31/19 13:56	BMB	TAL BUF

Client Sample ID: SB-21 (2-4)

Date Collected: 01/25/19 14:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457764	02/05/19 10:33	CMK	TAL BUF

Client Sample ID: SB-21 (2-4)

Date Collected: 01/25/19 14:00
Date Received: 01/29/19 11:52

Lab Sample ID: 480-148426-13
Matrix: Solid
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			457005	01/29/19 14:22	SGD	TAL BUF
Total/NA	Analysis	8270D		5	457115	01/30/19 23:43	RJS	TAL BUF
Total/NA	Prep	3550C	DL		457005	01/29/19 14:22	SGD	TAL BUF
Total/NA	Analysis	8270D	DL	50	457255	01/31/19 16:30	RJS	TAL BUF
Total/NA	Prep	3050B			457210	02/01/19 08:10	JAK	TAL BUF
Total/NA	Analysis	6010C		1	457502	02/01/19 22:04	AMH	TAL BUF
Total/NA	Prep	7471B			457225	01/31/19 11:25	BMB	TAL BUF
Total/NA	Analysis	7471B		1	457271	01/31/19 13:57	BMB	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_H	Closed System Purge and Trap	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148426-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-148426-1	SB-2 (6-8)	Solid	01/24/19 09:30	01/29/19 11:52
480-148426-2	SB-4 (2-4)	Solid	01/24/19 10:30	01/29/19 11:52
480-148426-3	SB-7 (2.5-4.5)	Solid	01/24/19 12:00	01/29/19 11:52
480-148426-4	SB-8 (2-4)	Solid	01/24/19 12:30	01/29/19 11:52
480-148426-5	SB-10 (2.5-4.5)	Solid	01/24/19 13:30	01/29/19 11:52
480-148426-6	SB-11 (6-8)	Solid	01/24/19 14:00	01/29/19 11:52
480-148426-7	SB-13 (2-4)	Solid	01/25/19 09:30	01/29/19 11:52
480-148426-8	SB-14 (2-4)	Solid	01/25/19 10:00	01/29/19 11:52
480-148426-9	SB-15 (2-5)	Solid	01/25/19 10:30	01/29/19 11:52
480-148426-10	SB-16 (3-5)	Solid	01/25/19 11:00	01/29/19 11:52
480-148426-11	SB-17 (6-8)	Solid	01/25/19 11:30	01/29/19 11:52
480-148426-12	SB-20 (3-6)	Solid	01/25/19 13:00	01/29/19 11:52
480-148426-13	SB-21 (2-4)	Solid	01/25/19 14:00	01/29/19 11:52

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228

Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record

182427

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: BRYAN MAYBACK	Site Contact: CHAD SCHUSTER	Date: 1/28/19	COC No:
Company Name: BENCHMARK ENV. ENG. & SCI	Tel/Fax:	Lab Contact: BRIAN FRENCH	Carrier:	of COCs
Address: 2558 HAMBURG TURNPIKE	Analysis Turnaround Time			
City/State/Zip: BUFFALO, NY 14218	☐ CALENDAR DAYS ☐ WORKING DAYS			
Phone: 716-856-0599	TAT if different from Below _____			
Fax:	☐ 2 weeks			
Project Name: 145 CANSON STREET	☐ 1 week			
Site: 145 CANSON STREET	☐ 2 days			
PO # B0465-018-001	☐ 1 day			

480-148426 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	TCL+CPSI VOCs	TCL+CPSI PAH	RCRA METALS	PCBS	Sample Specific Notes:
SB-2(6-8)	1/24/19	930	G	SOIL	2			X	X		X	
SB-4(2-4)		1030			2				X	X	X	
SB-7(2.5-4.5)		1200			2				X	X		
SB-8(2-4)		1230			2			X	X	X		
SB-10(2.5-4.5)		1330			2			X	X	X		
SB-11(6-8)		1420			2			X	X			
SB-13(2-4)	1/25/19	930			1				X	X		
SB-14(2-4)		1000			2				X	X	X	
SB-15(2-5)		1036			2				X	X	X	
SB-16(3-5)		1100			2				X	X		
SB-17(2-8)		1130			1			X	X		X	
SB-20(3-6)		1300			1				X	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

#1 3.4

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Chad Mellgren	BENCHMARK	1/28/19 1600		TAB	1/25/19 09:20
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TAB	1/25/19 10:45		TAB	1/29/19 1045
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

2/7/2019

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record 182429

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact			
Company Name: BENCHMARK ENV. ENG. + SCI	Project Manager: BRYAN MAYBACK	Site Contact: CHAD SCHUSTER	Date: 1/28/19
Address: 2558 HAMBURG TURNPIKE	Tel/Fax:	Lab Contact: BRIAN FISCHER	Carrier:
City/State/Zip: BUFFALO, NY 14218	Analysis Turnaround Time: ☐ CALENDAR DAYS ☐ WORKING DAYS		
Phone: 716-856-0599	TAT if different from Below ______		
Fax:	☐ 2 weeks		
Project Name: 145 LAWSON STREET	☐ 1 week		
Site: 145 LAWSON STREET	☐ 2 days		
P O # B0465-018-001	☐ 1 day		

COC No: ____ of ____ COCs
Sampler: CS
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL+CP51 VOC	TCL+CP51 PAH	RCRA METALS	PCB	Sample Specific Notes:
SB-21 (2-4)	1/25/19	1400	G	Soil					X	X		
SB-1 (6-8)	1/24/19	900	↓	↓								HOLD
SB-3 (3-5)	↓	1000	↓	↓								HOLD
SB-5 (1-2)	↓	1100	↓	↓								HOLD
SB-6 (7-9)	↓	1130	↓	↓								HOLD
SB-12 (2-4)	1/25/19	900	↓	↓								HOLD
SB-18 (3-5)	1/25/19	1200	↓	↓								HOLD

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ______

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal by Lab ☐ Archive for ______ Months

Special Instructions/QC Requirements & Comments:
#1 2.1 4

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by: Chad M Schuster	Company: BENCHMARK	Date/Time: 1/28/19 1600	Received by: [signature]	Company: TAB	Date/Time: 1/29/19 09:20
Relinquished by: [signature]	Company: TAB	Date/Time: 1/29/19 1045	Received by: [signature]	Company: TAB	Date/Time: 1/29/19 1045
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-148426-1

Login Number: 148426
List Number: 1
Creator: Wallace, Cameron

List Source: TestAmerica Buffalo

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-148428-1
Client Project/Site: Benchmark - 145 Ganson St.

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Bryan Mayback

Authorized for release by:
2/1/2019 3:40:12 PM

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Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Qualifiers

GC/MS VOA

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

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-148428-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-148428-1

Comments
No additional comments.

Receipt
The samples were received on 1/29/2019 10:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3º C.

GC/MS VOA
Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: SB-8W (480-148428-2). The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: SB-2W (480-148428-1), (480-148428-B-1 MS) and (480-148428-B-1 MSD). 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.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Client Sample ID: SB-2W — Lab Sample ID: 480-148428-1

No Detections.

Client Sample ID: SB-8W — Lab Sample ID: 480-148428-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.8	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	21		10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.48	J	1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: SB-13W — Lab Sample ID: 480-148428-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.0	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: SB-20W — Lab Sample ID: 480-148428-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.2	J	10	3.0	ug/L	1		8260C	Total/NA
Methylene Chloride	0.53	J	1.0	0.44	ug/L	1		8260C	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 480-148428-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.5	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 480-148428-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.9	J	10	3.0	ug/L	1		8260C	Total/NA
Methylene Chloride	0.57	J	1.0	0.44	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Client Sample ID: SB-2W
Date Collected: 01/25/19 16:03
Date Received: 01/29/19 10:45

Lab Sample ID: 480-148428-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			01/30/19 14:09	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			01/30/19 14:09	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			01/30/19 14:09	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			01/30/19 14:09	10
1,1-Dichloroethane	ND		10	3.8	ug/L			01/30/19 14:09	10
1,1-Dichloroethene	ND		10	2.9	ug/L			01/30/19 14:09	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			01/30/19 14:09	10
1,2,4-Trimethylbenzene	ND		10	7.5	ug/L			01/30/19 14:09	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			01/30/19 14:09	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			01/30/19 14:09	10
1,2-Dichloroethane	ND		10	2.1	ug/L			01/30/19 14:09	10
1,2-Dichloropropane	ND		10	7.2	ug/L			01/30/19 14:09	10
1,3,5-Trimethylbenzene	ND		10	7.7	ug/L			01/30/19 14:09	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			01/30/19 14:09	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			01/30/19 14:09	10
2-Butanone (MEK)	ND		100	13	ug/L			01/30/19 14:09	10
2-Hexanone	ND		50	12	ug/L			01/30/19 14:09	10
4-Isopropyltoluene	ND		10	3.1	ug/L			01/30/19 14:09	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			01/30/19 14:09	10
Acetone	ND		100	30	ug/L			01/30/19 14:09	10
Benzene	ND		10	4.1	ug/L			01/30/19 14:09	10
Bromoform	ND		10	2.6	ug/L			01/30/19 14:09	10
Bromomethane	ND		10	6.9	ug/L			01/30/19 14:09	10
Carbon disulfide	ND		10	1.9	ug/L			01/30/19 14:09	10
Carbon tetrachloride	ND		10	2.7	ug/L			01/30/19 14:09	10
Chlorobenzene	ND		10	7.5	ug/L			01/30/19 14:09	10
Dibromochloromethane	ND		10	3.2	ug/L			01/30/19 14:09	10
Chloroethane	ND		10	3.2	ug/L			01/30/19 14:09	10
Chloroform	ND		10	3.4	ug/L			01/30/19 14:09	10
Chloromethane	ND		10	3.5	ug/L			01/30/19 14:09	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			01/30/19 14:09	10
Cyclohexane	ND		10	1.8	ug/L			01/30/19 14:09	10
Bromodichloromethane	ND		10	3.9	ug/L			01/30/19 14:09	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			01/30/19 14:09	10
Ethylbenzene	ND		10	7.4	ug/L			01/30/19 14:09	10
1,2-Dibromoethane	ND		10	7.3	ug/L			01/30/19 14:09	10
Isopropylbenzene	ND		10	7.9	ug/L			01/30/19 14:09	10
Methyl acetate	ND		25	13	ug/L			01/30/19 14:09	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			01/30/19 14:09	10
Methylcyclohexane	ND		10	1.6	ug/L			01/30/19 14:09	10
Methylene Chloride	ND		10	4.4	ug/L			01/30/19 14:09	10
m,p-Xylene	ND		20	6.6	ug/L			01/30/19 14:09	10
n-Butylbenzene	ND		10	6.4	ug/L			01/30/19 14:09	10
N-Propylbenzene	ND		10	6.9	ug/L			01/30/19 14:09	10
o-Xylene	ND		10	7.6	ug/L			01/30/19 14:09	10
sec-Butylbenzene	ND		10	7.5	ug/L			01/30/19 14:09	10
Tetrachloroethene	ND		10	3.6	ug/L			01/30/19 14:09	10
Toluene	ND		10	5.1	ug/L			01/30/19 14:09	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			01/30/19 14:09	10

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Client Sample ID: SB-2W
Date Collected: 01/25/19 16:03
Date Received: 01/29/19 10:45

Lab Sample ID: 480-148428-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			01/30/19 14:09	10
Trichloroethene	ND		10	4.6	ug/L			01/30/19 14:09	10
Trichlorofluoromethane	ND		10	8.8	ug/L			01/30/19 14:09	10
Vinyl chloride	ND		10	9.0	ug/L			01/30/19 14:09	10
Xylenes, Total	ND		20	6.6	ug/L			01/30/19 14:09	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			01/30/19 14:09	10
Styrene	ND		10	7.3	ug/L			01/30/19 14:09	10
tert-Butylbenzene	ND		10	8.1	ug/L			01/30/19 14:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*01/30/19 14:09*	*10*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*01/30/19 14:09*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/30/19 14:09*	*10*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Client Sample ID: SB-8W
Date Collected: 01/25/19 15:09
Date Received: 01/29/19 10:45

Lab Sample ID: 480-148428-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/30/19 14:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/30/19 14:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/30/19 14:33	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/30/19 14:33	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/30/19 14:33	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/30/19 14:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/30/19 14:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			01/30/19 14:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/30/19 14:33	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/30/19 14:33	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/30/19 14:33	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/30/19 14:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			01/30/19 14:33	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/30/19 14:33	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/30/19 14:33	1
2-Butanone (MEK)	**2.8**	**J**	10	1.3	ug/L			01/30/19 14:33	1
2-Hexanone	ND		5.0	1.2	ug/L			01/30/19 14:33	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			01/30/19 14:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/30/19 14:33	1
Acetone	**21**		10	3.0	ug/L			01/30/19 14:33	1
Benzene	**0.48**	**J**	1.0	0.41	ug/L			01/30/19 14:33	1
Bromoform	ND		1.0	0.26	ug/L			01/30/19 14:33	1
Bromomethane	ND		1.0	0.69	ug/L			01/30/19 14:33	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/30/19 14:33	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/30/19 14:33	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/30/19 14:33	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/30/19 14:33	1
Chloroethane	ND		1.0	0.32	ug/L			01/30/19 14:33	1
Chloroform	ND		1.0	0.34	ug/L			01/30/19 14:33	1
Chloromethane	ND		1.0	0.35	ug/L			01/30/19 14:33	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/30/19 14:33	1
Cyclohexane	ND		1.0	0.18	ug/L			01/30/19 14:33	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/30/19 14:33	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/30/19 14:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/30/19 14:33	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/30/19 14:33	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/30/19 14:33	1
Methyl acetate	ND		2.5	1.3	ug/L			01/30/19 14:33	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/30/19 14:33	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/30/19 14:33	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/30/19 14:33	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/30/19 14:33	1
n-Butylbenzene	ND		1.0	0.64	ug/L			01/30/19 14:33	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/30/19 14:33	1
o-Xylene	ND		1.0	0.76	ug/L			01/30/19 14:33	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			01/30/19 14:33	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/30/19 14:33	1
Toluene	ND		1.0	0.51	ug/L			01/30/19 14:33	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/30/19 14:33	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Client Sample ID: SB-8W
Date Collected: 01/25/19 15:09
Date Received: 01/29/19 10:45

Lab Sample ID: 480-148428-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/30/19 14:33	1
Trichloroethene	ND		1.0	0.46	ug/L			01/30/19 14:33	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/30/19 14:33	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/30/19 14:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/30/19 14:33	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/30/19 14:33	1
Styrene	ND		1.0	0.73	ug/L			01/30/19 14:33	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			01/30/19 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*01/30/19 14:33*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*01/30/19 14:33*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/30/19 14:33*	*1*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Client Sample ID: SB-13W
Date Collected: 01/25/19 16:12
Date Received: 01/29/19 10:45

Lab Sample ID: 480-148428-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/30/19 14:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/30/19 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/30/19 14:58	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/30/19 14:58	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/30/19 14:58	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/30/19 14:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/30/19 14:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			01/30/19 14:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/30/19 14:58	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/30/19 14:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/30/19 14:58	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/30/19 14:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			01/30/19 14:58	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/30/19 14:58	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/30/19 14:58	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/30/19 14:58	1
2-Hexanone	ND		5.0	1.2	ug/L			01/30/19 14:58	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			01/30/19 14:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/30/19 14:58	1
Acetone	**7.0**	**J**	10	3.0	ug/L			01/30/19 14:58	1
Benzene	ND		1.0	0.41	ug/L			01/30/19 14:58	1
Bromoform	ND		1.0	0.26	ug/L			01/30/19 14:58	1
Bromomethane	ND		1.0	0.69	ug/L			01/30/19 14:58	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/30/19 14:58	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/30/19 14:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/30/19 14:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/30/19 14:58	1
Chloroethane	ND		1.0	0.32	ug/L			01/30/19 14:58	1
Chloroform	ND		1.0	0.34	ug/L			01/30/19 14:58	1
Chloromethane	ND		1.0	0.35	ug/L			01/30/19 14:58	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/30/19 14:58	1
Cyclohexane	ND		1.0	0.18	ug/L			01/30/19 14:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/30/19 14:58	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/30/19 14:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/30/19 14:58	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/30/19 14:58	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/30/19 14:58	1
Methyl acetate	ND		2.5	1.3	ug/L			01/30/19 14:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/30/19 14:58	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/30/19 14:58	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/30/19 14:58	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/30/19 14:58	1
n-Butylbenzene	ND		1.0	0.64	ug/L			01/30/19 14:58	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/30/19 14:58	1
o-Xylene	ND		1.0	0.76	ug/L			01/30/19 14:58	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			01/30/19 14:58	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/30/19 14:58	1
Toluene	ND		1.0	0.51	ug/L			01/30/19 14:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/30/19 14:58	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Client Sample ID: SB-13W
Date Collected: 01/25/19 16:12
Date Received: 01/29/19 10:45

Lab Sample ID: 480-148428-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/30/19 14:58	1
Trichloroethene	ND		1.0	0.46	ug/L			01/30/19 14:58	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/30/19 14:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/30/19 14:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/30/19 14:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/30/19 14:58	1
Styrene	ND		1.0	0.73	ug/L			01/30/19 14:58	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			01/30/19 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*01/30/19 14:58*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*01/30/19 14:58*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*01/30/19 14:58*	*1*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Client Sample ID: SB-20W
Date Collected: 01/25/19 15:51
Date Received: 01/29/19 10:45

Lab Sample ID: 480-148428-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/30/19 15:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/30/19 15:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/30/19 15:21	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/30/19 15:21	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/30/19 15:21	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/30/19 15:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/30/19 15:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			01/30/19 15:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/30/19 15:21	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/30/19 15:21	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/30/19 15:21	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/30/19 15:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			01/30/19 15:21	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/30/19 15:21	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/30/19 15:21	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/30/19 15:21	1
2-Hexanone	ND		5.0	1.2	ug/L			01/30/19 15:21	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			01/30/19 15:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/30/19 15:21	1
Acetone	**9.2**	**J**	10	3.0	ug/L			01/30/19 15:21	1
Benzene	ND		1.0	0.41	ug/L			01/30/19 15:21	1
Bromoform	ND		1.0	0.26	ug/L			01/30/19 15:21	1
Bromomethane	ND		1.0	0.69	ug/L			01/30/19 15:21	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/30/19 15:21	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/30/19 15:21	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/30/19 15:21	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/30/19 15:21	1
Chloroethane	ND		1.0	0.32	ug/L			01/30/19 15:21	1
Chloroform	ND		1.0	0.34	ug/L			01/30/19 15:21	1
Chloromethane	ND		1.0	0.35	ug/L			01/30/19 15:21	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/30/19 15:21	1
Cyclohexane	ND		1.0	0.18	ug/L			01/30/19 15:21	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/30/19 15:21	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/30/19 15:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/30/19 15:21	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/30/19 15:21	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/30/19 15:21	1
Methyl acetate	ND		2.5	1.3	ug/L			01/30/19 15:21	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/30/19 15:21	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/30/19 15:21	1
Methylene Chloride	**0.53**	**J**	1.0	0.44	ug/L			01/30/19 15:21	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/30/19 15:21	1
n-Butylbenzene	ND		1.0	0.64	ug/L			01/30/19 15:21	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/30/19 15:21	1
o-Xylene	ND		1.0	0.76	ug/L			01/30/19 15:21	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			01/30/19 15:21	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/30/19 15:21	1
Toluene	ND		1.0	0.51	ug/L			01/30/19 15:21	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/30/19 15:21	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Client Sample ID: SB-20W
Date Collected: 01/25/19 15:51
Date Received: 01/29/19 10:45

Lab Sample ID: 480-148428-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/30/19 15:21	1
Trichloroethene	ND		1.0	0.46	ug/L			01/30/19 15:21	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/30/19 15:21	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/30/19 15:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/30/19 15:21	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/30/19 15:21	1
Styrene	ND		1.0	0.73	ug/L			01/30/19 15:21	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			01/30/19 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*01/30/19 15:21*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*01/30/19 15:21*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/30/19 15:21*	*1*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Client Sample ID: MW-1
Date Collected: 01/25/19 15:31
Date Received: 01/29/19 10:45

Lab Sample ID: 480-148428-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/30/19 15:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/30/19 15:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/30/19 15:45	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/30/19 15:45	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/30/19 15:45	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/30/19 15:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/30/19 15:45	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			01/30/19 15:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/30/19 15:45	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/30/19 15:45	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/30/19 15:45	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/30/19 15:45	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			01/30/19 15:45	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/30/19 15:45	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/30/19 15:45	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/30/19 15:45	1
2-Hexanone	ND		5.0	1.2	ug/L			01/30/19 15:45	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			01/30/19 15:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/30/19 15:45	1
Acetone	**6.5**	**J**	10	3.0	ug/L			01/30/19 15:45	1
Benzene	ND		1.0	0.41	ug/L			01/30/19 15:45	1
Bromoform	ND		1.0	0.26	ug/L			01/30/19 15:45	1
Bromomethane	ND		1.0	0.69	ug/L			01/30/19 15:45	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/30/19 15:45	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/30/19 15:45	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/30/19 15:45	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/30/19 15:45	1
Chloroethane	ND		1.0	0.32	ug/L			01/30/19 15:45	1
Chloroform	ND		1.0	0.34	ug/L			01/30/19 15:45	1
Chloromethane	ND		1.0	0.35	ug/L			01/30/19 15:45	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/30/19 15:45	1
Cyclohexane	ND		1.0	0.18	ug/L			01/30/19 15:45	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/30/19 15:45	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/30/19 15:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/30/19 15:45	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/30/19 15:45	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/30/19 15:45	1
Methyl acetate	ND		2.5	1.3	ug/L			01/30/19 15:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/30/19 15:45	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/30/19 15:45	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/30/19 15:45	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/30/19 15:45	1
n-Butylbenzene	ND		1.0	0.64	ug/L			01/30/19 15:45	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/30/19 15:45	1
o-Xylene	ND		1.0	0.76	ug/L			01/30/19 15:45	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			01/30/19 15:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/30/19 15:45	1
Toluene	ND		1.0	0.51	ug/L			01/30/19 15:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/30/19 15:45	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Client Sample ID: MW-1
Date Collected: 01/25/19 15:31
Date Received: 01/29/19 10:45

Lab Sample ID: 480-148428-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/30/19 15:45	1
Trichloroethene	ND		1.0	0.46	ug/L			01/30/19 15:45	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/30/19 15:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/30/19 15:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/30/19 15:45	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/30/19 15:45	1
Styrene	ND		1.0	0.73	ug/L			01/30/19 15:45	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			01/30/19 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*		*01/30/19 15:45*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*01/30/19 15:45*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/30/19 15:45*	*1*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Client Sample ID: MW-2
Date Collected: 01/25/19 15:43
Date Received: 01/29/19 10:45

Lab Sample ID: 480-148428-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/30/19 16:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/30/19 16:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/30/19 16:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/30/19 16:09	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/30/19 16:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/30/19 16:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/30/19 16:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			01/30/19 16:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/30/19 16:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/30/19 16:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/30/19 16:09	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/30/19 16:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			01/30/19 16:09	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/30/19 16:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/30/19 16:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/30/19 16:09	1
2-Hexanone	ND		5.0	1.2	ug/L			01/30/19 16:09	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			01/30/19 16:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/30/19 16:09	1
Acetone	**8.9**	**J**	10	3.0	ug/L			01/30/19 16:09	1
Benzene	ND		1.0	0.41	ug/L			01/30/19 16:09	1
Bromoform	ND		1.0	0.26	ug/L			01/30/19 16:09	1
Bromomethane	ND		1.0	0.69	ug/L			01/30/19 16:09	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/30/19 16:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/30/19 16:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/30/19 16:09	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/30/19 16:09	1
Chloroethane	ND		1.0	0.32	ug/L			01/30/19 16:09	1
Chloroform	ND		1.0	0.34	ug/L			01/30/19 16:09	1
Chloromethane	ND		1.0	0.35	ug/L			01/30/19 16:09	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/30/19 16:09	1
Cyclohexane	ND		1.0	0.18	ug/L			01/30/19 16:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/30/19 16:09	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/30/19 16:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/30/19 16:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/30/19 16:09	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/30/19 16:09	1
Methyl acetate	ND		2.5	1.3	ug/L			01/30/19 16:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/30/19 16:09	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/30/19 16:09	1
Methylene Chloride	**0.57**	**J**	1.0	0.44	ug/L			01/30/19 16:09	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/30/19 16:09	1
n-Butylbenzene	ND		1.0	0.64	ug/L			01/30/19 16:09	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/30/19 16:09	1
o-Xylene	ND		1.0	0.76	ug/L			01/30/19 16:09	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			01/30/19 16:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/30/19 16:09	1
Toluene	ND		1.0	0.51	ug/L			01/30/19 16:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/30/19 16:09	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Client Sample ID: MW-2
Date Collected: 01/25/19 15:43
Date Received: 01/29/19 10:45

Lab Sample ID: 480-148428-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/30/19 16:09	1
Trichloroethene	ND		1.0	0.46	ug/L			01/30/19 16:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/30/19 16:09	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/30/19 16:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/30/19 16:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/30/19 16:09	1
Styrene	ND		1.0	0.73	ug/L			01/30/19 16:09	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			01/30/19 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*01/30/19 16:09*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*01/30/19 16:09*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/30/19 16:09*	*1*

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)
480-148428-1	SB-2W	94	102	100
480-148428-1 MS	SB-2W	97	104	103
480-148428-1 MSD	SB-2W	93	98	102
480-148428-2	SB-8W	98	99	100
480-148428-3	SB-13W	95	98	98
480-148428-4	SB-20W	97	101	100
480-148428-5	MW-1	93	99	100
480-148428-6	MW-2	98	102	100
LCS 480-457054/6	Lab Control Sample	91	100	98
MB 480-457054/8	Method Blank	93	99	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

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

Lab Sample ID: MB 480-457054/8
Matrix: Water
Analysis Batch: 457054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/30/19 12:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/30/19 12:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/30/19 12:21	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/30/19 12:21	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/30/19 12:21	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/30/19 12:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/30/19 12:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			01/30/19 12:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/30/19 12:21	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/30/19 12:21	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/30/19 12:21	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/30/19 12:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			01/30/19 12:21	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/30/19 12:21	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/30/19 12:21	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/30/19 12:21	1
2-Hexanone	ND		5.0	1.2	ug/L			01/30/19 12:21	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			01/30/19 12:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/30/19 12:21	1
Acetone	ND		10	3.0	ug/L			01/30/19 12:21	1
Benzene	ND		1.0	0.41	ug/L			01/30/19 12:21	1
Bromoform	ND		1.0	0.26	ug/L			01/30/19 12:21	1
Bromomethane	ND		1.0	0.69	ug/L			01/30/19 12:21	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/30/19 12:21	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/30/19 12:21	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/30/19 12:21	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/30/19 12:21	1
Chloroethane	ND		1.0	0.32	ug/L			01/30/19 12:21	1
Chloroform	ND		1.0	0.34	ug/L			01/30/19 12:21	1
Chloromethane	ND		1.0	0.35	ug/L			01/30/19 12:21	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/30/19 12:21	1
Cyclohexane	ND		1.0	0.18	ug/L			01/30/19 12:21	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/30/19 12:21	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/30/19 12:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/30/19 12:21	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/30/19 12:21	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/30/19 12:21	1
Methyl acetate	ND		2.5	1.3	ug/L			01/30/19 12:21	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/30/19 12:21	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/30/19 12:21	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/30/19 12:21	1
m,p-Xylene	ND		2.0	0.66	ug/L			01/30/19 12:21	1
n-Butylbenzene	ND		1.0	0.64	ug/L			01/30/19 12:21	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/30/19 12:21	1
o-Xylene	ND		1.0	0.76	ug/L			01/30/19 12:21	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			01/30/19 12:21	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/30/19 12:21	1
Toluene	ND		1.0	0.51	ug/L			01/30/19 12:21	1

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

Lab Sample ID: MB 480-457054/8
Matrix: Water
Analysis Batch: 457054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/30/19 12:21	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/30/19 12:21	1
Trichloroethene	ND		1.0	0.46	ug/L			01/30/19 12:21	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/30/19 12:21	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/30/19 12:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/30/19 12:21	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/30/19 12:21	1
Styrene	ND		1.0	0.73	ug/L			01/30/19 12:21	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			01/30/19 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*		*01/30/19 12:21*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*01/30/19 12:21*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/30/19 12:21*	*1*

Lab Sample ID: LCS 480-457054/6
Matrix: Water
Analysis Batch: 457054

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	21.5		ug/L		86	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.2		ug/L		101	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.7		ug/L		83	61 - 148
1,1,2-Trichloroethane	25.0	23.0		ug/L		92	76 - 122
1,1-Dichloroethane	25.0	21.2		ug/L		85	77 - 120
1,1-Dichloroethene	25.0	20.3		ug/L		81	66 - 127
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	79 - 122
1,2,4-Trimethylbenzene	25.0	26.3		ug/L		105	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	25.8		ug/L		103	56 - 134
1,2-Dichlorobenzene	25.0	25.3		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	21.3		ug/L		85	75 - 120
1,2-Dichloropropane	25.0	21.2		ug/L		85	76 - 120
1,3,5-Trimethylbenzene	25.0	26.3		ug/L		105	77 - 121
1,3-Dichlorobenzene	25.0	25.5		ug/L		102	77 - 120
1,4-Dichlorobenzene	25.0	25.5		ug/L		102	80 - 120
2-Butanone (MEK)	125	105		ug/L		84	57 - 140
2-Hexanone	125	116		ug/L		93	65 - 127
4-Isopropyltoluene	25.0	26.5		ug/L		106	73 - 120
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		100	71 - 125
Acetone	125	104		ug/L		83	56 - 142
Benzene	25.0	21.4		ug/L		86	71 - 124
Bromoform	25.0	24.5		ug/L		98	61 - 132
Bromomethane	25.0	20.8		ug/L		83	55 - 144
Carbon disulfide	25.0	21.0		ug/L		84	59 - 134
Carbon tetrachloride	25.0	23.3		ug/L		93	72 - 134
Chlorobenzene	25.0	23.6		ug/L		94	80 - 120
Dibromochloromethane	25.0	25.6		ug/L		102	75 - 125

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

Lab Sample ID: LCS 480-457054/6
Matrix: Water
Analysis Batch: 457054

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	25.0	20.6		ug/L		82	69 - 136
Chloroform	25.0	20.8		ug/L		83	73 - 127
Chloromethane	25.0	20.8		ug/L		83	68 - 124
cis-1,2-Dichloroethene	25.0	22.1		ug/L		89	74 - 124
Cyclohexane	25.0	22.2		ug/L		89	59 - 135
Bromodichloromethane	25.0	22.9		ug/L		92	80 - 122
Dichlorodifluoromethane	25.0	21.1		ug/L		84	59 - 135
Ethylbenzene	25.0	23.8		ug/L		95	77 - 123
1,2-Dibromoethane	25.0	24.1		ug/L		96	77 - 120
Isopropylbenzene	25.0	26.7		ug/L		107	77 - 122
Methyl acetate	50.0	42.0		ug/L		84	74 - 133
Methyl tert-butyl ether	25.0	23.1		ug/L		92	77 - 120
Methylcyclohexane	25.0	22.0		ug/L		88	68 - 134
Methylene Chloride	25.0	20.2		ug/L		81	75 - 124
m,p-Xylene	25.0	23.5		ug/L		94	76 - 122
n-Butylbenzene	25.0	25.6		ug/L		102	71 - 128
N-Propylbenzene	25.0	26.3		ug/L		105	75 - 127
o-Xylene	25.0	22.4		ug/L		89	76 - 122
sec-Butylbenzene	25.0	26.4		ug/L		106	74 - 127
Tetrachloroethene	25.0	22.6		ug/L		90	74 - 122
Toluene	25.0	23.5		ug/L		94	80 - 122
trans-1,2-Dichloroethene	25.0	20.5		ug/L		82	73 - 127
trans-1,3-Dichloropropene	25.0	24.8		ug/L		99	80 - 120
Trichloroethene	25.0	21.6		ug/L		87	74 - 123
Trichlorofluoromethane	25.0	22.3		ug/L		89	62 - 150
Vinyl chloride	25.0	22.6		ug/L		91	65 - 133
cis-1,3-Dichloropropene	25.0	21.5		ug/L		86	74 - 124
Styrene	25.0	24.1		ug/L		96	80 - 120
tert-Butylbenzene	25.0	26.4		ug/L		106	75 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 480-148428-1 MS
Matrix: Water
Analysis Batch: 457054

Client Sample ID: SB-2W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		250	244		ug/L		98	73 - 126
1,1,2,2-Tetrachloroethane	ND		250	246		ug/L		98	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND		250	241		ug/L		96	61 - 148
1,1,2-Trichloroethane	ND		250	251		ug/L		100	76 - 122
1,1-Dichloroethane	ND		250	242		ug/L		97	77 - 120
1,1-Dichloroethene	ND		250	243		ug/L		97	66 - 127
1,2,4-Trichlorobenzene	ND		250	266		ug/L		106	79 - 122

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

Lab Sample ID: 480-148428-1 MS
Matrix: Water
Analysis Batch: 457054

Client Sample ID: SB-2W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	ND		250	268		ug/L		107	76 - 121
1,2-Dibromo-3-Chloropropane	ND		250	277		ug/L		111	56 - 134
1,2-Dichlorobenzene	ND		250	260		ug/L		104	80 - 124
1,2-Dichloroethane	ND		250	234		ug/L		94	75 - 120
1,2-Dichloropropane	ND		250	228		ug/L		91	76 - 120
1,3,5-Trimethylbenzene	ND		250	283		ug/L		113	77 - 121
1,3-Dichlorobenzene	ND		250	265		ug/L		106	77 - 120
1,4-Dichlorobenzene	ND		250	266		ug/L		107	78 - 124
2-Butanone (MEK)	ND		1250	1160		ug/L		92	57 - 140
2-Hexanone	ND		1250	1230		ug/L		99	65 - 127
4-Isopropyltoluene	ND		250	282		ug/L		113	73 - 120
4-Methyl-2-pentanone (MIBK)	ND		1250	1300		ug/L		104	71 - 125
Acetone	ND		1250	1000		ug/L		80	56 - 142
Benzene	ND		250	240		ug/L		96	71 - 124
Bromoform	ND		250	256		ug/L		102	61 - 132
Bromomethane	ND		250	231		ug/L		93	55 - 144
Carbon disulfide	ND		250	254		ug/L		101	59 - 134
Carbon tetrachloride	ND		250	260		ug/L		104	72 - 134
Chlorobenzene	ND		250	264		ug/L		106	80 - 120
Dibromochloromethane	ND		250	271		ug/L		108	75 - 125
Chloroethane	ND		250	226		ug/L		90	69 - 136
Chloroform	ND		250	236		ug/L		94	73 - 127
Chloromethane	ND		250	218		ug/L		87	68 - 124
cis-1,2-Dichloroethene	ND		250	243		ug/L		97	74 - 124
Cyclohexane	ND		250	247		ug/L		99	59 - 135
Bromodichloromethane	ND		250	249		ug/L		100	80 - 122
Dichlorodifluoromethane	ND		250	241		ug/L		96	59 - 135
Ethylbenzene	ND		250	270		ug/L		108	77 - 123
1,2-Dibromoethane	ND		250	258		ug/L		103	77 - 120
Isopropylbenzene	ND		250	285		ug/L		114	77 - 122
Methyl acetate	ND		500	423		ug/L		85	74 - 133
Methyl tert-butyl ether	ND		250	241		ug/L		96	77 - 120
Methylcyclohexane	ND		250	259		ug/L		103	68 - 134
Methylene Chloride	ND		250	218		ug/L		87	75 - 124
m,p-Xylene	ND		250	273		ug/L		109	76 - 122
n-Butylbenzene	ND		250	274		ug/L		109	71 - 128
N-Propylbenzene	ND		250	276		ug/L		111	75 - 127
o-Xylene	ND		250	250		ug/L		100	76 - 122
sec-Butylbenzene	ND		250	280		ug/L		112	74 - 127
Tetrachloroethene	ND		250	251		ug/L		100	74 - 122
Toluene	ND		250	262		ug/L		105	80 - 122
trans-1,2-Dichloroethene	ND		250	232		ug/L		93	73 - 127
trans-1,3-Dichloropropene	ND		250	262		ug/L		105	80 - 120
Trichloroethene	ND		250	240		ug/L		96	74 - 123
Trichlorofluoromethane	ND		250	254		ug/L		102	62 - 150
Vinyl chloride	ND		250	263		ug/L		105	65 - 133
cis-1,3-Dichloropropene	ND		250	227		ug/L		91	74 - 124
Styrene	ND		250	267		ug/L		107	80 - 120

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

Lab Sample ID: 480-148428-1 MS
Matrix: Water
Analysis Batch: 457054

Client Sample ID: SB-2W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	ND		250	270		ug/L		108	75 - 123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 480-148428-1 MSD
Matrix: Water
Analysis Batch: 457054

Client Sample ID: SB-2W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		250	244		ug/L		98	73 - 126	0	15
1,1,2,2-Tetrachloroethane	ND		250	245		ug/L		98	76 - 120	0	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	236		ug/L		94	61 - 148	2	20
1,1,2-Trichloroethane	ND		250	233		ug/L		93	76 - 122	7	15
1,1-Dichloroethane	ND		250	239		ug/L		96	77 - 120	1	20
1,1-Dichloroethene	ND		250	232		ug/L		93	66 - 127	5	16
1,2,4-Trichlorobenzene	ND		250	267		ug/L		107	79 - 122	1	20
1,2,4-Trimethylbenzene	ND		250	269		ug/L		107	76 - 121	0	20
1,2-Dibromo-3-Chloropropane	ND		250	255		ug/L		102	56 - 134	8	15
1,2-Dichlorobenzene	ND		250	264		ug/L		105	80 - 124	2	20
1,2-Dichloroethane	ND		250	237		ug/L		95	75 - 120	1	20
1,2-Dichloropropane	ND		250	235		ug/L		94	76 - 120	3	20
1,3,5-Trimethylbenzene	ND		250	274		ug/L		110	77 - 121	3	20
1,3-Dichlorobenzene	ND		250	260		ug/L		104	77 - 120	2	20
1,4-Dichlorobenzene	ND		250	266		ug/L		107	78 - 124	0	20
2-Butanone (MEK)	ND		1250	1140		ug/L		91	57 - 140	1	20
2-Hexanone	ND		1250	1240		ug/L		99	65 - 127	0	15
4-Isopropyltoluene	ND		250	276		ug/L		111	73 - 120	2	20
4-Methyl-2-pentanone (MIBK)	ND		1250	1290		ug/L		104	71 - 125	0	35
Acetone	ND		1250	1040		ug/L		84	56 - 142	4	15
Benzene	ND		250	239		ug/L		95	71 - 124	0	13
Bromoform	ND		250	251		ug/L		101	61 - 132	2	15
Bromomethane	ND		250	234		ug/L		94	55 - 144	1	15
Carbon disulfide	ND		250	245		ug/L		98	59 - 134	3	15
Carbon tetrachloride	ND		250	261		ug/L		104	72 - 134	0	15
Chlorobenzene	ND		250	260		ug/L		104	80 - 120	2	25
Dibromochloromethane	ND		250	264		ug/L		106	75 - 125	2	15
Chloroethane	ND		250	226		ug/L		90	69 - 136	0	15
Chloroform	ND		250	235		ug/L		94	73 - 127	0	20
Chloromethane	ND		250	229		ug/L		92	68 - 124	5	15
cis-1,2-Dichloroethene	ND		250	240		ug/L		96	74 - 124	1	15
Cyclohexane	ND		250	241		ug/L		96	59 - 135	3	20
Bromodichloromethane	ND		250	255		ug/L		102	80 - 122	2	15
Dichlorodifluoromethane	ND		250	238		ug/L		95	59 - 135	1	20
Ethylbenzene	ND		250	264		ug/L		106	77 - 123	2	15

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

Lab Sample ID: 480-148428-1 MSD
Matrix: Water
Analysis Batch: 457054

Client Sample ID: SB-2W
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-Dibromoethane	ND		250	250		ug/L		100	77 - 120	3	15
Isopropylbenzene	ND		250	276		ug/L		110	77 - 122	3	20
Methyl acetate	ND		500	434		ug/L		87	74 - 133	2	20
Methyl tert-butyl ether	ND		250	246		ug/L		98	77 - 120	2	37
Methylcyclohexane	ND		250	253		ug/L		101	68 - 134	2	20
Methylene Chloride	ND		250	215		ug/L		86	75 - 124	1	15
m,p-Xylene	ND		250	262		ug/L		105	76 - 122	4	16
n-Butylbenzene	ND		250	275		ug/L		110	71 - 128	0	15
N-Propylbenzene	ND		250	273		ug/L		109	75 - 127	1	15
o-Xylene	ND		250	254		ug/L		102	76 - 122	1	16
sec-Butylbenzene	ND		250	273		ug/L		109	74 - 127	3	15
Tetrachloroethene	ND		250	245		ug/L		98	74 - 122	2	20
Toluene	ND		250	258		ug/L		103	80 - 122	1	15
trans-1,2-Dichloroethene	ND		250	226		ug/L		90	73 - 127	2	20
trans-1,3-Dichloropropene	ND		250	260		ug/L		104	80 - 120	1	15
Trichloroethene	ND		250	234		ug/L		94	74 - 123	3	16
Trichlorofluoromethane	ND		250	246		ug/L		98	62 - 150	4	20
Vinyl chloride	ND		250	260		ug/L		104	65 - 133	1	15
cis-1,3-Dichloropropene	ND		250	235		ug/L		94	74 - 124	3	15
Styrene	ND		250	262		ug/L		105	80 - 120	2	20
tert-Butylbenzene	ND		250	264		ug/L		106	75 - 123	2	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

GC/MS VOA

Analysis Batch: 457054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-148428-1	SB-2W	Total/NA	Water	8260C	
480-148428-2	SB-8W	Total/NA	Water	8260C	
480-148428-3	SB-13W	Total/NA	Water	8260C	
480-148428-4	SB-20W	Total/NA	Water	8260C	
480-148428-5	MW-1	Total/NA	Water	8260C	
480-148428-6	MW-2	Total/NA	Water	8260C	
MB 480-457054/8	Method Blank	Total/NA	Water	8260C	
LCS 480-457054/6	Lab Control Sample	Total/NA	Water	8260C	
480-148428-1 MS	SB-2W	Total/NA	Water	8260C	
480-148428-1 MSD	SB-2W	Total/NA	Water	8260C	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Client Sample ID: SB-2W
Lab Sample ID: 480-148428-1
Date Collected: 01/25/19 16:03
Matrix: Water
Date Received: 01/29/19 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	457054	01/30/19 14:09	RJF	TAL BUF

Client Sample ID: SB-8W
Lab Sample ID: 480-148428-2
Date Collected: 01/25/19 15:09
Matrix: Water
Date Received: 01/29/19 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	457054	01/30/19 14:33	RJF	TAL BUF

Client Sample ID: SB-13W
Lab Sample ID: 480-148428-3
Date Collected: 01/25/19 16:12
Matrix: Water
Date Received: 01/29/19 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	457054	01/30/19 14:58	RJF	TAL BUF

Client Sample ID: SB-20W
Lab Sample ID: 480-148428-4
Date Collected: 01/25/19 15:51
Matrix: Water
Date Received: 01/29/19 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	457054	01/30/19 15:21	RJF	TAL BUF

Client Sample ID: MW-1
Lab Sample ID: 480-148428-5
Date Collected: 01/25/19 15:31
Matrix: Water
Date Received: 01/29/19 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	457054	01/30/19 15:45	RJF	TAL BUF

Client Sample ID: MW-2
Lab Sample ID: 480-148428-6
Date Collected: 01/25/19 15:43
Matrix: Water
Date Received: 01/29/19 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	457054	01/30/19 16:09	RJF	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
TestAmerica Job ID: 480-148428-1
Project/Site: Benchmark - 145 Ganson St.

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 145 Ganson St.

TestAmerica Job ID: 480-148428-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-148428-1	SB-2W	Water	01/25/19 16:03	01/29/19 10:45
480-148428-2	SB-8W	Water	01/25/19 15:09	01/29/19 10:45
480-148428-3	SB-13W	Water	01/25/19 16:12	01/29/19 10:45
480-148428-4	SB-20W	Water	01/25/19 15:51	01/29/19 10:45
480-148428-5	MW-1	Water	01/25/19 15:31	01/29/19 10:45
480-148428-6	MW-2	Water	01/25/19 15:43	01/29/19 10:45

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record 304554

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: BRYAN MAYBACK	Site Contact: CHAD SCHUSTER	Date: 1/28/19	COC No:
Company Name: BENCHMARK ENV SCI & ENG.	Tel/Fax:	Lab Contact: BRIAN FISCHER	Carrier:	____ of ____ COCs
Address: 2558 HAMBURG TURNPIKE	Analysis Turnaround Time			Sampler: CS
City/State/Zip: BUFFALO, NY 14218	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 716-856-0599	TAT if different from Below ____			
Fax:	☐ 2 weeks ☐ 1 week STD ☐ 2 days ☐ 1 day			
Project Name: 145 CANSON STREET				
Site: 145 CANSON STREET				
PO# B0465-018-001				

480-148428 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL CP+SI VOCs	Sample Specific Notes:
SB-2W	1/25/19	1603	G	AQUA	2			X	LOW VOLUME
SB-8W		1509			2			X	LOW VOLUME
SB-13W		1612			2			X	LOW VOLUME
SB-20W		1551			2			X	LOW VOLUME
MW-1		1531			3			X	
MW-2		1543			2			X	LOW VOLUME

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: ____ Corr'd: ____ Therm ID No.: ____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Chad M Schuster	BENCHMARK	1/28/19 1600		TAB	1/25/19 09:20
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TAB	1/25/19 10:45		TAB	1/29/19 10:45
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

2.3 #1

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-148428-1

Login Number: 148428

List Source: TestAmerica Buffalo

List Number: 1

Creator: Stopa, Erik S

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