
LIMITED PHASE II ENVIRONMENTAL INVESTIGATION REPORT

1200 Jefferson Avenue Site
Buffalo, New York

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Prepared for:

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1.0 INTRODUCTION

1.1 Background

TurnKey Environmental Restoration, LLC (TurnKey) performed a Limited Phase II Environmental Investigation on behalf of 1200 Jefferson Properties, LLC at the subject property located at 1200 Jefferson Avenue, City of Buffalo, Erie County, New York (see Figure 1). Historic operations on-Site include automobile repair and painting, dry cleaning and laundry service, paint and varnish shop, metal works shop, and likely presence of fill material related to demolished former buildings on Site since at least the 1920's. At least three (3) underground storage tanks (USTs) have been installed on-Site, with municipal records indicating an 8,000 gallon UST is closed in place beneath the existing building. Multiple NYS Department of Environmental Conservation (NYSDEC) Spill reports are associated with the property.

1.2 Site Description

The Site is located in a highly developed mixed use commercial and residential area of the City of Buffalo, Erie County, New York. The Site currently consists of six (6) adjoining parcels, located between Northampton Street and Eaton Street, totaling approximately 1 acre, including:

- 1200 Jefferson Avenue, SBL No. 100.57-2-37
- 1212 Jefferson Avenue, SBL No. 100.57-2-36
- 1216 Jefferson Avenue, SBL No. 100.57-2-35
- 1218 Jefferson Avenue, SBL No. 100.57-2-34
- 1222 Jefferson Avenue, SBL No. 100.57-2-33
- 328 Northampton Street, SBL No. 100.57-2-38

The Site includes one (1) existing building (1200 Jefferson), with vacant parcels on the north side of the Site, and alleyway (328 Northampton) on the west side (see Figure 2).

This Limited Phase II investigation was completed to further assess the former dry cleaning operations on-Site, NYSDEC Spills associated with the Site, former USTs and

recognized environmental conditions (RECs) identified in the recently completed Phase I Environmental Site Assessment (ESA) related to the historic use of the Site.

1.3 Previous Study

A Phase I Environmental Site Assessment (ESA) was completed by TurnKey for the Site (March 2018). The following recognized environmental conditions (RECs) were identified for the Site, including:

- Dry cleaning and laundry operations were identified on-Site in the existing building since at least the 1950's.
- Automobile repair and painting operations were identified on-Site since at least the 1920's
- Multiple USTs were identified on-Site since at least the 1950s. Municipal records indicate that an 8000 gal. UST was closed in-place beneath the existing building.
- Multiple NYSDEC Spill Incidents were identified for the Site (Nos. 8902796, 9305238 and 9501902), including one related to leaking USTs.
- An existing brick exhaust tower (stack) The vent stack is considered a REC due to the potential for remaining ash within the unit.
- Electronic wastes (i.e., light ballasts possibly containing PCBs) are considered RECs as such will require proper off-site disposal.
- The potential for miscellaneous urban fill materials exists on-Site due to its urban location and as former building areas have been brought to grade. The presence of urban fill material from unknown sources is considered a REC due to the potential for impacts. Historic adjacent automotive repair and gasoline station operations are considered RECs due to the potential for environmental impacts.

2.0 ENVIRONMENTAL SITE INVESTIGATION

2.1 Soil -Fill Investigation

On February 15-16, 2018, TurnKey's drilling subcontractor, Trec Environmental Inc. (Trec) mobilized a track-mounted drill rig to complete a total of 22 soil borings, identified as SB-1 through SB-22, at various locations across the Site (see Figure 3). Soil borings SB-1 through SB-6 were completed in accessible areas of the existing building, and SB-7 through SB-22 were completed across the exterior of the Site.

The soil borings were advanced using 1.5-inch diameter samplers that are 4-feet in length. Continuous sample cores were retrieved from the boring locations in clear PVC sleeves to allow for field characterization of the subsurface lithology and collection of soil/fill samples by TurnKey's Environmental Scientist. The retrieved soil-fill samples from each boring were screened using a photoionization detector (PID) and visual and/or olfactory observations were noted. Findings of the investigation are described below.

2.2 Groundwater Investigation

Two (2) soil boring locations (SB-1 and SB-11) were converted into temporary groundwater monitoring wells (TMW-1 and TMW-2). The temporary well was installed using one-inch diameter Schedule 40 PVC well screen and riser. A groundwater grab sample was collected from the temporary well utilizing a dedicated polyethylene bailer.

2.3 Laboratory Analysis

Ten (10) soil-fill samples, and two (2) groundwater samples were collected from select investigation locations across the Site. Collected samples were placed in pre-cleaned, laboratory provided sample containers using dedicated stainless steel sampling tools, and cooled to 4° C in the field, and transported under chain-of-custody command to a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified analytical laboratory.

Representative soil/fill and groundwater samples were collected and selectively analyzed for NYSDEC CP-51 List plus Target Compound List (TCL) volatile organic

compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and Resource Conservation and Recovery Act (RCRA) metals. Laboratory analytical results are presented below.

3.0 INVESTIGATION FINDINGS

Table 1 presents a summary of the field findings for the soil investigation. Tables 2 and 3 present a summary of the soil and groundwater sample analytical results. For comparison purposes, Table 2 presents soil cleanup objectives (SCOs) for each of the detected parameters as published in 6NYCRR Part 375. Groundwater sample results are summarized on Table 3 with comparison to Class GA Groundwater Quality Standards (GWQS) per NYSDEC T.O.G.S 1.1.1. A copy of the laboratory analytical data package is included in Appendix A.

3.1 Qualitative Soil-Fill Screening

Field evidence of grossly contaminated petroleum soil-fill, including odors, black-stained soils, and elevated PID readings were noted in SB-11, SB-12, SB-13, and SB-22, with PID readings as high as 368 ppm. Highest PID readings were located in the vicinity of the former USTs locations along Jefferson Avenue (see Figure 2). Oily product was identified on the boring sleeve at SB-11 (downgradient of closed in place UST).

Fill material was noted across the Site at varying thickness ranging from 1 to 10 feet below ground surface (fbgs), and generally consisted of brick, block, glass, metal, wood, ash, and cinders. Table 1 provides a summary of field observations and PID measurements.

Based on the field findings during the investigation, including visual product and staining, odors, and elevated PID readings, notification was provided to the NYSDEC hotline and Spill No. 1710381 was issued for the Site. The Spill file is currently open.

It should be noted that access to complete drilling within the building was limited, particularly related to the closed in place 8,000 gallon UST under the southern portion of the building. Field impacts were noted downgradient of the former tank during exterior boring advancement.

3.2 Soil Analytical Results

Laboratory soil analytical results are summarized on Table 2. Elevated chlorinated VOCs, including trichloroethene (TCE), cis-1,2-dichloroethene (DCE), and methylene chloride were detected exceeding the Protection of Groundwater SCOs (PGSCOs) at several locations.

Elevated petroleum related VOCs, including benzene, ethylbenzene, toluene, and xylene (BTEX compounds), 1,2,4- and 1,3,5-Trimethylbenzene were detected exceeding Unrestricted Use and Restricted Residential Use SCOs.

Elevated metals, including arsenic, barium, and chromium were detected exceeding the Industrial Use (USCO), Commercial Use, and Restricted Residential Use SCOs, respectively. Elevated lead and mercury were detected exceeding their respective USCOs in shallow soil fill samples at multiple locations (see Table 2 and Figure 3).

3.3 Groundwater Analytical Results

Groundwater analytical results are summarized on Table 3. Elevated chlorinated VOCs, including tetrachloroethene (PCE), TCE, cis- and trans-DCE, and vinyl chloride (VC) were detected exceeding their respective Groundwater Quality Standards (GWQS), including from beneath the existing building in TMW-1 and assumed downgradient location in TMW-2. It should be noted that elevated chlorinated VOCs exceeding PGSCOs in soil, and GWQS in groundwater were detected from the same sample locations.

4.0 CONCLUSIONS AND RECOMMENDATIONS

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

- Grossly contaminated petroleum soils were detected on Site, including visual product on soil cutting sleeve at SB-11 (downgradient of closed in-place 8,000-gallon UST), odors and elevated PID readings at four (4) locations.
- Elevated chlorinated VOCs, likely related to the former dry cleaning operations onsite, were detected in soil samples exceeding Protection of Groundwater SCOs.
- Elevated petroleum VOCs were detected in soil samples exceeding USCO and RRSCOs at several locations.
- Elevated chlorinated VOCs were detected in groundwater samples exceeding GWQS, including PCE, TCE, DCE and VC.
- Shallow fill material, including brick, block, cinders and ash were detected across the site, ranging in depth from 1-10 fbs.
- Elevated metals, including arsenic, barium, and chromium were detected in soil exceeding ISCO, CSCO, and RRSCO, respectively. Elevated lead and mercury were detected above USCOs at multiple locations.
- Based on the presence of elevated chlorinated VOCs exceeding SCGs in soil and groundwater, including beneath the existing building and downgradient location, indicates the likely presence of dry cleaning related contamination beneath the existing building.
- Based on the findings of this investigation, additional investigation and remediation appears warranted prior to Site redevelopment. TurnKey recommends completing a Soil Vapor Intrusion (SVI) assessment of the existing building, based on the presence of chlorinated VOCs in soil and groundwater beneath the building.
- We understand that you or related entity, is considering redeveloping the property; based on environmental impacts noted during this investigation, the Site may be eligible for the New York Brownfield Cleanup Program.

5.0 LIMITATIONS

This report has been prepared for the exclusive use of 1200 Jefferson Properties, 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 1200 Jefferson Properties, LLC. Use of or reliance on this report or its findings by any other person or entity is prohibited without written permission of TurnKey Environmental Restoration, LLC.

TABLES



**TABLE 1
SOIL BORING SUMMARY
1200 JEFFERSON AVENUE SITE**

Location	Date	Fill Present	Depth of Fill	Visually Impacted Soil/Fill?	Olfactory Odor	Maximum PID Depth (ftgs) Reading (ppm)	Soil Description and Depth (ftgs)
Soil Boring Locations							
SB-1	02/15/18	yes	1'			.5'-0.3'	0.0-0.33 Concrete .33-1.0 Fill: Black/ brown, moist, mostly medium plasticity fines, some fine sand, urban fill ¹ , cinders, little silt. 1.0-12 Sandy Lean Clay: Reddish brown, moist to wet (8), mostly medium plasticity fines, some fines sand, stiff, no odors.
SB-2	02/15/18	Yes	1'			N/A	0.0-0.25 Concrete .25-1.0 Fill: Dark brown, moist, mostly silt, some fine sand, urban fill ¹ , cinders, ash. 1.0-8.0 Sandy Lean Clay: Reddish brown, moist to wet (8), mostly medium plasticity fines, some fines sand, stiff, no odors.
SB-3	02/15/18	No	N/a		Yes	4-1.8	0.0-0.5 Concrete .5-1.5 Silty sand: Tan / dark brown, moist, mostly fine to medium sands, little silt, few subrounded gravel, slight odors. 1.5-12.0 Sandy Lean Clay: Reddish brown / tan, moist to wet (9), mostly medium plasticity fines, some fines sand, stiff, no odors
SB-4	02/15/18	Yes	1'			N/A	0.0-0.08 Concrete .08-1.0 Fill: Dark brown/ black, moist, mostly medium plasticity fines, urban fill ¹ , cinders, little silt. 1.0-12.0 Sandy Lean Clay: Reddish brown / tan, moist, mostly medium plasticity fines, some fines sand, stiff, no odors
SB-5	02/15/18	Yes	1.5'			N/A	0.0-0.16 Concrete .16-1.5 Fill: Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill ¹ , cinders, little silt. 1.5-10.0 Sandy Lean Clay: Reddish brown / tan, moist, mostly medium plasticity fines, some fines sand, stiff, no odors
SB-6	02/15/18	Yes	.5'			N/A	0.0-0.25 Concrete .25-1.0 Fill: Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill ¹ , cinders, little silt. 1.0-8.0 Sandy Lean Clay: Reddish brown / tan, moist, mostly medium plasticity fines, some fines sand, stiff, no odors
SB-7	02/15/18	Yes	.5'			N/A	0-5 Fill: Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill ¹ , cinders, little silt. .5-2.0 Fine sand: Tan, moist, mostly fine sand, few medium plasticity fines, little subangular gravel, medium dense. 2.0-8.0 Sandy Lean Clay: Reddish brown / tan, moist, mostly medium plasticity fines, some fines sand, stiff, no odors
SB-8	02/15/18	Yes	1'			N/A	0-.33 Fill: Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill ¹ , cinders, little silt. .33-1.0 Fill: Black, moist, mostly medium plasticity fines, some fine sand, some urban fill ¹ , cinders, black staining, odors 1.0-8.0 Sandy Lean Clay: Reddish brown / tan, moist, mostly medium plasticity fines, some fines sand, stiff, no odors
SB-9	02/16/18	Yes	8"			N/A	0-5 Fill: Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill ¹ , cinders, little silt. .66-1.5 Silty Clay: Black, moist, mostly medium plasticity fines, little silt, little fine sand, few subangular gravel 1.5-10.0 Sandy Lean Clay: Reddish brown / tan, moist to wet (8), mostly medium plasticity fines, some fines sand, stiff, no odors
SB-10	02/16/18	Yes	6"			N/A	0.0-0.25 Asphalt .25-1.5 Fill: Dark brown, moist, mostly medium plasticity fines, some fine sand, urban fill ¹ , ash, cinders, little silt. 1.5-12.0 Sandy Lean Clay: Reddish brown / tan, moist to wet (8), mostly medium plasticity fines, some fines sand, stiff, no odors
SB-11	02/16/18	Yes	8"		Yes	9'-58"	0.0-0.25 Asphalt .25-4.0 Fill: Dark brown/ black, moist, mostly urban fill ¹ ash, cinders some fine sand. 4.0-8.0 Fill: Black, wet, mostly urban fill ¹ ash, cinders some fine sand, some medium plasticity fines, some fine sand, product on sleeve and soil, odors 8.0-12.0 Sandy Lean Clay: Reddish brown / tan, moist, mostly medium plasticity fines, some fines sand, stiff, odors
SB-12	02/16/18	Yes	.5'		Yes	8'-368"	0.0-0.16 Concrete 0.16-.5 Fill: Tan/ white, moist, mostly urban fill ¹ ash, cinders some fine sand, odors. .50-.75 Fill: Dark brown, moist, mostly medium plasticity fines, some fine sand, silt, slight odors. .75-12.0 Sandy Lean Clay: Reddish brown / tan, moist to wet (10), mostly medium plasticity fines, some fines sand, stiff, strong odors
SB-13	02/16/18	No	.5'		Yes	8'-295"	0.0-0.25 Concrete 0.25-.5 Gravel subbase: grey, moist, mostly urban fill ¹ ash, cinders some fine sand, odors. .50-.75 Fill: Dark brown, moist, mostly medium plasticity fines, some fine sand, silt, slight odors. .75-12.0 Sandy Lean Clay: Reddish brown / tan, moist to wet (10), mostly medium plasticity fines, some fines sand, stiff, strong odors
SB-14	02/16/18	Yes	6"			N/A	0-.25 Topsoil .25-4.0 Fill: Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill ¹ , cinders, ash, little silt. 4.0 - 6.0 Concrete 6-8.0 Sandy Lean Clay: Reddish brown / tan, moist, mostly medium plasticity fines, some fines sand, stiff, no odors
SB-15	02/16/18	No	N/a			N/A	0.0-0.25 Asphalt 0.25-8.0 Sandy Lean Clay: Reddish brown / tan, moist to wet (8), mostly medium plasticity fines, some fines sand, stiff,
SB-16	02/16/18	No	N/a			N/A	0.0-0.25 Topsoil 0.25-8.0 Sandy Lean Clay: Reddish brown / tan, moist to wet (8), mostly medium plasticity fines, some fines sand, stiff,
SB-17	02/16/18	Yes	1.5'			N/A	0-.25 Topsoil .25-1.5 Fill: Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill ¹ , cinders, limestone little silt. 1.5-4.0 Sandy Lean Clay: Reddish brown / tan, moist, mostly medium plasticity fines, some fines sand, stiff, no odors
SB-18	02/16/18	Yes	10'			N/A	0-.25 Topsoil .25-10 Fill: Black, moist to wet (8), mostly urban fill ¹ , cinders, ash, wood, some fine sand, some well sorted gravel, urban fill ¹ , cinders, ash, wood, odors. 10-12.0 Sandy Lean Clay: Reddish brown / tan, moist, mostly medium plasticity fines, some fines sand, stiff, no odors
SB-19	02/16/18	Yes	9'			N/A	0-.33 Topsoil .33-1.5 Fill: Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill ¹ , cinders, ash, little silt. 1.5 - 9.0 Fill: Black, white, moist, mostly fine sand, some subrounded gravel, urban fill ¹ , cinders, ash 9-11.0 Sandy Lean Clay: Reddish brown / tan, moist, mostly medium plasticity fines, some fines sand, stiff, no odors
SB-20	02/16/18	Yes	4'			N/A	0-4.0 Fill: Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill ¹ , cinders, little silt.
SB-21	02/16/18	No	N/a			N/A	0-.25 Topsoil 0.25-3.0 Fill: Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill ¹ , cinders, little silt. 3-4.0 Sandy Lean Clay: Reddish brown / tan, moist, mostly medium plasticity fines, some fines sand, stiff, no odors
SB-22	02/16/18	Yes	5.5'		Yes	4'-6"	0-.33 Topsoil .33-2.5 Fill: Tan/ black, moist, mostly fine sand, urban fill ¹ , cinders, coal, ash, little silt. 2.5 - 5.5 Fill: White, moist, mostly concrete/ debris, some ash, petroleum-like odors 5.5-11.0 Sandy Lean Clay: Reddish brown / tan, moist, mostly medium plasticity fines, some fines sand, stiff, no odors

Notes:
1. Urban Fill: Consisting of brick, block, glass, metal, wood
Definitions:
ftgs = feet below ground surface
PID = MiniRae photoionization detector equipped with a 10.6 eV lamp
ppm = parts per million
N/A = Non applicable



TABLE 2
SUMMARY OF SUBSURFACE SOIL/FILL ANALYTICAL RESULTS
1200 JEFFERSON AVENUE SITE
BUFFALO, NEW YORK

PARAMETER ¹	Protection of Groundwater SCOs ²	Unrestricted Use SCOs ²	Restricted Residential Use SCOs ²	Commercial Use SCOs ²	Industrial Use SCOs ⁶	SAMPLE LOCATION (DEPTH)								
						SB-1 (4"-1')	SB-5 (0-2')	FD-1	SB-11 (7-8')	SB-12 (8-9')	SB-13 (6-8')	SB-18 (1.5-2.5')	SB-22 (.5-2.5')	SB-12 (2"-6")
						02/15/2018				02/16/2018				
Volatile Organic Compounds (VOCs) - mg/Kg ³														
1,2,4-Trimethylbenzene	--	3.6	52	190	380	ND	--	97	ND	7.2	8.1	--	--	--
1,3,5-Trimethylbenzene	--	8.4	52	190	380	ND	--	30	ND	2.4	2.3	--	--	--
4-Isopropyltoluene	--	--	--	--	--	ND	--	14	ND	0.14	0.17	--	--	--
Benzene	--	0.06	4.8	44	89	ND	--	ND	ND	0.2	0.052 J	--	--	--
Chloroform	0.37	0.37	49	350	700	0.003	--	ND	ND	ND	ND	--	--	--
cis-1,2-Dichloroethene	0.25	0.25	100	500	1,000	ND	--	ND	0.42 J	ND	ND	--	--	--
Ethylbenzene	--	1	41	390	780	ND	--	1.1 J	ND	2.1	2.1	--	--	--
Isopropylbenzene (Cumene)	--	--	--	--	--	ND	--	1.9	ND	0.29	0.16	--	--	--
Methylcyclohexane	--	--	--	--	--	ND	--	ND	ND	1.3	0.42	--	--	--
Methylene chloride	0.05	0.05	100	500	1,000	ND	--	0.85 B,J	0.24 B,J	0.15 B	0.13 B	--	--	--
n-Butylbenzene	--	12	100	500	1,000	ND	--	34	5	0.91	0.54	--	--	--
n-Propylbenzene	--	3.9	100	500	1,000	ND	--	4.6	ND	1.3	0.88	--	--	--
sec-Butylbenzene	--	11	100	500	1,000	ND	--	1.1	ND	0.18	0.075 J	--	--	--
Tetrachloroethene	1.3	1.3	19	150	300	0.22	--	ND	ND	0.063 J	ND	--	--	--
Toluene	0.7	0.7	100	500	1,000	ND	--	2.5	ND	0.052 J	0.28	--	--	--
Trichloroethene	0.47	0.47	21	200	400	ND	--	0.54 J	ND	ND	ND	--	--	--
Total Xylenes	--	0.26	100	500	1000	ND	--	11	ND	3.7 J	11	--	--	--
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg ³														
Anthracene	--	100	100	500	1,000	--	ND	ND	--	--	--	0.067	ND	ND
Benzo(a)anthracene	--	1	1	5.6	11	--	ND	ND	--	--	--	0.21	0.69 J	0.72 J
Benzo(a)pyrene	--	1	1	1	1	--	ND	ND	--	--	--	0.2	0.68 J	0.63 J
Benzo(b)fluoranthene	--	1	1	5.6	11	--	ND	ND	--	--	--	0.25	0.85 J	0.77 J
Benzo(ghi)perylene	--	100	100	500	1,000	--	ND	ND	--	--	--	0.16 J	0.45 J	0.46 J
Benzo(k)fluoranthene	--	0.8	3.9	56	110	--	ND	ND	--	--	--	0.12 J	0.44 J	ND
Carbazole	--	--	--	--	--	--	ND	ND	--	--	--	ND	ND	ND
Chrysene	--	1	3.9	56	110	--	ND	ND	--	--	--	0.22	0.75 J	0.7 J
Fluoranthene	--	100	100	500	1,000	--	0.029	11 J	--	--	--	0.3	1.3 J	1.3
Indeno(1,2,3-cd)pyrene	--	0.5	0.5	5.6	11	--	ND	ND	--	--	--	0.14 J	0.44 J	ND
Naphthalene	--	12	100	500	1,000	--	ND	38 J	--	--	--	0.086 J	ND	ND
Phenanthrene	--	100	100	500	1,000	--	ND	8.8 J	--	--	--	0.27	0.56 J	0.79 J
Pyrene	--	100	100	500	1,000	--	ND	ND	--	--	--	0.34	1.2 J	1.3
Total PAHs	--	--	100	500	--	--	0.029	57.8	--	--	--	2.363	7.36	6.67
Metals - mg/Kg														
Arsenic	--	13	16	16	16	--	6	3.5	--	--	--	11.8	8.8	18.3
Barium	--	350	400	400	10,000	--	127	436	--	--	--	55.9	155	116
Cadmium	--	2.5	4.3	9.3	60	--	ND	ND	--	--	--	ND	0.66	ND
Chromium	--	30	180	1,500	6,800	--	23.7	228	--	--	--	10.2	15.1	14.6
Lead	--	63	400	1,000	3,900	--	205	36.9	--	--	--	12.8	346	63.3
Mercury	--	0.18	0.81	2.8	6	--	0.26	0.046	--	--	--	0.19	0.19	0.099

- Notes:
- Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
 - Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
 - 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. Or parameter not analyzed for.
 J = Estimated value; result is less than the sample quantitation limit but greater than zero.

Light Green	= Result exceeds Protection of Groundwater SCOs.
Yellow	= Result exceeds Unrestricted Use SCOs.
Light Blue	= Result exceeds Restricted Residential Use SCOs.
Yellow	= Result exceeds Commercial Use SCOs.
Red	= Result exceeds Industrial Use SCOs.



TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

1200 JEFFERSON AVENUE SITE
BUFFALO, NEW YORK

Parameters ¹	Class GA GWQS ²	Sample Location	
		TMW-1	TMW-2
		2/15/18	2/16/18
<i>Volatile Organic Compounds (VOCs) - ug/L</i>			
1,1-Dichloroethene	5	ND	1.4
Chloroform	7	3	ND
Methylene Chloride	5	3.1	0.96
n-Butylbenzene	5	ND	7.5
Tetrachloroethene	5	30	6.3
Trichloroethene	5	ND	11
cis-1,2-Dichloroethene	5	2.7	470
trans-1,2-Dichloroethene	5	ND	9.2
Vinyl Chloride	2	ND	360

Notes:

1. Only 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 TOGS 1.1.1 Class GA Groundwater Quality Standards.

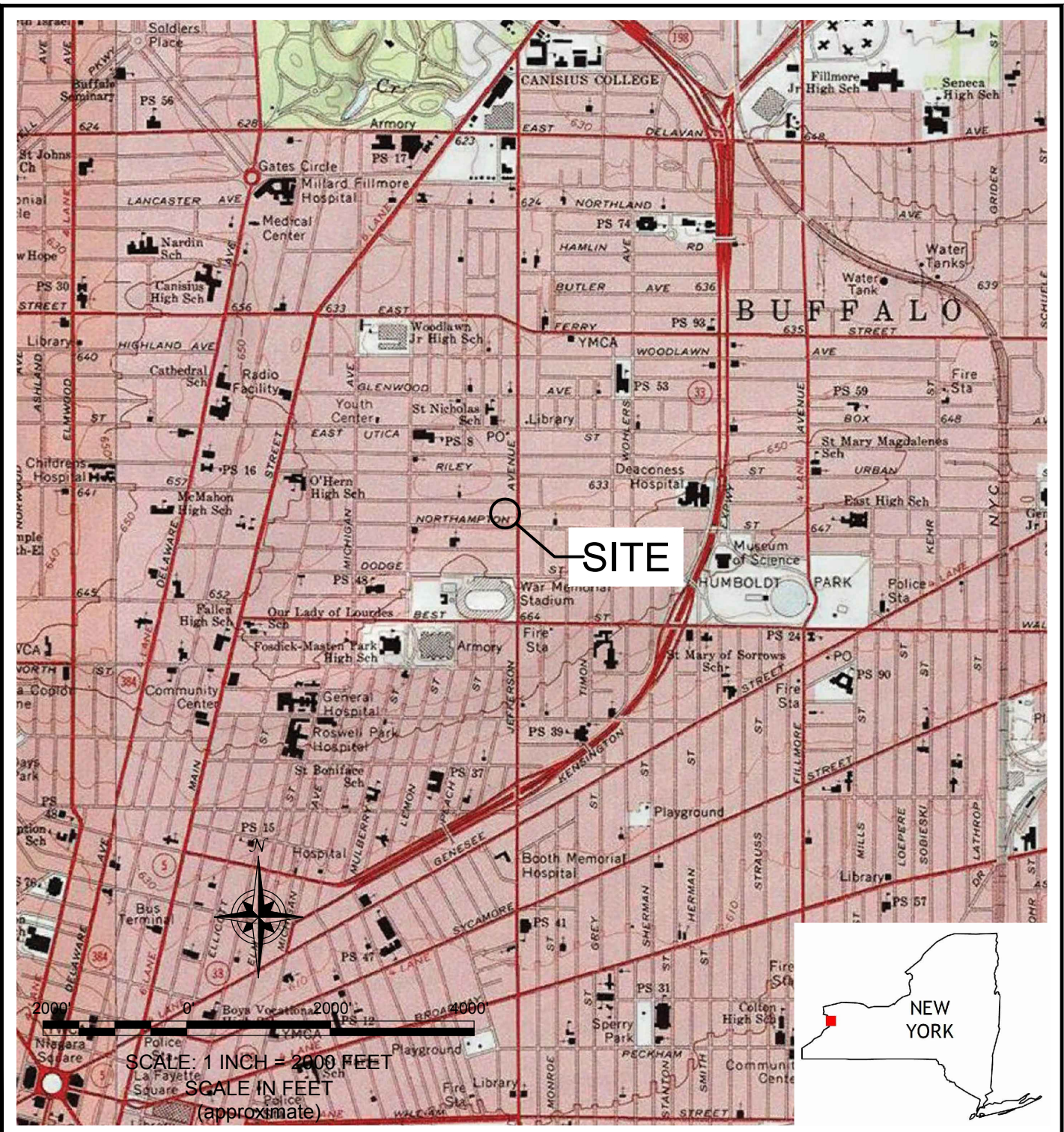

Qualifiers:

ND = Parameter not detected above laboratory detection limit.

BOLD = Result exceeds GWQS.

FIGURES

FIGURE 1

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

PROJECT NO.: 0239-018-001

DATE: APRIL 2018

DRAFTED BY: CMS

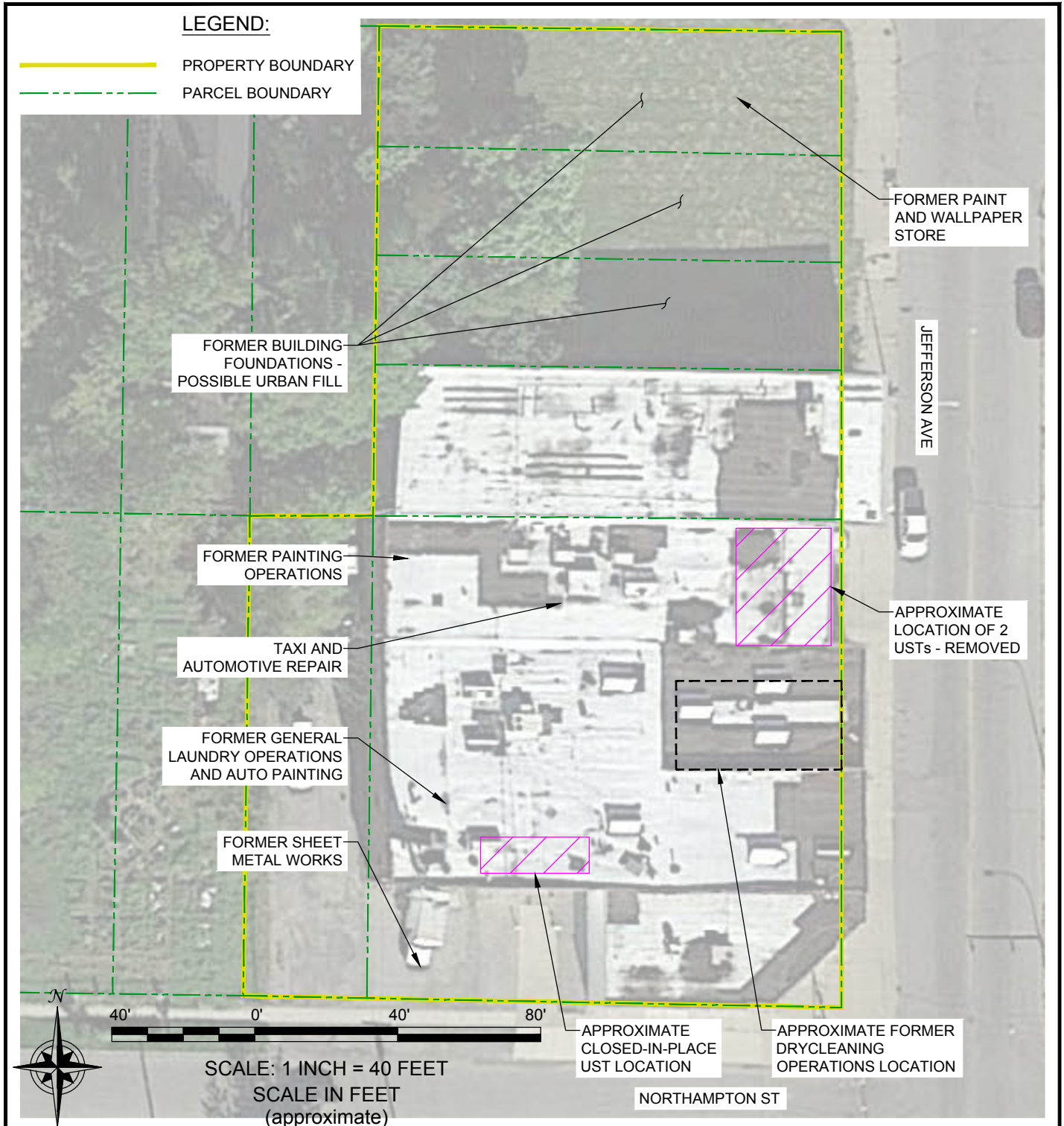
SITE LOCATION AND VICINITY MAP


LIMITED PHASE II ENVIRONMENTAL INVESTIGATION
1200 JEFFERSON AVENUE SITE
BUFFALO, NEW YORK
PREPARED FOR
1200 JEFFERSON PROPERTIES, LLC

DISCLAIMER: PROPERTY OF TURNKEY ENVIRONMENTAL RESTORATION, LLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF TURNKEY ENVIRONMENTAL RESTORATION, LLC.

FIGURE 2

F:\CAD\TurnKey\Sinatra\1200 Jefferson\Phase II\Figure 2 - Site Plan and Areas of Concern.dwg



	2558 HAMBURG TURNPIKE SUITE 300 BUFFALO, NY 14218 (716) 856-0635
	PROJECT NO.: 0239-018-001
	DATE: APRIL 2018
	DRAFTED BY: CMS

SITE PLAN AND AREAS OF CONCERN

LIMITED PHASE II ENVIRONMENTAL INVESTIGATION

1200 JEFFERSON AVENUE SITE

BUFFALO, NEW YORK

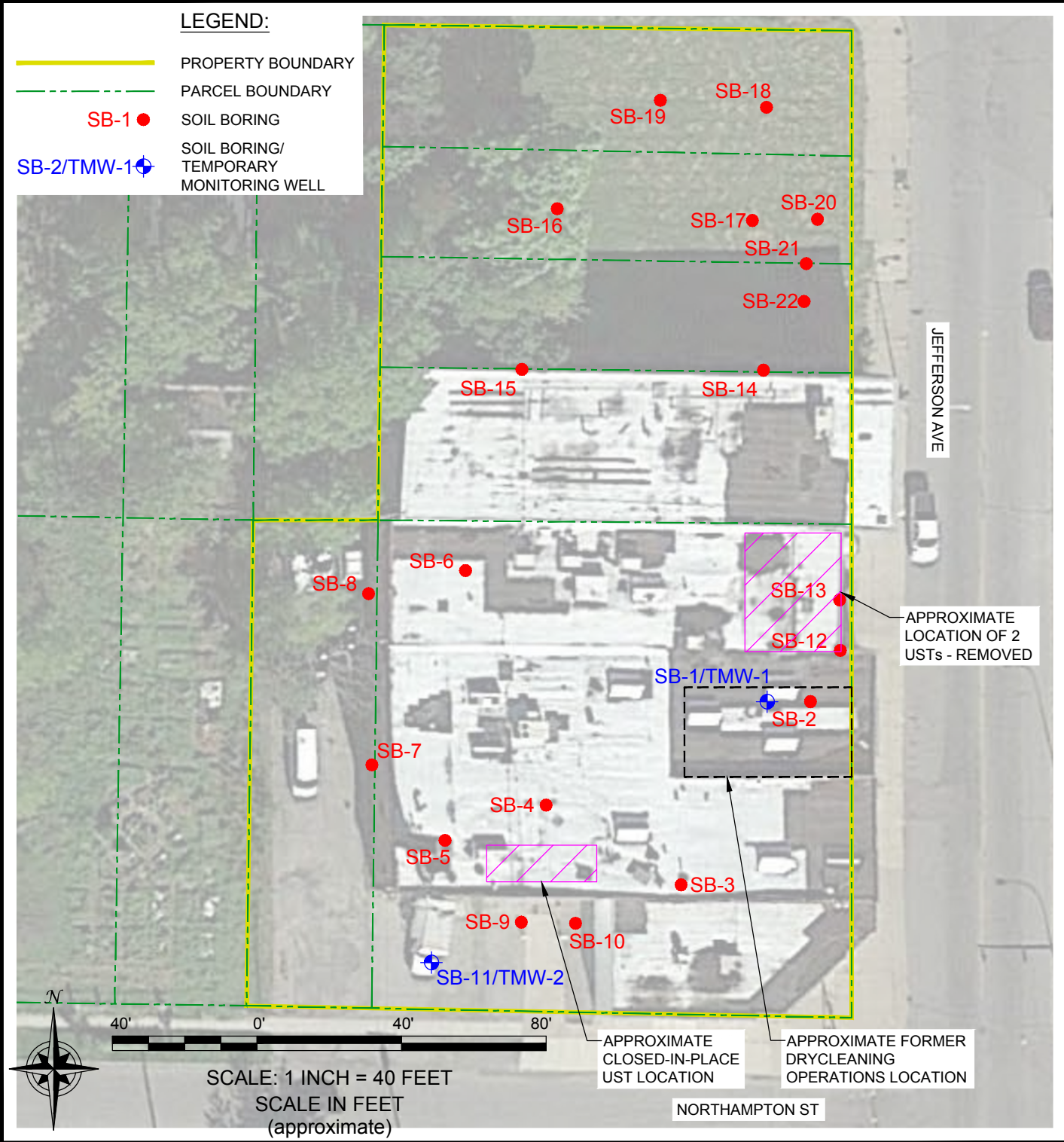

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FIGURE 3

F:\CAD\TurnKey\Smatra\1200 - Investigation\Phase II\Figure 3 - Investigation Locations.dwg

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

PROJECT NO.: 0239-018-001

DATE: APRIL 2018

DRAFTED BY: CMS

INVESTIGATION LOCATIONS

LIMITED PHASE II ENVIRONMENTAL INVESTIGATION

1200 JEFFERSON AVENUE SITE

BUFFALO, NEW YORK

PREPARED FOR

1200 JEFFERSON PROPERTIES, LLC

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APPENDIX A

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: 480-131427-1

Client Project/Site: Benchmark - 1200 Jefferson St

For:

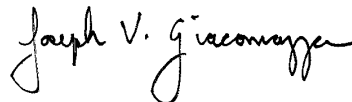
Turnkey Environmental Restoration, LLC

2558 Hamburg Turnpike

Suite 300

Lackawanna, New York 14218

Attn: Nate Munley



Authorized for release by:

2/23/2018 9:00:51 AM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Brian Fischer, Manager of Project Management

(716)504-9835

brian.fischer@testamericainc.com

LINKS

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results through

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Have a Question?



Visit us at:

www.testamericainc.com

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

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

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

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Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

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.
B	Compound was found in the blank and sample.
*	LCS or LCSD is outside acceptance limits.

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

Glossary

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

Case Narrative

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Job ID: 480-131427-1

Laboratory: TestAmerica Buffalo

Narrative

**Job Narrative
480-131427-1**

Comments

No additional comments.

Receipt

The samples were received on 2/16/2018 3:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 8.8° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-400512 recovered outside acceptance criteria, low biased, for 2-Hexanone, 1,1,2,2-Tetrachloroethane, 4-Methyl-2-pentanone (MIBK), and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-2 (480-131427-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2 (480-131427-8). Elevated reporting limits (RLs) are provided.

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: MW-2 (480-131427-8).

The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The following sample was analyzed using medium level soil analysis and diluted due to matrix: SB-11 (7-8') (480-131427-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were analyzed using medium level soil analysis to bring the concentration of target analytes within the calibration range: SB-12 (8-9') (480-131427-2) and SB-13 (6-8') (480-131427-3). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-400787 recovered above the upper control limit for 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2-trifluoroethane, Trichlorofluoromethane and Methylcyclohexane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: SB-11 (7-8') (480-131427-1).

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-22 (6"-2.5') (480-131427-5), SS-1 (480-131427-6) and SB-12 (2"-6") (480-131427-7). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The following samples required a dilution due to the nature of the sample matrix: SS-1 (480-131427-6). 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.

Metals

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

Organic Prep

Method(s) 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume: SS-1

Case Narrative

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Job ID: 480-131427-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

(480-131427-6). The reporting limits (RLs) are elevated proportionately.

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

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Detection Summary

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SB-11 (7-8')

Lab Sample ID: 480-131427-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	420	J	510	140	ug/Kg	4	☼	8260C	Total/NA
Methylene Chloride	240	J B	510	100	ug/Kg	4	☼	8260C	Total/NA
n-Butylbenzene	5000		510	150	ug/Kg	4	☼	8260C	Total/NA

Client Sample ID: SB-12 (8-9')

Lab Sample ID: 480-131427-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	7200		120	34	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	2400		120	37	ug/Kg	1	☼	8260C	Total/NA
4-Isopropyltoluene	140		120	41	ug/Kg	1	☼	8260C	Total/NA
Benzene	200		120	23	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	2100		120	36	ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	290		120	18	ug/Kg	1	☼	8260C	Total/NA
m,p-Xylene	3600		240	68	ug/Kg	1	☼	8260C	Total/NA
Methylcyclohexane	1300		120	57	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	150	B	120	24	ug/Kg	1	☼	8260C	Total/NA
n-Butylbenzene	910		120	36	ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	1300		120	32	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	92	J	120	16	ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene	180		120	45	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	63	J	120	16	ug/Kg	1	☼	8260C	Total/NA
Toluene	52	J	120	33	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3700		240	68	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: SB-13 (6-8')

Lab Sample ID: 480-131427-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	8100		120	34	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	2300		120	37	ug/Kg	1	☼	8260C	Total/NA
4-Isopropyltoluene	170		120	42	ug/Kg	1	☼	8260C	Total/NA
Benzene	52	J	120	23	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	2100		120	36	ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	160		120	19	ug/Kg	1	☼	8260C	Total/NA
m,p-Xylene	9400		250	68	ug/Kg	1	☼	8260C	Total/NA
Methylcyclohexane	420		120	58	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	130	B	120	24	ug/Kg	1	☼	8260C	Total/NA
n-Butylbenzene	540		120	36	ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	880		120	32	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	1100		120	16	ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene	75	J	120	45	ug/Kg	1	☼	8260C	Total/NA
Toluene	280		120	33	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	11000		250	68	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: SB-18 (1.5-2.5)

Lab Sample ID: 480-131427-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	67	J	220	56	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	210	J	220	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200	J	220	33	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	250		220	36	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SB-18 (1.5-2.5) (Continued)

Lab Sample ID: 480-131427-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	160	J	220	24	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	120	J	220	29	ug/Kg	1	☼	8270D	Total/NA
Chrysene	220		220	50	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	300		220	24	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	140	J	220	28	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	86	J	220	29	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	270		220	33	ug/Kg	1	☼	8270D	Total/NA
Pyrene	340		220	26	ug/Kg	1	☼	8270D	Total/NA
Arsenic	11.8		2.5		mg/Kg	1	☼	6010C	Total/NA
Barium	55.9		0.63		mg/Kg	1	☼	6010C	Total/NA
Chromium	10.2		0.63		mg/Kg	1	☼	6010C	Total/NA
Lead	12.8		1.3		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.19		0.027		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-22 (6"-2.5')

Lab Sample ID: 480-131427-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	690	J	1800	180	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	680	J	1800	270	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	850	J	1800	290	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	450	J	1800	190	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	440	J	1800	240	ug/Kg	10	☼	8270D	Total/NA
Chrysene	750	J	1800	410	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	1300	J	1800	190	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	440	J	1800	220	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	560	J	1800	270	ug/Kg	10	☼	8270D	Total/NA
Pyrene	1200	J	1800	210	ug/Kg	10	☼	8270D	Total/NA
Arsenic	8.8		2.2		mg/Kg	1	☼	6010C	Total/NA
Barium	155		0.55		mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.66		0.22		mg/Kg	1	☼	6010C	Total/NA
Chromium	15.1		0.55		mg/Kg	1	☼	6010C	Total/NA
Lead	346		1.1		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.19		0.022		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-1

Lab Sample ID: 480-131427-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	7500	J	45000	4700	ug/Kg	20	☼	8270D	Total/NA
Pyrene	7900	J	45000	5200	ug/Kg	20	☼	8270D	Total/NA

Client Sample ID: SB-12 (2"-6")

Lab Sample ID: 480-131427-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	720	J	1000	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	630	J	1000	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	770	J	1000	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	460	J	1000	110	ug/Kg	5	☼	8270D	Total/NA
Chrysene	700	J	1000	220	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	1300	J	1000	110	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	790	J	1000	150	ug/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SB-12 (2"-6") (Continued)

Lab Sample ID: 480-131427-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	1300		1000	120	ug/Kg	5	☼	8270D	Total/NA
Arsenic	18.3		2.4		mg/Kg	1	☼	6010C	Total/NA
Barium	116		0.59		mg/Kg	1	☼	6010C	Total/NA
Chromium	14.6		0.59		mg/Kg	1	☼	6010C	Total/NA
Lead	63.3		1.2		mg/Kg	1	☼	6010C	Total/NA
Mercury	0.099		0.024		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 480-131427-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.4	J	2.0	0.58	ug/L	2		8260C	Total/NA
Methylene Chloride	0.96	J	2.0	0.88	ug/L	2		8260C	Total/NA
n-Butylbenzene	7.5		2.0	1.3	ug/L	2		8260C	Total/NA
Tetrachloroethene	6.3		2.0	0.72	ug/L	2		8260C	Total/NA
trans-1,2-Dichloroethene	9.2		2.0	1.8	ug/L	2		8260C	Total/NA
Trichloroethene	11		2.0	0.92	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene - DL	470		10	8.1	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	360		10	9.0	ug/L	10		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SB-11 (7-8')

Lab Sample ID: 480-131427-1

Date Collected: 02/16/18 09:55

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		510	140	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
1,1,1,2,2-Tetrachloroethane	ND		510	82	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		510	250	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
1,1,2-Trichloroethane	ND		510	110	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
1,1-Dichloroethane	ND		510	160	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
1,1-Dichloroethene	ND		510	180	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
1,2,4-Trichlorobenzene	ND		510	190	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
1,2,4-Trimethylbenzene	ND		510	140	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
1,2-Dibromo-3-Chloropropane	ND		510	250	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
1,2-Dibromoethane	ND		510	89	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
1,2-Dichlorobenzene	ND		510	130	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
1,2-Dichloroethane	ND		510	210	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
1,2-Dichloropropane	ND		510	82	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
1,3,5-Trimethylbenzene	ND		510	150	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
1,3-Dichlorobenzene	ND		510	140	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
1,4-Dichlorobenzene	ND		510	71	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
2-Butanone (MEK)	ND		2500	1500	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
2-Hexanone	ND		2500	1000	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
4-Isopropyltoluene	ND		510	170	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
4-Methyl-2-pentanone (MIBK)	ND		2500	160	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Acetone	ND		2500	2100	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Benzene	ND		510	96	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Bromodichloromethane	ND		510	100	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Bromoform	ND		510	250	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Bromomethane	ND		510	110	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Carbon disulfide	ND		510	230	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Carbon tetrachloride	ND		510	130	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Chlorobenzene	ND		510	67	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Chloroethane	ND		510	110	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Chloroform	ND		510	350	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Chloromethane	ND		510	120	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
cis-1,2-Dichloroethene	420	J	510	140	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
cis-1,3-Dichloropropene	ND		510	120	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Cyclohexane	ND		510	110	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Dibromochloromethane	ND		510	250	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Dichlorodifluoromethane	ND		510	220	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Ethylbenzene	ND		510	150	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Isopropylbenzene	ND		510	76	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
m,p-Xylene	ND		1000	280	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Methyl acetate	ND		2500	240	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Methyl tert-butyl ether	ND		510	190	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Methylcyclohexane	ND		510	240	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Methylene Chloride	240	J B	510	100	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
n-Butylbenzene	5000		510	150	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
N-Propylbenzene	ND		510	130	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
o-Xylene	ND		510	66	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
sec-Butylbenzene	ND		510	190	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Styrene	ND		510	120	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
tert-Butylbenzene	ND		510	140	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4

TestAmerica Buffalo

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SB-11 (7-8')

Lab Sample ID: 480-131427-1

Date Collected: 02/16/18 09:55

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		510	68	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Toluene	ND		510	140	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
trans-1,2-Dichloroethene	ND		510	120	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
trans-1,3-Dichloropropene	ND		510	50	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Trichloroethene	ND		510	140	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Trichlorofluoromethane	ND		510	240	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Vinyl chloride	ND		510	170	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4
Xylenes, Total	ND		1000	280	ug/Kg	☼	02/20/18 10:43	02/21/18 15:54	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		53 - 146	02/20/18 10:43	02/21/18 15:54	4
4-Bromofluorobenzene (Surr)	96		49 - 148	02/20/18 10:43	02/21/18 15:54	4
Dibromofluoromethane (Surr)	97		60 - 140	02/20/18 10:43	02/21/18 15:54	4
Toluene-d8 (Surr)	102		50 - 149	02/20/18 10:43	02/21/18 15:54	4

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SB-12 (8-9')

Lab Sample ID: 480-131427-2

Date Collected: 02/16/18 10:30

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		120	34	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
1,1,2,2-Tetrachloroethane	ND		120	20	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		120	61	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
1,1,2-Trichloroethane	ND		120	26	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
1,1-Dichloroethane	ND		120	38	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
1,1-Dichloroethene	ND		120	42	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
1,2,4-Trichlorobenzene	ND		120	46	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
1,2,4-Trimethylbenzene	7200		120	34	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
1,2-Dibromo-3-Chloropropane	ND		120	61	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
1,2-Dibromoethane	ND		120	21	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
1,2-Dichlorobenzene	ND		120	31	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
1,2-Dichloroethane	ND		120	50	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
1,2-Dichloropropane	ND		120	20	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
1,3,5-Trimethylbenzene	2400		120	37	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
1,3-Dichlorobenzene	ND		120	33	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
1,4-Dichlorobenzene	ND		120	17	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
2-Butanone (MEK)	ND		610	360	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
2-Hexanone	ND		610	250	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
4-Isopropyltoluene	140		120	41	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
4-Methyl-2-pentanone (MIBK)	ND		610	39	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Acetone	ND		610	500	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Benzene	200		120	23	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Bromodichloromethane	ND		120	24	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Bromoform	ND		120	61	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Bromomethane	ND		120	27	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Carbon disulfide	ND		120	56	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Carbon tetrachloride	ND		120	31	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Chlorobenzene	ND		120	16	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Chloroethane	ND		120	25	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Chloroform	ND		120	84	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Chloromethane	ND		120	29	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
cis-1,2-Dichloroethene	ND		120	34	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
cis-1,3-Dichloropropene	ND		120	29	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Cyclohexane	ND		120	27	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Dibromochloromethane	ND		120	59	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Dichlorodifluoromethane	ND		120	53	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Ethylbenzene	2100		120	36	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Isopropylbenzene	290		120	18	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
m,p-Xylene	3600		240	68	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Methyl acetate	ND		610	58	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Methyl tert-butyl ether	ND		120	46	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Methylcyclohexane	1300		120	57	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Methylene Chloride	150 B		120	24	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
n-Butylbenzene	910		120	36	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
N-Propylbenzene	1300		120	32	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
o-Xylene	92 J		120	16	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
sec-Butylbenzene	180		120	45	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
Styrene	ND		120	29	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1
tert-Butylbenzene	ND		120	34	ug/Kg	*	02/20/18 10:43	02/22/18 14:36	1

TestAmerica Buffalo

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SB-12 (8-9')

Lab Sample ID: 480-131427-2

Date Collected: 02/16/18 10:30

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	63	J	120	16	ug/Kg	☼	02/20/18 10:43	02/22/18 14:36	1
Toluene	52	J	120	33	ug/Kg	☼	02/20/18 10:43	02/22/18 14:36	1
trans-1,2-Dichloroethene	ND		120	29	ug/Kg	☼	02/20/18 10:43	02/22/18 14:36	1
trans-1,3-Dichloropropene	ND		120	12	ug/Kg	☼	02/20/18 10:43	02/22/18 14:36	1
Trichloroethene	ND		120	34	ug/Kg	☼	02/20/18 10:43	02/22/18 14:36	1
Trichlorofluoromethane	ND		120	57	ug/Kg	☼	02/20/18 10:43	02/22/18 14:36	1
Vinyl chloride	ND		120	41	ug/Kg	☼	02/20/18 10:43	02/22/18 14:36	1
Xylenes, Total	3700		240	68	ug/Kg	☼	02/20/18 10:43	02/22/18 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		53 - 146				02/20/18 10:43	02/22/18 14:36	1
4-Bromofluorobenzene (Surr)	95		49 - 148				02/20/18 10:43	02/22/18 14:36	1
Dibromofluoromethane (Surr)	89		60 - 140				02/20/18 10:43	02/22/18 14:36	1
Toluene-d8 (Surr)	96		50 - 149				02/20/18 10:43	02/22/18 14:36	1

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SB-13 (6-8')

Lab Sample ID: 480-131427-3

Date Collected: 02/16/18 11:00

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		120	34	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
1,1,2,2-Tetrachloroethane	ND		120	20	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		120	62	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
1,1,2-Trichloroethane	ND		120	26	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
1,1-Dichloroethane	ND		120	38	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
1,1-Dichloroethene	ND		120	43	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
1,2,4-Trichlorobenzene	ND		120	47	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
1,2,4-Trimethylbenzene	8100		120	34	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
1,2-Dibromo-3-Chloropropane	ND		120	62	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
1,2-Dibromoethane	ND		120	22	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
1,2-Dichlorobenzene	ND		120	31	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
1,2-Dichloroethane	ND		120	51	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
1,2-Dichloropropane	ND		120	20	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
1,3,5-Trimethylbenzene	2300		120	37	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
1,3-Dichlorobenzene	ND		120	33	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
1,4-Dichlorobenzene	ND		120	17	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
2-Butanone (MEK)	ND		620	370	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
2-Hexanone	ND		620	250	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
4-Isopropyltoluene	170		120	42	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
4-Methyl-2-pentanone (MIBK)	ND		620	40	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Acetone	ND		620	510	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Benzene	52	J	120	23	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Bromodichloromethane	ND		120	25	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Bromoform	ND		120	62	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Bromomethane	ND		120	27	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Carbon disulfide	ND		120	56	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Carbon tetrachloride	ND		120	31	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Chlorobenzene	ND		120	16	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Chloroethane	ND		120	26	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Chloroform	ND		120	85	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Chloromethane	ND		120	29	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
cis-1,2-Dichloroethene	ND		120	34	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
cis-1,3-Dichloropropene	ND		120	30	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Cyclohexane	ND		120	27	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Dibromochloromethane	ND		120	60	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Dichlorodifluoromethane	ND		120	54	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Ethylbenzene	2100		120	36	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Isopropylbenzene	160		120	19	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
m,p-Xylene	9400		250	68	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Methyl acetate	ND		620	59	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Methyl tert-butyl ether	ND		120	47	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Methylcyclohexane	420		120	58	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Methylene Chloride	130	B	120	24	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
n-Butylbenzene	540		120	36	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
N-Propylbenzene	880		120	32	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
o-Xylene	1100		120	16	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
sec-Butylbenzene	75	J	120	45	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
Styrene	ND		120	30	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1
tert-Butylbenzene	ND		120	34	ug/Kg	*	02/20/18 10:43	02/22/18 14:59	1

TestAmerica Buffalo

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SB-13 (6-8')

Lab Sample ID: 480-131427-3

Date Collected: 02/16/18 11:00

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		120	17	ug/Kg	☼	02/20/18 10:43	02/22/18 14:59	1
Toluene	280		120	33	ug/Kg	☼	02/20/18 10:43	02/22/18 14:59	1
trans-1,2-Dichloroethene	ND		120	29	ug/Kg	☼	02/20/18 10:43	02/22/18 14:59	1
trans-1,3-Dichloropropene	ND		120	12	ug/Kg	☼	02/20/18 10:43	02/22/18 14:59	1
Trichloroethene	ND		120	34	ug/Kg	☼	02/20/18 10:43	02/22/18 14:59	1
Trichlorofluoromethane	ND		120	58	ug/Kg	☼	02/20/18 10:43	02/22/18 14:59	1
Vinyl chloride	ND		120	41	ug/Kg	☼	02/20/18 10:43	02/22/18 14:59	1
Xylenes, Total	11000		250	68	ug/Kg	☼	02/20/18 10:43	02/22/18 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		53 - 146				02/20/18 10:43	02/22/18 14:59	1
4-Bromofluorobenzene (Surr)	97		49 - 148				02/20/18 10:43	02/22/18 14:59	1
Dibromofluoromethane (Surr)	89		60 - 140				02/20/18 10:43	02/22/18 14:59	1
Toluene-d8 (Surr)	99		50 - 149				02/20/18 10:43	02/22/18 14:59	1

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SB-18 (1.5-2.5)

Lab Sample ID: 480-131427-4

Date Collected: 02/16/18 12:00

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 74.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		220	33	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Acenaphthylene	ND		220	29	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Anthracene	67	J	220	56	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Benzo[a]anthracene	210	J	220	22	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Benzo[a]pyrene	200	J	220	33	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Benzo[b]fluoranthene	250		220	36	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Benzo[g,h,i]perylene	160	J	220	24	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Benzo[k]fluoranthene	120	J	220	29	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Chrysene	220		220	50	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Dibenz(a,h)anthracene	ND		220	40	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Fluoranthene	300		220	24	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Fluorene	ND		220	26	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Indeno[1,2,3-cd]pyrene	140	J	220	28	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Naphthalene	86	J	220	29	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Phenanthrene	270		220	33	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Pyrene	340		220	26	ug/Kg	☼	02/19/18 08:50	02/21/18 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		60 - 120				02/19/18 08:50	02/21/18 20:53	1
Nitrobenzene-d5 (Surr)	78		53 - 120				02/19/18 08:50	02/21/18 20:53	1
p-Terphenyl-d14 (Surr)	95		65 - 121				02/19/18 08:50	02/21/18 20:53	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11.8		2.5		mg/Kg	☼	02/19/18 15:11	02/21/18 06:49	1
Barium	55.9		0.63		mg/Kg	☼	02/19/18 15:11	02/21/18 06:49	1
Cadmium	ND		0.25		mg/Kg	☼	02/19/18 15:11	02/21/18 06:49	1
Chromium	10.2		0.63		mg/Kg	☼	02/19/18 15:11	02/21/18 06:49	1
Lead	12.8		1.3		mg/Kg	☼	02/19/18 15:11	02/21/18 06:49	1
Selenium	ND		5.1		mg/Kg	☼	02/19/18 15:11	02/21/18 06:49	1
Silver	ND		0.76		mg/Kg	☼	02/19/18 15:11	02/21/18 06:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.027		mg/Kg	☼	02/21/18 15:20	02/21/18 17:08	1

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SB-22 (6"-2.5')

Lab Sample ID: 480-131427-5

Date Collected: 02/16/18 12:45

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1800	270	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Acenaphthylene	ND		1800	240	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Anthracene	ND		1800	450	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Benzo[a]anthracene	690	J	1800	180	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Benzo[a]pyrene	680	J	1800	270	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Benzo[b]fluoranthene	850	J	1800	290	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Benzo[g,h,i]perylene	450	J	1800	190	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Benzo[k]fluoranthene	440	J	1800	240	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Chrysene	750	J	1800	410	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Dibenz(a,h)anthracene	ND		1800	320	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Fluoranthene	1300	J	1800	190	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Fluorene	ND		1800	210	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Indeno[1,2,3-cd]pyrene	440	J	1800	220	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Naphthalene	ND		1800	240	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Phenanthrene	560	J	1800	270	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Pyrene	1200	J	1800	210	ug/Kg	☼	02/19/18 08:50	02/21/18 21:20	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		60 - 120				02/19/18 08:50	02/21/18 21:20	10
Nitrobenzene-d5 (Surr)	76		53 - 120				02/19/18 08:50	02/21/18 21:20	10
p-Terphenyl-d14 (Surr)	97		65 - 121				02/19/18 08:50	02/21/18 21:20	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.8		2.2		mg/Kg	☼	02/19/18 15:11	02/21/18 07:18	1
Barium	155		0.55		mg/Kg	☼	02/19/18 15:11	02/21/18 07:18	1
Cadmium	0.66		0.22		mg/Kg	☼	02/19/18 15:11	02/21/18 07:18	1
Chromium	15.1		0.55		mg/Kg	☼	02/19/18 15:11	02/21/18 07:18	1
Lead	346		1.1		mg/Kg	☼	02/19/18 15:11	02/21/18 07:18	1
Selenium	ND		4.4		mg/Kg	☼	02/19/18 15:11	02/21/18 07:18	1
Silver	ND		0.66		mg/Kg	☼	02/19/18 15:11	02/21/18 07:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.022		mg/Kg	☼	02/21/18 15:20	02/21/18 17:10	1

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SS-1

Lab Sample ID: 480-131427-6

Date Collected: 02/16/18 13:50

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 74.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		45000	6600	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Acenaphthylene	ND		45000	5800	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Anthracene	ND		45000	11000	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Benzo[a]anthracene	ND		45000	4500	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Benzo[a]pyrene	ND		45000	6600	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Benzo[b]fluoranthene	ND		45000	7100	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Benzo[g,h,i]perylene	ND		45000	4700	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Benzo[k]fluoranthene	ND		45000	5800	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Chrysene	ND		45000	10000	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Dibenz(a,h)anthracene	ND		45000	7900	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Fluoranthene	7500	J	45000	4700	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Fluorene	ND		45000	5200	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Indeno[1,2,3-cd]pyrene	ND		45000	5500	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Naphthalene	ND		45000	5800	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Phenanthrene	ND		45000	6600	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Pyrene	7900	J	45000	5200	ug/Kg	☼	02/19/18 08:50	02/21/18 21:48	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	X	60 - 120				02/19/18 08:50	02/21/18 21:48	20
Nitrobenzene-d5 (Surr)	0	X	53 - 120				02/19/18 08:50	02/21/18 21:48	20
p-Terphenyl-d14 (Surr)	0	X	65 - 121				02/19/18 08:50	02/21/18 21:48	20

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SB-12 (2"-6")

Lab Sample ID: 480-131427-7

Date Collected: 02/16/18 10:25

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1000	150	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Acenaphthylene	ND		1000	130	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Anthracene	ND		1000	250	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Benzo[a]anthracene	720	J	1000	100	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Benzo[a]pyrene	630	J	1000	150	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Benzo[b]fluoranthene	770	J	1000	160	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Benzo[g,h,i]perylene	460	J	1000	110	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Benzo[k]fluoranthene	ND		1000	130	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Chrysene	700	J	1000	220	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Dibenz(a,h)anthracene	ND		1000	180	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Fluoranthene	1300		1000	110	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Fluorene	ND		1000	120	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Indeno[1,2,3-cd]pyrene	ND		1000	120	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Naphthalene	ND		1000	130	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Phenanthrene	790	J	1000	150	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Pyrene	1300		1000	120	ug/Kg	☼	02/19/18 08:50	02/21/18 22:16	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		60 - 120				02/19/18 08:50	02/21/18 22:16	5
Nitrobenzene-d5 (Surr)	74		53 - 120				02/19/18 08:50	02/21/18 22:16	5
p-Terphenyl-d14 (Surr)	99		65 - 121				02/19/18 08:50	02/21/18 22:16	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	18.3		2.4		mg/Kg	☼	02/19/18 15:11	02/21/18 07:22	1
Barium	116		0.59		mg/Kg	☼	02/19/18 15:11	02/21/18 07:22	1
Cadmium	ND		0.24		mg/Kg	☼	02/19/18 15:11	02/21/18 07:22	1
Chromium	14.6		0.59		mg/Kg	☼	02/19/18 15:11	02/21/18 07:22	1
Lead	63.3		1.2		mg/Kg	☼	02/19/18 15:11	02/21/18 07:22	1
Selenium	ND		4.7		mg/Kg	☼	02/19/18 15:11	02/21/18 07:22	1
Silver	ND		0.71		mg/Kg	☼	02/19/18 15:11	02/21/18 07:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.099		0.024		mg/Kg	☼	02/21/18 15:20	02/21/18 17:11	1

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: MW-2
Date Collected: 02/16/18 13:00
Date Received: 02/16/18 15:15

Lab Sample ID: 480-131427-8
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		2.0	1.6	ug/L			02/20/18 04:12	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			02/20/18 04:12	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			02/20/18 04:12	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			02/20/18 04:12	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			02/20/18 04:12	2
1,1-Dichloroethene	1.4	J	2.0	0.58	ug/L			02/20/18 04:12	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			02/20/18 04:12	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			02/20/18 04:12	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			02/20/18 04:12	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			02/20/18 04:12	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			02/20/18 04:12	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			02/20/18 04:12	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			02/20/18 04:12	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			02/20/18 04:12	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			02/20/18 04:12	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			02/20/18 04:12	2
2-Butanone (MEK)	ND		20	2.6	ug/L			02/20/18 04:12	2
2-Hexanone	ND		10	2.5	ug/L			02/20/18 04:12	2
4-Isopropyltoluene	ND		2.0	0.62	ug/L			02/20/18 04:12	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			02/20/18 04:12	2
Acetone	ND		20	6.0	ug/L			02/20/18 04:12	2
Benzene	ND		2.0	0.82	ug/L			02/20/18 04:12	2
Bromodichloromethane	ND		2.0	0.78	ug/L			02/20/18 04:12	2
Bromoform	ND		2.0	0.52	ug/L			02/20/18 04:12	2
Bromomethane	ND		2.0	1.4	ug/L			02/20/18 04:12	2
Carbon disulfide	ND		2.0	0.38	ug/L			02/20/18 04:12	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			02/20/18 04:12	2
Chlorobenzene	ND		2.0	1.5	ug/L			02/20/18 04:12	2
Chloroethane	ND		2.0	0.64	ug/L			02/20/18 04:12	2
Chloroform	ND		2.0	0.68	ug/L			02/20/18 04:12	2
Chloromethane	ND		2.0	0.70	ug/L			02/20/18 04:12	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			02/20/18 04:12	2
Cyclohexane	ND		2.0	0.36	ug/L			02/20/18 04:12	2
Dibromochloromethane	ND		2.0	0.64	ug/L			02/20/18 04:12	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			02/20/18 04:12	2
Ethylbenzene	ND		2.0	1.5	ug/L			02/20/18 04:12	2
Isopropylbenzene	ND		2.0	1.6	ug/L			02/20/18 04:12	2
m,p-Xylene	ND		4.0	1.3	ug/L			02/20/18 04:12	2
Methyl acetate	ND		5.0	2.6	ug/L			02/20/18 04:12	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			02/20/18 04:12	2
Methylcyclohexane	ND		2.0	0.32	ug/L			02/20/18 04:12	2
Methylene Chloride	0.96	J	2.0	0.88	ug/L			02/20/18 04:12	2
n-Butylbenzene	7.5		2.0	1.3	ug/L			02/20/18 04:12	2
N-Propylbenzene	ND		2.0	1.4	ug/L			02/20/18 04:12	2
o-Xylene	ND		2.0	1.5	ug/L			02/20/18 04:12	2
sec-Butylbenzene	ND		2.0	1.5	ug/L			02/20/18 04:12	2
Styrene	ND		2.0	1.5	ug/L			02/20/18 04:12	2
tert-Butylbenzene	ND		2.0	1.6	ug/L			02/20/18 04:12	2
Tetrachloroethene	6.3		2.0	0.72	ug/L			02/20/18 04:12	2

TestAmerica Buffalo

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: MW-2

Lab Sample ID: 480-131427-8

Date Collected: 02/16/18 13:00

Matrix: Water

Date Received: 02/16/18 15:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		2.0	1.0	ug/L			02/20/18 04:12	2
trans-1,2-Dichloroethene	9.2		2.0	1.8	ug/L			02/20/18 04:12	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			02/20/18 04:12	2
Trichloroethene	11		2.0	0.92	ug/L			02/20/18 04:12	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			02/20/18 04:12	2
Xylenes, Total	ND		4.0	1.3	ug/L			02/20/18 04:12	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		02/20/18 04:12	2
4-Bromofluorobenzene (Surr)	98		73 - 120		02/20/18 04:12	2
Toluene-d8 (Surr)	103		80 - 120		02/20/18 04:12	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	470		10	8.1	ug/L			02/20/18 17:04	10
Vinyl chloride	360		10	9.0	ug/L			02/20/18 17:04	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		02/20/18 17:04	10
4-Bromofluorobenzene (Surr)	100		73 - 120		02/20/18 17:04	10
Toluene-d8 (Surr)	101		80 - 120		02/20/18 17:04	10

Surrogate Summary

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (53-146)	BFB (49-148)	DBFM (60-140)	TOL (50-149)
480-131427-1	SB-11 (7-8')	101	96	97	102
480-131427-2	SB-12 (8-9')	100	95	89	96
480-131427-3	SB-13 (6-8')	97	97	89	99
LCS 480-400648/1-A	Lab Control Sample	100	100	105	105
MB 480-400648/2-A	Method Blank	103	95	95	102

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DCA (77-120)	BFB (73-120)	TOL (80-120)
480-131427-8	MW-2	97	98	103
480-131427-8 - DL	MW-2	100	100	101
LCS 480-400512/8	Lab Control Sample	92	100	102
LCS 480-400616/5	Lab Control Sample	99	102	103
MB 480-400512/28	Method Blank	101	101	105
MB 480-400616/7	Method Blank	102	97	99

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (60-120)	NBZ (53-120)	TPHd14 (65-121)
480-131427-4	SB-18 (1.5-2.5)	82	78	95
480-131427-5	SB-22 (6"-2.5')	78	76	97
480-131427-6	SS-1	0 X	0 X	0 X
480-131427-7	SB-12 (2"-6")	83	74	99
LCS 480-400401/2-A	Lab Control Sample	87	76	100
MB 480-400401/1-A	Method Blank	85	83	97

Surrogate Legend

FBP = 2-Fluorobiphenyl
 NBZ = Nitrobenzene-d5 (Surr)
 TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

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

Lab Sample ID: MB 480-400512/28

Matrix: Water

Analysis Batch: 400512

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			02/20/18 00:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/20/18 00:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/20/18 00:20	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/20/18 00:20	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/20/18 00:20	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/20/18 00:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/20/18 00:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/20/18 00:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/20/18 00:20	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/20/18 00:20	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/20/18 00:20	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/20/18 00:20	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/20/18 00:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/20/18 00:20	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/20/18 00:20	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/20/18 00:20	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/20/18 00:20	1
2-Hexanone	ND		5.0	1.2	ug/L			02/20/18 00:20	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			02/20/18 00:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/20/18 00:20	1
Acetone	ND		10	3.0	ug/L			02/20/18 00:20	1
Benzene	ND		1.0	0.41	ug/L			02/20/18 00:20	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/20/18 00:20	1
Bromoform	ND		1.0	0.26	ug/L			02/20/18 00:20	1
Bromomethane	ND		1.0	0.69	ug/L			02/20/18 00:20	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/20/18 00:20	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/20/18 00:20	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/20/18 00:20	1
Chloroethane	ND		1.0	0.32	ug/L			02/20/18 00:20	1
Chloroform	ND		1.0	0.34	ug/L			02/20/18 00:20	1
Chloromethane	ND		1.0	0.35	ug/L			02/20/18 00:20	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/20/18 00:20	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/20/18 00:20	1
Cyclohexane	ND		1.0	0.18	ug/L			02/20/18 00:20	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/20/18 00:20	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/20/18 00:20	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/20/18 00:20	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/20/18 00:20	1
m,p-Xylene	ND		2.0	0.66	ug/L			02/20/18 00:20	1
Methyl acetate	ND		2.5	1.3	ug/L			02/20/18 00:20	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/20/18 00:20	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/20/18 00:20	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/20/18 00:20	1
n-Butylbenzene	ND		1.0	0.64	ug/L			02/20/18 00:20	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/20/18 00:20	1
o-Xylene	ND		1.0	0.76	ug/L			02/20/18 00:20	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			02/20/18 00:20	1
Styrene	ND		1.0	0.73	ug/L			02/20/18 00:20	1

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

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

Lab Sample ID: MB 480-400512/28

Matrix: Water

Analysis Batch: 400512

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0	0.81	ug/L			02/20/18 00:20	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/20/18 00:20	1
Toluene	ND		1.0	0.51	ug/L			02/20/18 00:20	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/20/18 00:20	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/20/18 00:20	1
Trichloroethene	ND		1.0	0.46	ug/L			02/20/18 00:20	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/20/18 00:20	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/20/18 00:20	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/20/18 00:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		02/20/18 00:20	1
4-Bromofluorobenzene (Surr)	101		73 - 120		02/20/18 00:20	1
Toluene-d8 (Surr)	105		80 - 120		02/20/18 00:20	1

Lab Sample ID: LCS 480-400512/8

Matrix: Water

Analysis Batch: 400512

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	23.2		ug/L		93	73 - 126
1,1,1,2-Tetrachloroethane	25.0	19.7		ug/L		79	76 - 120
1,1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.6		ug/L		114	61 - 148
1,1,2-Trichloroethane	25.0	23.0		ug/L		92	76 - 122
1,1-Dichloroethane	25.0	25.5		ug/L		102	77 - 120
1,1-Dichloroethene	25.0	25.0		ug/L		100	66 - 127
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	79 - 122
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	14.5		ug/L		58	56 - 134
1,2-Dibromoethane	25.0	22.5		ug/L		90	77 - 120
1,2-Dichlorobenzene	25.0	24.1		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	23.1		ug/L		93	75 - 120
1,2-Dichloropropane	25.0	25.0		ug/L		100	76 - 120
1,3,5-Trimethylbenzene	25.0	23.3		ug/L		93	77 - 121
1,3-Dichlorobenzene	25.0	24.4		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	23.9		ug/L		96	80 - 120
2-Butanone (MEK)	125	94.8		ug/L		76	57 - 140
2-Hexanone	125	90.5		ug/L		72	65 - 127
4-Isopropyltoluene	25.0	24.3		ug/L		97	73 - 120
4-Methyl-2-pentanone (MIBK)	125	93.5		ug/L		75	71 - 125
Acetone	125	93.2		ug/L		75	56 - 142
Benzene	25.0	25.7		ug/L		103	71 - 124
Bromodichloromethane	25.0	23.5		ug/L		94	80 - 122
Bromoform	25.0	19.6		ug/L		78	61 - 132
Bromomethane	25.0	27.5		ug/L		110	55 - 144
Carbon disulfide	25.0	22.8		ug/L		91	59 - 134
Carbon tetrachloride	25.0	23.2		ug/L		93	72 - 134

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

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

Lab Sample ID: LCS 480-400512/8

Matrix: Water

Analysis Batch: 400512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	25.0	25.8		ug/L		103	80 - 120
Chloroethane	25.0	27.7		ug/L		111	69 - 136
Chloroform	25.0	24.8		ug/L		99	73 - 127
Chloromethane	25.0	25.9		ug/L		104	68 - 124
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	74 - 124
cis-1,3-Dichloropropene	25.0	23.8		ug/L		95	74 - 124
Cyclohexane	25.0	24.5		ug/L		98	59 - 135
Dibromochloromethane	25.0	22.1		ug/L		88	75 - 125
Dichlorodifluoromethane	25.0	29.3		ug/L		117	59 - 135
Ethylbenzene	25.0	24.3		ug/L		97	77 - 123
Isopropylbenzene	25.0	22.8		ug/L		91	77 - 122
m,p-Xylene	25.0	24.2		ug/L		97	76 - 122
Methyl acetate	50.0	39.5		ug/L		79	74 - 133
Methyl tert-butyl ether	25.0	22.2		ug/L		89	77 - 120
Methylcyclohexane	25.0	25.5		ug/L		102	68 - 134
Methylene Chloride	25.0	24.9		ug/L		100	75 - 124
n-Butylbenzene	25.0	23.9		ug/L		96	71 - 128
N-Propylbenzene	25.0	23.4		ug/L		93	75 - 127
o-Xylene	25.0	24.6		ug/L		98	76 - 122
sec-Butylbenzene	25.0	24.1		ug/L		97	74 - 127
Styrene	25.0	24.6		ug/L		98	80 - 120
tert-Butylbenzene	25.0	24.5		ug/L		98	75 - 123
Tetrachloroethene	25.0	26.6		ug/L		106	74 - 122
Toluene	25.0	25.3		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	73 - 127
trans-1,3-Dichloropropene	25.0	23.0		ug/L		92	80 - 120
Trichloroethene	25.0	24.0		ug/L		96	74 - 123
Trichlorofluoromethane	25.0	28.6		ug/L		114	62 - 150
Vinyl chloride	25.0	27.8		ug/L		111	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: MB 480-400616/7

Matrix: Water

Analysis Batch: 400616

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			02/20/18 12:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/20/18 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/20/18 12:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/20/18 12:07	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/20/18 12:07	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/20/18 12:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/20/18 12:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/20/18 12:07	1

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

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

Lab Sample ID: MB 480-400616/7

Matrix: Water

Analysis Batch: 400616

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/20/18 12:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/20/18 12:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/20/18 12:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/20/18 12:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/20/18 12:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/20/18 12:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/20/18 12:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/20/18 12:07	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/20/18 12:07	1
2-Hexanone	ND		5.0	1.2	ug/L			02/20/18 12:07	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			02/20/18 12:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/20/18 12:07	1
Acetone	ND		10	3.0	ug/L			02/20/18 12:07	1
Benzene	ND		1.0	0.41	ug/L			02/20/18 12:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/20/18 12:07	1
Bromoform	ND		1.0	0.26	ug/L			02/20/18 12:07	1
Bromomethane	ND		1.0	0.69	ug/L			02/20/18 12:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/20/18 12:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/20/18 12:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/20/18 12:07	1
Chloroethane	ND		1.0	0.32	ug/L			02/20/18 12:07	1
Chloroform	ND		1.0	0.34	ug/L			02/20/18 12:07	1
Chloromethane	ND		1.0	0.35	ug/L			02/20/18 12:07	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/20/18 12:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/20/18 12:07	1
Cyclohexane	ND		1.0	0.18	ug/L			02/20/18 12:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/20/18 12:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/20/18 12:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/20/18 12:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/20/18 12:07	1
m,p-Xylene	ND		2.0	0.66	ug/L			02/20/18 12:07	1
Methyl acetate	ND		2.5	1.3	ug/L			02/20/18 12:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/20/18 12:07	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/20/18 12:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/20/18 12:07	1
n-Butylbenzene	ND		1.0	0.64	ug/L			02/20/18 12:07	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/20/18 12:07	1
o-Xylene	ND		1.0	0.76	ug/L			02/20/18 12:07	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			02/20/18 12:07	1
Styrene	ND		1.0	0.73	ug/L			02/20/18 12:07	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			02/20/18 12:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/20/18 12:07	1
Toluene	ND		1.0	0.51	ug/L			02/20/18 12:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/20/18 12:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/20/18 12:07	1
Trichloroethene	ND		1.0	0.46	ug/L			02/20/18 12:07	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/20/18 12:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/20/18 12:07	1

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

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

Lab Sample ID: MB 480-400616/7

Matrix: Water

Analysis Batch: 400616

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			02/20/18 12:07	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					02/20/18 12:07	1
4-Bromofluorobenzene (Surr)	97		73 - 120					02/20/18 12:07	1
Toluene-d8 (Surr)	99		80 - 120					02/20/18 12:07	1

Lab Sample ID: LCS 480-400616/5

Matrix: Water

Analysis Batch: 400616

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	26.5		ug/L		106	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		99	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.6		ug/L		118	61 - 148
1,1,2-Trichloroethane	25.0	27.2		ug/L		109	76 - 122
1,1-Dichloroethane	25.0	28.3		ug/L		113	77 - 120
1,1-Dichloroethene	25.0	28.7		ug/L		115	66 - 127
1,2,4-Trichlorobenzene	25.0	26.3		ug/L		105	79 - 122
1,2,4-Trimethylbenzene	25.0	26.3		ug/L		105	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	20.0		ug/L		80	56 - 134
1,2-Dibromoethane	25.0	27.0		ug/L		108	77 - 120
1,2-Dichlorobenzene	25.0	26.9		ug/L		107	80 - 124
1,2-Dichloroethane	25.0	26.9		ug/L		108	75 - 120
1,2-Dichloropropane	25.0	28.5		ug/L		114	76 - 120
1,3,5-Trimethylbenzene	25.0	26.1		ug/L		105	77 - 121
1,3-Dichlorobenzene	25.0	27.2		ug/L		109	77 - 120
1,4-Dichlorobenzene	25.0	26.4		ug/L		106	80 - 120
2-Butanone (MEK)	125	134		ug/L		107	57 - 140
2-Hexanone	125	125		ug/L		100	65 - 127
4-Isopropyltoluene	25.0	27.1		ug/L		108	73 - 120
4-Methyl-2-pentanone (MIBK)	125	128		ug/L		102	71 - 125
Acetone	125	129		ug/L		103	56 - 142
Benzene	25.0	28.5		ug/L		114	71 - 124
Bromodichloromethane	25.0	26.1		ug/L		104	80 - 122
Bromoform	25.0	24.9		ug/L		100	61 - 132
Bromomethane	25.0	29.2		ug/L		117	55 - 144
Carbon disulfide	25.0	26.1		ug/L		104	59 - 134
Carbon tetrachloride	25.0	26.5		ug/L		106	72 - 134
Chlorobenzene	25.0	28.1		ug/L		113	80 - 120
Chloroethane	25.0	31.0		ug/L		124	69 - 136
Chloroform	25.0	27.1		ug/L		108	73 - 127
Chloromethane	25.0	27.7		ug/L		111	68 - 124
cis-1,2-Dichloroethene	25.0	28.1		ug/L		112	74 - 124
cis-1,3-Dichloropropene	25.0	27.5		ug/L		110	74 - 124
Cyclohexane	25.0	27.3		ug/L		109	59 - 135
Dibromochloromethane	25.0	26.5		ug/L		106	75 - 125

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

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

Lab Sample ID: LCS 480-400616/5

Matrix: Water

Analysis Batch: 400616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	25.0	31.8		ug/L		127	59 - 135
Ethylbenzene	25.0	27.2		ug/L		109	77 - 123
Isopropylbenzene	25.0	25.9		ug/L		103	77 - 122
m,p-Xylene	25.0	26.8		ug/L		107	76 - 122
Methyl acetate	50.0	54.8		ug/L		110	74 - 133
Methyl tert-butyl ether	25.0	26.6		ug/L		106	77 - 120
Methylcyclohexane	25.0	30.1		ug/L		120	68 - 134
Methylene Chloride	25.0	34.8	*	ug/L		139	75 - 124
n-Butylbenzene	25.0	27.1		ug/L		109	71 - 128
N-Propylbenzene	25.0	26.8		ug/L		107	75 - 127
o-Xylene	25.0	26.9		ug/L		108	76 - 122
sec-Butylbenzene	25.0	27.0		ug/L		108	74 - 127
Styrene	25.0	26.9		ug/L		108	80 - 120
tert-Butylbenzene	25.0	26.8		ug/L		107	75 - 123
Tetrachloroethene	25.0	28.9		ug/L		115	74 - 122
Toluene	25.0	27.0		ug/L		108	80 - 122
trans-1,2-Dichloroethene	25.0	28.3		ug/L		113	73 - 127
trans-1,3-Dichloropropene	25.0	26.3		ug/L		105	80 - 120
Trichloroethene	25.0	26.7		ug/L		107	74 - 123
Trichlorofluoromethane	25.0	29.7		ug/L		119	62 - 150
Vinyl chloride	25.0	30.7		ug/L		123	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: MB 480-400648/2-A

Matrix: Solid

Analysis Batch: 400787

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 400648

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,1-Dichloroethane	ND		100	31	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,1-Dichloroethene	ND		100	35	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,2,4-Trimethylbenzene	ND		100	28	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,2-Dibromo-3-Chloropropane	ND		100	50	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,2-Dibromoethane	ND		100	18	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,2-Dichlorobenzene	ND		100	26	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,2-Dichloroethane	ND		100	41	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,2-Dichloropropane	ND		100	16	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,3,5-Trimethylbenzene	ND		100	30	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg		02/20/18 10:43	02/21/18 11:01	1

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

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

Lab Sample ID: MB 480-400648/2-A
Matrix: Solid
Analysis Batch: 400787

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 400648

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Butanone (MEK)	ND		500	300	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
2-Hexanone	ND		500	210	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
4-Isopropyltoluene	ND		100	34	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
4-Methyl-2-pentanone (MIBK)	ND		500	32	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Acetone	ND		500	410	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Benzene	ND		100	19	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Bromodichloromethane	ND		100	20	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Bromoform	ND		100	50	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Bromomethane	ND		100	22	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Carbon disulfide	ND		100	46	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Carbon tetrachloride	ND		100	26	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Chlorobenzene	ND		100	13	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Chloroethane	ND		100	21	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Chloroform	ND		100	69	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Chloromethane	ND		100	24	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Cyclohexane	ND		100	22	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Dibromochloromethane	ND		100	48	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Dichlorodifluoromethane	ND		100	44	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Ethylbenzene	ND		100	29	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Isopropylbenzene	ND		100	15	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
m,p-Xylene	ND		200	55	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Methyl acetate	ND		500	48	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Methylcyclohexane	ND		100	47	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Methylene Chloride	88.0	J	100	20	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
n-Butylbenzene	ND		100	29	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
N-Propylbenzene	ND		100	26	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
o-Xylene	ND		100	13	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
sec-Butylbenzene	ND		100	37	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Styrene	ND		100	24	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
tert-Butylbenzene	ND		100	28	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Tetrachloroethene	ND		100	13	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Toluene	ND		100	27	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
trans-1,2-Dichloroethene	ND		100	24	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
trans-1,3-Dichloropropene	ND		100	9.8	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Trichloroethene	ND		100	28	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Trichlorofluoromethane	ND		100	47	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Vinyl chloride	ND		100	34	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Xylenes, Total	ND		200	55	ug/Kg		02/20/18 10:43	02/21/18 11:01	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	103		53 - 146	02/20/18 10:43	02/21/18 11:01	1
4-Bromofluorobenzene (Surr)	95		49 - 148	02/20/18 10:43	02/21/18 11:01	1
Dibromofluoromethane (Surr)	95		60 - 140	02/20/18 10:43	02/21/18 11:01	1
Toluene-d8 (Surr)	102		50 - 149	02/20/18 10:43	02/21/18 11:01	1

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

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

Lab Sample ID: LCS 480-400648/1-A

Matrix: Solid

Analysis Batch: 400787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 400648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	2390		ug/Kg		96	68 - 130
1,1,1,2-Tetrachloroethane	2500	2260		ug/Kg		90	73 - 120
1,1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2560		ug/Kg		102	10 - 179
1,1,1,2-Trichloroethane	2500	2550		ug/Kg		102	80 - 120
1,1-Dichloroethane	2500	2660		ug/Kg		106	78 - 121
1,1-Dichloroethene	2500	2540		ug/Kg		101	48 - 133
1,2,4-Trichlorobenzene	2500	2510		ug/Kg		100	70 - 140
1,2,4-Trimethylbenzene	2500	2490		ug/Kg		100	77 - 127
1,2-Dibromo-3-Chloropropane	2500	1680		ug/Kg		67	56 - 122
1,2-Dibromoethane	2500	2410		ug/Kg		96	80 - 120
1,2-Dichlorobenzene	2500	2530		ug/Kg		101	78 - 125
1,2-Dichloroethane	2500	2540		ug/Kg		101	74 - 127
1,2-Dichloropropane	2500	2590		ug/Kg		104	80 - 120
1,3,5-Trimethylbenzene	2500	2510		ug/Kg		100	79 - 120
1,3-Dichlorobenzene	2500	2550		ug/Kg		102	80 - 120
1,4-Dichlorobenzene	2500	2510		ug/Kg		100	80 - 120
2-Butanone (MEK)	12500	11200		ug/Kg		89	54 - 149
2-Hexanone	12500	10600		ug/Kg		85	59 - 127
4-Isopropyltoluene	2500	2620		ug/Kg		105	80 - 120
4-Methyl-2-pentanone (MIBK)	12500	11100		ug/Kg		88	74 - 120
Acetone	12500	8220		ug/Kg		66	47 - 141
Benzene	2500	2670		ug/Kg		107	77 - 125
Bromodichloromethane	2500	2280		ug/Kg		91	71 - 121
Bromoform	2500	2050		ug/Kg		82	48 - 125
Bromomethane	2500	2720		ug/Kg		109	39 - 149
Carbon disulfide	2500	2170		ug/Kg		87	40 - 136
Carbon tetrachloride	2500	2410		ug/Kg		97	54 - 135
Chlorobenzene	2500	2630		ug/Kg		105	76 - 126
Chloroethane	2500	2850		ug/Kg		114	23 - 150
Chloroform	2500	2610		ug/Kg		105	78 - 120
Chloromethane	2500	2530		ug/Kg		101	61 - 124
cis-1,2-Dichloroethene	2500	2600		ug/Kg		104	79 - 124
cis-1,3-Dichloropropene	2500	2440		ug/Kg		97	75 - 121
Cyclohexane	2500	2620		ug/Kg		105	49 - 129
Dibromochloromethane	2500	2300		ug/Kg		92	64 - 120
Dichlorodifluoromethane	2500	2950		ug/Kg		118	10 - 150
Ethylbenzene	2500	2590		ug/Kg		104	78 - 124
Isopropylbenzene	2500	2510		ug/Kg		100	76 - 120
m,p-Xylene	2500	2520		ug/Kg		101	77 - 125
Methyl acetate	5000	5070		ug/Kg		101	71 - 123
Methyl tert-butyl ether	2500	2390		ug/Kg		96	67 - 137
Methylcyclohexane	2500	2870		ug/Kg		115	50 - 130
Methylene Chloride	2500	2490		ug/Kg		100	75 - 118
n-Butylbenzene	2500	2600		ug/Kg		104	80 - 120
N-Propylbenzene	2500	2600		ug/Kg		104	76 - 120
o-Xylene	2500	2590		ug/Kg		103	80 - 124
sec-Butylbenzene	2500	2650		ug/Kg		106	79 - 120

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

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

Lab Sample ID: LCS 480-400648/1-A

Matrix: Solid

Analysis Batch: 400787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 400648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	2500	2550		ug/Kg		102	80 - 120
tert-Butylbenzene	2500	2540		ug/Kg		102	78 - 120
Tetrachloroethene	2500	2740		ug/Kg		110	73 - 133
Toluene	2500	2580		ug/Kg		103	75 - 124
trans-1,2-Dichloroethene	2500	2550		ug/Kg		102	74 - 129
trans-1,3-Dichloropropene	2500	2350		ug/Kg		94	73 - 120
Trichloroethene	2500	2550		ug/Kg		102	75 - 131
Trichlorofluoromethane	2500	3220		ug/Kg		129	29 - 158
Vinyl chloride	2500	2850		ug/Kg		114	59 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		53 - 146
4-Bromofluorobenzene (Surr)	100		49 - 148
Dibromofluoromethane (Surr)	105		60 - 140
Toluene-d8 (Surr)	105		50 - 149

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

Lab Sample ID: MB 480-400401/1-A

Matrix: Solid

Analysis Batch: 400911

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 400401

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		160	24	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Acenaphthylene	ND		160	21	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Anthracene	ND		160	41	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Benzo[a]anthracene	ND		160	16	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Benzo[a]pyrene	ND		160	24	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Benzo[b]fluoranthene	ND		160	26	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Benzo[g,h,i]perylene	ND		160	17	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Benzo[k]fluoranthene	ND		160	21	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Chrysene	ND		160	37	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Dibenz(a,h)anthracene	ND		160	29	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Fluoranthene	ND		160	17	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Fluorene	ND		160	19	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Indeno[1,2,3-cd]pyrene	ND		160	20	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Naphthalene	ND		160	21	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Phenanthrene	ND		160	24	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Pyrene	ND		160	19	ug/Kg		02/19/18 08:50	02/21/18 16:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		60 - 120	02/19/18 08:50	02/21/18 16:48	1
Nitrobenzene-d5 (Surr)	83		53 - 120	02/19/18 08:50	02/21/18 16:48	1
p-Terphenyl-d14 (Surr)	97		65 - 121	02/19/18 08:50	02/21/18 16:48	1

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

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

Lab Sample ID: LCS 480-400401/2-A

Matrix: Solid

Analysis Batch: 400911

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 400401

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1650	1560		ug/Kg		95	62 - 120
Acenaphthylene	1650	1460		ug/Kg		88	58 - 121
Anthracene	1650	1500		ug/Kg		91	62 - 120
Benzo[a]anthracene	1650	1640		ug/Kg		100	65 - 120
Benzo[a]pyrene	1650	1600		ug/Kg		97	64 - 120
Benzo[b]fluoranthene	1650	1580		ug/Kg		96	64 - 120
Benzo[g,h,i]perylene	1650	1540		ug/Kg		94	45 - 145
Benzo[k]fluoranthene	1650	1630		ug/Kg		99	65 - 120
Chrysene	1650	1610		ug/Kg		98	64 - 120
Dibenz(a,h)anthracene	1650	1580		ug/Kg		96	54 - 132
Fluoranthene	1650	1550		ug/Kg		94	62 - 120
Fluorene	1650	1500		ug/Kg		91	63 - 120
Indeno[1,2,3-cd]pyrene	1650	1570		ug/Kg		95	56 - 134
Naphthalene	1650	1330		ug/Kg		81	55 - 120
Phenanthrene	1650	1500		ug/Kg		91	60 - 120
Pyrene	1650	1610		ug/Kg		98	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	87		60 - 120
Nitrobenzene-d5 (Surr)	76		53 - 120
p-Terphenyl-d14 (Surr)	100		65 - 121

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-400455/1-A

Matrix: Solid

Analysis Batch: 400892

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 400455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0		mg/Kg		02/19/18 15:11	02/21/18 06:42	1
Barium	ND		0.50		mg/Kg		02/19/18 15:11	02/21/18 06:42	1
Cadmium	ND		0.20		mg/Kg		02/19/18 15:11	02/21/18 06:42	1
Chromium	ND		0.50		mg/Kg		02/19/18 15:11	02/21/18 06:42	1
Lead	ND		1.0		mg/Kg		02/19/18 15:11	02/21/18 06:42	1
Selenium	ND		4.0		mg/Kg		02/19/18 15:11	02/21/18 06:42	1
Silver	ND		0.60		mg/Kg		02/19/18 15:11	02/21/18 06:42	1

Lab Sample ID: LCSSRM 480-400455/2-A

Matrix: Solid

Analysis Batch: 400892

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 400455

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	146	115.2		mg/Kg		78.9	69.9 - 132.9
Barium	102	80.42		mg/Kg		78.8	71.5 - 136.3
Cadmium	63.2	52.37		mg/Kg		82.9	73.3 - 141.5

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

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

Lab Sample ID: LCSSRM 480-400455/2-A
Matrix: Solid
Analysis Batch: 400892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 400455

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	89.3	72.36		mg/Kg		81.0	69.1 - 143.3
Lead	98.5	88.42		mg/Kg		89.8	70.8 - 137.1
Selenium	136	105.2		mg/Kg		77.3	67.1 - 136.8
Silver	48.9	37.25		mg/Kg		76.2	66.5 - 139.5

Lab Sample ID: 480-131427-4 MS
Matrix: Solid
Analysis Batch: 400892

Client Sample ID: SB-18 (1.5-2.5)
Prep Type: Total/NA
Prep Batch: 400455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	11.8		52.4	60.78		mg/Kg	*	93	75 - 125
Barium	55.9		52.4	111.4		mg/Kg	*	106	75 - 125
Cadmium	ND		52.4	49.71		mg/Kg	*	95	75 - 125
Chromium	10.2		52.4	71.62		mg/Kg	*	117	75 - 125
Lead	12.8		52.4	64.97		mg/Kg	*	100	75 - 125
Selenium	ND		52.4	47.27		mg/Kg	*	88	75 - 125
Silver	ND		13.1	12.18		mg/Kg	*	93	75 - 125

Lab Sample ID: 480-131427-4 MSD
Matrix: Solid
Analysis Batch: 400892

Client Sample ID: SB-18 (1.5-2.5)
Prep Type: Total/NA
Prep Batch: 400455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	11.8		53.1	63.60		mg/Kg	*	98	75 - 125	5	20
Barium	55.9		53.1	104.8		mg/Kg	*	92	75 - 125	6	20
Cadmium	ND		53.1	49.56		mg/Kg	*	93	75 - 125	0	20
Chromium	10.2		53.1	63.50		mg/Kg	*	101	75 - 125	12	20
Lead	12.8		53.1	63.38		mg/Kg	*	95	75 - 125	2	20
Selenium	ND		53.1	46.90		mg/Kg	*	87	75 - 125	1	20
Silver	ND		13.3	12.07		mg/Kg	*	91	75 - 125	1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-400925/1-A
Matrix: Solid
Analysis Batch: 400946

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 400925

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019		mg/Kg		02/21/18 15:20	02/21/18 16:49	1

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

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

Lab Sample ID: LCSSRM 480-400925/2-A ^10
Matrix: Solid
Analysis Batch: 400946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 400925

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	12.6	13.36		mg/Kg		106.0	44.4 - 128.6

QC Association Summary

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

GC/MS VOA

Analysis Batch: 400512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131427-8	MW-2	Total/NA	Water	8260C	
MB 480-400512/28	Method Blank	Total/NA	Water	8260C	
LCS 480-400512/8	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 400616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131427-8 - DL	MW-2	Total/NA	Water	8260C	
MB 480-400616/7	Method Blank	Total/NA	Water	8260C	
LCS 480-400616/5	Lab Control Sample	Total/NA	Water	8260C	

Prep Batch: 400648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131427-1	SB-11 (7-8')	Total/NA	Solid	5035A_H	
480-131427-2	SB-12 (8-9')	Total/NA	Solid	5035A_H	
480-131427-3	SB-13 (6-8')	Total/NA	Solid	5035A_H	
MB 480-400648/2-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-400648/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	

Analysis Batch: 400787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131427-1	SB-11 (7-8')	Total/NA	Solid	8260C	400648
MB 480-400648/2-A	Method Blank	Total/NA	Solid	8260C	400648
LCS 480-400648/1-A	Lab Control Sample	Total/NA	Solid	8260C	400648

Analysis Batch: 400993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131427-2	SB-12 (8-9')	Total/NA	Solid	8260C	400648
480-131427-3	SB-13 (6-8')	Total/NA	Solid	8260C	400648

GC/MS Semi VOA

Prep Batch: 400401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131427-4	SB-18 (1.5-2.5)	Total/NA	Solid	3550C	
480-131427-5	SB-22 (6"-2.5')	Total/NA	Solid	3550C	
480-131427-6	SS-1	Total/NA	Solid	3550C	
480-131427-7	SB-12 (2"-6")	Total/NA	Solid	3550C	
MB 480-400401/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-400401/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 400911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131427-4	SB-18 (1.5-2.5)	Total/NA	Solid	8270D	400401
480-131427-5	SB-22 (6"-2.5')	Total/NA	Solid	8270D	400401
480-131427-6	SS-1	Total/NA	Solid	8270D	400401
480-131427-7	SB-12 (2"-6")	Total/NA	Solid	8270D	400401
MB 480-400401/1-A	Method Blank	Total/NA	Solid	8270D	400401
LCS 480-400401/2-A	Lab Control Sample	Total/NA	Solid	8270D	400401

TestAmerica Buffalo

QC Association Summary

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Metals

Prep Batch: 400455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131427-4	SB-18 (1.5-2.5)	Total/NA	Solid	3050B	
480-131427-5	SB-22 (6"-2.5')	Total/NA	Solid	3050B	
480-131427-7	SB-12 (2"-6")	Total/NA	Solid	3050B	
MB 480-400455/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-400455/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-131427-4 MS	SB-18 (1.5-2.5)	Total/NA	Solid	3050B	
480-131427-4 MSD	SB-18 (1.5-2.5)	Total/NA	Solid	3050B	

Analysis Batch: 400892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131427-4	SB-18 (1.5-2.5)	Total/NA	Solid	6010C	400455
480-131427-5	SB-22 (6"-2.5')	Total/NA	Solid	6010C	400455
480-131427-7	SB-12 (2"-6")	Total/NA	Solid	6010C	400455
MB 480-400455/1-A	Method Blank	Total/NA	Solid	6010C	400455
LCSSRM 480-400455/2-A	Lab Control Sample	Total/NA	Solid	6010C	400455
480-131427-4 MS	SB-18 (1.5-2.5)	Total/NA	Solid	6010C	400455
480-131427-4 MSD	SB-18 (1.5-2.5)	Total/NA	Solid	6010C	400455

Prep Batch: 400925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131427-4	SB-18 (1.5-2.5)	Total/NA	Solid	7471B	
480-131427-5	SB-22 (6"-2.5')	Total/NA	Solid	7471B	
480-131427-7	SB-12 (2"-6")	Total/NA	Solid	7471B	
MB 480-400925/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-400925/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 400946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131427-4	SB-18 (1.5-2.5)	Total/NA	Solid	7471B	400925
480-131427-5	SB-22 (6"-2.5')	Total/NA	Solid	7471B	400925
480-131427-7	SB-12 (2"-6")	Total/NA	Solid	7471B	400925
MB 480-400925/1-A	Method Blank	Total/NA	Solid	7471B	400925
LCSSRM 480-400925/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	400925

General Chemistry

Analysis Batch: 400298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131427-4	SB-18 (1.5-2.5)	Total/NA	Solid	Moisture	
480-131427-5	SB-22 (6"-2.5')	Total/NA	Solid	Moisture	
480-131427-6	SS-1	Total/NA	Solid	Moisture	
480-131427-7	SB-12 (2"-6")	Total/NA	Solid	Moisture	

Analysis Batch: 400659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131427-1	SB-11 (7-8')	Total/NA	Solid	Moisture	
480-131427-2	SB-12 (8-9')	Total/NA	Solid	Moisture	
480-131427-3	SB-13 (6-8')	Total/NA	Solid	Moisture	

TestAmerica Buffalo

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SB-11 (7-8')

Lab Sample ID: 480-131427-1

Date Collected: 02/16/18 09:55

Matrix: Solid

Date Received: 02/16/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	400659	02/20/18 11:22	CDC	TAL BUF

Client Sample ID: SB-11 (7-8')

Lab Sample ID: 480-131427-1

Date Collected: 02/16/18 09:55

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			400648	02/20/18 10:43	CDC	TAL BUF
Total/NA	Analysis	8260C		4	400787	02/21/18 15:54	AMM	TAL BUF

Client Sample ID: SB-12 (8-9')

Lab Sample ID: 480-131427-2

Date Collected: 02/16/18 10:30

Matrix: Solid

Date Received: 02/16/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	400659	02/20/18 11:22	CDC	TAL BUF

Client Sample ID: SB-12 (8-9')

Lab Sample ID: 480-131427-2

Date Collected: 02/16/18 10:30

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			400648	02/20/18 10:43	CDC	TAL BUF
Total/NA	Analysis	8260C		1	400993	02/22/18 14:36	AMM	TAL BUF

Client Sample ID: SB-13 (6-8')

Lab Sample ID: 480-131427-3

Date Collected: 02/16/18 11:00

Matrix: Solid

Date Received: 02/16/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	400659	02/20/18 11:22	CDC	TAL BUF

Client Sample ID: SB-13 (6-8')

Lab Sample ID: 480-131427-3

Date Collected: 02/16/18 11:00

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			400648	02/20/18 10:43	CDC	TAL BUF
Total/NA	Analysis	8260C		1	400993	02/22/18 14:59	AMM	TAL BUF

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SB-18 (1.5-2.5)

Lab Sample ID: 480-131427-4

Date Collected: 02/16/18 12:00

Matrix: Solid

Date Received: 02/16/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	400298	02/17/18 07:32	CSW	TAL BUF

Client Sample ID: SB-18 (1.5-2.5)

Lab Sample ID: 480-131427-4

Date Collected: 02/16/18 12:00

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 74.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			400401	02/19/18 08:50	NMC	TAL BUF
Total/NA	Analysis	8270D		1	400911	02/21/18 20:53	PJQ	TAL BUF
Total/NA	Prep	3050B			400455	02/19/18 15:11	SMF	TAL BUF
Total/NA	Analysis	6010C		1	400892	02/21/18 06:49	AMH	TAL BUF
Total/NA	Prep	7471B			400925	02/21/18 15:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	400946	02/21/18 17:08	BMB	TAL BUF

Client Sample ID: SB-22 (6"-2.5')

Lab Sample ID: 480-131427-5

Date Collected: 02/16/18 12:45

Matrix: Solid

Date Received: 02/16/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	400298	02/17/18 07:32	CSW	TAL BUF

Client Sample ID: SB-22 (6"-2.5')

Lab Sample ID: 480-131427-5

Date Collected: 02/16/18 12:45

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			400401	02/19/18 08:50	NMC	TAL BUF
Total/NA	Analysis	8270D		10	400911	02/21/18 21:20	PJQ	TAL BUF
Total/NA	Prep	3050B			400455	02/19/18 15:11	SMF	TAL BUF
Total/NA	Analysis	6010C		1	400892	02/21/18 07:18	AMH	TAL BUF
Total/NA	Prep	7471B			400925	02/21/18 15:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	400946	02/21/18 17:10	BMB	TAL BUF

Client Sample ID: SS-1

Lab Sample ID: 480-131427-6

Date Collected: 02/16/18 13:50

Matrix: Solid

Date Received: 02/16/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	400298	02/17/18 07:32	CSW	TAL BUF

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Client Sample ID: SS-1

Lab Sample ID: 480-131427-6

Date Collected: 02/16/18 13:50

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			400401	02/19/18 08:50	NMC	TAL BUF
Total/NA	Analysis	8270D		20	400911	02/21/18 21:48	PJQ	TAL BUF

Client Sample ID: SB-12 (2"-6")

Lab Sample ID: 480-131427-7

Date Collected: 02/16/18 10:25

Matrix: Solid

Date Received: 02/16/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	400298	02/17/18 07:32	CSW	TAL BUF

Client Sample ID: SB-12 (2"-6")

Lab Sample ID: 480-131427-7

Date Collected: 02/16/18 10:25

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			400401	02/19/18 08:50	NMC	TAL BUF
Total/NA	Analysis	8270D		5	400911	02/21/18 22:16	PJQ	TAL BUF
Total/NA	Prep	3050B			400455	02/19/18 15:11	SMF	TAL BUF
Total/NA	Analysis	6010C		1	400892	02/21/18 07:22	AMH	TAL BUF
Total/NA	Prep	7471B			400925	02/21/18 15:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	400946	02/21/18 17:11	BMB	TAL BUF

Client Sample ID: MW-2

Lab Sample ID: 480-131427-8

Date Collected: 02/16/18 13:00

Matrix: Water

Date Received: 02/16/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	400512	02/20/18 04:12	RJF	TAL BUF
Total/NA	Analysis	8260C	DL	10	400616	02/20/18 17:04	AMM	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

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	03-31-18 *

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

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

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

Method Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Fine Moisture	EPA	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: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-131427-1	SB-11 (7-8')	Solid	02/16/18 09:55	02/16/18 15:15
480-131427-2	SB-12 (8-9')	Solid	02/16/18 10:30	02/16/18 15:15
480-131427-3	SB-13 (6-8')	Solid	02/16/18 11:00	02/16/18 15:15
480-131427-4	SB-18 (1.5-2.5)	Solid	02/16/18 12:00	02/16/18 15:15
480-131427-5	SB-22 (6"-2.5')	Solid	02/16/18 12:45	02/16/18 15:15
480-131427-6	SS-1	Solid	02/16/18 13:50	02/16/18 15:15
480-131427-7	SB-12 (2"-6")	Solid	02/16/18 10:25	02/16/18 15:15
480-131427-8	MW-2	Water	02/16/18 13:00	02/16/18 15:15

Chain of Custody Record

Client Information
 Client Contact: Nate Munley
 Lab PM: Fischer, Brian J
 Phone: 716-713-3437
 E-Mail: brian.fischer@testamericainc.com

Company: Turnkey Environmental Restoration, LLC
 Address: 2558 Hamburg Turnpike Suite 300
 City: Lackawanna
 State, Zip: NY, 14218
 Phone: 1200 Jefferson
 Email: nmunley@benchmarkturnkey.com
 Project #: 48017568
 Benchmark - 1200 Jefferson St
 Site: 1200 Jefferson

COC No: 480-109315-25440.1
 Page: Page 1 of 2
 Job #:

Analysis Req: 480-131427 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)			Total Number of Containers			Special Instructions/Note:
						8260C (MOD) TCL list OLM04.2 + CP-51(Stars)	8260C (MOD) TCL list OLM04.2 + Stars	8270D - PAH Semivolatiles				
SB04 SB-11 (7-5)	2/16/18	9:55	G	Solid	X	X						
SB05 SB-12 (9-9)		10:30	G	Solid	X	X						
SB06 SB-13 (6-9)		11:00	G	Solid	X	X						
SB07 SB-14 (1.5-2.5)		12:00	G	Solid	X	X						
SB08 SB-22 (6"-2.5')		12:45	G	Solid	X	X						
SB09 SS-1		13:50	G	Solid	X	X						
SB10 SB-12 (11-11)		10:25	G	Solid	X	X						
<u>M4-2</u>		13:00		Water	X							

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

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: Seperate test by ps chain

Empty Kit Relinquished by: _____ Date: _____
Relinquished by: Christopher C. Kolb Date: 2/16/18 15:15 Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal No.: _____
 Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks:

8.8 #1



Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-131427-1

Login Number: 131427

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher 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	TER
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	

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: 480-131428-1

Client Project/Site: Benchmark - 1200 Jefferson St

For:

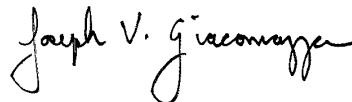
Turnkey Environmental Restoration, LLC

2558 Hamburg Turnpike

Suite 300

Lackawanna, New York 14218

Attn: Nate Munley



Authorized for release by:

2/23/2018 10:18:38 AM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Brian Fischer, Manager of Project Management

(716)504-9835

brian.fischer@testamericainc.com

LINKS

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

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

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

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Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
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

Glossary

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

Case Narrative

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Job ID: 480-131428-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-131428-1

Comments

No additional comments.

Receipt

The samples were received on 2/16/2018 3:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 8.8° C.

GC/MS VOA

Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-1 (480-131428-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-400550 recovered outside acceptance criteria, low biased, for 2-Butanone (MEK) and 2-Hexanone. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-400550 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: MW-1 (480-131428-1).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-400550 recovered outside control limits for the following analyte(s): Methyl acetate. Methyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-400435 and analytical batch 480-400384 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: FD-1 (480-131428-4). 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 sample was diluted due to color and appearance: FD-1 (480-131428-4). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The following samples required a dilution due to the nature of the sample matrix: FD-1 (480-131428-4). 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.

Metals

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

Organic Prep

Method(s) 3550C: The following samples: FD-1 (480-131428-4) was decanted prior to preparation.

Method(s) 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume: FD-1 (480-131428-4). The reporting limits (RLs) are elevated proportionately.

Case Narrative

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Job ID: 480-131428-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

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

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Detection Summary

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Client Sample ID: MW-1

Lab Sample ID: 480-131428-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	3.0		2.0	0.68	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	2.7		2.0	1.6	ug/L	2		8260C	Total/NA
Methylene Chloride	3.1		2.0	0.88	ug/L	2		8260C	Total/NA
Tetrachloroethene	30		2.0	0.72	ug/L	2		8260C	Total/NA

Client Sample ID: SB-1 (4"-1')

Lab Sample ID: 480-131428-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.50	J vs	6.0	0.37	ug/Kg	1	*	8260C	Total/NA
Tetrachloroethene	220	vs F1	6.0	0.81	ug/Kg	1	*	8260C	Total/NA

Client Sample ID: SB-5 (0-2')

Lab Sample ID: 480-131428-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	29	J	210	22	ug/Kg	1	*	8270D	Total/NA
Arsenic	6.0		2.3		mg/Kg	1	*	6010C	Total/NA
Barium	127		0.57		mg/Kg	1	*	6010C	Total/NA
Chromium	23.7		0.57		mg/Kg	1	*	6010C	Total/NA
Lead	205		1.1		mg/Kg	1	*	6010C	Total/NA
Mercury	0.26		0.025		mg/Kg	1	*	7471B	Total/NA

Client Sample ID: FD-1

Lab Sample ID: 480-131428-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	97000		1800	500	ug/Kg	10	*	8260C	Total/NA
1,3,5-Trimethylbenzene	30000		1800	540	ug/Kg	10	*	8260C	Total/NA
4-Isopropyltoluene	14000		1800	600	ug/Kg	10	*	8260C	Total/NA
Ethylbenzene	1100	J	1800	520	ug/Kg	10	*	8260C	Total/NA
Isopropylbenzene	1900		1800	270	ug/Kg	10	*	8260C	Total/NA
m,p-Xylene	6400		3600	990	ug/Kg	10	*	8260C	Total/NA
Methylene Chloride	850	J B	1800	350	ug/Kg	10	*	8260C	Total/NA
n-Butylbenzene	34000		1800	520	ug/Kg	10	*	8260C	Total/NA
N-Propylbenzene	4600		1800	470	ug/Kg	10	*	8260C	Total/NA
o-Xylene	4400		1800	230	ug/Kg	10	*	8260C	Total/NA
sec-Butylbenzene	11000		1800	660	ug/Kg	10	*	8260C	Total/NA
Toluene	2500		1800	480	ug/Kg	10	*	8260C	Total/NA
Trichloroethene	540	J	1800	500	ug/Kg	10	*	8260C	Total/NA
Xylenes, Total	11000		3600	990	ug/Kg	10	*	8260C	Total/NA
Fluoranthene	11000	J	52000	5500	ug/Kg	20	*	8270D	Total/NA
Naphthalene	38000	J	52000	6700	ug/Kg	20	*	8270D	Total/NA
Phenanthrene	8800	J	52000	7600	ug/Kg	20	*	8270D	Total/NA
Arsenic	3.5		3.2		mg/Kg	1	*	6010C	Total/NA
Barium	436		0.80		mg/Kg	1	*	6010C	Total/NA
Chromium	228		0.80		mg/Kg	1	*	6010C	Total/NA
Lead	36.9		1.6		mg/Kg	1	*	6010C	Total/NA
Mercury	0.046		0.031		mg/Kg	1	*	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Client Sample ID: MW-1

Lab Sample ID: 480-131428-1

Date Collected: 02/15/18 16:00

Matrix: Water

Date Received: 02/16/18 15:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			02/20/18 13:19	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			02/20/18 13:19	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			02/20/18 13:19	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			02/20/18 13:19	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			02/20/18 13:19	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			02/20/18 13:19	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			02/20/18 13:19	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			02/20/18 13:19	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			02/20/18 13:19	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			02/20/18 13:19	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			02/20/18 13:19	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			02/20/18 13:19	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			02/20/18 13:19	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			02/20/18 13:19	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			02/20/18 13:19	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			02/20/18 13:19	2
2-Butanone (MEK)	ND		20	2.6	ug/L			02/20/18 13:19	2
2-Hexanone	ND		10	2.5	ug/L			02/20/18 13:19	2
4-Isopropyltoluene	ND		2.0	0.62	ug/L			02/20/18 13:19	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			02/20/18 13:19	2
Acetone	ND		20	6.0	ug/L			02/20/18 13:19	2
Benzene	ND		2.0	0.82	ug/L			02/20/18 13:19	2
Bromodichloromethane	ND		2.0	0.78	ug/L			02/20/18 13:19	2
Bromoform	ND		2.0	0.52	ug/L			02/20/18 13:19	2
Bromomethane	ND		2.0	1.4	ug/L			02/20/18 13:19	2
Carbon disulfide	ND		2.0	0.38	ug/L			02/20/18 13:19	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			02/20/18 13:19	2
Chlorobenzene	ND		2.0	1.5	ug/L			02/20/18 13:19	2
Chloroethane	ND		2.0	0.64	ug/L			02/20/18 13:19	2
Chloroform	3.0		2.0	0.68	ug/L			02/20/18 13:19	2
Chloromethane	ND		2.0	0.70	ug/L			02/20/18 13:19	2
cis-1,2-Dichloroethene	2.7		2.0	1.6	ug/L			02/20/18 13:19	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			02/20/18 13:19	2
Cyclohexane	ND		2.0	0.36	ug/L			02/20/18 13:19	2
Dibromochloromethane	ND		2.0	0.64	ug/L			02/20/18 13:19	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			02/20/18 13:19	2
Ethylbenzene	ND		2.0	1.5	ug/L			02/20/18 13:19	2
Isopropylbenzene	ND		2.0	1.6	ug/L			02/20/18 13:19	2
m,p-Xylene	ND		4.0	1.3	ug/L			02/20/18 13:19	2
Methyl acetate	ND *		5.0	2.6	ug/L			02/20/18 13:19	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			02/20/18 13:19	2
Methylcyclohexane	ND		2.0	0.32	ug/L			02/20/18 13:19	2
Methylene Chloride	3.1		2.0	0.88	ug/L			02/20/18 13:19	2
n-Butylbenzene	ND		2.0	1.3	ug/L			02/20/18 13:19	2
N-Propylbenzene	ND		2.0	1.4	ug/L			02/20/18 13:19	2
o-Xylene	ND		2.0	1.5	ug/L			02/20/18 13:19	2
sec-Butylbenzene	ND		2.0	1.5	ug/L			02/20/18 13:19	2
Styrene	ND		2.0	1.5	ug/L			02/20/18 13:19	2
tert-Butylbenzene	ND		2.0	1.6	ug/L			02/20/18 13:19	2

TestAmerica Buffalo

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Client Sample ID: MW-1

Lab Sample ID: 480-131428-1

Date Collected: 02/15/18 16:00

Matrix: Water

Date Received: 02/16/18 15:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	30		2.0	0.72	ug/L			02/20/18 13:19	2
Toluene	ND		2.0	1.0	ug/L			02/20/18 13:19	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			02/20/18 13:19	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			02/20/18 13:19	2
Trichloroethene	ND		2.0	0.92	ug/L			02/20/18 13:19	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			02/20/18 13:19	2
Vinyl chloride	ND		2.0	1.8	ug/L			02/20/18 13:19	2
Xylenes, Total	ND		4.0	1.3	ug/L			02/20/18 13:19	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		77 - 120					02/20/18 13:19	2
4-Bromofluorobenzene (Surr)	110		73 - 120					02/20/18 13:19	2
Toluene-d8 (Surr)	106		80 - 120					02/20/18 13:19	2

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Client Sample ID: SB-1 (4"-1')

Lab Sample ID: 480-131428-2

Date Collected: 02/15/18 08:00

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 82.3

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	6.0	0.44	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
1,1,1,2,2-Tetrachloroethane	ND	vs F1	6.0	0.97	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
1,1,2-Trichloroethane	ND	vs F1	6.0	0.78	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
1,1-Dichloroethane	ND	vs	6.0	0.73	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
1,1-Dichloroethene	ND	vs	6.0	0.73	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
1,2,4-Trichlorobenzene	ND	vs F1	6.0	0.37	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
1,2,4-Trimethylbenzene	ND	vs	6.0	1.2	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
1,2-Dibromo-3-Chloropropane	ND	vs F1	6.0	3.0	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
1,2-Dibromoethane	ND	vs F1	6.0	0.77	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
1,2-Dichlorobenzene	ND	vs F1	6.0	0.47	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
1,2-Dichloroethane	ND	vs F1	6.0	0.30	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
1,2-Dichloropropane	ND	vs	6.0	3.0	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
1,3,5-Trimethylbenzene	ND	vs	6.0	0.39	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
1,3-Dichlorobenzene	ND	vs F1	6.0	0.31	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
1,4-Dichlorobenzene	ND	vs F1	6.0	0.84	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
2-Butanone (MEK)	ND	vs F1	30	2.2	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
2-Hexanone	ND	vs F1	30	3.0	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
4-Isopropyltoluene	ND	vs	6.0	0.48	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
4-Methyl-2-pentanone (MIBK)	ND	vs F1	30	2.0	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Acetone	ND	vs F1	30	5.1	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Benzene	ND	vs	6.0	0.29	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Bromodichloromethane	ND	vs F1	6.0	0.80	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Bromoform	ND	vs F1	6.0	3.0	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Bromomethane	ND	vs	6.0	0.54	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Carbon disulfide	ND	vs	6.0	3.0	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Carbon tetrachloride	ND	vs	6.0	0.58	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Chlorobenzene	ND	vs F1	6.0	0.79	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Chloroethane	ND	vs	6.0	1.4	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Chloroform	0.50	J vs	6.0	0.37	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Chloromethane	ND	vs	6.0	0.36	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
cis-1,2-Dichloroethene	ND	vs	6.0	0.77	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
cis-1,3-Dichloropropene	ND	vs F1	6.0	0.86	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Cyclohexane	ND	vs	6.0	0.84	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Dibromochloromethane	ND	vs F1	6.0	0.77	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Dichlorodifluoromethane	ND	vs	6.0	0.50	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Ethylbenzene	ND	vs F1	6.0	0.41	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Isopropylbenzene	ND	vs	6.0	0.91	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
m,p-Xylene	ND	vs	12	1.0	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Methyl tert-butyl ether	ND	vs	6.0	0.59	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Methylcyclohexane	ND	vs	6.0	0.91	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Methylene Chloride	ND	vs	6.0	2.8	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
n-Butylbenzene	ND	vs F1	6.0	0.52	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
N-Propylbenzene	ND	vs	6.0	0.48	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
o-Xylene	ND	vs	6.0	0.78	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
sec-Butylbenzene	ND	vs F1	6.0	0.52	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Styrene	ND	vs F1	6.0	0.30	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
tert-Butylbenzene	ND	vs	6.0	0.62	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1

TestAmerica Buffalo

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Client Sample ID: SB-1 (4"-1')

Lab Sample ID: 480-131428-2

Date Collected: 02/15/18 08:00

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	220	vs F1	6.0	0.81	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Toluene	ND	vs F1	6.0	0.45	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
trans-1,2-Dichloroethene	ND	vs	6.0	0.62	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
trans-1,3-Dichloropropene	ND	vs F1	6.0	2.6	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Trichloroethene	ND	vs	6.0	1.3	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Trichlorofluoromethane	ND	vs	6.0	0.57	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Vinyl chloride	ND	vs	6.0	0.73	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Xylenes, Total	ND	vs F1	12	1.0	ug/Kg	☼	02/19/18 10:44	02/19/18 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 126				02/19/18 10:44	02/19/18 12:54	1
4-Bromofluorobenzene (Surr)	90		72 - 126				02/19/18 10:44	02/19/18 12:54	1
Dibromofluoromethane (Surr)	103		60 - 140				02/19/18 10:44	02/19/18 12:54	1
Toluene-d8 (Surr)	96		71 - 125				02/19/18 10:44	02/19/18 12:54	1

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Client Sample ID: SB-5 (0-2')

Lab Sample ID: 480-131428-3

Date Collected: 02/15/18 13:50

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		210	31	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Acenaphthylene	ND		210	27	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Anthracene	ND		210	52	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Benzo[a]pyrene	ND		210	31	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Benzo[b]fluoranthene	ND		210	34	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Benzo[g,h,i]perylene	ND		210	22	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Benzo[k]fluoranthene	ND		210	27	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Chrysene	ND		210	47	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Fluoranthene	29	J	210	22	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Fluorene	ND		210	25	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Naphthalene	ND		210	27	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Phenanthrene	ND		210	31	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Pyrene	ND		210	25	ug/Kg	☼	02/19/18 08:50	02/21/18 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		60 - 120				02/19/18 08:50	02/21/18 22:43	1
Nitrobenzene-d5 (Surr)	75		53 - 120				02/19/18 08:50	02/21/18 22:43	1
p-Terphenyl-d14 (Surr)	96		65 - 121				02/19/18 08:50	02/21/18 22:43	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		2.3		mg/Kg	☼	02/19/18 15:11	02/21/18 07:26	1
Barium	127		0.57		mg/Kg	☼	02/19/18 15:11	02/21/18 07:26	1
Cadmium	ND		0.23		mg/Kg	☼	02/19/18 15:11	02/21/18 07:26	1
Chromium	23.7		0.57		mg/Kg	☼	02/19/18 15:11	02/21/18 07:26	1
Lead	205		1.1		mg/Kg	☼	02/19/18 15:11	02/21/18 07:26	1
Selenium	ND		4.6		mg/Kg	☼	02/19/18 15:11	02/21/18 07:26	1
Silver	ND		0.69		mg/Kg	☼	02/19/18 15:11	02/21/18 07:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.025		mg/Kg	☼	02/21/18 15:20	02/21/18 17:12	1

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Client Sample ID: FD-1

Lab Sample ID: 480-131428-4

Date Collected: 02/15/18 14:30

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 64.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1800	490	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
1,1,2,2-Tetrachloroethane	ND		1800	290	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1800	890	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
1,1,2-Trichloroethane	ND		1800	370	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
1,1-Dichloroethane	ND		1800	550	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
1,1-Dichloroethene	ND		1800	620	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
1,2,4-Trichlorobenzene	ND		1800	670	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
1,2,4-Trimethylbenzene	97000		1800	500	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
1,2-Dibromo-3-Chloropropane	ND		1800	890	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
1,2-Dibromoethane	ND		1800	310	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
1,2-Dichlorobenzene	ND		1800	450	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
1,2-Dichloroethane	ND		1800	730	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
1,2-Dichloropropane	ND		1800	290	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
1,3,5-Trimethylbenzene	30000		1800	540	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
1,3-Dichlorobenzene	ND		1800	480	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
1,4-Dichlorobenzene	ND		1800	250	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
2-Butanone (MEK)	ND		8900	5300	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
2-Hexanone	ND		8900	3700	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
4-Isopropyltoluene	14000		1800	600	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
4-Methyl-2-pentanone (MIBK)	ND		8900	570	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Acetone	ND		8900	7300	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Benzene	ND		1800	340	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Bromodichloromethane	ND		1800	360	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Bromoform	ND		1800	890	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Bromomethane	ND		1800	390	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Carbon disulfide	ND		1800	810	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Carbon tetrachloride	ND		1800	450	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Chlorobenzene	ND		1800	240	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Chloroethane	ND		1800	370	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Chloroform	ND		1800	1200	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Chloromethane	ND		1800	420	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
cis-1,2-Dichloroethene	ND		1800	490	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
cis-1,3-Dichloropropene	ND		1800	430	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Cyclohexane	ND		1800	400	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Dibromochloromethane	ND		1800	860	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Dichlorodifluoromethane	ND		1800	780	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Ethylbenzene	1100	J	1800	520	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Isopropylbenzene	1900		1800	270	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
m,p-Xylene	6400		3600	990	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Methyl acetate	ND		8900	850	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Methyl tert-butyl ether	ND		1800	670	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Methylcyclohexane	ND		1800	830	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Methylene Chloride	850	J B	1800	350	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
n-Butylbenzene	34000		1800	520	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
N-Propylbenzene	4600		1800	470	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
o-Xylene	4400		1800	230	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
sec-Butylbenzene	11000		1800	660	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Styrene	ND		1800	430	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
tert-Butylbenzene	ND		1800	500	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10

TestAmerica Buffalo

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Client Sample ID: FD-1

Lab Sample ID: 480-131428-4

Date Collected: 02/15/18 14:30

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 64.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1800	240	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Toluene	2500		1800	480	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
trans-1,2-Dichloroethene	ND		1800	420	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
trans-1,3-Dichloropropene	ND		1800	180	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Trichloroethene	540 J		1800	500	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Trichlorofluoromethane	ND		1800	840	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Vinyl chloride	ND		1800	600	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Xylenes, Total	11000		3600	990	ug/Kg	☼	02/20/18 10:43	02/22/18 15:22	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		53 - 146				02/20/18 10:43	02/22/18 15:22	10
4-Bromofluorobenzene (Surr)	97		49 - 148				02/20/18 10:43	02/22/18 15:22	10
Dibromofluoromethane (Surr)	95		60 - 140				02/20/18 10:43	02/22/18 15:22	10
Toluene-d8 (Surr)	100		50 - 149				02/20/18 10:43	02/22/18 15:22	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		52000	7600	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Acenaphthylene	ND		52000	6700	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Anthracene	ND		52000	13000	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Benzo[a]anthracene	ND		52000	5200	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Benzo[a]pyrene	ND		52000	7600	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Benzo[b]fluoranthene	ND		52000	8200	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Benzo[g,h,i]perylene	ND		52000	5500	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Benzo[k]fluoranthene	ND		52000	6700	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Chrysene	ND		52000	12000	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Dibenz(a,h)anthracene	ND		52000	9100	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Fluoranthene	11000 J		52000	5500	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Fluorene	ND		52000	6100	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Indeno[1,2,3-cd]pyrene	ND		52000	6400	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Naphthalene	38000 J		52000	6700	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Phenanthrene	8800 J		52000	7600	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Pyrene	ND		52000	6100	ug/Kg	☼	02/19/18 08:50	02/21/18 23:11	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	X	60 - 120				02/19/18 08:50	02/21/18 23:11	20
Nitrobenzene-d5 (Surr)	0	X	53 - 120				02/19/18 08:50	02/21/18 23:11	20
p-Terphenyl-d14 (Surr)	0	X	65 - 121				02/19/18 08:50	02/21/18 23:11	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		3.2		mg/Kg	☼	02/19/18 15:11	02/21/18 07:30	1
Barium	436		0.80		mg/Kg	☼	02/19/18 15:11	02/21/18 07:30	1
Cadmium	ND		0.32		mg/Kg	☼	02/19/18 15:11	02/21/18 07:30	1
Chromium	228		0.80		mg/Kg	☼	02/19/18 15:11	02/21/18 07:30	1
Lead	36.9		1.6		mg/Kg	☼	02/19/18 15:11	02/21/18 07:30	1
Selenium	ND		6.4		mg/Kg	☼	02/19/18 15:11	02/21/18 07:30	1
Silver	ND		0.95		mg/Kg	☼	02/19/18 15:11	02/21/18 07:30	1

TestAmerica Buffalo

Client Sample Results

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Client Sample ID: FD-1

Lab Sample ID: 480-131428-4

Date Collected: 02/15/18 14:30

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 64.2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.031		mg/Kg	☼	02/21/18 15:20	02/21/18 17:14	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Surrogate Summary

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-131428-2	SB-1 (4"-1')	100	90	103	96
480-131428-2 MS	SB-1 (4"-1')	92	92	100	96
480-131428-2 MSD	SB-1 (4"-1')	90	92	100	97
LCS 480-400435/1-A	Lab Control Sample	99	96	103	95
MB 480-400435/2-A	Method Blank	102	95	102	92

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (53-146)	BFB (49-148)	DBFM (60-140)	TOL (50-149)
480-131428-4	FD-1	102	97	95	100
LCS 480-400648/1-A	Lab Control Sample	100	100	105	105
MB 480-400648/2-A	Method Blank	103	95	95	102

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DCA (77-120)	BFB (73-120)	TOL (80-120)
480-131428-1	MW-1	90	110	106
LCS 480-400550/5	Lab Control Sample	93	107	104
MB 480-400550/7	Method Blank	91	105	101

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (60-120)	NBZ (53-120)	TPHd14 (65-121)
480-131428-3	SB-5 (0-2')	85	75	96

TestAmerica Buffalo

Surrogate Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	NBZ	TPHd14
		(60-120)	(53-120)	(65-121)
480-131428-4	FD-1	0 X	0 X	0 X
LCS 480-400401/2-A	Lab Control Sample	87	76	100
MB 480-400401/1-A	Method Blank	85	83	97

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Lab Sample ID: MB 480-400435/2-A

Matrix: Solid

Analysis Batch: 400384

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 400435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
2-Hexanone	ND		25	2.5	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Acetone	ND		25	4.2	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Benzene	ND		5.0	0.25	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Bromoform	ND		5.0	2.5	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Bromomethane	ND		5.0	0.45	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Chloroethane	ND		5.0	1.1	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Chloroform	ND		5.0	0.31	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Chloromethane	ND		5.0	0.30	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Cyclohexane	ND		5.0	0.70	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
m,p-Xylene	ND		10	0.84	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Methyl acetate	ND		25	3.0	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
o-Xylene	ND		5.0	0.65	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Styrene	ND		5.0	0.25	ug/Kg		02/19/18 10:44	02/19/18 12:14	1

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Lab Sample ID: MB 480-400435/2-A

Matrix: Solid

Analysis Batch: 400384

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 400435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Toluene	ND		5.0	0.38	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Trichloroethene	ND		5.0	1.1	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		02/19/18 10:44	02/19/18 12:14	1
Xylenes, Total	ND		10	0.84	ug/Kg		02/19/18 10:44	02/19/18 12:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 126	02/19/18 10:44	02/19/18 12:14	1
4-Bromofluorobenzene (Surr)	95		72 - 126	02/19/18 10:44	02/19/18 12:14	1
Dibromofluoromethane (Surr)	102		60 - 140	02/19/18 10:44	02/19/18 12:14	1
Toluene-d8 (Surr)	92		71 - 125	02/19/18 10:44	02/19/18 12:14	1

Lab Sample ID: LCS 480-400435/1-A

Matrix: Solid

Analysis Batch: 400384

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 400435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	49.1		ug/Kg		98	77 - 121
1,1,1,2-Tetrachloroethane	50.0	42.8		ug/Kg		86	80 - 120
1,1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.7		ug/Kg		99	60 - 140
1,1,2-Trichloroethane	50.0	43.1		ug/Kg		86	78 - 122
1,1-Dichloroethane	50.0	47.3		ug/Kg		95	73 - 126
1,1-Dichloroethene	50.0	47.4		ug/Kg		95	59 - 125
1,2,4-Trichlorobenzene	50.0	42.2		ug/Kg		84	64 - 120
1,2,4-Trimethylbenzene	50.0	44.1		ug/Kg		88	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	42.2		ug/Kg		84	63 - 124
1,2-Dibromoethane	50.0	44.3		ug/Kg		89	78 - 120
1,2-Dichlorobenzene	50.0	42.5		ug/Kg		85	75 - 120
1,2-Dichloroethane	50.0	47.6		ug/Kg		95	77 - 122
1,2-Dichloropropane	50.0	44.0		ug/Kg		88	75 - 124
1,3,5-Trimethylbenzene	50.0	44.8		ug/Kg		90	74 - 120
1,3-Dichlorobenzene	50.0	42.5		ug/Kg		85	74 - 120
1,4-Dichlorobenzene	50.0	42.6		ug/Kg		85	73 - 120
2-Butanone (MEK)	250	223		ug/Kg		89	70 - 134
2-Hexanone	250	218		ug/Kg		87	59 - 130
4-Isopropyltoluene	50.0	44.9		ug/Kg		90	74 - 120
4-Methyl-2-pentanone (MIBK)	250	214		ug/Kg		86	65 - 133
Acetone	250	220		ug/Kg		88	61 - 137
Benzene	50.0	45.8		ug/Kg		92	79 - 127
Bromodichloromethane	50.0	47.1		ug/Kg		94	80 - 122
Bromoform	50.0	44.4		ug/Kg		89	68 - 126
Bromomethane	50.0	46.6		ug/Kg		93	37 - 149
Carbon disulfide	50.0	46.0		ug/Kg		92	64 - 131

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Lab Sample ID: LCS 480-400435/1-A

Matrix: Solid

Analysis Batch: 400384

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 400435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	50.0	50.2		ug/Kg		100	75 - 135
Chlorobenzene	50.0	43.9		ug/Kg		88	76 - 124
Chloroethane	50.0	44.4		ug/Kg		89	69 - 135
Chloroform	50.0	47.2		ug/Kg		94	80 - 120
Chloromethane	50.0	45.1		ug/Kg		90	63 - 127
cis-1,2-Dichloroethene	50.0	46.0		ug/Kg		92	81 - 120
cis-1,3-Dichloropropene	50.0	44.0		ug/Kg		88	80 - 120
Cyclohexane	50.0	46.5		ug/Kg		93	65 - 120
Dibromochloromethane	50.0	46.4		ug/Kg		93	76 - 125
Dichlorodifluoromethane	50.0	56.7		ug/Kg		113	57 - 142
Ethylbenzene	50.0	44.0		ug/Kg		88	80 - 120
Isopropylbenzene	50.0	44.3		ug/Kg		89	72 - 120
m,p-Xylene	50.0	42.4		ug/Kg		85	70 - 130
Methyl acetate	100	87.4		ug/Kg		87	55 - 136
Methyl tert-butyl ether	50.0	44.2		ug/Kg		88	63 - 125
Methylcyclohexane	50.0	46.2		ug/Kg		92	60 - 140
Methylene Chloride	50.0	43.7		ug/Kg		87	61 - 127
n-Butylbenzene	50.0	44.9		ug/Kg		90	70 - 120
N-Propylbenzene	50.0	44.6		ug/Kg		89	70 - 130
o-Xylene	50.0	42.1		ug/Kg		84	70 - 130
sec-Butylbenzene	50.0	44.8		ug/Kg		90	74 - 120
Styrene	50.0	41.5		ug/Kg		83	80 - 120
tert-Butylbenzene	50.0	44.9		ug/Kg		90	73 - 120
Tetrachloroethene	50.0	44.9		ug/Kg		90	74 - 122
Toluene	50.0	43.0		ug/Kg		86	74 - 128
trans-1,2-Dichloroethene	50.0	47.2		ug/Kg		94	78 - 126
trans-1,3-Dichloropropene	50.0	43.8		ug/Kg		88	73 - 123
Trichloroethene	50.0	47.4		ug/Kg		95	77 - 129
Trichlorofluoromethane	50.0	51.9		ug/Kg		104	65 - 146
Vinyl chloride	50.0	44.5		ug/Kg		89	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		64 - 126
4-Bromofluorobenzene (Surr)	96		72 - 126
Dibromofluoromethane (Surr)	103		60 - 140
Toluene-d8 (Surr)	95		71 - 125

Lab Sample ID: 480-131428-2 MS

Matrix: Solid

Analysis Batch: 400384

Client Sample ID: SB-1 (4"-1')

Prep Type: Total/NA

Prep Batch: 400435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	vs	60.0	52.6	vs	ug/Kg	*	88	77 - 121
1,1,2,2-Tetrachloroethane	ND	vs F1	60.0	41.9	vs F1	ug/Kg	*	70	80 - 120
1,1,2-Trichloro-1,1,2,2-trifluoroethane	ND	vs	60.0	53.6	vs	ug/Kg	*	89	60 - 140
1,1,2-Trichloroethane	ND	vs F1	60.0	43.2	vs F1	ug/Kg	*	72	78 - 122
1,1-Dichloroethane	ND	vs	60.0	52.6	vs	ug/Kg	*	88	73 - 126

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Lab Sample ID: 480-131428-2 MS

Matrix: Solid

Analysis Batch: 400384

Client Sample ID: SB-1 (4"-1')

Prep Type: Total/NA

Prep Batch: 400435

Analyte	Sample		Spike Added	MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	ND	vs	60.0	52.9	vs	ug/Kg	*	88	59 - 125
1,2,4-Trichlorobenzene	ND	vs F1	60.0	28.7	vs F1	ug/Kg	*	48	64 - 120
1,2,4-Trimethylbenzene	ND	vs	60.0	49.5	vs	ug/Kg	*	82	74 - 120
1,2-Dibromo-3-Chloropropane	ND	vs F1	60.0	33.3	vs F1	ug/Kg	*	55	63 - 124
1,2-Dibromoethane	ND	vs F1	60.0	42.4	vs F1	ug/Kg	*	71	78 - 120
1,2-Dichlorobenzene	ND	vs F1	60.0	40.7	vs F1	ug/Kg	*	68	75 - 120
1,2-Dichloroethane	ND	vs F1	60.0	47.5	vs	ug/Kg	*	79	77 - 122
1,2-Dichloropropane	ND	vs	60.0	48.6	vs	ug/Kg	*	81	75 - 124
1,3,5-Trimethylbenzene	ND	vs	60.0	51.1	vs	ug/Kg	*	85	74 - 120
1,3-Dichlorobenzene	ND	vs F1	60.0	43.3	vs F1	ug/Kg	*	72	74 - 120
1,4-Dichlorobenzene	ND	vs F1	60.0	43.3	vs F1	ug/Kg	*	72	73 - 120
2-Butanone (MEK)	ND	vs F1	300	176	vs F1	ug/Kg	*	59	70 - 134
2-Hexanone	ND	vs F1	300	179	vs	ug/Kg	*	60	59 - 130
4-Isopropyltoluene	ND	vs	60.0	49.6	vs	ug/Kg	*	83	74 - 120
4-Methyl-2-pentanone (MIBK)	ND	vs F1	300	181	vs F1	ug/Kg	*	60	65 - 133
Acetone	ND	vs F1	300	170	vs F1	ug/Kg	*	57	61 - 137
Benzene	ND	vs	60.0	51.8	vs	ug/Kg	*	86	79 - 127
Bromodichloromethane	ND	vs F1	60.0	49.2	vs	ug/Kg	*	82	80 - 122
Bromoform	ND	vs F1	60.0	35.9	vs F1	ug/Kg	*	60	68 - 126
Bromomethane	ND	vs	60.0	54.4	vs	ug/Kg	*	91	37 - 149
Carbon disulfide	ND	vs	60.0	49.7	vs	ug/Kg	*	83	64 - 131
Carbon tetrachloride	ND	vs	60.0	50.6	vs	ug/Kg	*	84	75 - 135
Chlorobenzene	ND	vs F1	60.0	47.0	vs	ug/Kg	*	78	76 - 124
Chloroethane	ND	vs	60.0	54.6	vs	ug/Kg	*	91	69 - 135
Chloroform	0.50	J vs	60.0	53.9	vs	ug/Kg	*	89	80 - 120
Chloromethane	ND	vs	60.0	49.0	vs	ug/Kg	*	82	63 - 127
cis-1,2-Dichloroethene	ND	vs	60.0	51.8	vs	ug/Kg	*	86	80 - 120
cis-1,3-Dichloropropene	ND	vs F1	60.0	46.8	vs F1	ug/Kg	*	78	80 - 120
Cyclohexane	ND	vs	60.0	48.9	vs	ug/Kg	*	81	65 - 120
Dibromochloromethane	ND	vs F1	60.0	45.7	vs	ug/Kg	*	76	76 - 125
Dichlorodifluoromethane	ND	vs	60.0	62.7	vs	ug/Kg	*	105	57 - 142
Ethylbenzene	ND	vs F1	60.0	48.5	vs	ug/Kg	*	81	80 - 120
Isopropylbenzene	ND	vs	60.0	52.6	vs	ug/Kg	*	88	72 - 120
m,p-Xylene	ND	vs	60.0	46.9	vs	ug/Kg	*	78	70 - 130
Methyl acetate	ND	vs	120	72.3	vs	ug/Kg	*	60	55 - 136
Methyl tert-butyl ether	ND	vs	60.0	45.1	vs	ug/Kg	*	75	63 - 125
Methylcyclohexane	ND	vs	60.0	48.0	vs	ug/Kg	*	80	60 - 140
Methylene Chloride	ND	vs	60.0	49.5	vs	ug/Kg	*	82	61 - 127
n-Butylbenzene	ND	vs F1	60.0	46.1	vs	ug/Kg	*	77	70 - 120
N-Propylbenzene	ND	vs	60.0	51.7	vs	ug/Kg	*	86	70 - 130
o-Xylene	ND	vs	60.0	46.2	vs	ug/Kg	*	77	70 - 130
sec-Butylbenzene	ND	vs F1	60.0	49.9	vs	ug/Kg	*	83	74 - 120
Styrene	ND	vs F1	60.0	43.9	vs F1	ug/Kg	*	73	80 - 120
tert-Butylbenzene	ND	vs	60.0	51.1	vs	ug/Kg	*	85	73 - 120
Tetrachloroethene	220	vs F1	60.0	523	E vs F1	ug/Kg	*	503	74 - 122
Toluene	ND	vs F1	60.0	48.1	vs	ug/Kg	*	80	74 - 128
trans-1,2-Dichloroethene	ND	vs	60.0	53.4	vs	ug/Kg	*	89	78 - 126
trans-1,3-Dichloropropene	ND	vs F1	60.0	42.8	vs F1	ug/Kg	*	71	73 - 123

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Lab Sample ID: 480-131428-2 MS

Matrix: Solid

Analysis Batch: 400384

Client Sample ID: SB-1 (4"-1')

Prep Type: Total/NA

Prep Batch: 400435

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Trichloroethene	ND	vs	60.0	53.1	vs	ug/Kg	☼	88	77 - 129	
Trichlorofluoromethane	ND	vs	60.0	57.7	vs	ug/Kg	☼	96	65 - 146	
Vinyl chloride	ND	vs	60.0	50.5	vs	ug/Kg	☼	84	61 - 133	
Surrogate	%Recovery	MS MS Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	92		64 - 126							
4-Bromofluorobenzene (Surr)	92		72 - 126							
Dibromofluoromethane (Surr)	100		60 - 140							
Toluene-d8 (Surr)	96		71 - 125							

Lab Sample ID: 480-131428-2 MSD

Matrix: Solid

Analysis Batch: 400384

Client Sample ID: SB-1 (4"-1')

Prep Type: Total/NA

Prep Batch: 400435

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD
	Result	Qualifier		Result	Qualifier						RPD	Limit
1,1,1-Trichloroethane	ND	vs	60.5	46.5	vs	ug/Kg	☼	77	77 - 121	12	30	
1,1,1,2-Tetrachloroethane	ND	vs F1	60.5	41.0	vs F1	ug/Kg	☼	68	80 - 120	2	30	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	60.5	45.8	vs	ug/Kg	☼	76	60 - 140	16	30	
1,1,2-Trichloroethane	ND	vs F1	60.5	42.6	vs F1	ug/Kg	☼	70	78 - 122	1	30	
1,1-Dichloroethane	ND	vs	60.5	48.9	vs	ug/Kg	☼	81	73 - 126	7	30	
1,1-Dichloroethene	ND	vs	60.5	46.6	vs	ug/Kg	☼	77	59 - 125	13	30	
1,2,4-Trichlorobenzene	ND	vs F1	60.5	26.8	vs F1	ug/Kg	☼	44	64 - 120	7	30	
1,2,4-Trimethylbenzene	ND	vs	60.5	46.0	vs	ug/Kg	☼	76	74 - 120	7	30	
1,2-Dibromo-3-Chloropropane	ND	vs F1	60.5	32.7	vs F1	ug/Kg	☼	54	63 - 124	2	30	
1,2-Dibromoethane	ND	vs F1	60.5	41.5	vs F1	ug/Kg	☼	69	78 - 120	2	30	
1,2-Dichlorobenzene	ND	vs F1	60.5	37.8	vs F1	ug/Kg	☼	63	75 - 120	7	30	
1,2-Dichloroethane	ND	vs F1	60.5	45.6	vs F1	ug/Kg	☼	75	77 - 122	4	30	
1,2-Dichloropropane	ND	vs	60.5	46.8	vs	ug/Kg	☼	77	75 - 124	4	30	
1,3,5-Trimethylbenzene	ND	vs	60.5	46.3	vs	ug/Kg	☼	77	74 - 120	10	30	
1,3-Dichlorobenzene	ND	vs F1	60.5	39.7	vs F1	ug/Kg	☼	66	74 - 120	9	30	
1,4-Dichlorobenzene	ND	vs F1	60.5	40.3	vs F1	ug/Kg	☼	67	73 - 120	7	30	
2-Butanone (MEK)	ND	vs F1	303	174	vs F1	ug/Kg	☼	58	70 - 134	1	30	
2-Hexanone	ND	vs F1	303	174	vs F1	ug/Kg	☼	58	59 - 130	3	30	
4-Isopropyltoluene	ND	vs	60.5	44.8	vs	ug/Kg	☼	74	74 - 120	10	30	
4-Methyl-2-pentanone (MIBK)	ND	vs F1	303	180	vs F1	ug/Kg	☼	59	65 - 133	1	30	
Acetone	ND	vs F1	303	176	vs F1	ug/Kg	☼	58	61 - 137	3	30	
Benzene	ND	vs	60.5	47.8	vs	ug/Kg	☼	79	79 - 127	8	30	
Bromodichloromethane	ND	vs F1	60.5	47.6	vs F1	ug/Kg	☼	79	80 - 122	3	30	
Bromoform	ND	vs F1	60.5	35.1	vs F1	ug/Kg	☼	58	68 - 126	2	30	
Bromomethane	ND	vs	60.5	51.4	vs	ug/Kg	☼	85	37 - 149	6	30	
Carbon disulfide	ND	vs	60.5	44.4	vs	ug/Kg	☼	73	64 - 131	11	30	
Carbon tetrachloride	ND	vs	60.5	45.2	vs	ug/Kg	☼	75	75 - 135	11	30	
Chlorobenzene	ND	vs F1	60.5	44.3	vs F1	ug/Kg	☼	73	76 - 124	6	30	
Chloroethane	ND	vs	60.5	49.0	vs	ug/Kg	☼	81	69 - 135	11	30	
Chloroform	0.50	J vs	60.5	50.2	vs	ug/Kg	☼	82	80 - 120	7	30	
Chloromethane	ND	vs	60.5	46.0	vs	ug/Kg	☼	76	63 - 127	6	30	
cis-1,2-Dichloroethene	ND	vs	60.5	48.9	vs	ug/Kg	☼	81	80 - 120	6	30	

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Lab Sample ID: 480-131428-2 MSD

Matrix: Solid

Analysis Batch: 400384

Client Sample ID: SB-1 (4"-1')

Prep Type: Total/NA

Prep Batch: 400435

Analyte	Sample		Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
cis-1,3-Dichloropropene	ND	vs F1	60.5	45.0	vs F1	ug/Kg	*	74	80 - 120	4	30	
Cyclohexane	ND	vs	60.5	42.1	vs	ug/Kg	*	70	65 - 120	15	30	
Dibromochloromethane	ND	vs F1	60.5	44.6	vs F1	ug/Kg	*	74	76 - 125	2	30	
Dichlorodifluoromethane	ND	vs	60.5	55.1	vs	ug/Kg	*	91	57 - 142	13	30	
Ethylbenzene	ND	vs F1	60.5	44.1	vs F1	ug/Kg	*	73	80 - 120	9	30	
Isopropylbenzene	ND	vs	60.5	47.4	vs	ug/Kg	*	78	72 - 120	10	30	
m,p-Xylene	ND	vs	60.5	42.8	vs	ug/Kg	*	71	70 - 130	9	30	
Methyl acetate	ND	vs	121	70.7	vs	ug/Kg	*	58	55 - 136	2	30	
Methyl tert-butyl ether	ND	vs	60.5	44.0	vs	ug/Kg	*	73	63 - 125	2	30	
Methylcyclohexane	ND	vs	60.5	40.9	vs	ug/Kg	*	68	60 - 140	16	30	
Methylene Chloride	ND	vs	60.5	46.7	vs	ug/Kg	*	77	61 - 127	6	30	
n-Butylbenzene	ND	vs F1	60.5	40.5	vs F1	ug/Kg	*	67	70 - 120	13	30	
N-Propylbenzene	ND	vs	60.5	46.0	vs	ug/Kg	*	76	70 - 130	12	30	
o-Xylene	ND	vs	60.5	43.0	vs	ug/Kg	*	71	70 - 130	7	30	
sec-Butylbenzene	ND	vs F1	60.5	44.5	vs F1	ug/Kg	*	73	74 - 120	12	30	
Styrene	ND	vs F1	60.5	41.5	vs F1	ug/Kg	*	69	80 - 120	6	30	
tert-Butylbenzene	ND	vs	60.5	46.6	vs	ug/Kg	*	77	73 - 120	9	30	
Tetrachloroethene	220	vs F1	60.5	404	E vs F1	ug/Kg	*	303	74 - 122	26	30	
Toluene	ND	vs F1	60.5	44.2	vs F1	ug/Kg	*	73	74 - 128	8	30	
trans-1,2-Dichloroethene	ND	vs	60.5	47.8	vs	ug/Kg	*	79	78 - 126	11	30	
trans-1,3-Dichloropropene	ND	vs F1	60.5	42.4	vs F1	ug/Kg	*	70	73 - 123	1	30	
Trichloroethene	ND	vs	60.5	47.0	vs	ug/Kg	*	78	77 - 129	12	30	
Trichlorofluoromethane	ND	vs	60.5	49.9	vs	ug/Kg	*	83	65 - 146	14	30	
Vinyl chloride	ND	vs	60.5	45.6	vs	ug/Kg	*	75	61 - 133	10	30	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		64 - 126
4-Bromofluorobenzene (Surr)	92		72 - 126
Dibromofluoromethane (Surr)	100		60 - 140
Toluene-d8 (Surr)	97		71 - 125

Lab Sample ID: MB 480-400550/7

Matrix: Water

Analysis Batch: 400550

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/20/18 11:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/20/18 11:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/20/18 11:20	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/20/18 11:20	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/20/18 11:20	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/20/18 11:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/20/18 11:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/20/18 11:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/20/18 11:20	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/20/18 11:20	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/20/18 11:20	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/20/18 11:20	1

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Lab Sample ID: MB 480-400550/7

Matrix: Water

Analysis Batch: 400550

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/20/18 11:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/20/18 11:20	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/20/18 11:20	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/20/18 11:20	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/20/18 11:20	1
2-Hexanone	ND		5.0	1.2	ug/L			02/20/18 11:20	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			02/20/18 11:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/20/18 11:20	1
Acetone	ND		10	3.0	ug/L			02/20/18 11:20	1
Benzene	ND		1.0	0.41	ug/L			02/20/18 11:20	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/20/18 11:20	1
Bromoform	ND		1.0	0.26	ug/L			02/20/18 11:20	1
Bromomethane	ND		1.0	0.69	ug/L			02/20/18 11:20	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/20/18 11:20	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/20/18 11:20	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/20/18 11:20	1
Chloroethane	ND		1.0	0.32	ug/L			02/20/18 11:20	1
Chloroform	ND		1.0	0.34	ug/L			02/20/18 11:20	1
Chloromethane	ND		1.0	0.35	ug/L			02/20/18 11:20	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/20/18 11:20	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/20/18 11:20	1
Cyclohexane	ND		1.0	0.18	ug/L			02/20/18 11:20	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/20/18 11:20	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/20/18 11:20	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/20/18 11:20	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/20/18 11:20	1
m,p-Xylene	ND		2.0	0.66	ug/L			02/20/18 11:20	1
Methyl acetate	ND		2.5	1.3	ug/L			02/20/18 11:20	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/20/18 11:20	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/20/18 11:20	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/20/18 11:20	1
n-Butylbenzene	ND		1.0	0.64	ug/L			02/20/18 11:20	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/20/18 11:20	1
o-Xylene	ND		1.0	0.76	ug/L			02/20/18 11:20	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			02/20/18 11:20	1
Styrene	ND		1.0	0.73	ug/L			02/20/18 11:20	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			02/20/18 11:20	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/20/18 11:20	1
Toluene	ND		1.0	0.51	ug/L			02/20/18 11:20	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/20/18 11:20	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/20/18 11:20	1
Trichloroethene	ND		1.0	0.46	ug/L			02/20/18 11:20	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/20/18 11:20	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/20/18 11:20	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/20/18 11:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	91		77 - 120		02/20/18 11:20	1

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Lab Sample ID: MB 480-400550/7

Matrix: Water

Analysis Batch: 400550

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	105		73 - 120		02/20/18 11:20	1
Toluene-d8 (Surr)	101		80 - 120		02/20/18 11:20	1

Lab Sample ID: LCS 480-400550/5

Matrix: Water

Analysis Batch: 400550

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	27.5		ug/L		110	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.9		ug/L		91	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	31.1		ug/L		124	61 - 148
1,1,2-Trichloroethane	25.0	23.9		ug/L		96	76 - 122
1,1-Dichloroethane	25.0	26.6		ug/L		106	77 - 120
1,1-Dichloroethene	25.0	26.8		ug/L		107	66 - 127
1,2,4-Trichlorobenzene	25.0	29.4		ug/L		118	79 - 122
1,2,4-Trimethylbenzene	25.0	28.2		ug/L		113	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	22.5		ug/L		90	56 - 134
1,2-Dibromoethane	25.0	23.7		ug/L		95	77 - 120
1,2-Dichlorobenzene	25.0	27.8		ug/L		111	80 - 124
1,2-Dichloroethane	25.0	22.4		ug/L		90	75 - 120
1,2-Dichloropropane	25.0	26.4		ug/L		106	76 - 120
1,3,5-Trimethylbenzene	25.0	27.7		ug/L		111	77 - 121
1,3-Dichlorobenzene	25.0	27.6		ug/L		110	77 - 120
1,4-Dichlorobenzene	25.0	27.3		ug/L		109	80 - 120
2-Butanone (MEK)	125	88.8		ug/L		71	57 - 140
2-Hexanone	125	94.5		ug/L		76	65 - 127
4-Isopropyltoluene	25.0	29.2		ug/L		117	73 - 120
4-Methyl-2-pentanone (MIBK)	125	103		ug/L		82	71 - 125
Acetone	125	87.8		ug/L		70	56 - 142
Benzene	25.0	26.3		ug/L		105	71 - 124
Bromodichloromethane	25.0	26.4		ug/L		106	80 - 122
Bromoform	25.0	24.7		ug/L		99	61 - 132
Bromomethane	25.0	23.7		ug/L		95	55 - 144
Carbon disulfide	25.0	28.1		ug/L		113	59 - 134
Carbon tetrachloride	25.0	28.1		ug/L		112	72 - 134
Chlorobenzene	25.0	26.5		ug/L		106	80 - 120
Chloroethane	25.0	24.7		ug/L		99	69 - 136
Chloroform	25.0	25.6		ug/L		103	73 - 127
Chloromethane	25.0	25.4		ug/L		102	68 - 124
cis-1,2-Dichloroethene	25.0	26.5		ug/L		106	74 - 124
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	74 - 124
Cyclohexane	25.0	30.1		ug/L		121	59 - 135
Dibromochloromethane	25.0	25.9		ug/L		103	75 - 125
Dichlorodifluoromethane	25.0	30.6		ug/L		122	59 - 135
Ethylbenzene	25.0	26.5		ug/L		106	77 - 123
Isopropylbenzene	25.0	28.0		ug/L		112	77 - 122
m,p-Xylene	25.0	26.9		ug/L		107	76 - 122

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Lab Sample ID: LCS 480-400550/5

Matrix: Water

Analysis Batch: 400550

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl acetate	50.0	36.4	*	ug/L		73	74 - 133
Methyl tert-butyl ether	25.0	23.7		ug/L		95	77 - 120
Methylcyclohexane	25.0	31.1		ug/L		124	68 - 134
Methylene Chloride	25.0	25.9		ug/L		104	75 - 124
n-Butylbenzene	25.0	28.9		ug/L		116	71 - 128
N-Propylbenzene	25.0	28.0		ug/L		112	75 - 127
o-Xylene	25.0	27.6		ug/L		110	76 - 122
sec-Butylbenzene	25.0	28.1		ug/L		112	74 - 127
Styrene	25.0	27.1		ug/L		108	80 - 120
tert-Butylbenzene	25.0	28.4		ug/L		114	75 - 123
Tetrachloroethene	25.0	27.0		ug/L		108	74 - 122
Toluene	25.0	25.5		ug/L		102	80 - 122
trans-1,2-Dichloroethene	25.0	27.2		ug/L		109	73 - 127
trans-1,3-Dichloropropene	25.0	26.2		ug/L		105	80 - 120
Trichloroethene	25.0	27.2		ug/L		109	74 - 123
Trichlorofluoromethane	25.0	27.3		ug/L		109	62 - 150
Vinyl chloride	25.0	25.8		ug/L		103	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		77 - 120
4-Bromofluorobenzene (Surr)	107		73 - 120
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: MB 480-400648/2-A

Matrix: Solid

Analysis Batch: 400787

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 400648

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,1-Dichloroethane	ND		100	31	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,1-Dichloroethene	ND		100	35	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,2,4-Trimethylbenzene	ND		100	28	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,2-Dibromo-3-Chloropropane	ND		100	50	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,2-Dibromoethane	ND		100	18	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,2-Dichlorobenzene	ND		100	26	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,2-Dichloroethane	ND		100	41	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,2-Dichloropropane	ND		100	16	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,3,5-Trimethylbenzene	ND		100	30	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
2-Butanone (MEK)	ND		500	300	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
2-Hexanone	ND		500	210	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
4-Isopropyltoluene	ND		100	34	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
4-Methyl-2-pentanone (MIBK)	ND		500	32	ug/Kg		02/20/18 10:43	02/21/18 11:01	1

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Lab Sample ID: MB 480-400648/2-A

Matrix: Solid

Analysis Batch: 400787

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 400648

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		500	410	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Benzene	ND		100	19	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Bromodichloromethane	ND		100	20	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Bromoform	ND		100	50	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Bromomethane	ND		100	22	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Carbon disulfide	ND		100	46	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Carbon tetrachloride	ND		100	26	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Chlorobenzene	ND		100	13	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Chloroethane	ND		100	21	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Chloroform	ND		100	69	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Chloromethane	ND		100	24	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Cyclohexane	ND		100	22	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Dibromochloromethane	ND		100	48	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Dichlorodifluoromethane	ND		100	44	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Ethylbenzene	ND		100	29	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Isopropylbenzene	ND		100	15	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
m,p-Xylene	ND		200	55	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Methyl acetate	ND		500	48	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Methylcyclohexane	ND		100	47	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Methylene Chloride	88.0	J	100	20	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
n-Butylbenzene	ND		100	29	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
N-Propylbenzene	ND		100	26	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
o-Xylene	ND		100	13	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
sec-Butylbenzene	ND		100	37	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Styrene	ND		100	24	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
tert-Butylbenzene	ND		100	28	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Tetrachloroethene	ND		100	13	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Toluene	ND		100	27	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
trans-1,2-Dichloroethene	ND		100	24	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
trans-1,3-Dichloropropene	ND		100	9.8	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Trichloroethene	ND		100	28	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Trichlorofluoromethane	ND		100	47	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Vinyl chloride	ND		100	34	ug/Kg		02/20/18 10:43	02/21/18 11:01	1
Xylenes, Total	ND		200	55	ug/Kg		02/20/18 10:43	02/21/18 11:01	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	103		53 - 146	02/20/18 10:43	02/21/18 11:01	1
4-Bromofluorobenzene (Surr)	95		49 - 148	02/20/18 10:43	02/21/18 11:01	1
Dibromofluoromethane (Surr)	95		60 - 140	02/20/18 10:43	02/21/18 11:01	1
Toluene-d8 (Surr)	102		50 - 149	02/20/18 10:43	02/21/18 11:01	1

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Lab Sample ID: LCS 480-400648/1-A

Matrix: Solid

Analysis Batch: 400787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 400648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	2390		ug/Kg		96	68 - 130
1,1,1,2-Tetrachloroethane	2500	2260		ug/Kg		90	73 - 120
1,1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2560		ug/Kg		102	10 - 179
1,1,1,2-Trichloroethane	2500	2550		ug/Kg		102	80 - 120
1,1-Dichloroethane	2500	2660		ug/Kg		106	78 - 121
1,1-Dichloroethene	2500	2540		ug/Kg		101	48 - 133
1,2,4-Trichlorobenzene	2500	2510		ug/Kg		100	70 - 140
1,2,4-Trimethylbenzene	2500	2490		ug/Kg		100	77 - 127
1,2-Dibromo-3-Chloropropane	2500	1680		ug/Kg		67	56 - 122
1,2-Dibromoethane	2500	2410		ug/Kg		96	80 - 120
1,2-Dichlorobenzene	2500	2530		ug/Kg		101	78 - 125
1,2-Dichloroethane	2500	2540		ug/Kg		101	74 - 127
1,2-Dichloropropane	2500	2590		ug/Kg		104	80 - 120
1,3,5-Trimethylbenzene	2500	2510		ug/Kg		100	79 - 120
1,3-Dichlorobenzene	2500	2550		ug/Kg		102	80 - 120
1,4-Dichlorobenzene	2500	2510		ug/Kg		100	80 - 120
2-Butanone (MEK)	12500	11200		ug/Kg		89	54 - 149
2-Hexanone	12500	10600		ug/Kg		85	59 - 127
4-Isopropyltoluene	2500	2620		ug/Kg		105	80 - 120
4-Methyl-2-pentanone (MIBK)	12500	11100		ug/Kg		88	74 - 120
Acetone	12500	8220		ug/Kg		66	47 - 141
Benzene	2500	2670		ug/Kg		107	77 - 125
Bromodichloromethane	2500	2280		ug/Kg		91	71 - 121
Bromoform	2500	2050		ug/Kg		82	48 - 125
Bromomethane	2500	2720		ug/Kg		109	39 - 149
Carbon disulfide	2500	2170		ug/Kg		87	40 - 136
Carbon tetrachloride	2500	2410		ug/Kg		97	54 - 135
Chlorobenzene	2500	2630		ug/Kg		105	76 - 126
Chloroethane	2500	2850		ug/Kg		114	23 - 150
Chloroform	2500	2610		ug/Kg		105	78 - 120
Chloromethane	2500	2530		ug/Kg		101	61 - 124
cis-1,2-Dichloroethene	2500	2600		ug/Kg		104	79 - 124
cis-1,3-Dichloropropene	2500	2440		ug/Kg		97	75 - 121
Cyclohexane	2500	2620		ug/Kg		105	49 - 129
Dibromochloromethane	2500	2300		ug/Kg		92	64 - 120
Dichlorodifluoromethane	2500	2950		ug/Kg		118	10 - 150
Ethylbenzene	2500	2590		ug/Kg		104	78 - 124
Isopropylbenzene	2500	2510		ug/Kg		100	76 - 120
m,p-Xylene	2500	2520		ug/Kg		101	77 - 125
Methyl acetate	5000	5070		ug/Kg		101	71 - 123
Methyl tert-butyl ether	2500	2390		ug/Kg		96	67 - 137
Methylcyclohexane	2500	2870		ug/Kg		115	50 - 130
Methylene Chloride	2500	2490		ug/Kg		100	75 - 118
n-Butylbenzene	2500	2600		ug/Kg		104	80 - 120
N-Propylbenzene	2500	2600		ug/Kg		104	76 - 120
o-Xylene	2500	2590		ug/Kg		103	80 - 124
sec-Butylbenzene	2500	2650		ug/Kg		106	79 - 120

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Lab Sample ID: LCS 480-400648/1-A

Matrix: Solid

Analysis Batch: 400787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 400648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	2500	2550		ug/Kg		102	80 - 120
tert-Butylbenzene	2500	2540		ug/Kg		102	78 - 120
Tetrachloroethene	2500	2740		ug/Kg		110	73 - 133
Toluene	2500	2580		ug/Kg		103	75 - 124
trans-1,2-Dichloroethene	2500	2550		ug/Kg		102	74 - 129
trans-1,3-Dichloropropene	2500	2350		ug/Kg		94	73 - 120
Trichloroethene	2500	2550		ug/Kg		102	75 - 131
Trichlorofluoromethane	2500	3220		ug/Kg		129	29 - 158
Vinyl chloride	2500	2850		ug/Kg		114	59 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		53 - 146
4-Bromofluorobenzene (Surr)	100		49 - 148
Dibromofluoromethane (Surr)	105		60 - 140
Toluene-d8 (Surr)	105		50 - 149

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

Lab Sample ID: MB 480-400401/1-A

Matrix: Solid

Analysis Batch: 400911

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 400401

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		160	24	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Acenaphthylene	ND		160	21	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Anthracene	ND		160	41	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Benzo[a]anthracene	ND		160	16	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Benzo[a]pyrene	ND		160	24	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Benzo[b]fluoranthene	ND		160	26	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Benzo[g,h,i]perylene	ND		160	17	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Benzo[k]fluoranthene	ND		160	21	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Chrysene	ND		160	37	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Dibenz(a,h)anthracene	ND		160	29	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Fluoranthene	ND		160	17	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Fluorene	ND		160	19	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Indeno[1,2,3-cd]pyrene	ND		160	20	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Naphthalene	ND		160	21	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Phenanthrene	ND		160	24	ug/Kg		02/19/18 08:50	02/21/18 16:48	1
Pyrene	ND		160	19	ug/Kg		02/19/18 08:50	02/21/18 16:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		60 - 120	02/19/18 08:50	02/21/18 16:48	1
Nitrobenzene-d5 (Surr)	83		53 - 120	02/19/18 08:50	02/21/18 16:48	1
p-Terphenyl-d14 (Surr)	97		65 - 121	02/19/18 08:50	02/21/18 16:48	1

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Lab Sample ID: LCS 480-400401/2-A

Matrix: Solid

Analysis Batch: 400911

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 400401

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1650	1560		ug/Kg		95	62 - 120
Acenaphthylene	1650	1460		ug/Kg		88	58 - 121
Anthracene	1650	1500		ug/Kg		91	62 - 120
Benzo[a]anthracene	1650	1640		ug/Kg		100	65 - 120
Benzo[a]pyrene	1650	1600		ug/Kg		97	64 - 120
Benzo[b]fluoranthene	1650	1580		ug/Kg		96	64 - 120
Benzo[g,h,i]perylene	1650	1540		ug/Kg		94	45 - 145
Benzo[k]fluoranthene	1650	1630		ug/Kg		99	65 - 120
Chrysene	1650	1610		ug/Kg		98	64 - 120
Dibenz(a,h)anthracene	1650	1580		ug/Kg		96	54 - 132
Fluoranthene	1650	1550		ug/Kg		94	62 - 120
Fluorene	1650	1500		ug/Kg		91	63 - 120
Indeno[1,2,3-cd]pyrene	1650	1570		ug/Kg		95	56 - 134
Naphthalene	1650	1330		ug/Kg		81	55 - 120
Phenanthrene	1650	1500		ug/Kg		91	60 - 120
Pyrene	1650	1610		ug/Kg		98	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	87		60 - 120
Nitrobenzene-d5 (Surr)	76		53 - 120
p-Terphenyl-d14 (Surr)	100		65 - 121

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-400455/1-A

Matrix: Solid

Analysis Batch: 400892

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 400455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0		mg/Kg		02/19/18 15:11	02/21/18 06:42	1
Barium	ND		0.50		mg/Kg		02/19/18 15:11	02/21/18 06:42	1
Cadmium	ND		0.20		mg/Kg		02/19/18 15:11	02/21/18 06:42	1
Chromium	ND		0.50		mg/Kg		02/19/18 15:11	02/21/18 06:42	1
Lead	ND		1.0		mg/Kg		02/19/18 15:11	02/21/18 06:42	1
Selenium	ND		4.0		mg/Kg		02/19/18 15:11	02/21/18 06:42	1
Silver	ND		0.60		mg/Kg		02/19/18 15:11	02/21/18 06:42	1

Lab Sample ID: LCSSRM 480-400455/2-A

Matrix: Solid

Analysis Batch: 400892

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 400455

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	146	115.2		mg/Kg		78.9	69.9 - 132.9
Barium	102	80.42		mg/Kg		78.8	71.5 - 136.3
Cadmium	63.2	52.37		mg/Kg		82.9	73.3 - 141.5

TestAmerica Buffalo

QC Sample Results

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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

Lab Sample ID: LCSSRM 480-400455/2-A
Matrix: Solid
Analysis Batch: 400892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 400455

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	89.3	72.36		mg/Kg		81.0	69.1 - 143.3
Lead	98.5	88.42		mg/Kg		89.8	70.8 - 137.1
Selenium	136	105.2		mg/Kg		77.3	67.1 - 136.8
Silver	48.9	37.25		mg/Kg		76.2	66.5 - 139.5

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-400925/1-A
Matrix: Solid
Analysis Batch: 400946

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 400925

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019		mg/Kg		02/21/18 15:20	02/21/18 16:49	1

Lab Sample ID: LCSSRM 480-400925/2-A ^10
Matrix: Solid
Analysis Batch: 400946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 400925

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	12.6	13.36		mg/Kg		106.0	44.4 - 128.6

QC Association Summary

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

GC/MS VOA

Analysis Batch: 400384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131428-2	SB-1 (4"-1')	Total/NA	Solid	8260C	400435
MB 480-400435/2-A	Method Blank	Total/NA	Solid	8260C	400435
LCS 480-400435/1-A	Lab Control Sample	Total/NA	Solid	8260C	400435
480-131428-2 MS	SB-1 (4"-1')	Total/NA	Solid	8260C	400435
480-131428-2 MSD	SB-1 (4"-1')	Total/NA	Solid	8260C	400435

Prep Batch: 400435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131428-2	SB-1 (4"-1')	Total/NA	Solid	5035A_L	
MB 480-400435/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-400435/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-131428-2 MS	SB-1 (4"-1')	Total/NA	Solid	5035A_L	
480-131428-2 MSD	SB-1 (4"-1')	Total/NA	Solid	5035A_L	

Analysis Batch: 400550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131428-1	MW-1	Total/NA	Water	8260C	
MB 480-400550/7	Method Blank	Total/NA	Water	8260C	
LCS 480-400550/5	Lab Control Sample	Total/NA	Water	8260C	

Prep Batch: 400648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131428-4	FD-1	Total/NA	Solid	5035A_H	
MB 480-400648/2-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-400648/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	

Analysis Batch: 400787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-400648/2-A	Method Blank	Total/NA	Solid	8260C	400648
LCS 480-400648/1-A	Lab Control Sample	Total/NA	Solid	8260C	400648

Analysis Batch: 400993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131428-4	FD-1	Total/NA	Solid	8260C	400648

GC/MS Semi VOA

Prep Batch: 400401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131428-3	SB-5 (0-2')	Total/NA	Solid	3550C	
480-131428-4	FD-1	Total/NA	Solid	3550C	
MB 480-400401/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-400401/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 400911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131428-3	SB-5 (0-2')	Total/NA	Solid	8270D	400401
480-131428-4	FD-1	Total/NA	Solid	8270D	400401
MB 480-400401/1-A	Method Blank	Total/NA	Solid	8270D	400401
LCS 480-400401/2-A	Lab Control Sample	Total/NA	Solid	8270D	400401

TestAmerica Buffalo

QC Association Summary

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Metals

Prep Batch: 400455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131428-3	SB-5 (0-2')	Total/NA	Solid	3050B	
480-131428-4	FD-1	Total/NA	Solid	3050B	
MB 480-400455/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-400455/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 400892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131428-3	SB-5 (0-2')	Total/NA	Solid	6010C	400455
480-131428-4	FD-1	Total/NA	Solid	6010C	400455
MB 480-400455/1-A	Method Blank	Total/NA	Solid	6010C	400455
LCSSRM 480-400455/2-A	Lab Control Sample	Total/NA	Solid	6010C	400455

Prep Batch: 400925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131428-3	SB-5 (0-2')	Total/NA	Solid	7471B	
480-131428-4	FD-1	Total/NA	Solid	7471B	
MB 480-400925/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-400925/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 400946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131428-3	SB-5 (0-2')	Total/NA	Solid	7471B	400925
480-131428-4	FD-1	Total/NA	Solid	7471B	400925
MB 480-400925/1-A	Method Blank	Total/NA	Solid	7471B	400925
LCSSRM 480-400925/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	400925

General Chemistry

Analysis Batch: 400298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131428-3	SB-5 (0-2')	Total/NA	Solid	Moisture	
480-131428-4	FD-1	Total/NA	Solid	Moisture	

Analysis Batch: 400659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131428-2	SB-1 (4"-1')	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Client Sample ID: MW-1

Lab Sample ID: 480-131428-1

Date Collected: 02/15/18 16:00

Matrix: Water

Date Received: 02/16/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	400550	02/20/18 13:19	MXS	TAL BUF

Client Sample ID: SB-1 (4"-1')

Lab Sample ID: 480-131428-2

Date Collected: 02/15/18 08:00

Matrix: Solid

Date Received: 02/16/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	400659	02/20/18 11:22	CDC	TAL BUF

Client Sample ID: SB-1 (4"-1')

Lab Sample ID: 480-131428-2

Date Collected: 02/15/18 08:00

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			400435	02/19/18 10:44	AEM	TAL BUF
Total/NA	Analysis	8260C		1	400384	02/19/18 12:54	AEM	TAL BUF

Client Sample ID: SB-5 (0-2')

Lab Sample ID: 480-131428-3

Date Collected: 02/15/18 13:50

Matrix: Solid

Date Received: 02/16/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	400298	02/17/18 07:32	CSW	TAL BUF

Client Sample ID: SB-5 (0-2')

Lab Sample ID: 480-131428-3

Date Collected: 02/15/18 13:50

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			400401	02/19/18 08:50	NMC	TAL BUF
Total/NA	Analysis	8270D		1	400911	02/21/18 22:43	PJQ	TAL BUF
Total/NA	Prep	3050B			400455	02/19/18 15:11	SMF	TAL BUF
Total/NA	Analysis	6010C		1	400892	02/21/18 07:26	AMH	TAL BUF
Total/NA	Prep	7471B			400925	02/21/18 15:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	400946	02/21/18 17:12	BMB	TAL BUF

Client Sample ID: FD-1

Lab Sample ID: 480-131428-4

Date Collected: 02/15/18 14:30

Matrix: Solid

Date Received: 02/16/18 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	400298	02/17/18 07:32	CSW	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
 Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Client Sample ID: FD-1

Lab Sample ID: 480-131428-4

Date Collected: 02/15/18 14:30

Matrix: Solid

Date Received: 02/16/18 15:15

Percent Solids: 64.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			400648	02/20/18 10:43	CDC	TAL BUF
Total/NA	Analysis	8260C		10	400993	02/22/18 15:22	AMM	TAL BUF
Total/NA	Prep	3550C			400401	02/19/18 08:50	NMC	TAL BUF
Total/NA	Analysis	8270D		20	400911	02/21/18 23:11	PJQ	TAL BUF
Total/NA	Prep	3050B			400455	02/19/18 15:11	SMF	TAL BUF
Total/NA	Analysis	6010C		1	400892	02/21/18 07:30	AMH	TAL BUF
Total/NA	Prep	7471B			400925	02/21/18 15:20	BMB	TAL BUF
Total/NA	Analysis	7471B		1	400946	02/21/18 17:14	BMB	TAL BUF

Laboratory References:

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

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Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

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	03-31-18 *

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

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

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



Method Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Fine Moisture	EPA	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: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-131428-1	MW-1	Water	02/15/18 16:00	02/16/18 15:15
480-131428-2	SB-1 (4"-1')	Solid	02/15/18 08:00	02/16/18 15:15
480-131428-3	SB-5 (0-2')	Solid	02/15/18 13:50	02/16/18 15:15
480-131428-4	FD-1	Solid	02/15/18 14:30	02/16/18 15:15

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Chain of Custody Record



Client Information
 Client Contact: Nate Munley
 Lab PM: Fischer, Brian J
 E-Mail: brian.fischer@testamericainc.com
 Phone: 716-913-3437

COC No: 480-109315-25440.2
 Page: Page 2 of 2
 Job #: 480-131428 COC

Analysis Requested

Due Date Requested:
 TAT Requested (days):
 PO #: Purchase Order not required *Boozy-018-w1*
 WO #:
 Project #:
 48017568
 SSOV #:

Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	8260C - (MOD) TCL list OLM04.2 + CP-5(Stars)	8260C - (MOD) TCL list OLM04.2 + Stars <i>CP-5</i>	6010C, 7471B	8270D - PAH Semivolatiles
X	X	X	X		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Preservation Code:	Special Instructions/Note:
MW-1	2/15/18	1600		Water		
SB-1 (411-1)	2/15/18	9:00	C.S.	Water		
SB-5 (0-2)	2/15/18	13:50	C.S.	Water		
FD1	2/15/18	14:30	G	Solid		
				Solid		
				Solid		
				Solid		
				Solid		
				Solid		
				Solid		

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by:
 Relinquished by: [Signature]
 Date/Time: 2/16/18 15:15
 Company: [Blank]
 Relinquished by: [Signature]
 Date/Time: [Blank]
 Company: [Blank]
 Relinquished by: [Signature]
 Date/Time: [Blank]
 Company: [Blank]

Custody Seals Intact:
 Yes No
 Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks:
 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: *Separate report each chain*
 Method of Shipment:
 Received by: *Quynh Vu*
 Date/Time: 2/16/18 15:15
 Company: [Blank]
 Received by: [Blank]
 Date/Time: [Blank]
 Company: [Blank]
 Received by: [Blank]
 Date/Time: [Blank]
 Company: [Blank]

8.8 #1

Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-131428-1

Login Number: 131428

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher 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	TER
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	

APPENDIX B

PHOTOLOG

SITE PHOTOGRAPHS

Photo 1:



Photo 2:



Photo 3:



Photo 4:



Photo 1: View of the interior soil boring SB-1/ TMW-1

Photo 2: View of the interior soil boring SB-3 facing south west.

Photo 3: View of the drilling of SB-10 facing northeast.

Photo 4: View of the drilling of SB-11/TMW-2 facing southwest.

1200 Jefferson Avenue

Photo Date: February 16-18, 2018



SITE PHOTOGRAPHS

Photo 5:



Photo 6:



Photo 7:



Photo 8:



Photo 5,6,7,8: Views of the grossly contaminated soils encountered at the Site within soil boring SB-11.

1200 Jefferson Avenue

Photo Date: February 16-18, 2018



SITE PHOTOGRAPHS

Photo 9:



Photo 10:



Photo 11:



Photo 12:



Photo 9: View of the drilling of SB-12.

Photo 10,11,12: View of the soil/fill encountered across the Site. (note: black stained soils)

1200 Jefferson Avenue

Photo Date: February 16-18, 2018

