

# Limited Phase II Environmental Investigation

*1585 Hertel Avenue  
Buffalo, New York*

December 2017

B0437-017-001-002

Prepared For:

1585 Hertel LLC



Prepared By:



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# LIMITED PHASE II ENVIRONMENTAL INVESTIGATION REPORT

Spill No. 1706962  
1585 Hertel Avenue  
Buffalo, New York

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December 2017

B0437-017-001-002

Prepared for:

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Buffalo, New York 14214

Prepared by:



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# LIMITED PHASE II ENVIRONMENTAL INVESTIGATION REPORT

Spill No. 1706962  
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# LIMITED PHASE II ENVIRONMENTAL INVESTIGATION REPORT

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## 1.0 INTRODUCTION

### 1.1 Background and Site Description

Benchmark Environmental Engineering & Science, PLLC (Benchmark) performed a Phase II Environmental Investigation on behalf of 1585 Hertel LLC at 1585 Hertel Avenue, Buffalo, New York (Site). 1585 Hertel LLC is interested in redeveloping the Site from its former use as a gas/service station to another use.

The Site is located in an urban setting within the City of Buffalo and has been used as a gasoline service station from late 1930s until the operation was shut down in 2016. As shown on Figure 2, one main structure is present on the Site. The building, a former auto repair shop with three (3) hydraulic lift bays (two below ground and one above ground) is currently vacant.

A recent Phase I Environmental Site Assessment (ESA) completed by Benchmark, identified recognized environmental conditions (RECs) for the Site related to the historic site use as a gas station and repair shop for over 70 years. The scope of work for the investigation was devised based on the RECs identified in the Phase I ESA for the Site, which are summarized below in Section 1.2 and outlined in the Environmental Site Investigation Work Plan which was submitted to the New York State Department of Environmental Conservation (NYSDEC) Bulk Petroleum Storage Division.

### 1.2 Previous Study

“Phase I Environmental Site Assessment, 1585 Hertel Avenue, Buffalo, New York,” completed by Benchmark, for 1585 Hertel Inc., dated October 2017. The 0.18 acre Site was identified as being a vacant former gasoline and service station, used as a portable food cart operation that was mobilized to the Site by Mac Vending, at the time of this assessment.

Benchmark’s ESA revealed the following RECs in connection with the Site:

- The historic use of the Site as a petroleum retail operation and automotive repair facility from 1938 until operations ceased in 2016 are considered RECs as subsurface conditions are unknown. Note that prior to construction of the existing gasoline service station in 1963, the Site included a previous gasoline service station in current asphalt paved and pump island areas;

- The Site has an extensive tank history with existing inactive underground storage tanks (USTs), previous generations of USTs, and current/former pump island areas. Evidence indicative of former USTs (i.e., cut suspect vent pipes) was observed during the site reconnaissance. Existing and former USTs and pump islands are considered RECs due to the potential for subsurface impacts;
- The in-ground lift systems observed within the building are considered RECs due to the potential for impacts;
- The staining noted at the Site is considered a REC as visible impacts were noted to earthen ground surfaces proximate to the aboveground storage tank (AST) on the eastern exterior portion of the Site. Further, additional black staining was noted within the building, including a black liquid/sludge within the floor drain system. The exact discharge point and integrity of the floor drain system is unknown thus considered a REC; and,
- The remaining materials noted at the Site, especially the exterior 55-gallon drum with an unknown liquid, are considered RECs as such will require proper handling and off-site disposal. Similarly, electronic wastes such as light ballasts potentially containing PCBs will require proper handling and off-site disposal.

Due to the RECs identified for the Site, Benchmark recommended completion of a Phase II Environmental Site Investigation to assess the RECs identified. The RECs are identified on Figure 2.

## 2.0 SITE INVESTIGATION ACTIVITIES

### 2.1 Soil Boring Investigation

On October 18, 2017, Benchmark's subcontractor, Nature's Way Environmental (Nature's Way), mobilized a truck-mounted Earthprobe 200 drill rig equipped with a 1.5-inch diameter, 48 inch long macro-core sampler, to the Site to assess subsurface conditions on the property. As further described in Section 3.0, petroleum impacts were encountered during the drilling activities.

As shown on Figure 3, a total of eight (8) soil borings, designated as SB-1 through SB-8, were completed at the Site. The soil borings were advanced to depths ranging from 10 to 15.5 feet below ground surface (fbgs).

The 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 samples by Benchmark's Geologist. The physical characteristics of the soil borings were classified using the ASTM D2488 Visual-Manual Procedure Description. Soils from each boring were screened via headspace screening using a MiniRae 3000 Photoionization Detector (PID). Visual and/or olfactory observations were noted. The field observations, including lithology, depths, PID scan results, etc., at each investigation location are summarized in the Soil Boring Log sheets provided in Appendix A.

Soil borings SB-1, -2, -4 and -6 were completed proximate to the former pump island location in the northwestern portion of the Site. SB-3 was completed in the area of an existing waste oil UST on the eastern portion of the Site. SB-5 and SB-7 were completed proximate to the gasoline USTs on the southwestern portion of the Site. SB-8 was completed outside the building near the western most service bay where hydraulic lifts were observed to be present in the ground.

Soil samples were selected for laboratory analysis, which included Target Compound List (TCL) plus NYSDEC Commissioners Policy 51 (CP-51) List volatile organic compounds (VOCs) plus tentatively identified compounds (TICs), CP-51 List semi-volatile organic compounds (SVOCs), Resource Conservation and Recovery Act (RCRA) 8 metals and/or polychlorinated biphenyls (PCBs).

Additionally, one (1) surface soil sample (SS-1) was collected from the eastern side of the building where stained soil was observed at ground surface in the vicinity of an AST and

drum storage area. The surface soil sample was analyzed for CP-51 List SVOC, RCRA 8 Metals, and PCBs.

The soil samples collected as part of the investigation were transported under chain-of custody command to TestAmerica Laboratories, Inc. (TestAmerica) in Amherst, NY for analysis. Samples were collected in laboratory provided sample jars and cooled to 4 C° prior to transport.



### 3.0 INVESTIGATION FINDINGS

#### 3.1 Site Geology/Hydrogeology

The overburden geology observed during the soil boring investigation is generally described as fill material overlying presumed native soil consisting of a sandy lean clay (see Soil Boring Logs in Appendix A). The fill materials consisted of various amounts of gravel, sands, silt and reworked native clays. The thickness of the fill material ranged from 1 fbgs (SB-1, -3, -6, -7) to 7.5 fbgs (SB-6). Equipment refusal was not encountered during the soil borings.

Groundwater was not encountered at the eight (8) soil boring locations that ranged in depth from 10 to 15.5 fbgs. Regional groundwater flow is suspected to be westerly towards the Niagara River and along the flow path of Scajaquada Creek. Actual groundwater flow patterns at the Site may be influenced by subsurface features, such as excavations, utilities, and localized fill-conditions.

#### 3.2 Field Observations

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

| Investigation Location ID | Environmental Concern Assessed        | Highest PID reading (parts per million, ppm) and depth (fbgs) | Other Observations                              |
|---------------------------|---------------------------------------|---|---|
| SB-1                      | Pump Island - north                   | 429 ppm, 7.5 fbgs.  | Petroleum odors 4 to 8 fbgs                     |
| SB-2                      | Pump Island – east                    | 62 ppm, 1.5 fbgs.   | Petroleum odors 1 to 3.5 fbgs                   |
| SB-3                      | Waste Oil Tank                        | 38 ppm, 2 fbgs.   | Petroleum odors at 2 fbgs                       |
| SB-4                      | Pump Island - south                   | 0.0 ppm throughout boring.                                    | None  |
| SB-5                      | USTs - south                          | 1 ppm, 3.5 fbgs.  | Petroleum odors 3 to 6 fbgs                     |
| SB-6                      | Pump Island - west                    | 898 ppm, 3.5 fbgs.  | Staining and strong petroleum odors 3 to 6 fbgs |
| SB-7                      | USTs - northwest                      | 791 ppm; 3 fbgs.  | Staining and petroleum odors 1 to 4 fbgs        |
| SB-8                      | North of Building/Hydraulic Lifts     | 0.0 ppm throughout boring.                                    | None  |
| SS-1                      | AST, drum, staining on ground surface | Not measured  | Surface soil is heavily stained.                |

### 3.3 Soil Analytical Results

Table 1 presents a summary of the analytical samples selected for analysis and the analysis completed. Table 2 is a summary of the soil sample analytical results for the samples analyzed. For comparative purposes, Table 2 includes the CP-51 Soil Cleanup Levels for Gasoline Contaminated Soil (CP-51 SCLs)/NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (USCOs), Restricted-Residential Use SCOs (RRSCOs) and Commercial Use SCOs (CSCOs). The CP-51 SCLs are typically used for comparison of analytical data involving potential petroleum impact or on sites undergoing petroleum spill cleanup. Part 375 SCOs are specific to the intended reuse of the site and are typically employed for comparison at other remediation sites with NYSDEC oversight, such as Brownfield sites. Based on the current use as a former gasoline station the CP-51 SCLs are applicable. Furthermore, RRSCOs are also considered applicable comparative criteria based on the anticipated future use of the site in a restricted residential capacity. A copy of the laboratory analytical data package is included in Appendix B.

As summarized on Table 2, petroleum VOCs (pVOCs) were detected at concentrations exceeding CP-51 SCLs, RRSCOs and/or CSCOs in soil samples SB-6 (2-4 fbgs), SB-7 (1.5-3.5 fbgs), which were completed in the vicinity of the pump island and existing USTs, respectively. Stained soil, petroleum odors, and the highest PID measurements at the Site were also noted at these two (2) locations.

SVOCs were either non-detect or at concentrations below applicable regulatory criteria.

PCBs were non-detect in the two (2) soil samples analyzed.

Metals were detected in the four (4) samples analyzed soil samples. Barium was detected at SB-2 (0.5-2 fbgs) at a concentration above its CSCO. Arsenic, barium, and lead were detected at surface soil sample, SS-1, at concentrations above their respective CSCOs. Based on the high concentrations of arsenic (164 mg/kg) and lead (1,030 mg/kg) detected in the surface soil, additional analysis may be warranted to determine if the soil present in this area is a characteristic hazardous waste.

### 3.4 NYSDEC Reporting Obligation

Based on the field observations during the Phase II investigation, it was evident that petroleum impacts were present at the Site, and, as required by law, the NYSDEC was notified and Spill No. 1706962 was assigned to the Site.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

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

- Field evidence of petroleum impacts with elevated PID readings, staining and petroleum-like odors were identified in subsurface soil/fill in the vicinity of the pump islands and USTs. Laboratory analytical results also suggest the presence of gasoline-impacted soil in this area. As such, the impacts identified at the Site are reasonably attributed to use of the Site as a gas station and the former gasoline pump island/gasoline USTs.
- As the Site is no longer used for gasoline sales and the owner would like to redevelop the Site for another use, the USTs (heating oil, waste oil, and gasoline), pump islands and hydraulic lifts will need to be removed along with any petroleum-impacted soil. Remedial action is necessary to prepare the Site for redevelopment.
- Elevated arsenic, cadmium, and lead were detected in a surface soil sample collected from the eastern side of the building in the vicinity of an AST and 55-gallon drum where stained soil was also observed. The high levels of arsenic and lead may warrant additional analysis to determine if the soil present in this area is a characteristic hazardous waste.
- A copy of this report should be provided to the NYSDEC for their review and comment. The Site will require remedial action and the gasoline distribution equipment (pump island, piping, and USTs) should be removed from the Site in addition to the petroleum impacted soil present.
- Based on the finding of this limited Phase II investigation, the Site appears to be a candidate for the New York State Brownfield Cleanup Program (BCP).

Figure 4 identifies the locations where remedial action is necessary to be completed prior to redevelopment of the Site.

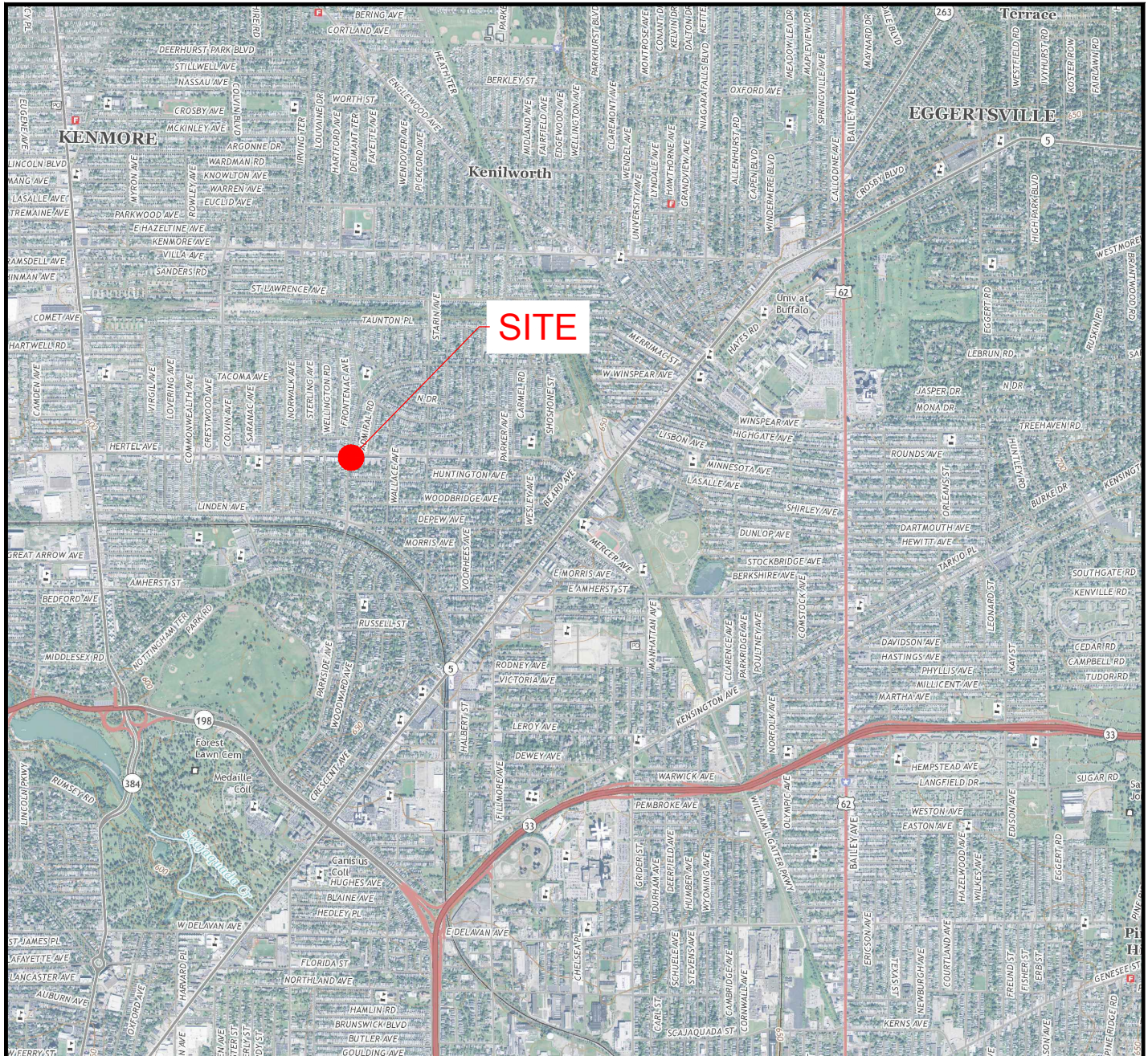
## 5.0 LIMITATIONS

This report has been prepared for the exclusive use of 1585 Hertel 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 1585 Hertel LLC. Use of or reliance on this report or its findings by any other person or entity is prohibited without written permission of Benchmark Environmental Engineering & Science, PLLC.

# FIGURES



**FIGURE 1**



SCALE: 1 INCH = 3,000 FEET  
SCALE IN FEET  
(approximate)



2558 HAMBURG TURNPIKE  
SUITE 300  
BUFFALO, NY 14218  
(716) 856-0599

**SITE LOCATION AND VICINITY MAP**

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

1585 HERTEL AVENUE SITE  
BUFFALO, NEW YORK

PREPARED FOR  
1585 HERTEL LLC

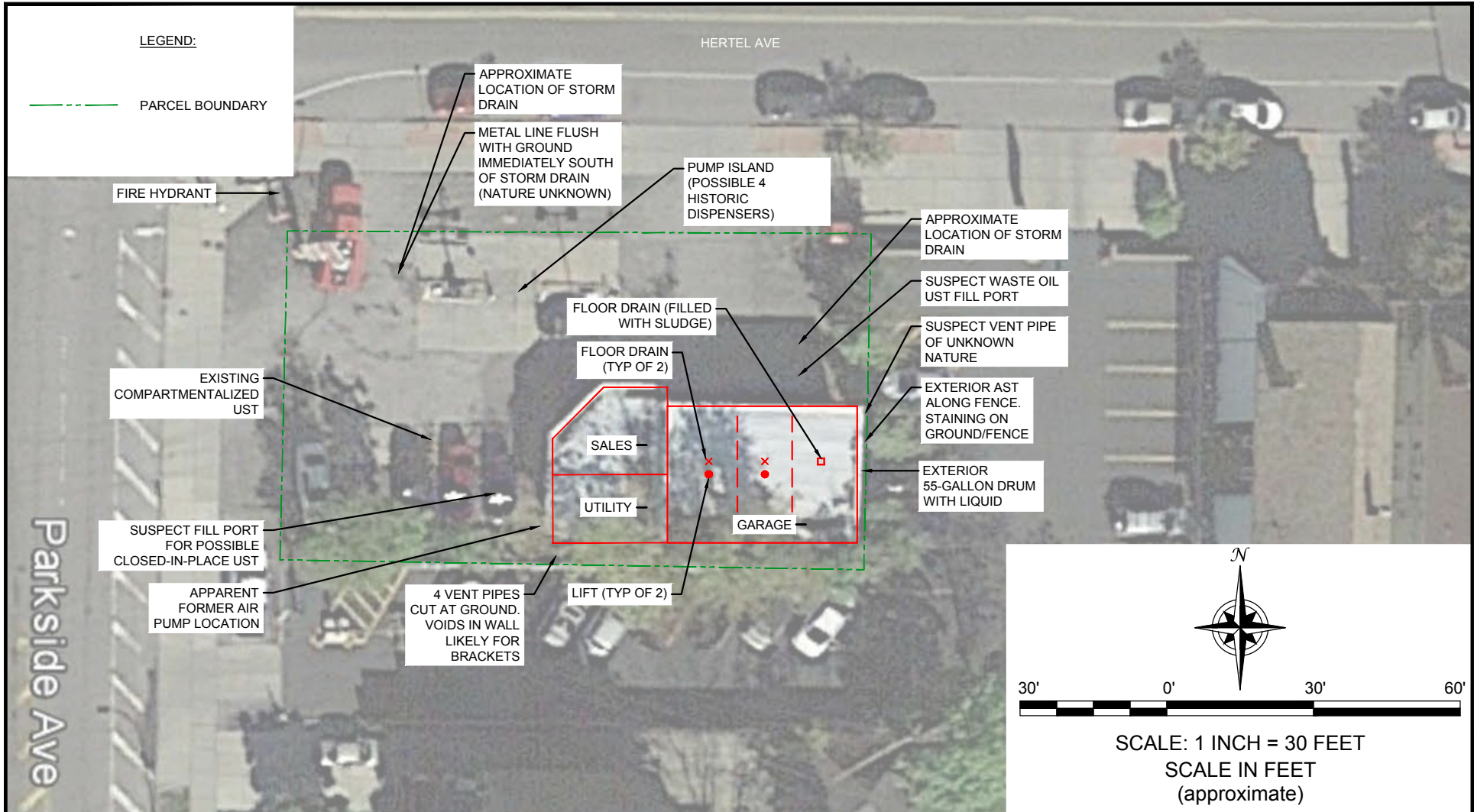
PROJECT NO.: 0437-001-002

DATE: NOVEMBER 2017

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**BENCHMARK**  
 ENVIRONMENTAL  
 ENGINEERING &  
 SCIENCE, PLLC

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 SUITE 300  
 BUFFALO, NY 14218  
 (716) 856-0599

PROJECT NO.: B0437-017-002  
 DATE: NOVEMBER 2017  
 DRAFTED BY: CMS

**SITE PLAN WITH PHASE I ESA RECs**

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

1585 HERTEL AVENUE SITE

BUFFALO, NEW YORK




PREPARED FOR  
 1585 HERTEL LLC

**FIGURE 2**

**DISCLAIMER:**  
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LEGEND:

-  PARCEL BOUNDARY
-  SB-1 SOIL BORING
-  SS-1 SURFACE SOIL SAMPLE



SCALE: 1 INCH = 30 FEET  
SCALE IN FEET  
(approximate)



2556 HAMBURG TURNPIKE  
SUITE 300  
BUFFALO, NY 14218  
(716) 856-0599

## BORING LOCATIONS

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

1585 HERTEL AVENUE SITE

BUFFALO, NEW YORK

PREPARED FOR

1585 HERTEL LLC

PROJECT NO.: 0437-001-002





DATE: NOVEMBER 2017

DRAFTED BY: RFL-CMC

**FIGURE 3**

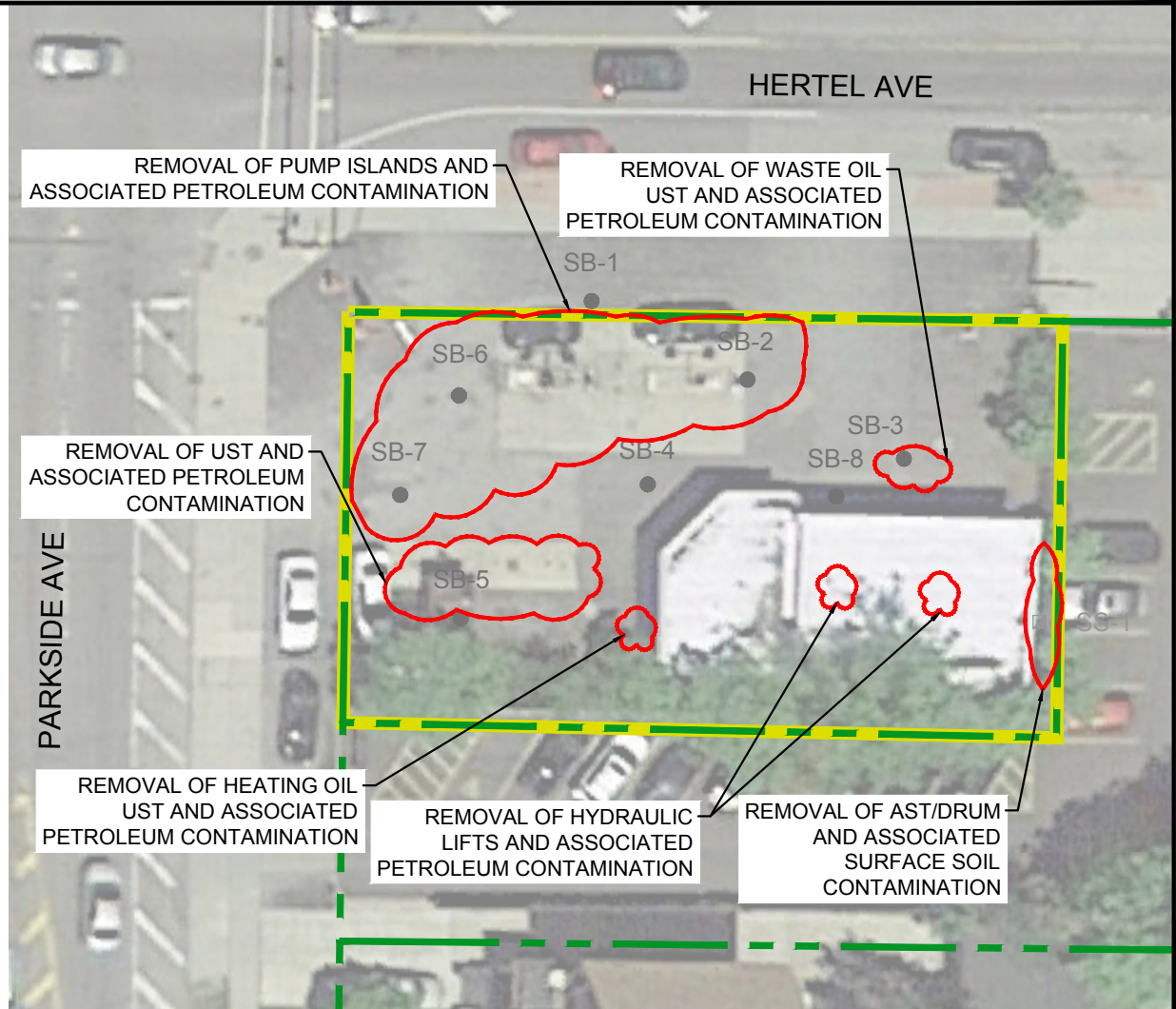
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**LEGEND:**

-  PROPERTY BOUNDARY
-  PARCEL BOUNDARY
-  SB-1 ● SOIL BORING
-  SS-1 ▣ SURFACE SOIL SAMPLE



SCALE: 1 INCH = 30 FEET  
SCALE IN FEET  
(approximate)



**AREAS OF REMEDIAL ACTION**

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT  
1585 HERTEL AVENUE SITE  
BUFFALO, NEW YORK  
PREPARED FOR  
1585 HERTEL LLC

**FIGURE 4**



2558 HAMBURG TURNPIKE  
SUITE 300  
BUFFALO, NY 14218  
(716) 856-0599

PROJECT NO.: 0437-001-002

DATE: DECEMBER 2017

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# TABLES



**TABLE 1**

**SUMMARY OF ANALYTICAL SAMPLING PROGRAM**

**1585 HERTEL AVENUE  
BUFFALO, NEW YORK**

| Sample Identifier   | Depth Sampled/ Screened (fbs) | TCL & NYSDEC CP-51 VOCs | CP-51 SVOCS | RCRA 8 Metals | PCBS |
|---------------------|-------------------------------|-------------------------|-------------|---------------|------|
| <b>Soil Samples</b> |                               |                         |             |               |      |
| SB-1                | 6 to 8                        | X                       |             |               |      |
| SB-2                | 0.5 to 2                      |                         | X           | X             |      |
| SB-2                | 2 to 4                        | X                       |             | X             | X    |
| SB-3                | 2 to 4                        | X                       | X           | X             |      |
| SB-6                | 2 to 4                        | X                       | X           |               |      |
| SB-7                | 1.5 to 3.5                    | X                       |             |               |      |
| SB-8                | 0.5 to 2.5                    |                         | X           | X             |      |
| SS-1                |                               |                         | X           | X             | X    |



TABLE 2

SUMMARY OF SUBSURFACE SOIL/FILL SAMPLE ANALYTICAL RESULTS  
 PHASE II ENVIRONMENTAL SITE ASSESSMENT  
 1278 HERTEL AVENUE  
 BUFFALO, NY

| PARAMETER <sup>1</sup>   | CP-51 & Unrestricted Use SCOs <sup>2</sup> | Restricted Residential Use SCOs <sup>3</sup> | Commercial Use SCOs <sup>3</sup> | SB-1     | SB-2   | SB-2   | SB-3      | SB-6    | SB-7    | SB-8    | SS-1  |
|--|--|--|----------------------------------|----------|--------|--------|-----------|---------|---------|---------|-------|
|  |  |  |                                  | 6-8      | 0.5-2  | 2-4    | 2-4       | 2-4     | 1.5-3.5 | 0.5-2.5 | 0-0.2 |
| 10/18/2017   |  |  |                                  |          |        |        |           |         |         |         |       |
| <b>Highest Total Volatile Organic Field Readings - parts per million (ppm) mg/Kg</b> |  |  |                                  |          |        |        |           |         |         |         |       |
| Total Organic Vapors   | --   | --   | --                               | 429      | 62     | 38     | 0         | 5       | 898     | 791     | --    |
| <b>Volatile Organic Compounds (VOCs) - mg/Kg<sup>4</sup></b>                         |  |  |                                  |          |        |        |           |         |         |         |       |
| 1,2,4-Trimethylbenzene   | 3.6  | 52   | 190                              | ND       | --     | --     | 0.0014 J  | 12      | 190     | --      | --    |
| 1,3,5-Trimethylbenzene   | 8.4  | 52   | 190                              | ND       | --     | --     | 0.0004 Jv | 2.4     | 50      | --      | --    |
| Benzene  | 0.06                                       | 4.8  | 44                               | ND       | --     | --     | ND        | ND      | 3       | --      | --    |
| Ethylbenzene   | 1  | 41   | 390                              | 0.0032 J | --     | --     | 0.001 J   | 0.400 J | 41      | --      | --    |
| Isopropylbenzene (Cumene)  | 2.3  | --   | --                               | 0.038    | --     | --     | 0.00088 J | 0.240 J | 5.4     | --      | --    |
| Methyl tert butyl ether (MTBE)   | 0.93                                       | 100  | 500                              | 0.0014 J | --     | --     | ND        | ND      | ND      | --      | --    |
| n-Butylbenzene   | 12   | 100  | 500                              | 0.065    | --     | --     | 0.0059    | 1.9     | 18      | --      | --    |
| n-Propylbenzene  | 3.9  | 100  | 500                              | 0.15     | --     | --     | 0.00095 J | 1       | 18      | --      | --    |
| p-Isopropyltoluene   | --   | --   | --                               | ND       | --     | --     | ND        | 0.220 J | 2.2     | --      | --    |
| sec-Butylbenzene   | 11   | 100  | 500                              | 0.025    | --     | --     | 0.0066    | 0.290 J | ND      | --      | --    |
| tert-Butylbenzene  | 5.9  | 100  | 500                              | 0.0008 J | --     | --     | 0.00077 J | ND      | ND      | --      | --    |
| Toluene  | 0.7  | 100  | 500                              | ND       | --     | --     | 0.00046 J | ND      | 11      | --      | --    |
| Total Xylenes  | 0.26                                       | 100  | 500                              | 0.0016 J | --     | --     | 0.0035 J  | 1.1 J   | 320     | --      | --    |
| Total Tentatively Identified Compounds   | --   | --   | --                               | 1.71     | --     | --     | 0.38      | ND      | ND      | --      | --    |
| <b>Semi-Volatile Organic Compounds (SVOCs) - mg/Kg<sup>4</sup></b>                   |  |  |                                  |          |        |        |           |         |         |         |       |
| Benzo(ghi)perylene   | 100  | 100  | 500                              | --       | 0.21 J | --     | ND        | ND      | --      | ND      | ND    |
| Chrysene   | 1  | 3.9  | 56                               | --       | ND     | --     | 0.061 J   | ND      | --      | ND      | ND    |
| Naphthalene  | 12   | 100  | 500                              | --       | ND     | --     | ND        | 0.870 J | --      | ND      | ND    |
| <b>Total PCBS - mg/Kg</b>  |  |  |                                  |          |        |        |           |         |         |         |       |
|  | 0.1  | 1  | 1                                | --       | --     | ND     | --        | --      | --      | --      | ND    |
| <b>Total Metals - mg/Kg</b>  |  |  |                                  |          |        |        |           |         |         |         |       |
| Arsenic  | 13   | 16   | 16                               | --       | 11.2   | 7.3    | 4.3       | --      | --      | 3.2     | 164   |
| Barium   | 350  | 400  | 400                              | --       | 488    | 108 F1 | 135       | --      | --      | 157     | 414   |
| Cadmium  | 2.5  | 4.3  | 9.3                              | --       | 0.29   | ND     | ND        | --      | --      | ND      | 3.6   |
| Chromium   | 30   | 180  | 1500                             | --       | 6.2    | 5.6    | 28.9      | --      | --      | 35.9    | 39.7  |
| Lead   | 63   | 400  | 1000                             | --       | 223    | 7.2    | 15.8      | --      | --      | 45.7    | 1030  |
| Mercury  | 0.18                                       | 0.81   | 2.8                              | --       | ND     | ND     | ND        | --      | --      | 0.067   | 0.051 |
| Selenium   | 3.9  | 180  | 1500                             | --       | ND     | ND     | ND        | --      | --      | ND      | ND    |
| Silver   | 2  | 180  | 1500                             | --       | ND     | ND     | ND        | --      | --      | ND      | ND    |

Notes:

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

Definitions:

ND = Parameter not detected above laboratory detection limit.

-- = No value available for the parameter; Parameter not analysed for.

J = Estimated value; result is less than the sample quantitation limit but greater than zero.

|             |   |
|-------------|---|
| <b>Bold</b> | = Result exceeds Unrestricted Use SCOs.           |
| <b>Bold</b> | = Result exceeds Restricted Residential Use SCOs. |
| <b>Bold</b> | = Result exceeds Commercial Use SCOs.             |

# APPENDIX A

## SOIL BORING LOGS

**Project No:** 0437-017-001-002

**Borehole Number:** SB-1



**Project:** Phase II investigation

**A.K.A.:**

**Client:** 1585 Hertel LLC

**Logged By:** TAB

**Site Location:** 1585 Hertel Ave. Buffalo NY

**Checked By:** CZB

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

| SUBSURFACE PROFILE |              |  | SAMPLE     |             |               |        | PID VOCs<br>ppm<br>0 250 500 | Lab Sample      | Well Completion Details or Remarks |
|--------------------|--------------|--|------------|-------------|---------------|--------|------------------------------|-----------------|------------------------------------|
| Depth (fbgs)       | Elev. /Depth | Description (ASTM D2488: Visual-Manual Procedure)  | Sample No. | SPT N-Value | Recovery (ft) | Symbol |                              |                 |                                    |
| 0.0                | 0.0          | Ground Surface   |            |             |               |        |                              |                 |                                    |
|                    | 0.0          | <b>Asphalt</b>   |            |             |               |        |                              |                 |                                    |
|                    | 0.5          | <b>Asphalt</b>   |            |             |               |        |                              |                 |                                    |
|                    | 0.5          | <b>Poorly Graded Gravel with Sand (Sub-base)</b>   |            |             |               |        |                              |                 |                                    |
|                    | 1.0          | Dark Grey/grey, moist, mostly fine gravel (angular limestone), some fine to coarse sand, loose, medium dense.  |            |             |               |        |                              |                 |                                    |
|                    | 1.0          | <b>Sandy Lean Clay</b>   |            |             |               |        |                              |                 |                                    |
|                    |              | Reddish brown, moist, mostly low plasticity fines, little fine sand, trace fine gravel (sub-rounded), medium toughness, medium dry strength, very stiff. | C1         | NA          | 3.9           |        |                              |                 |                                    |
|                    |              |  |            |             |               |        |                              |                 |                                    |
|                    | -4.0         | As above, petroleum like odor, medium plasticity.  |            |             |               |        |                              |                 |                                    |
|                    | 4.0          |  |            |             |               |        |                              |                 |                                    |
| 5.0                |              |  |            |             |               |        |                              |                 |                                    |
|                    |              |  | C2         | NA          | 4.0           |        |                              |                 |                                    |
|                    |              |  |            |             |               |        |                              |                 |                                    |
|                    |              |  |            |             |               |        |                              | Sample Location |                                    |
|                    | -8.0         | As above, slight petroleum like odor.  |            |             |               |        |                              |                 |                                    |
|                    | 8.0          |  |            |             |               |        |                              |                 |                                    |
|                    |              | End of boring at 10.0 fbgs.  |            |             |               |        |                              |                 |                                    |
|                    |              |  | C3         | NA          | 2.0           |        |                              |                 |                                    |
|                    |              |  |            |             |               |        |                              |                 |                                    |
| 10.0               | -10.0        | End of Borehole  |            |             |               |        |                              |                 |                                    |
|                    | 10.0         |  |            |             |               |        |                              |                 |                                    |

**Drilled By:** Natures Way  
**Drill Rig Type:** Earth Probe 200  
**Drill Method:** Direct Push

**Drill Date(s):** 10/18/17

**Hole Size:** 3.0-inch  
**Stick-up:** NA  
**Datum:** NA

**Sheet:** 1 of 1



Project No: 0437-017-001-002

Borehole Number: SB-2



Project: Phase II investigation

A.K.A.:

Client: 1585 Hertel LLC.

Logged By: TAB

Site Location: 1585 Hertel Ave. Buffalo NY

Checked By:

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

| SUBSURFACE PROFILE |              |  | SAMPLE     |             |               |        | PID VOCs<br>ppm<br>0 50 100 | Lab Sample      | Well Completion Details or Remarks |
|--------------------|--------------|--|------------|-------------|---------------|--------|-----------------------------|-----------------|------------------------------------|
| Depth (fbgs)       | Elev. /Depth | Description (ASTM D2488: Visual-Manual Procedure)  | Sample No. | SPT N-Value | Recovery (ft) | Symbol |                             |                 |                                    |
| 0.0                | 0.0          | Ground Surface   |            |             |               |        |                             |                 |                                    |
|                    | 0.0          | <b>Asphalt</b><br>Asphalt  |            |             |               |        |                             |                 |                                    |
|                    | -0.5         | <b>Poorly Graded Gravel with Sand (Sub-base)</b><br>Dark Grey/grey, moist, mostly fine gravel (angular limestone), some fine to coarse sand, loose, medium dense.                  |            |             |               |        | 37.8                        | Sample Location |                                    |
|                    | -1.0         | <b>Poorly Graded Fine Sand (bedding sand)</b><br>Brown, moist, mostly fine sand, trace non-plastic fines, loose, medium dense, petroleum like odor.                                |            |             |               |        | 62.0                        |                 |                                    |
|                    | -2.0         | <b>Lean Clay with Sand (Reworked)</b><br>Reddish brown, moist, mostly medium plasticity fines, little fine sand, medium toughness, medium dry strength, firm.                      | C1         | NA          | 4.0           |        | 2.5                         |                 |                                    |
|                    | -2.5         | <b>Poorly Graded Fine Sand (bedding sand)</b><br>Black, wet (3.0 fbgs) perched, mostly fine sand, trace non-plastic fines, loose, slight petroleum like odor.                      |            |             |               |        | 6.8                         | Sample Location |                                    |
|                    | -3.5         | <b>Sandy Lean Clay</b><br>Reddish brown, moist, mostly low plasticity fines, little fine sand, trace fine gravel (sub-rounded), medium toughness, medium dry strength, very stiff. |            |             |               |        |                             |                 |                                    |
|                    | -4.0         | As above, medium plasticity.   | C2         | NA          | 3.8           |        | 0.0                         |                 |                                    |
|                    | -8.0         | As above.  |            |             |               |        | 0.0                         |                 |                                    |
|                    | -8.0         | End of boring at 10.0 fbgs.  |            |             |               |        | 0.0                         |                 |                                    |
|                    | -10.0        |  | C3         | NA          | 0.6           |        | 0.0                         |                 |                                    |
| 10.0               | -10.0        | End of Borehole  |            |             |               |        |                             |                 |                                    |

Drilled By: Natures Way  
 Drill Rig Type: Earth Probe 200  
 Drill Method: Direct Push  
 Comments:  
 Drill Date(s): 10/18/17

Hole Size: 3.0-inch  
 Stick-up: NA  
 Datum: NA

Sheet: 1 of 1



**Project No:** 0437-017-001-002

**Borehole Number:** SB-3



**Project:** Phase II investigation

**A.K.A.:**

**Client:** 1585 Hertel Ave LLC

**Logged By:** TAB

**Site Location:** 1585 Hertel Buffalo NY

**Checked By:** CZB

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

| SUBSURFACE PROFILE |              |  | SAMPLE     |             |               |        | PID VOCs<br>ppm<br>0 25 50 | Lab Sample      | Well Completion Details or Remarks |
|--------------------|--------------|--|------------|-------------|---------------|--------|----------------------------|-----------------|------------------------------------|
| Depth (fbgs)       | Elev. /Depth | Description (ASTM D2488: Visual-Manual Procedure)  | Sample No. | SPT N-Value | Recovery (ft) | Symbol |                            |                 |                                    |
| 0.0                | 0.0          | Ground Surface   |            |             |               |        |                            |                 |                                    |
|                    | 0.0          | <b>Asphalt</b>   |            |             |               |        |                            |                 |                                    |
|                    | 0.5          | <b>Asphalt</b>   |            |             |               |        |                            |                 |                                    |
|                    | -0.5         | <b>Poorly Graded Gravel with Sand (sub-base)</b>   |            |             |               |        |                            |                 |                                    |
|                    | 1.0          | Dark Grey/grey, moist, mostly fine gravel (angular limestone), some fine to coarse sand, loose, medium dense.  |            |             |               |        |                            |                 |                                    |
|                    | -1.0         | <b>Sandy Lean Clay</b>   |            |             |               |        |                            |                 |                                    |
|                    | 1.0          | Reddish brown, moist, mostly low plasticity fines, little fine sand, trace fine gravel (sub-rounded), medium toughness, medium dry strength, very stiff, petroleum like odors. | C1         | NA          | 3.5           |        | 5.8                        |                 |                                    |
|                    | -4.0         |  |            |             |               |        | 37.6                       |                 |                                    |
|                    | 4.0          | As above, medium plasticity, no petroleum like odors.  |            |             |               |        | 4.6                        | Sample Location |                                    |
|                    | -4.0         |  |            |             |               |        | 2.6                        |                 |                                    |
|                    | 4.0          |  |            |             |               |        | 0.0                        |                 |                                    |
| 5.0                | 4.0          |  | C2         | NA          | 4.0           |        | 0.0                        |                 |                                    |
|                    | -8.0         | As above.  |            |             |               |        | 0.0                        |                 |                                    |
|                    | 8.0          | End of boring at 10.0 fbgs.  |            |             |               |        | 0.0                        |                 |                                    |
|                    | -8.0         |  |            |             |               |        | 0.0                        |                 |                                    |
|                    | 8.0          |  | C3         | NA          | 2.0           |        | 0.0                        |                 |                                    |
| 10.0               | -10.0        | End of Borehole  |            |             |               |        | 0.0                        |                 |                                    |
|                    | 10.0         |  |            |             |               |        |                            |                 |                                    |

**Drilled By:** Natures Way  
**Drill Rig Type:** Earth Probe 200  
**Drill Method:** Direct Push

**Hole Size:** 3.0-inch  
**Stick-up:** NA  
**Datum:** NA

**Drill Date(s):** 10/18/17

**Sheet:** 1 of 1

Project No: 0437-017-001-002

Borehole Number: SB-4

Project: Phase II investigation

A.K.A.:

Client: 1585 Hertel LLC

Logged By: TAB

Site Location: 1585 Hertel Ave. Buffalo NY

Checked By: CZB



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| SUBSURFACE PROFILE |              |  | SAMPLE     |             |               |        | PID VOCs<br>ppm<br>0 12.5 25 | Lab Sample | Well Completion Details or Remarks |
|--------------------|--------------|--|------------|-------------|---------------|--------|------------------------------|------------|------------------------------------|
| Depth (fbgs)       | Elev. /Depth | Description (ASTM D2488: Visual-Manual Procedure)  | Sample No. | SPT N-Value | Recovery (ft) | Symbol |                              |            |                                    |
| 0.0                | 0.0          | Ground Surface   |            |             |               |        |                              |            |                                    |
|                    | 0.0          | <b>Asphalt</b>   |            |             |               |        |                              |            |                                    |
|                    | -0.5         | Asphalt  |            |             |               |        |                              |            |                                    |
|                    | 0.5          | <b>Poorly Graded Gravel with Sand (Sub-base)</b>   |            |             |               |        |                              |            |                                    |
|                    | -1.0         | Dark Grey/grey, moist, mostly fine gravel (angular limestone), some fine to coarse sand, loose, medium dense.  |            |             |               |        | 0.0                          |            |                                    |
|                    | 1.0          | <b>Sandy Lean Clay (Reworked)</b>  | C1         | NA          | 2.8           |        | 0.0                          |            |                                    |
|                    | -2.5         | Reddish brown, moist, mostly low plasticity fines, little fine sand, medium toughness, medium dry strength, stiff.                                       |            |             |               |        | 0.0                          |            |                                    |
|                    | 2.5          | <b>Fill</b>  |            |             |               |        | 0.0                          |            |                                    |
|                    | -3.0         | Black, wet, mostly concrete chips mixed with angular fine gravel, loose.   |            |             |               |        | 0.0                          |            |                                    |
|                    | 3.0          | <b>Sandy Lean Clay</b>   |            |             |               |        | 0.0                          |            |                                    |
|                    | -4.0         | Reddish brown, moist, mostly low plasticity fines, little fine sand, trace fine gravel (sub-rounded), medium toughness, medium dry strength, very stiff. | C2         | NA          | 3.5           |        | 0.0                          |            |                                    |
|                    | 4.0          | As above, medium plasticity.   |            |             |               |        | 0.0                          |            |                                    |
|                    | -8.0         |  |            |             |               |        | 0.0                          |            |                                    |
|                    | 8.0          | As above.  | C3         | NA          | 3.2           |        | 0.0                          |            |                                    |
|                    | -12.0        |  |            |             |               |        | 0.0                          |            |                                    |
|                    | 12.0         | As above.  |            |             |               |        | 0.0                          |            |                                    |
|                    | -14.0        | End of boring at 14.0 fbgs.  | C4         | NA          | 2.0           |        | 0.0                          |            |                                    |
|                    | 14.0         | End of Borehole  |            |             |               |        |                              |            |                                    |

Drilled By: Natures Way  
 Drill Rig Type: Earth Probe 200  
 Drill Method: Direct Push  
 Comments:  
 Drill Date(s): 10/18/17

Hole Size: 3.0-inch  
 Stick-up: NA  
 Datum: NA  
 Sheet: 1 of 1

**Project No:** 0437-017-001-002

**Borehole Number:** SB-5

**Project:** Phase II investigation

**A.K.A.:**

**Client:** 1585 Hertel LLC

**Logged By:** TAB

**Site Location:** 1585 Hertel Ave. Buffalo NY

**Checked By:** CZB



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| SUBSURFACE PROFILE |              |  | SAMPLE     |             |               |        | PID VOCs<br>ppm<br>0 12.5 25 | Lab Sample | Well Completion Details or Remarks |
|--------------------|--------------|--|------------|-------------|---------------|--------|------------------------------|------------|------------------------------------|
| Depth (fbgs)       | Elev. /Depth | Description (ASTM D2488: Visual-Manual Procedure)  | Sample No. | SPT N-Value | Recovery (ft) | Symbol |                              |            |                                    |
| 0.0                | 0.0          | Ground Surface   |            |             |               |        |                              |            |                                    |
|                    | 0.0          | <b>Asphalt</b>   |            |             |               |        |                              |            |                                    |
|                    | -0.5         | Asphalt  |            |             |               |        |                              |            |                                    |
|                    | 0.5          | <b>Poorly Graded Gravel with Sand (sub-base)</b><br>Dark Grey/grey, moist, mostly fine gravel (angular limestone), some fine to coarse sand, loose, medium dense.                  | C1         | NA          | 1.8           | 0.0    | 0.0                          |            |                                    |
|                    | -1.0         |  |            |             |               |        |                              |            |                                    |
|                    | 1.0          | <b>Sandy Lean Clay (Reworked)</b><br>Reddish brown, moist, mostly low plasticity fines, little fine sand, medium toughness, medium dry strength, stiff.                            | C1         | NA          | 1.8           | 0.0    | 0.0                          |            |                                    |
|                    | -2.0         |  |            |             |               |        |                              |            |                                    |
|                    | 2.0          | <b>Peastone bedding</b><br>Grey, wet (perched), mostly fine sand, some fine gravel (peastone), loose, slight petroleum odor.<br>As above, trace fine sand.                         | C2         | NA          | 1.2           | 0.0    | 0.0                          |            |                                    |
|                    | -4.0         |  |            |             |               |        |                              |            |                                    |
|                    | 4.0          | <b>Sandy Lean Clay</b><br>Reddish brown, moist, mostly low plasticity fines, little fine sand, trace fine gravel (sub-rounded), medium toughness, medium dry strength, very stiff. | C3         | NA          | 3.7           | 0.0    | 0.0                          |            |                                    |
|                    | -7.5         |  |            |             |               |        |                              |            |                                    |
|                    | 7.5          | As above, medium plasticity.   | C3         | NA          | 3.7           | 0.0    | 0.0                          |            |                                    |
|                    | -8.0         |  |            |             |               |        |                              |            |                                    |
|                    | 8.0          | As above.  | C4         | NA          | 3.5           | 0.0    | 0.0                          |            |                                    |
|                    | -12.0        |  |            |             |               |        |                              |            |                                    |
|                    | 12.0         | End of boring at 15.5 fbgs.  | C4         | NA          | 3.5           | 0.0    | 0.0                          |            |                                    |
|                    | -15.5        |  |            |             |               |        |                              |            |                                    |
|                    | 15.5         | End of Borehole  |            |             |               |        |                              |            |                                    |

**Drilled By:** Natures Way  
**Drill Rig Type:** Earth Probe 200  
**Drill Method:** Direct Push  
**Comments:**  
**Drill Date(s):** 10/18/17

**Hole Size:** 3.0-inch  
**Stick-up:** NA  
**Datum:** NA  
**Sheet:** 1 of 1

**Project No:** 0437-017-001

**Borehole Number:** SB-6



**Project:** Phase II investigation

**A.K.A.:**

**Client:** 1585 Hertel Ave LLC

**Logged By:** TAB

**Site Location:** 1585 Hertel Ave. Buffalo NY

**Checked By:** CZB

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 Buffalo, NY 14218  
 (716) 856-0599

| SUBSURFACE PROFILE |              |   | SAMPLE     |             |               |        | PID VOCs<br>ppm<br>0 500 1000 | Lab Sample | Well Completion Details or Remarks |
|--------------------|--------------|---|------------|-------------|---------------|--------|-------------------------------|------------|------------------------------------|
| Depth (fbgs)       | Elev. /Depth | Description (ASTM D2488: Visual-Manual Procedure)   | Sample No. | SPT N-Value | Recovery (ft) | Symbol |                               |            |                                    |
| 0.0                | 0.0          | Ground Surface  |            |             |               |        |                               |            |                                    |
|                    | 0.0          | <b>Asphalt</b><br>Asphalt   |            |             |               |        | 5.6                           |            |                                    |
|                    | -0.5         | <b>Poorly Graded Gravel with Sand (sub-base)</b><br>Dark grey, moist, mostly fine gravel (angular limestone), some fine to coarse sand, loose, medium dense.  |            |             |               |        | 1.2                           |            |                                    |
|                    | 0.5          |   |            |             |               |        | 3.2                           |            |                                    |
|                    | -1.0         | <b>Sandy Lean Clay</b><br>Dark grey, stained, moist, mostly low plasticity fines, little fine sand, trace fine gravel (sub-rounded), medium toughness, medium dry strength, very stiff, petroleum odor.<br><br>As above, reddish brown. | C1         | NA          | 3.8           |        | 3.2                           |            |                                    |
|                    | 1.0          |   |            |             |               |        | 64.1                          | 756        |                                    |
|                    | -2.0         | As above, medium plasticity.  | C2         | NA          | 4.0           |        | 323                           | 898        |                                    |
|                    | 2.0          |   |            |             |               |        | 326                           |            |                                    |
|                    | -4.0         | As above, slight petroleum odor.  |            |             |               |        | 84.6                          |            |                                    |
|                    | 4.0          |   |            |             |               |        | 155                           |            |                                    |
|                    | -5.0         | As above, no odor.  | C3         | NA          | 2.0           |        | 13.2                          |            |                                    |
|                    | 5.0          |   |            |             |               |        | 17.2                          |            |                                    |
|                    | -8.0         | End of boring at 12.0 fbgs. In an attempt to find depth of equipment refusal an expendable drillers tip was pushed to a depth of 28.0 fbgs. Equipment refusal depth was not encountered.  | C4         | NA          | 2.0           |        | 198                           |            |                                    |
|                    | 8.0          |   |            |             |               |        | 1.0                           |            |                                    |
|                    | -10.0        | End of Borehole   |            |             |               |        | 0.7                           |            |                                    |
|                    | 10.0         |   |            |             |               |        | 1.3                           |            |                                    |
|                    | -12.0        |   |            |             |               |        | 0.0                           |            |                                    |
|                    | 12.0         |   |            |             |               |        |                               |            |                                    |

**Drilled By:** Natures Way  
**Drill Rig Type:** Earth Probe 200  
**Drill Method:** Direct Push  
**Comments:**  
**Drill Date(s):** 10/18/17

**Hole Size:** 3.0-inch  
**Stick-up:** NA  
**Datum:** NA  
**Sheet:** 1 of 1

**Project No:** 0437-017-001-002

**Borehole Number:** SB-7

**Project:** Phase II investigation

**A.K.A.:**

**Client:** 1585 Hertel LLC

**Logged By:** TAB

**Site Location:** 1585 Hertel Ave. Buffalo NY

**Checked By:** CZB



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 Buffalo, NY 14218  
 (716) 856-0599

| SUBSURFACE PROFILE |              |   | SAMPLE     |             |               |        | PID VOCs<br>ppm<br>0 500 1000 | Lab Sample | Well Completion Details or Remarks |
|--------------------|--------------|---|------------|-------------|---------------|--------|-------------------------------|------------|------------------------------------|
| Depth (fbgs)       | Elev. /Depth | Description (ASTM D2488: Visual-Manual Procedure)   | Sample No. | SPT N-Value | Recovery (ft) | Symbol |                               |            |                                    |
| 0.0                | 0.0          | Ground Surface  |            |             |               |        |                               |            |                                    |
|                    | 0.0          | <b>Asphalt</b>  |            |             |               |        |                               |            |                                    |
|                    | -0.5         | Asphalt   |            |             |               |        |                               |            |                                    |
|                    | 0.5          | <b>Poorly Graded Gravel with Sand (sub-base)</b><br>Dark Grey/grey, moist, mostly fine gravel (angular limestone), some fine to coarse sand, loose, medium dense.   |            |             |               |        | 10.1                          |            |                                    |
|                    | -1.0         |   |            |             |               |        | 99.1                          |            |                                    |
|                    | -2.0         | <b>Sandy Lean Clay</b><br>Dark grey, stained, moist, mostly low plasticity fines, little fine sand, trace fine gravel (sub-rounded), medium toughness, medium dry strength, very stiff, petroleum odor.<br>As above, reddish brown. | C1         | NA          | 3.8           |        | 677                           |            |                                    |
|                    | 2.0          |   |            |             |               |        | 791                           |            |                                    |
|                    | -4.0         | As above, medium plasticity, slight petroleum odor.   |            |             |               |        | 437                           |            |                                    |
|                    | 4.0          |   |            |             |               |        | 134                           |            |                                    |
| 5.0                |              | As above.   | C2         | NA          | 4.0           |        | 14.0                          |            |                                    |
|                    |              |   |            |             |               |        | 9.1                           |            |                                    |
|                    |              | As above.   |            |             |               |        | 18.0                          |            |                                    |
|                    |              |   |            |             |               |        | 8.4                           |            |                                    |
|                    | -8.0         | As above, no odor below 12.0 fbgs.  | C3         | NA          | 2.0           |        | 1.0                           |            |                                    |
|                    | 8.0          |   |            |             |               |        | 3.7                           |            |                                    |
|                    |              | As above, no odor below 12.0 fbgs.  |            |             |               |        | 0.5                           |            |                                    |
|                    |              |   |            |             |               |        | 17.0                          |            |                                    |
| 10.0               | -10.0        | End of boring at 14.0 fbgs.   | C4         | NA          | 2.0           |        | 10.0                          |            |                                    |
|                    | 10.0         |   |            |             |               |        | 16.0                          |            |                                    |
|                    |              | End of boring at 14.0 fbgs.   |            |             |               |        | 7.8                           |            |                                    |
|                    |              |   |            |             |               |        | 6.7                           |            |                                    |
|                    |              | End of boring at 14.0 fbgs.   | C5         | NA          | 2.0           |        | 8.6                           |            |                                    |
|                    |              |   |            |             |               |        | 9.4                           |            |                                    |
|                    |              | End of Borehole   |            |             |               |        | 3.3                           |            |                                    |
|                    |              |   |            |             |               |        | 3.3                           |            |                                    |
|                    | -14.0        | End of Borehole   |            |             |               |        |                               |            |                                    |
|                    | 14.0         |   |            |             |               |        |                               |            |                                    |

**Drilled By:** Natures Way  
**Drill Rig Type:** Earth Probe 200  
**Drill Method:** Direct Push  
**Comments:**  
**Drill Date(s):** 10/18/17

**Hole Size:** 3.0-inch  
**Stick-up:** NA  
**Datum:** NA  
**Sheet:** 1 of 1

Project No: 0437-017-001-200

Borehole Number: SB-8



Project: Phase II investigation

A.K.A.:

Client: 1585 Hertel LLC

Logged By: TAB

Site Location: 1585 Hertel Ave. Buffalo NY

Checked By: CZB

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

| SUBSURFACE PROFILE |              |  | SAMPLE     |             |               |        | PID VOCs<br>ppm<br>0 12.5 25 | Lab Sample      | Well Completion Details or Remarks |
|--------------------|--------------|--|------------|-------------|---------------|--------|------------------------------|-----------------|------------------------------------|
| Depth (fbgs)       | Elev. /Depth | Description (ASTM D2488: Visual-Manual Procedure)  | Sample No. | SPT N-Value | Recovery (ft) | Symbol |                              |                 |                                    |
| 0.0                | 0.0          | Ground Surface   |            |             |               |        |                              |                 |                                    |
|                    | 0.0          | <b>Asphalt</b><br>Asphalt  |            |             |               |        |                              |                 |                                    |
|                    | -0.5         | <b>Poorly Graded Gravel with Sand (sub-base).</b><br>Dark Grey/grey, moist, mostly fine gravel (angular limestone), some fine to coarse sand, loose, medium dense.                 |            |             |               |        |                              |                 |                                    |
|                    | 0.5          |  |            |             |               |        |                              |                 |                                    |
|                    | -1.5         | <b>Lean Clay with Sand</b><br>Grey, moist, mostly medium plasticity fines, few fine sand, medium toughness medium, dry strength, stiff.  | C1         | NA          | 3.1           |        |                              |                 |                                    |
|                    | 1.5          |  |            |             |               |        |                              |                 |                                    |
|                    | -3.0         | <b>Sandy Lean Clay</b><br>Reddish brown, moist, mostly low plasticity fines, little fine sand, trace fine gravel (sub-rounded), medium toughness, medium dry strength, very stiff. |            |             |               |        |                              |                 |                                    |
|                    | 3.0          |  |            |             |               |        |                              | Sample Location |                                    |
|                    | -4.0         | As above, medium plasticity.   | C2         | NA          | 4.0           |        |                              |                 |                                    |
|                    | 4.0          |  |            |             |               |        |                              |                 |                                    |
|                    | -8.0         | As above.  | C3         | NA          | 3.6           |        |                              |                 |                                    |
|                    | 8.0          |  |            |             |               |        |                              |                 |                                    |
|                    | -12.0        | As above.  | C4         | NA          | 2.0           |        |                              |                 |                                    |
|                    | 12.0         |  |            |             |               |        |                              |                 |                                    |
|                    | -14.0        | End of boring at 14.0 fbgs.  |            |             |               |        |                              |                 |                                    |
|                    | 14.0         | End of Borehole  |            |             |               |        |                              |                 |                                    |

Drilled By: Natures Way  
 Drill Rig Type: Earth Probe 200  
 Drill Method: Direct Push  
 Comments:  
 Drill Date(s): 10/18/17

Hole Size: 3.0-inch  
 Stick-up: NA  
 Datum: NA  
 Sheet: 1 of 1

# APPENDIX B

## LABORATORY ANALYTICAL REPORT

# 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: 480-126164-1

Client Project/Site: Benchmark - 1585 Hertel Ave site

Revision: 1

For:

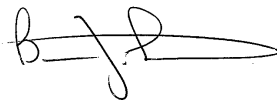
Turnkey Environmental Restoration, LLC

2558 Hamburg Turnpike

Suite 300

Lackawanna, New York 14218

Attn: Mr. Christopher Z Boron



Authorized for release by:

11/13/2017 2:39:40 PM

Brian Fischer, Manager of Project Management

(716)504-9835

[brian.fischer@testamericainc.com](mailto:brian.fischer@testamericainc.com)

### LINKS

Review your project  
results through

Total Access

Have a Question?



Visit us at:

[www.testamericainc.com](http://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 - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

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

### GC/MS VOA TICs

| Qualifier | Qualifier Description  |
|-----------|--|
| J         | Indicates an Estimated Value for TICs  |
| N         | Presumptive evidence of material.  |
| T         | Result is a tentatively identified compound (TIC) and an estimated value.                                      |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description  |
|-----------|--|
| 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  |

### GC Semi VOA

| Qualifier | Qualifier Description               |
|-----------|-------------------------------------|
| X         | Surrogate is outside control limits |

## Metals

| Qualifier | Qualifier Description                                |
|-----------|--|
| F1        | MS and/or MSD Recovery is outside acceptance limits. |

## Glossary

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

# Case Narrative

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

**Job ID: 480-126164-1**

**Laboratory: TestAmerica Buffalo**

## Narrative

### Job Narrative 480-126164-1

#### Comments

This report has been revised to add tentatively identified compounds (TICs) to the method 8260 analysis .

#### Receipt

The samples were received on 10/19/2017 12:28 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

#### GC/MS VOA

Method(s) 8260C: The following sample was analyzed using medium level soil analysis and diluted due to the nature of the sample matrix: SB-6 (2-4) (480-126164-5). Elevated reporting limits (RLs) are reported.

Method(s) 8260C: The following samples was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: SB-7 (1.5-2.5) (480-126164-6). Elevated reporting limits (RLs) are provided.

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

#### GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-383167 recovered above the upper control limit for Benzo[b]fluoranthene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SB-2 (0.5-2.0) (480-126164-2), SB-3 (2-4) (480-126164-4), SB-6 (2-4) (480-126164-5), SB-8 (0.5-3.5) (480-126164-7) and SS-1 (480-126164-8).

Method(s) 8270D: The following samples was diluted due to color and, viscosity: SB-2 (0.5-2.0) (480-126164-2), SB-6 (2-4) (480-126164-5), SB-8 (0.5-3.5) (480-126164-7) and SS-1 (480-126164-8). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: SS-1 (480-126164-8). 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.

Method(s) 8270D: Three surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SB-2 (0.5-2.0) (480-126164-2). These results have been reported and qualified.

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

#### GC Semi VOA

Method(s) 8082A: Surrogate recovery for the following samples was outside control limits: SS-1 (480-126164-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### Metals

Method(s) 6010C: The following samples were diluted due to the presence of Total Iron which interferes with Cadmium, Chromium, and Lead: SB-8 (0.5-3.5) (480-126164-7) and SS-1 (480-126164-8). Elevated reporting limits (RLs) are provided.

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

#### Organic Prep

Method(s) 3550C: Due to the matrix, the following sample could not be concentrated to the final method required volume: SS-1 (480-126164-8). 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.

# Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

## Client Sample ID: SB-1 (6-8)

## Lab Sample ID: 480-126164-1

| Analyte                 | Result | Qualifier | RL  | MDL  | Unit  | Dil Fac | D | Method | Prep Type |
|-------------------------|--------|-----------|-----|------|-------|---------|---|--------|-----------|
| Ethylbenzene            | 3.2    | J         | 5.6 | 0.39 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| Isopropylbenzene        | 38     |           | 5.6 | 0.85 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| Methyl tert-butyl ether | 1.4    | J         | 5.6 | 0.55 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| m-Xylene & p-Xylene     | 1.6    | J         | 11  | 0.95 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| n-Butylbenzene          | 65     |           | 5.6 | 0.49 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| N-Propylbenzene         | 150    |           | 5.6 | 0.45 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| sec-Butylbenzene        | 25     |           | 5.6 | 0.49 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| tert-Butylbenzene       | 0.80   | J         | 5.6 | 0.59 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| Xylenes, Total          | 1.6    | J         | 11  | 0.95 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |

## Client Sample ID: SB-2 (0.5-2.0)

## Lab Sample ID: 480-126164-2

| Analyte              | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Benzo[g,h,i]perylene | 210    | J         | 1900 | 200 | ug/Kg | 10      | ☼ | 8270D  | Total/NA  |
| Arsenic              | 11.2   |           | 2.2  |     | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |
| Barium               | 488    |           | 0.55 |     | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |
| Cadmium              | 0.29   |           | 0.22 |     | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |
| Chromium             | 6.2    |           | 0.55 |     | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |
| Lead                 | 223    |           | 1.1  |     | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |

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

## Lab Sample ID: 480-126164-3

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Arsenic  | 7.3    |           | 2.2  |     | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |
| Barium   | 108    | F1        | 0.56 |     | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |
| Chromium | 5.6    |           | 0.56 |     | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |
| Lead     | 7.2    |           | 1.1  |     | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |

## Client Sample ID: SB-3 (2-4)

## Lab Sample ID: 480-126164-4

| Analyte                | Result | Qualifier | RL   | MDL  | Unit  | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|------|-------|---------|---|--------|-----------|
| 1,2,4-Trimethylbenzene | 1.4    | J         | 5.8  | 1.1  | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| 1,3,5-Trimethylbenzene | 0.40   | J         | 5.8  | 0.37 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| Ethylbenzene           | 1.0    | J         | 5.8  | 0.40 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| Isopropylbenzene       | 0.88   | J         | 5.8  | 0.87 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| m-Xylene & p-Xylene    | 2.7    | J         | 12   | 0.97 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| n-Butylbenzene         | 5.9    |           | 5.8  | 0.50 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| N-Propylbenzene        | 0.95   | J         | 5.8  | 0.46 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| o-Xylene               | 0.81   | J         | 5.8  | 0.76 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| sec-Butylbenzene       | 6.6    |           | 5.8  | 0.50 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| tert-Butylbenzene      | 0.77   | J         | 5.8  | 0.60 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| Toluene                | 0.46   | J         | 5.8  | 0.44 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| Xylenes, Total         | 3.5    | J         | 12   | 0.97 | ug/Kg | 1       | ☼ | 8260C  | Total/NA  |
| Chrysene               | 61     | J         | 200  | 44   | ug/Kg | 1       | ☼ | 8270D  | Total/NA  |
| Arsenic                | 4.3    |           | 2.4  |      | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |
| Barium                 | 135    |           | 0.59 |      | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |
| Chromium               | 28.9   |           | 0.59 |      | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |
| Lead                   | 15.8   |           | 1.2  |      | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |

## Client Sample ID: SB-6 (2-4)

## Lab Sample ID: 480-126164-5

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

### Client Sample ID: SB-6 (2-4) (Continued)

### Lab Sample ID: 480-126164-5

| Analyte                | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| 1,2,4-Trimethylbenzene | 12000  |           | 610  | 170 | ug/Kg | 5       | ☼ | 8260C  | Total/NA  |
| 1,3,5-Trimethylbenzene | 2400   |           | 610  | 180 | ug/Kg | 5       | ☼ | 8260C  | Total/NA  |
| 4-Isopropyltoluene     | 220    | J         | 610  | 210 | ug/Kg | 5       | ☼ | 8260C  | Total/NA  |
| Ethylbenzene           | 400    | J         | 610  | 180 | ug/Kg | 5       | ☼ | 8260C  | Total/NA  |
| Isopropylbenzene       | 240    | J         | 610  | 91  | ug/Kg | 5       | ☼ | 8260C  | Total/NA  |
| m-Xylene & p-Xylene    | 900    | J         | 1200 | 340 | ug/Kg | 5       | ☼ | 8260C  | Total/NA  |
| n-Butylbenzene         | 1900   |           | 610  | 180 | ug/Kg | 5       | ☼ | 8260C  | Total/NA  |
| N-Propylbenzene        | 1000   |           | 610  | 160 | ug/Kg | 5       | ☼ | 8260C  | Total/NA  |
| o-Xylene               | 220    | J         | 610  | 79  | ug/Kg | 5       | ☼ | 8260C  | Total/NA  |
| sec-Butylbenzene       | 290    | J         | 610  | 220 | ug/Kg | 5       | ☼ | 8260C  | Total/NA  |
| Xylenes, Total         | 1100   | J         | 1200 | 340 | ug/Kg | 5       | ☼ | 8260C  | Total/NA  |
| Naphthalene            | 870    | J         | 970  | 130 | ug/Kg | 5       | ☼ | 8270D  | Total/NA  |

### Client Sample ID: SB-7 (1.5-3.5)

### Lab Sample ID: 480-126164-6

| Analyte                     | Result | Qualifier | RL   | MDL  | Unit  | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|------|------|-------|---------|---|--------|-----------|
| 1,3,5-Trimethylbenzene      | 50000  | F1        | 1200 | 370  | ug/Kg | 10      | ☼ | 8260C  | Total/NA  |
| 4-Isopropyltoluene          | 2200   | F1        | 1200 | 410  | ug/Kg | 10      | ☼ | 8260C  | Total/NA  |
| Benzene                     | 3000   | F1        | 1200 | 230  | ug/Kg | 10      | ☼ | 8260C  | Total/NA  |
| Ethylbenzene                | 41000  | F1        | 1200 | 350  | ug/Kg | 10      | ☼ | 8260C  | Total/NA  |
| Isopropylbenzene            | 5400   | F1        | 1200 | 180  | ug/Kg | 10      | ☼ | 8260C  | Total/NA  |
| n-Butylbenzene              | 18000  | F1        | 1200 | 350  | ug/Kg | 10      | ☼ | 8260C  | Total/NA  |
| N-Propylbenzene             | 18000  | F1        | 1200 | 320  | ug/Kg | 10      | ☼ | 8260C  | Total/NA  |
| Toluene                     | 11000  | F1        | 1200 | 330  | ug/Kg | 10      | ☼ | 8260C  | Total/NA  |
| 1,2,4-Trimethylbenzene - DL | 190000 |           | 4900 | 1400 | ug/Kg | 40      | ☼ | 8260C  | Total/NA  |
| m-Xylene & p-Xylene - DL    | 240000 |           | 9700 | 2700 | ug/Kg | 40      | ☼ | 8260C  | Total/NA  |
| o-Xylene - DL               | 79000  |           | 4900 | 630  | ug/Kg | 40      | ☼ | 8260C  | Total/NA  |
| Xylenes, Total - DL         | 320000 |           | 9700 | 2700 | ug/Kg | 40      | ☼ | 8260C  | Total/NA  |

### Client Sample ID: SB-8 (0.5-3.5)

### Lab Sample ID: 480-126164-7

| Analyte  | Result | Qualifier | RL    | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|-------|-----|-------|---------|---|--------|-----------|
| Arsenic  | 3.2    |           | 2.8   |     | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |
| Barium   | 157    |           | 0.71  |     | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |
| Chromium | 35.9   |           | 3.6   |     | mg/Kg | 5       | ☼ | 6010C  | Total/NA  |
| Lead     | 45.7   |           | 7.1   |     | mg/Kg | 5       | ☼ | 6010C  | Total/NA  |
| Mercury  | 0.067  |           | 0.028 |     | mg/Kg | 1       | ☼ | 7471B  | Total/NA  |

### Client Sample ID: SS-1

### Lab Sample ID: 480-126164-8

| Analyte  | Result | Qualifier | RL    | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|-------|-----|-------|---------|---|--------|-----------|
| Arsenic  | 164    |           | 2.3   |     | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |
| Barium   | 414    |           | 0.59  |     | mg/Kg | 1       | ☼ | 6010C  | Total/NA  |
| Cadmium  | 3.6    |           | 1.2   |     | mg/Kg | 5       | ☼ | 6010C  | Total/NA  |
| Chromium | 39.7   |           | 2.9   |     | mg/Kg | 5       | ☼ | 6010C  | Total/NA  |
| Lead     | 1030   |           | 5.9   |     | mg/Kg | 5       | ☼ | 6010C  | Total/NA  |
| Mercury  | 0.051  |           | 0.020 |     | 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 - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

**Client Sample ID: SB-1 (6-8)**

**Lab Sample ID: 480-126164-1**

**Date Collected: 10/18/17 09:04**

**Matrix: Solid**

**Date Received: 10/19/17 12:28**

**Percent Solids: 87.3**

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

| Analyte                        | Result      | Qualifier | RL  | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-------------|-----------|-----|------|-------|---|----------------|----------------|---------|
| 1,2,4-Trimethylbenzene         | ND          |           | 5.6 | 1.1  | ug/Kg | ☼ | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| 1,3,5-Trimethylbenzene         | ND          |           | 5.6 | 0.36 | ug/Kg | ☼ | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| 4-Isopropyltoluene             | ND          |           | 5.6 | 0.45 | ug/Kg | ☼ | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| Benzene                        | ND          |           | 5.6 | 0.28 | ug/Kg | ☼ | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| <b>Ethylbenzene</b>            | <b>3.2</b>  | <b>J</b>  | 5.6 | 0.39 | ug/Kg | ☼ | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| <b>Isopropylbenzene</b>        | <b>38</b>   |           | 5.6 | 0.85 | ug/Kg | ☼ | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| <b>Methyl tert-butyl ether</b> | <b>1.4</b>  | <b>J</b>  | 5.6 | 0.55 | ug/Kg | ☼ | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| <b>m-Xylene &amp; p-Xylene</b> | <b>1.6</b>  | <b>J</b>  | 11  | 0.95 | ug/Kg | ☼ | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| <b>n-Butylbenzene</b>          | <b>65</b>   |           | 5.6 | 0.49 | ug/Kg | ☼ | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| <b>N-Propylbenzene</b>         | <b>150</b>  |           | 5.6 | 0.45 | ug/Kg | ☼ | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| o-Xylene                       | ND          |           | 5.6 | 0.73 | ug/Kg | ☼ | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| <b>sec-Butylbenzene</b>        | <b>25</b>   |           | 5.6 | 0.49 | ug/Kg | ☼ | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| <b>tert-Butylbenzene</b>       | <b>0.80</b> | <b>J</b>  | 5.6 | 0.59 | ug/Kg | ☼ | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| Toluene                        | ND          |           | 5.6 | 0.43 | ug/Kg | ☼ | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| <b>Xylenes, Total</b>          | <b>1.6</b>  | <b>J</b>  | 11  | 0.95 | ug/Kg | ☼ | 10/25/17 09:12 | 10/25/17 19:12 | 1       |

| Tentatively Identified Compound  | Est. Result | Qualifier | Unit  | D | RT    | CAS No.   | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|-------------|-----------|-------|---|-------|-----------|----------------|----------------|---------|
| Heptane, 2-methyl-               | 74          | T J N     | ug/Kg | ☼ | 6.09  | 592-27-8  | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| Benzene, 1,2-diethyl-            | 120         | T J N     | ug/Kg | ☼ | 10.55 | 135-01-3  | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| Indane                           | 220         | T J N     | ug/Kg | ☼ | 10.60 | 496-11-7  | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| Benzene, 1-ethyl-2,4-dimethyl-   | 310         | T J N     | ug/Kg | ☼ | 10.96 | 874-41-9  | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| 1-Phenyl-1-butene                | 120         | T J N     | ug/Kg | ☼ | 11.09 | 824-90-8  | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| Benzene, 1,2,4,5-tetramethyl-    | 200         | T J N     | ug/Kg | ☼ | 11.30 | 95-93-2   | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| Benzene, 2-ethenyl-1,4-dimethyl- | 360         | T J N     | ug/Kg | ☼ | 11.72 | 2039-89-6 | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| Unknown                          | 110         | T J       | ug/Kg | ☼ | 11.97 |           | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| Unknown                          | 79          | T J       | ug/Kg | ☼ | 12.08 |           | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| Naphthalene, 2-methyl-           | 120         | T J N     | ug/Kg | ☼ | 13.28 | 91-57-6   | 10/25/17 09:12 | 10/25/17 19:12 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 64 - 126 | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| 4-Bromofluorobenzene (Surr)  | 96        |           | 72 - 126 | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| Dibromofluoromethane (Surr)  | 100       |           | 60 - 140 | 10/25/17 09:12 | 10/25/17 19:12 | 1       |
| Toluene-d8 (Surr)            | 95        |           | 71 - 125 | 10/25/17 09:12 | 10/25/17 19:12 | 1       |

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

**Client Sample ID: SB-2 (0.5-2.0)**

**Lab Sample ID: 480-126164-2**

**Date Collected: 10/18/17 09:33**

**Matrix: Solid**

**Date Received: 10/19/17 12:28**

**Percent Solids: 89.4**

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

| Analyte                     | Result     | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene                | ND         |           | 1900     | 270 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Acenaphthylene              | ND         |           | 1900     | 240 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Anthracene                  | ND         |           | 1900     | 460 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Benzo[a]anthracene          | ND         |           | 1900     | 190 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Benzo[a]pyrene              | ND         |           | 1900     | 270 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Benzo[b]fluoranthene        | ND         |           | 1900     | 300 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| <b>Benzo[g,h,i]perylene</b> | <b>210</b> | <b>J</b>  | 1900     | 200 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Benzo[k]fluoranthene        | ND         |           | 1900     | 240 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Chrysene                    | ND         |           | 1900     | 420 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Dibenz(a,h)anthracene       | ND         |           | 1900     | 330 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Fluoranthene                | ND         |           | 1900     | 200 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Fluorene                    | ND         |           | 1900     | 220 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Indeno[1,2,3-cd]pyrene      | ND         |           | 1900     | 230 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Naphthalene                 | ND         |           | 1900     | 240 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Phenanthrene                | ND         |           | 1900     | 270 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Pyrene                      | ND         |           | 1900     | 220 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Surrogate                   | %Recovery  | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 2-Fluorobiphenyl            | 87         |           | 60 - 120 |     |       |   | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| Nitrobenzene-d5 (Surr)      | 86         |           | 53 - 120 |     |       |   | 10/20/17 14:03 | 10/22/17 19:28 | 10      |
| p-Terphenyl-d14 (Surr)      | 58         | X         | 65 - 121 |     |       |   | 10/20/17 14:03 | 10/22/17 19:28 | 10      |

## Method: 6010C - Metals (ICP)

| Analyte         | Result      | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|-------------|-----------|------|-----|-------|---|----------------|----------------|---------|
| <b>Arsenic</b>  | <b>11.2</b> |           | 2.2  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:16 | 1       |
| <b>Barium</b>   | <b>488</b>  |           | 0.55 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:16 | 1       |
| <b>Cadmium</b>  | <b>0.29</b> |           | 0.22 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:16 | 1       |
| <b>Chromium</b> | <b>6.2</b>  |           | 0.55 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:16 | 1       |
| <b>Lead</b>     | <b>223</b>  |           | 1.1  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:16 | 1       |
| Selenium        | ND          |           | 4.4  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:16 | 1       |
| Silver          | ND          |           | 0.66 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:16 | 1       |

## Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.022 |     | mg/Kg | ☼ | 10/25/17 13:55 | 10/25/17 17:16 | 1       |

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

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

**Lab Sample ID: 480-126164-3**

Date Collected: 10/18/17 09:47

Matrix: Solid

Date Received: 10/19/17 12:28

Percent Solids: 90.4

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 0.25 | 0.048 | mg/Kg | ☼ | 10/20/17 08:34 | 10/23/17 17:29 | 1       |
| PCB-1221 | ND     |           | 0.25 | 0.048 | mg/Kg | ☼ | 10/20/17 08:34 | 10/23/17 17:29 | 1       |
| PCB-1232 | ND     |           | 0.25 | 0.048 | mg/Kg | ☼ | 10/20/17 08:34 | 10/23/17 17:29 | 1       |
| PCB-1242 | ND     |           | 0.25 | 0.048 | mg/Kg | ☼ | 10/20/17 08:34 | 10/23/17 17:29 | 1       |
| PCB-1248 | ND     |           | 0.25 | 0.048 | mg/Kg | ☼ | 10/20/17 08:34 | 10/23/17 17:29 | 1       |
| PCB-1254 | ND     |           | 0.25 | 0.12  | mg/Kg | ☼ | 10/20/17 08:34 | 10/23/17 17:29 | 1       |
| PCB-1260 | ND     |           | 0.25 | 0.12  | mg/Kg | ☼ | 10/20/17 08:34 | 10/23/17 17:29 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 110       |           | 60 - 154 | 10/20/17 08:34 | 10/23/17 17:29 | 1       |
| DCB Decachlorobiphenyl | 123       |           | 65 - 174 | 10/20/17 08:34 | 10/23/17 17:29 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Arsenic  | 7.3    |           | 2.2  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:19 | 1       |
| Barium   | 108    | F1        | 0.56 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:19 | 1       |
| Cadmium  | ND     |           | 0.22 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:19 | 1       |
| Chromium | 5.6    |           | 0.56 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:19 | 1       |
| Lead     | 7.2    |           | 1.1  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:19 | 1       |
| Selenium | ND     |           | 4.5  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:19 | 1       |
| Silver   | ND     |           | 0.67 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:19 | 1       |

## Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.022 |     | mg/Kg | ☼ | 10/25/17 13:55 | 10/25/17 17:19 | 1       |



# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

**Client Sample ID: SB-3 (2-4)**

**Lab Sample ID: 480-126164-4**

Date Collected: 10/18/17 10:23

Matrix: Solid

Date Received: 10/19/17 12:28

Percent Solids: 85.7

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

| Analyte                 | Result | Qualifier | RL  | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| 1,2,4-Trimethylbenzene  | 1.4    | J         | 5.8 | 1.1  | ug/Kg | ☼ | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| 1,3,5-Trimethylbenzene  | 0.40   | J         | 5.8 | 0.37 | ug/Kg | ☼ | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| 4-Isopropyltoluene      | ND     |           | 5.8 | 0.47 | ug/Kg | ☼ | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Benzene                 | ND     |           | 5.8 | 0.28 | ug/Kg | ☼ | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Ethylbenzene            | 1.0    | J         | 5.8 | 0.40 | ug/Kg | ☼ | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Isopropylbenzene        | 0.88   | J         | 5.8 | 0.87 | ug/Kg | ☼ | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Methyl tert-butyl ether | ND     |           | 5.8 | 0.57 | ug/Kg | ☼ | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| m-Xylene & p-Xylene     | 2.7    | J         | 12  | 0.97 | ug/Kg | ☼ | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| n-Butylbenzene          | 5.9    |           | 5.8 | 0.50 | ug/Kg | ☼ | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| N-Propylbenzene         | 0.95   | J         | 5.8 | 0.46 | ug/Kg | ☼ | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| o-Xylene                | 0.81   | J         | 5.8 | 0.76 | ug/Kg | ☼ | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| sec-Butylbenzene        | 6.6    |           | 5.8 | 0.50 | ug/Kg | ☼ | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| tert-Butylbenzene       | 0.77   | J         | 5.8 | 0.60 | ug/Kg | ☼ | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Toluene                 | 0.46   | J         | 5.8 | 0.44 | ug/Kg | ☼ | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Xylenes, Total          | 3.5    | J         | 12  | 0.97 | ug/Kg | ☼ | 10/26/17 14:02 | 10/26/17 15:50 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit  | D | RT    | CAS No.      | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|-------|---|-------|--------------|----------------|----------------|---------|
| Unknown                         | 29          | T J       | ug/Kg | ☼ | 9.82  |              | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Indan, 1-methyl-                | 36          | T J N     | ug/Kg | ☼ | 11.09 | 767-58-8     | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| trans-Decalin, 2-methyl-        | 25          | T J N     | ug/Kg | ☼ | 11.19 | 1000152-47-3 | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Benzene, 1,2,4,5-tetramethyl-   | 55          | T J N     | ug/Kg | ☼ | 11.31 | 95-93-2      | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Undecane, 2,6-dimethyl-         | 67          | T J N     | ug/Kg | ☼ | 11.69 | 17301-23-4   | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Unknown                         | 26          | T J       | ug/Kg | ☼ | 11.77 |              | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Unknown                         | 34          | T J       | ug/Kg | ☼ | 11.97 |              | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Unknown                         | 29          | T J       | ug/Kg | ☼ | 12.08 |              | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Unknown                         | 46          | T J       | ug/Kg | ☼ | 12.15 |              | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Unknown                         | 33          | T J       | ug/Kg | ☼ | 13.03 |              | 10/26/17 14:02 | 10/26/17 15:50 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 91        |           | 64 - 126 | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| 4-Bromofluorobenzene (Surr)  | 95        |           | 72 - 126 | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Dibromofluoromethane (Surr)  | 95        |           | 60 - 140 | 10/26/17 14:02 | 10/26/17 15:50 | 1       |
| Toluene-d8 (Surr)            | 96        |           | 71 - 125 | 10/26/17 14:02 | 10/26/17 15:50 | 1       |

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

| Analyte                | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Acenaphthene           | ND     |           | 200 | 29  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Acenaphthylene         | ND     |           | 200 | 25  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Anthracene             | ND     |           | 200 | 48  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Benzo[a]anthracene     | ND     |           | 200 | 20  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Benzo[a]pyrene         | ND     |           | 200 | 29  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 200 | 31  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 200 | 21  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 200 | 25  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Chrysene               | 61     | J         | 200 | 44  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 200 | 34  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Fluoranthene           | ND     |           | 200 | 21  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Fluorene               | ND     |           | 200 | 23  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 200 | 24  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

**Client Sample ID: SB-3 (2-4)**

**Lab Sample ID: 480-126164-4**

**Date Collected: 10/18/17 10:23**

**Matrix: Solid**

**Date Received: 10/19/17 12:28**

**Percent Solids: 85.7**

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

| Analyte                | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Naphthalene            | ND        |           | 200      | 25  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Phenanthrene           | ND        |           | 200      | 29  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Pyrene                 | ND        |           | 200      | 23  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 2-Fluorobiphenyl       | 78        |           | 60 - 120 |     |       |   | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| Nitrobenzene-d5 (Surr) | 71        |           | 53 - 120 |     |       |   | 10/20/17 14:03 | 10/22/17 19:54 | 1       |
| p-Terphenyl-d14 (Surr) | 89        |           | 65 - 121 |     |       |   | 10/20/17 14:03 | 10/22/17 19:54 | 1       |

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

| Analyte         | Result      | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|-------------|-----------|------|-----|-------|---|----------------|----------------|---------|
| <b>Arsenic</b>  | <b>4.3</b>  |           | 2.4  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:38 | 1       |
| <b>Barium</b>   | <b>135</b>  |           | 0.59 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:38 | 1       |
| Cadmium         | ND          |           | 0.24 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:38 | 1       |
| <b>Chromium</b> | <b>28.9</b> |           | 0.59 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:38 | 1       |
| <b>Lead</b>     | <b>15.8</b> |           | 1.2  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:38 | 1       |
| Selenium        | ND          |           | 4.7  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:38 | 1       |
| Silver          | ND          |           | 0.71 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:38 | 1       |

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

| Analyte | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.023 |     | mg/Kg | ☼ | 10/25/17 13:55 | 10/25/17 17:21 | 1       |

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

**Client Sample ID: SB-6 (2-4)**

**Lab Sample ID: 480-126164-5**

Date Collected: 10/18/17 12:54

Matrix: Solid

Date Received: 10/19/17 12:28

Percent Solids: 86.2

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

| Analyte                 | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trimethylbenzene  | 12000  |           | 610  | 170 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| 1,3,5-Trimethylbenzene  | 2400   |           | 610  | 180 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| 4-Isopropyltoluene      | 220    | J         | 610  | 210 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| Benzene                 | ND     |           | 610  | 120 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| Ethylbenzene            | 400    | J         | 610  | 180 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| Isopropylbenzene        | 240    | J         | 610  | 91  | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| Methyl tert-butyl ether | ND     |           | 610  | 230 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| m-Xylene & p-Xylene     | 900    | J         | 1200 | 340 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| n-Butylbenzene          | 1900   |           | 610  | 180 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| N-Propylbenzene         | 1000   |           | 610  | 160 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| o-Xylene                | 220    | J         | 610  | 79  | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| sec-Butylbenzene        | 290    | J         | 610  | 220 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| Toluene                 | ND     |           | 610  | 160 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| Xylenes, Total          | 1100   | J         | 1200 | 340 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| tert-Butylbenzene       | ND     |           | 610  | 170 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 03:52 | 5       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit  | D | RT | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|-------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/Kg | ☼ |    |         | 10/25/17 11:14 | 10/31/17 03:52 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 53 - 146 | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| 4-Bromofluorobenzene (Surr)  | 102       |           | 49 - 148 | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| Toluene-d8 (Surr)            | 97        |           | 50 - 149 | 10/25/17 11:14 | 10/31/17 03:52 | 5       |
| Dibromofluoromethane (Surr)  | 90        |           | 60 - 140 | 10/25/17 11:14 | 10/31/17 03:52 | 5       |

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

| Analyte                | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Acenaphthene           | ND     |           | 970 | 140 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Acenaphthylene         | ND     |           | 970 | 130 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Anthracene             | ND     |           | 970 | 240 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Benzo[a]anthracene     | ND     |           | 970 | 97  | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Benzo[a]pyrene         | ND     |           | 970 | 140 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Benzo[b]fluoranthene   | ND     |           | 970 | 150 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Benzo[g,h,i]perylene   | ND     |           | 970 | 100 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Benzo[k]fluoranthene   | ND     |           | 970 | 130 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Chrysene               | ND     |           | 970 | 220 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Dibenz(a,h)anthracene  | ND     |           | 970 | 170 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Fluoranthene           | ND     |           | 970 | 100 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Fluorene               | ND     |           | 970 | 110 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 970 | 120 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Naphthalene            | 870    | J         | 970 | 130 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Phenanthrene           | ND     |           | 970 | 140 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Pyrene                 | ND     |           | 970 | 110 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:20 | 5       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl       | 84        |           | 60 - 120 | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| Nitrobenzene-d5 (Surr) | 74        |           | 53 - 120 | 10/20/17 14:03 | 10/22/17 20:20 | 5       |
| p-Terphenyl-d14 (Surr) | 80        |           | 65 - 121 | 10/20/17 14:03 | 10/22/17 20:20 | 5       |

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

**Client Sample ID: SB-7 (1.5-3.5)**

**Lab Sample ID: 480-126164-6**

**Date Collected: 10/18/17 14:10**

**Matrix: Solid**

**Date Received: 10/19/17 12:28**

**Percent Solids: 85.5**

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

| Analyte                 | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| 1,3,5-Trimethylbenzene  | 50000  | F1        | 1200 | 370 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 04:19 | 10      |
| 4-Isopropyltoluene      | 2200   | F1        | 1200 | 410 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 04:19 | 10      |
| Benzene                 | 3000   | F1        | 1200 | 230 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 04:19 | 10      |
| Ethylbenzene            | 41000  | F1        | 1200 | 350 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 04:19 | 10      |
| Isopropylbenzene        | 5400   | F1        | 1200 | 180 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 04:19 | 10      |
| Methyl tert-butyl ether | ND     | F1        | 1200 | 460 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 04:19 | 10      |
| n-Butylbenzene          | 18000  | F1        | 1200 | 350 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 04:19 | 10      |
| N-Propylbenzene         | 18000  | F1        | 1200 | 320 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 04:19 | 10      |
| sec-Butylbenzene        | ND     | F1        | 1200 | 450 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 04:19 | 10      |
| Toluene                 | 11000  | F1        | 1200 | 330 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 04:19 | 10      |
| tert-Butylbenzene       | ND     | F1 F2     | 1200 | 340 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 04:19 | 10      |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit  | D | RT | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|-------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/Kg | ☼ |    |         | 10/25/17 11:14 | 10/31/17 04:19 | 10      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 53 - 146 | 10/25/17 11:14 | 10/31/17 04:19 | 10      |
| 4-Bromofluorobenzene (Surr)  | 103       |           | 49 - 148 | 10/25/17 11:14 | 10/31/17 04:19 | 10      |
| Toluene-d8 (Surr)            | 99        |           | 50 - 149 | 10/25/17 11:14 | 10/31/17 04:19 | 10      |
| Dibromofluoromethane (Surr)  | 96        |           | 60 - 140 | 10/25/17 11:14 | 10/31/17 04:19 | 10      |

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

| Analyte                | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| 1,2,4-Trimethylbenzene | 190000 |           | 4900 | 1400 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 11:41 | 40      |
| m-Xylene & p-Xylene    | 240000 |           | 9700 | 2700 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 11:41 | 40      |
| o-Xylene               | 79000  |           | 4900 | 630  | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 11:41 | 40      |
| Xylenes, Total         | 320000 |           | 9700 | 2700 | ug/Kg | ☼ | 10/25/17 11:14 | 10/31/17 11:41 | 40      |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit  | D | RT | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|-------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/Kg | ☼ |    |         | 10/25/17 11:14 | 10/31/17 11:41 | 40      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 53 - 146 | 10/25/17 11:14 | 10/31/17 11:41 | 40      |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 49 - 148 | 10/25/17 11:14 | 10/31/17 11:41 | 40      |
| Toluene-d8 (Surr)            | 97        |           | 50 - 149 | 10/25/17 11:14 | 10/31/17 11:41 | 40      |
| Dibromofluoromethane (Surr)  | 94        |           | 60 - 140 | 10/25/17 11:14 | 10/31/17 11:41 | 40      |

TestAmerica Buffalo

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

**Client Sample ID: SB-8 (0.5-3.5)**

**Lab Sample ID: 480-126164-7**

**Date Collected: 10/18/17 15:23**

**Matrix: Solid**

**Date Received: 10/19/17 12:28**

**Percent Solids: 69.5**

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

| Analyte                | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene           | ND        |           | 1200     | 180 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Acenaphthylene         | ND        |           | 1200     | 160 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Anthracene             | ND        |           | 1200     | 300 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Benzo[a]anthracene     | ND        |           | 1200     | 120 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Benzo[a]pyrene         | ND        |           | 1200     | 180 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Benzo[b]fluoranthene   | ND        |           | 1200     | 190 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Benzo[g,h,i]perylene   | ND        |           | 1200     | 130 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Benzo[k]fluoranthene   | ND        |           | 1200     | 160 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Chrysene               | ND        |           | 1200     | 270 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Dibenz(a,h)anthracene  | ND        |           | 1200     | 210 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Fluoranthene           | ND        |           | 1200     | 130 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Fluorene               | ND        |           | 1200     | 140 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Indeno[1,2,3-cd]pyrene | ND        |           | 1200     | 150 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Naphthalene            | ND        |           | 1200     | 160 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Phenanthrene           | ND        |           | 1200     | 180 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Pyrene                 | ND        |           | 1200     | 140 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Surrogate              | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 2-Fluorobiphenyl       | 88        |           | 60 - 120 |     |       |   | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| Nitrobenzene-d5 (Surr) | 76        |           | 53 - 120 |     |       |   | 10/20/17 14:03 | 10/22/17 20:46 | 5       |
| p-Terphenyl-d14 (Surr) | 80        |           | 65 - 121 |     |       |   | 10/20/17 14:03 | 10/22/17 20:46 | 5       |

## Method: 6010C - Metals (ICP)

| Analyte         | Result      | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|-------------|-----------|------|-----|-------|---|----------------|----------------|---------|
| <b>Arsenic</b>  | <b>3.2</b>  |           | 2.8  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:52 | 1       |
| <b>Barium</b>   | <b>157</b>  |           | 0.71 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:52 | 1       |
| Cadmium         | ND          |           | 1.4  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:56 | 5       |
| <b>Chromium</b> | <b>35.9</b> |           | 3.6  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:56 | 5       |
| <b>Lead</b>     | <b>45.7</b> |           | 7.1  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:56 | 5       |
| Selenium        | ND          |           | 5.7  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:52 | 1       |
| Silver          | ND          |           | 0.85 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:52 | 1       |

## Method: 7471B - Mercury (CVAA)

| Analyte        | Result       | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| <b>Mercury</b> | <b>0.067</b> |           | 0.028 |     | mg/Kg | ☼ | 10/25/17 13:55 | 10/25/17 17:22 | 1       |

# Client Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

**Client Sample ID: SS-1**

**Date Collected: 10/18/17 15:40**

**Date Received: 10/19/17 12:28**

**Lab Sample ID: 480-126164-8**

**Matrix: Solid**

**Percent Solids: 94.8**

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

| Analyte                | Result    | Qualifier | RL       | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|-------|-------|---|----------------|----------------|---------|
| Acenaphthene           | ND        |           | 130000   | 19000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Acenaphthylene         | ND        |           | 130000   | 17000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Anthracene             | ND        |           | 130000   | 33000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Benzo[a]anthracene     | ND        |           | 130000   | 13000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Benzo[a]pyrene         | ND        |           | 130000   | 19000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Benzo[b]fluoranthene   | ND        |           | 130000   | 21000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Benzo[g,h,i]perylene   | ND        |           | 130000   | 14000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Benzo[k]fluoranthene   | ND        |           | 130000   | 17000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Chrysene               | ND        |           | 130000   | 29000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Dibenz(a,h)anthracene  | ND        |           | 130000   | 23000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Fluoranthene           | ND        |           | 130000   | 14000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Fluorene               | ND        |           | 130000   | 15000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Indeno[1,2,3-cd]pyrene | ND        |           | 130000   | 16000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Naphthalene            | ND        |           | 130000   | 17000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Phenanthrene           | ND        |           | 130000   | 19000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Pyrene                 | ND        |           | 130000   | 15000 | ug/Kg | ☼ | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Surrogate              | %Recovery | Qualifier | Limits   |       |       |   | Prepared       | Analyzed       | Dil Fac |
| 2-Fluorobiphenyl       | 0         | X         | 60 - 120 |       |       |   | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| Nitrobenzene-d5 (Surr) | 0         | X         | 53 - 120 |       |       |   | 10/20/17 14:03 | 10/22/17 21:13 | 50      |
| p-Terphenyl-d14 (Surr) | 0         | X         | 65 - 121 |       |       |   | 10/20/17 14:03 | 10/22/17 21:13 | 50      |

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

| Analyte                | Result    | Qualifier | RL       | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|-------|-------|---|----------------|----------------|---------|
| PCB-1016               | ND        |           | 0.25     | 0.049 | mg/Kg | ☼ | 10/20/17 08:34 | 10/23/17 17:44 | 1       |
| PCB-1221               | ND        |           | 0.25     | 0.049 | mg/Kg | ☼ | 10/20/17 08:34 | 10/23/17 17:44 | 1       |
| PCB-1232               | ND        |           | 0.25     | 0.049 | mg/Kg | ☼ | 10/20/17 08:34 | 10/23/17 17:44 | 1       |
| PCB-1242               | ND        |           | 0.25     | 0.049 | mg/Kg | ☼ | 10/20/17 08:34 | 10/23/17 17:44 | 1       |
| PCB-1248               | ND        |           | 0.25     | 0.049 | mg/Kg | ☼ | 10/20/17 08:34 | 10/23/17 17:44 | 1       |
| PCB-1254               | ND        |           | 0.25     | 0.12  | mg/Kg | ☼ | 10/20/17 08:34 | 10/23/17 17:44 | 1       |
| PCB-1260               | ND        |           | 0.25     | 0.12  | mg/Kg | ☼ | 10/20/17 08:34 | 10/23/17 17:44 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |       |       |   | Prepared       | Analyzed       | Dil Fac |
| Tetrachloro-m-xylene   | 58        | X         | 60 - 154 |       |       |   | 10/20/17 08:34 | 10/23/17 17:44 | 1       |
| DCB Decachlorobiphenyl | 67        |           | 65 - 174 |       |       |   | 10/20/17 08:34 | 10/23/17 17:44 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Arsenic  | 164    |           | 2.3  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:59 | 1       |
| Barium   | 414    |           | 0.59 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:59 | 1       |
| Cadmium  | 3.6    |           | 1.2  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 11:03 | 5       |
| Chromium | 39.7   |           | 2.9  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 11:03 | 5       |
| Lead     | 1030   |           | 5.9  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 11:03 | 5       |
| Selenium | ND     |           | 4.7  |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:59 | 1       |
| Silver   | ND     |           | 0.70 |     | mg/Kg | ☼ | 10/23/17 14:51 | 10/25/17 10:59 | 1       |

## Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Mercury | 0.051  |           | 0.020 |     | mg/Kg | ☼ | 10/25/17 13:55 | 10/25/17 17:26 | 1       |

TestAmerica Buffalo

# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

## 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) |                 |                  |                 |
|--------------------|--------------------|--|-----------------|------------------|-----------------|
|                    |                    | 12DCE<br>(64-126)                              | BFB<br>(72-126) | DBFM<br>(60-140) | TOL<br>(71-125) |
| 480-126164-1       | SB-1 (6-8)         | 101  | 96              | 100              | 95              |
| 480-126164-4       | SB-3 (2-4)         | 91   | 95              | 95               | 96              |
| LCS 480-383680/1-A | Lab Control Sample | 116  | 116             | 121              | 111             |
| LCS 480-383999/1-A | Lab Control Sample | 94   | 106             | 101              | 104             |
| MB 480-383680/2-A  | Method Blank       | 115  | 109             | 111              | 103             |
| MB 480-383999/2-A  | Method Blank       | 92   | 105             | 100              | 100             |

### Surrogate Legend

12DCE = 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) |                 |                  |                 |
|--------------------|--------------------|--|-----------------|------------------|-----------------|
|                    |                    | 12DCE<br>(53-146)                              | BFB<br>(49-148) | DBFM<br>(60-140) | TOL<br>(50-149) |
| 480-126164-5       | SB-6 (2-4)         | 95   | 102             | 90               | 97              |
| 480-126164-6       | SB-7 (1.5-3.5)     | 96   | 103             | 96               | 99              |
| 480-126164-6 - DL  | SB-7 (1.5-3.5)     | 95   | 101             | 94               | 97              |
| LCS 480-383716/1-A | Lab Control Sample | 109  | 96              | 92               | 93              |
| LCS 480-384677/5   | Lab Control Sample | 96   | 99              | 93               | 96              |
| LCS 480-384735/5   | Lab Control Sample | 95   | 101             | 95               | 98              |
| MB 480-383716/2-A  | Method Blank       | 112  | 97              | 90               | 95              |
| MB 480-384677/7    | Method Blank       | 100  | 99              | 94               | 97              |

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane (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<br>(60-120)                                | NBZ<br>(53-120) | TPH<br>(65-121) |
| 480-126164-2       | SB-2 (0.5-2.0)     | 87   | 86              | 58 X            |
| 480-126164-4       | SB-3 (2-4)         | 78   | 71              | 89              |
| 480-126164-5       | SB-6 (2-4)         | 84   | 74              | 80              |
| 480-126164-7       | SB-8 (0.5-3.5)     | 88   | 76              | 80              |
| 480-126164-8       | SS-1               | 0 X  | 0 X             | 0 X             |
| LCS 480-382977/2-A | Lab Control Sample | 80   | 82              | 100             |
| MB 480-382977/1-A  | Method Blank       | 81   | 75              | 98              |

### Surrogate Legend

FBP = 2-Fluorobiphenyl

TestAmerica Buffalo



# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

NBZ = Nitrobenzene-d5 (Surr)  
TPH = p-Terphenyl-d14 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID      | Client Sample ID   | TCX1     | DCB1     |
|--------------------|--------------------|----------|----------|
|                    |                    | (60-154) | (65-174) |
| 480-126164-3       | SB-2 (2-4)         | 110      | 123      |
| 480-126164-8       | SS-1               | 58 X     | 67       |
| LCS 480-382878/2-A | Lab Control Sample | 124      | 133      |
| LCS 480-382878/3-A | Lab Control Sample | 146      | 143      |
| MB 480-382878/1-A  | Method Blank       | 105      | 114      |

### Surrogate Legend

TCX = Tetrachloro-m-xylene  
DCB = DCB Decachlorobiphenyl



# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

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

**Lab Sample ID: MB 480-383680/2-A**

**Matrix: Solid**

**Analysis Batch: 383669**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 383680**

| Analyte                 | MB Result | MB Qualifier | RL  | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| 1,2,4-Trimethylbenzene  | ND        |              | 5.0 | 0.96 | ug/Kg |   | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| 1,3,5-Trimethylbenzene  | ND        |              | 5.0 | 0.32 | ug/Kg |   | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| 4-Isopropyltoluene      | ND        |              | 5.0 | 0.40 | ug/Kg |   | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| Benzene                 | ND        |              | 5.0 | 0.25 | ug/Kg |   | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| Ethylbenzene            | ND        |              | 5.0 | 0.35 | ug/Kg |   | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| Isopropylbenzene        | ND        |              | 5.0 | 0.75 | ug/Kg |   | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| Methyl tert-butyl ether | ND        |              | 5.0 | 0.49 | ug/Kg |   | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| m-Xylene & p-Xylene     | ND        |              | 10  | 0.84 | ug/Kg |   | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| n-Butylbenzene          | ND        |              | 5.0 | 0.44 | ug/Kg |   | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| N-Propylbenzene         | ND        |              | 5.0 | 0.40 | ug/Kg |   | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| o-Xylene                | ND        |              | 5.0 | 0.65 | ug/Kg |   | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| sec-Butylbenzene        | ND        |              | 5.0 | 0.44 | ug/Kg |   | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| Toluene                 | ND        |              | 5.0 | 0.38 | ug/Kg |   | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| tert-Butylbenzene       | ND        |              | 5.0 | 0.52 | ug/Kg |   | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| Xylenes, Total          | ND        |              | 10  | 0.84 | ug/Kg |   | 10/25/17 09:12 | 10/25/17 12:05 | 1       |

| Tentatively Identified Compound | MB Est. Result | MB Qualifier | Unit  | D | RT | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|----------------|--------------|-------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None           |              | ug/Kg |   |    |         | 10/25/17 09:12 | 10/25/17 12:05 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 115          |              | 64 - 126 | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| 4-Bromofluorobenzene (Surr)  | 109          |              | 72 - 126 | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| Toluene-d8 (Surr)            | 103          |              | 71 - 125 | 10/25/17 09:12 | 10/25/17 12:05 | 1       |
| Dibromofluoromethane (Surr)  | 111          |              | 60 - 140 | 10/25/17 09:12 | 10/25/17 12:05 | 1       |

**Lab Sample ID: LCS 480-383680/1-A**

**Matrix: Solid**

**Analysis Batch: 383669**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 383680**

| Analyte                 | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | Limits   |
|-------------------------|-------------|------------|---------------|-------|---|------|----------|
| 1,2,4-Trimethylbenzene  | 50.0        | 53.0       |               | ug/Kg |   | 106  | 74 - 120 |
| 1,3,5-Trimethylbenzene  | 50.0        | 53.2       |               | ug/Kg |   | 106  | 74 - 120 |
| 4-Isopropyltoluene      | 50.0        | 53.4       |               | ug/Kg |   | 107  | 74 - 120 |
| Benzene                 | 50.0        | 55.9       |               | ug/Kg |   | 112  | 79 - 127 |
| Ethylbenzene            | 50.0        | 54.1       |               | ug/Kg |   | 108  | 80 - 120 |
| Isopropylbenzene        | 50.0        | 51.8       |               | ug/Kg |   | 104  | 72 - 120 |
| Methyl tert-butyl ether | 50.0        | 57.9       |               | ug/Kg |   | 116  | 63 - 125 |
| m-Xylene & p-Xylene     | 50.0        | 55.7       |               | ug/Kg |   | 111  | 70 - 130 |
| n-Butylbenzene          | 50.0        | 52.2       |               | ug/Kg |   | 104  | 70 - 120 |
| N-Propylbenzene         | 50.0        | 51.6       |               | ug/Kg |   | 103  | 70 - 130 |
| o-Xylene                | 50.0        | 54.9       |               | ug/Kg |   | 110  | 70 - 130 |
| sec-Butylbenzene        | 50.0        | 52.3       |               | ug/Kg |   | 105  | 74 - 120 |
| Toluene                 | 50.0        | 53.8       |               | ug/Kg |   | 108  | 74 - 128 |
| tert-Butylbenzene       | 50.0        | 51.9       |               | ug/Kg |   | 104  | 73 - 120 |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 116           |               | 64 - 126 |

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

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

**Lab Sample ID: LCS 480-383680/1-A**  
**Matrix: Solid**  
**Analysis Batch: 383669**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 383680**

| Surrogate                   | LCS       |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 116       |           | 72 - 126 |
| Toluene-d8 (Surr)           | 111       |           | 71 - 125 |
| Dibromofluoromethane (Surr) | 121       |           | 60 - 140 |

**Lab Sample ID: MB 480-383716/2-A**  
**Matrix: Solid**  
**Analysis Batch: 383699**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 383716**

| Analyte                 | MB     |           | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
|                         | Result | Qualifier |     |     |       |   |                |                |         |
| 1,2,4-Trimethylbenzene  | ND     |           | 100 | 28  | ug/Kg |   | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| 1,3,5-Trimethylbenzene  | ND     |           | 100 | 30  | ug/Kg |   | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| 4-Isopropyltoluene      | ND     |           | 100 | 34  | ug/Kg |   | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| Benzene                 | ND     |           | 100 | 19  | ug/Kg |   | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| Ethylbenzene            | ND     |           | 100 | 29  | ug/Kg |   | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| Isopropylbenzene        | ND     |           | 100 | 15  | ug/Kg |   | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| Methyl tert-butyl ether | ND     |           | 100 | 38  | ug/Kg |   | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 200 | 55  | ug/Kg |   | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| n-Butylbenzene          | ND     |           | 100 | 29  | ug/Kg |   | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| N-Propylbenzene         | ND     |           | 100 | 26  | ug/Kg |   | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| o-Xylene                | ND     |           | 100 | 13  | ug/Kg |   | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| sec-Butylbenzene        | ND     |           | 100 | 37  | ug/Kg |   | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| Toluene                 | ND     |           | 100 | 27  | ug/Kg |   | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| tert-Butylbenzene       | ND     |           | 100 | 28  | ug/Kg |   | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| Xylenes, Total          | ND     |           | 200 | 55  | ug/Kg |   | 10/25/17 11:14 | 10/25/17 14:31 | 1       |

| Tentatively Identified Compound | MB          |           | Unit  | D | RT   | CAS No.  | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|-------|---|------|----------|----------------|----------------|---------|
|                                 | Est. Result | Qualifier |       |   |      |          |                |                |         |
| Tetrahydrofuran                 | 125         | J         | ug/Kg |   | 4.68 | 109-99-9 | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| Tentatively Identified Compound | None        |           | ug/Kg |   |      |          | 10/25/17 11:14 | 10/25/17 14:31 | 1       |

| Surrogate                    | MB        |           | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
|                              | %Recovery | Qualifier |          |                |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 112       |           | 53 - 146 | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 49 - 148 | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| Toluene-d8 (Surr)            | 95        |           | 50 - 149 | 10/25/17 11:14 | 10/25/17 14:31 | 1       |
| Dibromofluoromethane (Surr)  | 90        |           | 60 - 140 | 10/25/17 11:14 | 10/25/17 14:31 | 1       |

**Lab Sample ID: LCS 480-383716/1-A**  
**Matrix: Solid**  
**Analysis Batch: 383699**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 383716**

| Analyte                 | Spike Added | LCS    |           | Unit  | D | %Rec | Limits   |
|-------------------------|-------------|--------|-----------|-------|---|------|----------|
|                         |             | Result | Qualifier |       |   |      |          |
| 1,2,4-Trimethylbenzene  | 2500        | 2380   |           | ug/Kg |   | 95   | 77 - 127 |
| 1,3,5-Trimethylbenzene  | 2500        | 2370   |           | ug/Kg |   | 95   | 79 - 120 |
| 4-Isopropyltoluene      | 2500        | 2510   |           | ug/Kg |   | 101  | 80 - 120 |
| Benzene                 | 2500        | 2280   |           | ug/Kg |   | 91   | 77 - 125 |
| Ethylbenzene            | 2500        | 2600   |           | ug/Kg |   | 104  | 78 - 124 |
| Isopropylbenzene        | 2500        | 2260   |           | ug/Kg |   | 91   | 76 - 120 |
| Methyl tert-butyl ether | 2500        | 2160   |           | ug/Kg |   | 86   | 67 - 137 |

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

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

**Lab Sample ID: LCS 480-383716/1-A**  
**Matrix: Solid**  
**Analysis Batch: 383699**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 383716**

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| m-Xylene & p-Xylene | 2500        | 2490       |               | ug/Kg |   | 100  | 77 - 125     |
| n-Butylbenzene      | 2500        | 2420       |               | ug/Kg |   | 97   | 80 - 120     |
| N-Propylbenzene     | 2500        | 2400       |               | ug/Kg |   | 96   | 76 - 120     |
| o-Xylene            | 2500        | 2570       |               | ug/Kg |   | 103  | 80 - 124     |
| sec-Butylbenzene    | 2500        | 2370       |               | ug/Kg |   | 95   | 79 - 120     |
| Toluene             | 2500        | 2440       |               | ug/Kg |   | 98   | 75 - 124     |
| tert-Butylbenzene   | 2500        | 2540       |               | ug/Kg |   | 101  | 78 - 120     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 109           |               | 53 - 146 |
| 4-Bromofluorobenzene (Surr)  | 96            |               | 49 - 148 |
| Toluene-d8 (Surr)            | 93            |               | 50 - 149 |
| Dibromofluoromethane (Surr)  | 92            |               | 60 - 140 |

**Lab Sample ID: MB 480-383999/2-A**  
**Matrix: Solid**  
**Analysis Batch: 383959**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 383999**

| Analyte                 | MB Result | MB Qualifier | RL  | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| 1,2,4-Trimethylbenzene  | ND        |              | 5.0 | 0.96 | ug/Kg |   | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| 1,3,5-Trimethylbenzene  | ND        |              | 5.0 | 0.32 | ug/Kg |   | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| 4-Isopropyltoluene      | ND        |              | 5.0 | 0.40 | ug/Kg |   | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| Benzene                 | ND        |              | 5.0 | 0.25 | ug/Kg |   | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| Ethylbenzene            | ND        |              | 5.0 | 0.35 | ug/Kg |   | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| Isopropylbenzene        | ND        |              | 5.0 | 0.75 | ug/Kg |   | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| Methyl tert-butyl ether | ND        |              | 5.0 | 0.49 | ug/Kg |   | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| m-Xylene & p-Xylene     | ND        |              | 10  | 0.84 | ug/Kg |   | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| n-Butylbenzene          | ND        |              | 5.0 | 0.44 | ug/Kg |   | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| N-Propylbenzene         | ND        |              | 5.0 | 0.40 | ug/Kg |   | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| o-Xylene                | ND        |              | 5.0 | 0.65 | ug/Kg |   | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| sec-Butylbenzene        | ND        |              | 5.0 | 0.44 | ug/Kg |   | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| Toluene                 | ND        |              | 5.0 | 0.38 | ug/Kg |   | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| tert-Butylbenzene       | ND        |              | 5.0 | 0.52 | ug/Kg |   | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| Xylenes, Total          | ND        |              | 10  | 0.84 | ug/Kg |   | 10/26/17 10:00 | 10/26/17 14:37 | 1       |

| Tentatively Identified Compound | MB Est. Result | MB Qualifier | Unit  | D | RT | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|----------------|--------------|-------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None           |              | ug/Kg |   |    |         | 10/26/17 10:00 | 10/26/17 14:37 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 92           |              | 64 - 126 | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| 4-Bromofluorobenzene (Surr)  | 105          |              | 72 - 126 | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| Toluene-d8 (Surr)            | 100          |              | 71 - 125 | 10/26/17 10:00 | 10/26/17 14:37 | 1       |
| Dibromofluoromethane (Surr)  | 100          |              | 60 - 140 | 10/26/17 10:00 | 10/26/17 14:37 | 1       |

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

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

**Lab Sample ID: LCS 480-383999/1-A**

**Matrix: Solid**

**Analysis Batch: 383959**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 383999**

| Analyte                 | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | Limits   |
|-------------------------|-------------|------------|---------------|-------|---|------|----------|
| 1,2,4-Trimethylbenzene  | 50.0        | 48.1       |               | ug/Kg |   | 96   | 74 - 120 |
| 1,3,5-Trimethylbenzene  | 50.0        | 48.2       |               | ug/Kg |   | 96   | 74 - 120 |
| 4-Isopropyltoluene      | 50.0        | 49.2       |               | ug/Kg |   | 98   | 74 - 120 |
| Benzene                 | 50.0        | 49.5       |               | ug/Kg |   | 99   | 79 - 127 |
| Ethylbenzene            | 50.0        | 49.1       |               | ug/Kg |   | 98   | 80 - 120 |
| Isopropylbenzene        | 50.0        | 47.8       |               | ug/Kg |   | 96   | 72 - 120 |
| Methyl tert-butyl ether | 50.0        | 47.9       |               | ug/Kg |   | 96   | 63 - 125 |
| m-Xylene & p-Xylene     | 50.0        | 50.3       |               | ug/Kg |   | 101  | 70 - 130 |
| n-Butylbenzene          | 50.0        | 47.9       |               | ug/Kg |   | 96   | 70 - 120 |
| N-Propylbenzene         | 50.0        | 47.1       |               | ug/Kg |   | 94   | 70 - 130 |
| o-Xylene                | 50.0        | 50.9       |               | ug/Kg |   | 102  | 70 - 130 |
| sec-Butylbenzene        | 50.0        | 48.7       |               | ug/Kg |   | 97   | 74 - 120 |
| Toluene                 | 50.0        | 48.6       |               | ug/Kg |   | 97   | 74 - 128 |
| tert-Butylbenzene       | 50.0        | 49.1       |               | ug/Kg |   | 98   | 73 - 120 |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 94            |               | 64 - 126 |
| 4-Bromofluorobenzene (Surr)  | 106           |               | 72 - 126 |
| Toluene-d8 (Surr)            | 104           |               | 71 - 125 |
| Dibromofluoromethane (Surr)  | 101           |               | 60 - 140 |

**Lab Sample ID: MB 480-384677/7**

**Matrix: Solid**

**Analysis Batch: 384677**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

| Analyte                 | MB Result | MB Qualifier | RL  | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|-----------|--------------|-----|------|-------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene  | ND        |              | 1.0 | 0.28 | ug/Kg |   |          | 10/30/17 20:31 | 1       |
| 1,3,5-Trimethylbenzene  | ND        |              | 1.0 | 0.30 | ug/Kg |   |          | 10/30/17 20:31 | 1       |
| 4-Isopropyltoluene      | ND        |              | 1.0 | 0.34 | ug/Kg |   |          | 10/30/17 20:31 | 1       |
| Benzene                 | ND        |              | 1.0 | 0.19 | ug/Kg |   |          | 10/30/17 20:31 | 1       |
| Ethylbenzene            | ND        |              | 1.0 | 0.29 | ug/Kg |   |          | 10/30/17 20:31 | 1       |
| Isopropylbenzene        | ND        |              | 1.0 | 0.15 | ug/Kg |   |          | 10/30/17 20:31 | 1       |
| Methyl tert-butyl ether | ND        |              | 1.0 | 0.38 | ug/Kg |   |          | 10/30/17 20:31 | 1       |
| m-Xylene & p-Xylene     | ND        |              | 2.0 | 0.55 | ug/Kg |   |          | 10/30/17 20:31 | 1       |
| n-Butylbenzene          | ND        |              | 1.0 | 0.29 | ug/Kg |   |          | 10/30/17 20:31 | 1       |
| N-Propylbenzene         | ND        |              | 1.0 | 0.26 | ug/Kg |   |          | 10/30/17 20:31 | 1       |
| o-Xylene                | ND        |              | 1.0 | 0.13 | ug/Kg |   |          | 10/30/17 20:31 | 1       |
| sec-Butylbenzene        | ND        |              | 1.0 | 0.37 | ug/Kg |   |          | 10/30/17 20:31 | 1       |
| Toluene                 | ND        |              | 1.0 | 0.27 | ug/Kg |   |          | 10/30/17 20:31 | 1       |
| tert-Butylbenzene       | ND        |              | 1.0 | 0.28 | ug/Kg |   |          | 10/30/17 20:31 | 1       |
| Xylenes, Total          | ND        |              | 2.0 | 0.55 | ug/Kg |   |          | 10/30/17 20:31 | 1       |

| Tentatively Identified Compound | MB Est. Result | MB Qualifier | Unit  | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|----------------|--------------|-------|---|----|---------|----------|----------------|---------|
| Tentatively Identified Compound | None           |              | ug/Kg |   |    |         |          | 10/30/17 20:31 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100          |              | 53 - 146 |          | 10/30/17 20:31 | 1       |

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

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

**Lab Sample ID: MB 480-384677/7**  
**Matrix: Solid**  
**Analysis Batch: 384677**

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

| Surrogate                   | MB MB     |           | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
|                             | %Recovery | Qualifier |          |          |                |         |
| 4-Bromofluorobenzene (Surr) | 99        |           | 49 - 148 |          | 10/30/17 20:31 | 1       |
| Toluene-d8 (Surr)           | 97        |           | 50 - 149 |          | 10/30/17 20:31 | 1       |
| Dibromofluoromethane (Surr) | 94        |           | 60 - 140 |          | 10/30/17 20:31 | 1       |

**Lab Sample ID: LCS 480-384677/5**  
**Matrix: Solid**  
**Analysis Batch: 384677**

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

| Analyte                 | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec.    |
|-------------------------|-------------|------------|---------------|-------|---|------|----------|
|                         |             |            |               |       |   |      | Limits   |
| 1,2,4-Trimethylbenzene  | 25.0        | 23.8       |               | ug/Kg |   | 95   | 77 - 127 |
| 1,3,5-Trimethylbenzene  | 25.0        | 23.4       |               | ug/Kg |   | 93   | 79 - 120 |
| 4-Isopropyltoluene      | 25.0        | 22.1       |               | ug/Kg |   | 88   | 80 - 120 |
| Benzene                 | 25.0        | 21.2       |               | ug/Kg |   | 85   | 77 - 125 |
| Ethylbenzene            | 25.0        | 22.4       |               | ug/Kg |   | 89   | 78 - 124 |
| Isopropylbenzene        | 25.0        | 22.2       |               | ug/Kg |   | 89   | 76 - 120 |
| Methyl tert-butyl ether | 25.0        | 24.6       |               | ug/Kg |   | 98   | 67 - 137 |
| m-Xylene & p-Xylene     | 25.0        | 22.1       |               | ug/Kg |   | 88   | 77 - 125 |
| n-Butylbenzene          | 25.0        | 22.4       |               | ug/Kg |   | 89   | 80 - 120 |
| N-Propylbenzene         | 25.0        | 21.4       |               | ug/Kg |   | 85   | 76 - 120 |
| o-Xylene                | 25.0        | 22.2       |               | ug/Kg |   | 89   | 80 - 124 |
| sec-Butylbenzene        | 25.0        | 21.5       |               | ug/Kg |   | 86   | 79 - 120 |
| Toluene                 | 25.0        | 20.7       |               | ug/Kg |   | 83   | 75 - 124 |
| tert-Butylbenzene       | 25.0        | 22.5       |               | ug/Kg |   | 90   | 78 - 120 |

| Surrogate                    | LCS LCS   |           | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 53 - 146 |
| 4-Bromofluorobenzene (Surr)  | 99        |           | 49 - 148 |
| Toluene-d8 (Surr)            | 96        |           | 50 - 149 |
| Dibromofluoromethane (Surr)  | 93        |           | 60 - 140 |

**Lab Sample ID: LCS 480-384735/5**  
**Matrix: Solid**  
**Analysis Batch: 384735**

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

| Analyte                 | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec.    |
|-------------------------|-------------|------------|---------------|-------|---|------|----------|
|                         |             |            |               |       |   |      | Limits   |
| 1,2,4-Trimethylbenzene  | 25.0        | 25.9       |               | ug/Kg |   | 103  | 77 - 127 |
| 1,3,5-Trimethylbenzene  | 25.0        | 26.4       |               | ug/Kg |   | 106  | 79 - 120 |
| 4-Isopropyltoluene      | 25.0        | 25.9       |               | ug/Kg |   | 103  | 80 - 120 |
| Benzene                 | 25.0        | 23.5       |               | ug/Kg |   | 94   | 77 - 125 |
| Ethylbenzene            | 25.0        | 24.9       |               | ug/Kg |   | 100  | 78 - 124 |
| Isopropylbenzene        | 25.0        | 26.3       |               | ug/Kg |   | 105  | 76 - 120 |
| Methyl tert-butyl ether | 25.0        | 25.1       |               | ug/Kg |   | 101  | 67 - 137 |
| m-Xylene & p-Xylene     | 25.0        | 23.9       |               | ug/Kg |   | 96   | 77 - 125 |
| n-Butylbenzene          | 25.0        | 26.4       |               | ug/Kg |   | 106  | 80 - 120 |
| N-Propylbenzene         | 25.0        | 25.2       |               | ug/Kg |   | 101  | 76 - 120 |
| o-Xylene                | 25.0        | 24.3       |               | ug/Kg |   | 97   | 80 - 124 |
| sec-Butylbenzene        | 25.0        | 25.0       |               | ug/Kg |   | 100  | 79 - 120 |
| Toluene                 | 25.0        | 23.6       |               | ug/Kg |   | 94   | 75 - 124 |

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

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

**Lab Sample ID: LCS 480-384735/5**  
**Matrix: Solid**  
**Analysis Batch: 384735**

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

| Analyte           | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|-------------------|-------------|------------|---------------|-------|---|------|--------------|
| tert-Butylbenzene | 25.0        | 25.9       |               | ug/Kg |   | 104  | 78 - 120     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 95            |               | 53 - 146 |
| 4-Bromofluorobenzene (Surr)  | 101           |               | 49 - 148 |
| Toluene-d8 (Surr)            | 98            |               | 50 - 149 |
| Dibromofluoromethane (Surr)  | 95            |               | 60 - 140 |

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

**Lab Sample ID: MB 480-382977/1-A**  
**Matrix: Solid**  
**Analysis Batch: 383167**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 382977**

| Analyte                | MB Result | MB Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Acenaphthene           | ND        |              | 170 | 24  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Acenaphthylene         | ND        |              | 170 | 21  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Anthracene             | ND        |              | 170 | 41  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Benzo[a]anthracene     | ND        |              | 170 | 17  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Benzo[a]pyrene         | ND        |              | 170 | 24  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Benzo[b]fluoranthene   | ND        |              | 170 | 26  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Benzo[g,h,i]perylene   | ND        |              | 170 | 18  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Benzo[k]fluoranthene   | ND        |              | 170 | 21  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Chrysene               | ND        |              | 170 | 37  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Dibenz(a,h)anthracene  | ND        |              | 170 | 29  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Fluoranthene           | ND        |              | 170 | 18  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Fluorene               | ND        |              | 170 | 19  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Indeno[1,2,3-cd]pyrene | ND        |              | 170 | 20  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Naphthalene            | ND        |              | 170 | 21  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Phenanthrene           | ND        |              | 170 | 24  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Pyrene                 | ND        |              | 170 | 19  | ug/Kg |   | 10/20/17 14:03 | 10/22/17 16:50 | 1       |

| Surrogate              | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl       | 81           |              | 60 - 120 | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| Nitrobenzene-d5 (Surr) | 75           |              | 53 - 120 | 10/20/17 14:03 | 10/22/17 16:50 | 1       |
| p-Terphenyl-d14 (Surr) | 98           |              | 65 - 121 | 10/20/17 14:03 | 10/22/17 16:50 | 1       |

**Lab Sample ID: LCS 480-382977/2-A**  
**Matrix: Solid**  
**Analysis Batch: 383167**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 382977**

| Analyte            | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------|-------------|------------|---------------|-------|---|------|--------------|
| Acenaphthene       | 1620        | 1400       |               | ug/Kg |   | 86   | 62 - 120     |
| Acenaphthylene     | 1620        | 1380       |               | ug/Kg |   | 85   | 58 - 121     |
| Anthracene         | 1620        | 1490       |               | ug/Kg |   | 92   | 62 - 120     |
| Benzo[a]anthracene | 1620        | 1560       |               | ug/Kg |   | 96   | 65 - 120     |
| Benzo[a]pyrene     | 1620        | 1580       |               | ug/Kg |   | 98   | 64 - 120     |

TestAmerica Buffalo

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

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

**Lab Sample ID: LCS 480-382977/2-A**  
**Matrix: Solid**  
**Analysis Batch: 383167**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 382977**

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | Limits   |
|------------------------|-------------|------------|---------------|-------|---|------|----------|
| Benzo[b]fluoranthene   | 1620        | 1620       |               | ug/Kg |   | 100  | 64 - 120 |
| Benzo[g,h,i]perylene   | 1620        | 1380       |               | ug/Kg |   | 85   | 45 - 145 |
| Benzo[k]fluoranthene   | 1620        | 1630       |               | ug/Kg |   | 100  | 65 - 120 |
| Chrysene               | 1620        | 1530       |               | ug/Kg |   | 95   | 64 - 120 |
| Dibenz(a,h)anthracene  | 1620        | 1430       |               | ug/Kg |   | 88   | 54 - 132 |
| Fluoranthene           | 1620        | 1540       |               | ug/Kg |   | 95   | 62 - 120 |
| Fluorene               | 1620        | 1440       |               | ug/Kg |   | 89   | 63 - 120 |
| Indeno[1,2,3-cd]pyrene | 1620        | 1410       |               | ug/Kg |   | 87   | 56 - 134 |
| Naphthalene            | 1620        | 1250       |               | ug/Kg |   | 77   | 55 - 120 |
| Phenanthrene           | 1620        | 1540       |               | ug/Kg |   | 95   | 60 - 120 |
| Pyrene                 | 1620        | 1570       |               | ug/Kg |   | 97   | 61 - 133 |

| Surrogate              | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------|---------------|---------------|----------|
| 2-Fluorobiphenyl       | 80            |               | 60 - 120 |
| Nitrobenzene-d5 (Surr) | 82            |               | 53 - 120 |
| p-Terphenyl-d14 (Surr) | 100           |               | 65 - 121 |

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

**Lab Sample ID: MB 480-382878/1-A**  
**Matrix: Solid**  
**Analysis Batch: 383309**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 382878**

| Analyte  | MB Result | MB Qualifier | RL   | MDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|-------|---|----------------|----------------|---------|
| PCB-1016 | ND        |              | 0.19 | 0.037 | mg/Kg |   | 10/20/17 08:34 | 10/23/17 15:26 | 1       |
| PCB-1221 | ND        |              | 0.19 | 0.037 | mg/Kg |   | 10/20/17 08:34 | 10/23/17 15:26 | 1       |
| PCB-1232 | ND        |              | 0.19 | 0.037 | mg/Kg |   | 10/20/17 08:34 | 10/23/17 15:26 | 1       |
| PCB-1242 | ND        |              | 0.19 | 0.037 | mg/Kg |   | 10/20/17 08:34 | 10/23/17 15:26 | 1       |
| PCB-1248 | ND        |              | 0.19 | 0.037 | mg/Kg |   | 10/20/17 08:34 | 10/23/17 15:26 | 1       |
| PCB-1254 | ND        |              | 0.19 | 0.088 | mg/Kg |   | 10/20/17 08:34 | 10/23/17 15:26 | 1       |
| PCB-1260 | ND        |              | 0.19 | 0.088 | mg/Kg |   | 10/20/17 08:34 | 10/23/17 15:26 | 1       |

| Surrogate              | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 105          |              | 60 - 154 | 10/20/17 08:34 | 10/23/17 15:26 | 1       |
| DCB Decachlorobiphenyl | 114          |              | 65 - 174 | 10/20/17 08:34 | 10/23/17 15:26 | 1       |

**Lab Sample ID: LCS 480-382878/2-A**  
**Matrix: Solid**  
**Analysis Batch: 383309**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 382878**

| Surrogate              | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------|---------------|---------------|----------|
| Tetrachloro-m-xylene   | 124           |               | 60 - 154 |
| DCB Decachlorobiphenyl | 133           |               | 65 - 174 |



# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

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

**Lab Sample ID: LCS 480-382878/3-A**  
**Matrix: Solid**  
**Analysis Batch: 383309**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 382878**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | Limits   |
|----------|-------------|------------|---------------|-------|---|------|----------|
| PCB-1016 | 1.98        | 2.19       |               | mg/Kg |   | 110  | 51 - 185 |
| PCB-1260 | 1.98        | 2.70       |               | mg/Kg |   | 136  | 61 - 184 |

| Surrogate              | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------|---------------|---------------|----------|
| Tetrachloro-m-xylene   | 146           |               | 60 - 154 |
| DCB Decachlorobiphenyl | 143           |               | 65 - 174 |

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 480-383281/1-A**  
**Matrix: Solid**  
**Analysis Batch: 383788**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 383281**

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Arsenic  | ND        |              | 1.9  |     | mg/Kg |   | 10/23/17 14:51 | 10/25/17 10:09 | 1       |
| Barium   | ND        |              | 0.47 |     | mg/Kg |   | 10/23/17 14:51 | 10/25/17 10:09 | 1       |
| Cadmium  | ND        |              | 0.19 |     | mg/Kg |   | 10/23/17 14:51 | 10/25/17 10:09 | 1       |
| Chromium | ND        |              | 0.47 |     | mg/Kg |   | 10/23/17 14:51 | 10/25/17 10:09 | 1       |
| Lead     | ND        |              | 0.94 |     | mg/Kg |   | 10/23/17 14:51 | 10/25/17 10:09 | 1       |
| Selenium | ND        |              | 3.8  |     | mg/Kg |   | 10/23/17 14:51 | 10/25/17 10:09 | 1       |
| Silver   | ND        |              | 0.56 |     | mg/Kg |   | 10/23/17 14:51 | 10/25/17 10:09 | 1       |

**Lab Sample ID: LCSSRM 480-383281/2-A**  
**Matrix: Solid**  
**Analysis Batch: 383788**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 383281**

| Analyte  | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit  | D | %Rec  | Limits       |
|----------|-------------|---------------|------------------|-------|---|-------|--------------|
| Arsenic  | 100         | 93.71         |                  | mg/Kg |   | 93.7  | 69.6 - 131.0 |
| Barium   | 217         | 194.5         |                  | mg/Kg |   | 89.6  | 73.7 - 128.1 |
| Cadmium  | 83.7        | 73.51         |                  | mg/Kg |   | 87.8  | 73.2 - 131.4 |
| Chromium | 107         | 100.6         |                  | mg/Kg |   | 94.0  | 69.4 - 134.6 |
| Lead     | 88.4        | 96.11         |                  | mg/Kg |   | 108.7 | 69.9 - 130.1 |
| Selenium | 87.7        | 79.50         |                  | mg/Kg |   | 90.6  | 64.1 - 135.7 |
| Silver   | 41.4        | 34.65         |                  | mg/Kg |   | 83.7  | 65.9 - 133.8 |

**Lab Sample ID: 480-126164-3 MS**  
**Matrix: Solid**  
**Analysis Batch: 383788**

**Client Sample ID: SB-2 (2-4)**  
**Prep Type: Total/NA**  
**Prep Batch: 383281**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Arsenic | 7.3           |                  | 45.9        | 50.05     |              | mg/Kg | ☼ | 93   | 75 - 125 |
| Barium  | 108           | F1               | 45.9        | 84.83     | F1           | mg/Kg | ☼ | -50  | 75 - 125 |
| Cadmium | ND            |                  | 45.9        | 45.62     |              | mg/Kg | ☼ | 99   | 75 - 125 |

TestAmerica Buffalo



# QC Sample Results

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

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

**Lab Sample ID: 480-126164-3 MS**  
**Matrix: Solid**  
**Analysis Batch: 383788**

**Client Sample ID: SB-2 (2-4)**  
**Prep Type: Total/NA**  
**Prep Batch: 383281**  
**%Rec.**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Chromium | 5.6           |                  | 45.9        | 51.02     |              | mg/Kg | ☼ | 99   | 75 - 125 |
| Lead     | 7.2           |                  | 45.9        | 54.35     |              | mg/Kg | ☼ | 103  | 75 - 125 |
| Selenium | ND            |                  | 45.9        | 43.17     |              | mg/Kg | ☼ | 94   | 75 - 125 |
| Silver   | ND            |                  | 11.5        | 10.39     |              | mg/Kg | ☼ | 91   | 75 - 125 |

**Lab Sample ID: 480-126164-3 MSD**  
**Matrix: Solid**  
**Analysis Batch: 383788**

**Client Sample ID: SB-2 (2-4)**  
**Prep Type: Total/NA**  
**Prep Batch: 383281**  
**%Rec.**  
**RPD**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| Arsenic  | 7.3           |                  | 41.9        | 44.74      |               | mg/Kg | ☼ | 89   | 75 - 125 | 11  | 20    |
| Barium   | 108           | F1               | 41.9        | 82.29      | F1            | mg/Kg | ☼ | -61  | 75 - 125 | 3   | 20    |
| Cadmium  | ND            |                  | 41.9        | 40.99      |               | mg/Kg | ☼ | 98   | 75 - 125 | 11  | 20    |
| Chromium | 5.6           |                  | 41.9        | 45.74      |               | mg/Kg | ☼ | 96   | 75 - 125 | 11  | 20    |
| Lead     | 7.2           |                  | 41.9        | 49.63      |               | mg/Kg | ☼ | 101  | 75 - 125 | 9   | 20    |
| Selenium | ND            |                  | 41.9        | 38.92      |               | mg/Kg | ☼ | 93   | 75 - 125 | 10  | 20    |
| Silver   | ND            |                  | 10.5        | 9.24       |               | mg/Kg | ☼ | 88   | 75 - 125 | 12  | 20    |

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 480-383104/1-A**  
**Matrix: Solid**  
**Analysis Batch: 383820**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 383104**

| Analyte | MB Result | MB Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|-------|-----|-------|---|----------------|----------------|---------|
| Mercury | ND        |              | 0.019 |     | mg/Kg |   | 10/25/17 13:55 | 10/25/17 16:07 | 1       |

**Lab Sample ID: LCSSRM 480-383104/2-A ^10**  
**Matrix: Solid**  
**Analysis Batch: 383820**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 383104**  
**%Rec.**

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit  | D | %Rec | Limits       |
|---------|-------------|---------------|------------------|-------|---|------|--------------|
| Mercury | 12.6        | 9.98          |                  | mg/Kg |   | 79.2 | 44.4 - 128.6 |

**Lab Sample ID: MB 480-383105/1-A**  
**Matrix: Solid**  
**Analysis Batch: 383820**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 383105**

| Analyte | MB Result | MB Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|-------|-----|-------|---|----------------|----------------|---------|
| Mercury | ND        |              | 0.021 |     | mg/Kg |   | 10/25/17 13:55 | 10/25/17 16:49 | 1       |

**Lab Sample ID: LCSSRM 480-383105/2-A ^10**  
**Matrix: Solid**  
**Analysis Batch: 383820**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 383105**  
**%Rec.**

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit  | D | %Rec | Limits       |
|---------|-------------|---------------|------------------|-------|---|------|--------------|
| Mercury | 12.6        | 10.16         |                  | mg/Kg |   | 80.6 | 44.4 - 128.6 |

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

## GC/MS VOA

### Analysis Batch: 383669

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-126164-1       | SB-1 (6-8)         | Total/NA  | Solid  | 8260C  | 383680     |
| MB 480-383680/2-A  | Method Blank       | Total/NA  | Solid  | 8260C  | 383680     |
| LCS 480-383680/1-A | Lab Control Sample | Total/NA  | Solid  | 8260C  | 383680     |

### Prep Batch: 383680

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|--------------------|--------------------|-----------|--------|---------|------------|
| 480-126164-1       | SB-1 (6-8)         | Total/NA  | Solid  | 5035A_L |            |
| MB 480-383680/2-A  | Method Blank       | Total/NA  | Solid  | 5035A_L |            |
| LCS 480-383680/1-A | Lab Control Sample | Total/NA  | Solid  | 5035A_L |            |

### Analysis Batch: 383699

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| MB 480-383716/2-A  | Method Blank       | Total/NA  | Solid  | 8260C  | 383716     |
| LCS 480-383716/1-A | Lab Control Sample | Total/NA  | Solid  | 8260C  | 383716     |

### Prep Batch: 383716

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|--------------------|--------------------|-----------|--------|---------|------------|
| 480-126164-5       | SB-6 (2-4)         | Total/NA  | Solid  | 5035A_H |            |
| 480-126164-6       | SB-7 (1.5-3.5)     | Total/NA  | Solid  | 5035A_H |            |
| 480-126164-6 - DL  | SB-7 (1.5-3.5)     | Total/NA  | Solid  | 5035A_H |            |
| MB 480-383716/2-A  | Method Blank       | Total/NA  | Solid  | 5035A_H |            |
| LCS 480-383716/1-A | Lab Control Sample | Total/NA  | Solid  | 5035A_H |            |

### Analysis Batch: 383959

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-126164-4       | SB-3 (2-4)         | Total/NA  | Solid  | 8260C  | 383999     |
| MB 480-383999/2-A  | Method Blank       | Total/NA  | Solid  | 8260C  | 383999     |
| LCS 480-383999/1-A | Lab Control Sample | Total/NA  | Solid  | 8260C  | 383999     |

### Prep Batch: 383999

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|--------------------|--------------------|-----------|--------|---------|------------|
| 480-126164-4       | SB-3 (2-4)         | Total/NA  | Solid  | 5035A_L |            |
| MB 480-383999/2-A  | Method Blank       | Total/NA  | Solid  | 5035A_L |            |
| LCS 480-383999/1-A | Lab Control Sample | Total/NA  | Solid  | 5035A_L |            |

### Analysis Batch: 384677

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-126164-5     | SB-6 (2-4)         | Total/NA  | Solid  | 8260C  | 383716     |
| 480-126164-6     | SB-7 (1.5-3.5)     | Total/NA  | Solid  | 8260C  | 383716     |
| MB 480-384677/7  | Method Blank       | Total/NA  | Solid  | 8260C  |            |
| LCS 480-384677/5 | Lab Control Sample | Total/NA  | Solid  | 8260C  |            |

### Analysis Batch: 384735

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-126164-6 - DL | SB-7 (1.5-3.5)     | Total/NA  | Solid  | 8260C  | 383716     |
| LCS 480-384735/5  | Lab Control Sample | Total/NA  | Solid  | 8260C  |            |

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

## GC/MS Semi VOA

### Prep Batch: 382977

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-126164-2       | SB-2 (0.5-2.0)     | Total/NA  | Solid  | 3550C  |            |
| 480-126164-4       | SB-3 (2-4)         | Total/NA  | Solid  | 3550C  |            |
| 480-126164-5       | SB-6 (2-4)         | Total/NA  | Solid  | 3550C  |            |
| 480-126164-7       | SB-8 (0.5-3.5)     | Total/NA  | Solid  | 3550C  |            |
| 480-126164-8       | SS-1               | Total/NA  | Solid  | 3550C  |            |
| MB 480-382977/1-A  | Method Blank       | Total/NA  | Solid  | 3550C  |            |
| LCS 480-382977/2-A | Lab Control Sample | Total/NA  | Solid  | 3550C  |            |

### Analysis Batch: 383167

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-126164-2       | SB-2 (0.5-2.0)     | Total/NA  | Solid  | 8270D  | 382977     |
| 480-126164-4       | SB-3 (2-4)         | Total/NA  | Solid  | 8270D  | 382977     |
| 480-126164-5       | SB-6 (2-4)         | Total/NA  | Solid  | 8270D  | 382977     |
| 480-126164-7       | SB-8 (0.5-3.5)     | Total/NA  | Solid  | 8270D  | 382977     |
| 480-126164-8       | SS-1               | Total/NA  | Solid  | 8270D  | 382977     |
| MB 480-382977/1-A  | Method Blank       | Total/NA  | Solid  | 8270D  | 382977     |
| LCS 480-382977/2-A | Lab Control Sample | Total/NA  | Solid  | 8270D  | 382977     |

## GC Semi VOA

### Prep Batch: 382878

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-126164-3       | SB-2 (2-4)         | Total/NA  | Solid  | 3550C  |            |
| 480-126164-8       | SS-1               | Total/NA  | Solid  | 3550C  |            |
| MB 480-382878/1-A  | Method Blank       | Total/NA  | Solid  | 3550C  |            |
| LCS 480-382878/2-A | Lab Control Sample | Total/NA  | Solid  | 3550C  |            |
| LCS 480-382878/3-A | Lab Control Sample | Total/NA  | Solid  | 3550C  |            |

### Analysis Batch: 383309

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-126164-3       | SB-2 (2-4)         | Total/NA  | Solid  | 8082A  | 382878     |
| 480-126164-8       | SS-1               | Total/NA  | Solid  | 8082A  | 382878     |
| MB 480-382878/1-A  | Method Blank       | Total/NA  | Solid  | 8082A  | 382878     |
| LCS 480-382878/2-A | Lab Control Sample | Total/NA  | Solid  | 8082A  | 382878     |
| LCS 480-382878/3-A | Lab Control Sample | Total/NA  | Solid  | 8082A  | 382878     |

## Metals

### Prep Batch: 383104

| Lab Sample ID             | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------------|--------------------|-----------|--------|--------|------------|
| MB 480-383104/1-A         | Method Blank       | Total/NA  | Solid  | 7471A  |            |
| LCS SRM 480-383104/2-A ^1 | Lab Control Sample | Total/NA  | Solid  | 7471A  |            |

### Prep Batch: 383105

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 480-126164-2  | SB-2 (0.5-2.0)   | Total/NA  | Solid  | 7471B  |            |
| 480-126164-3  | SB-2 (2-4)       | Total/NA  | Solid  | 7471B  |            |
| 480-126164-4  | SB-3 (2-4)       | Total/NA  | Solid  | 7471B  |            |
| 480-126164-7  | SB-8 (0.5-3.5)   | Total/NA  | Solid  | 7471B  |            |
| 480-126164-8  | SS-1             | Total/NA  | Solid  | 7471B  |            |

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

## Metals (Continued)

### Prep Batch: 383105 (Continued)

| Lab Sample ID            | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------------|--------------------|-----------|--------|--------|------------|
| MB 480-383105/1-A        | Method Blank       | Total/NA  | Solid  | 7471B  |            |
| LCSSRM 480-383105/2-A ^1 | Lab Control Sample | Total/NA  | Solid  | 7471B  |            |

### Prep Batch: 383281

| Lab Sample ID         | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-----------|--------|--------|------------|
| 480-126164-2          | SB-2 (0.5-2.0)     | Total/NA  | Solid  | 3050B  |            |
| 480-126164-3          | SB-2 (2-4)         | Total/NA  | Solid  | 3050B  |            |
| 480-126164-4          | SB-3 (2-4)         | Total/NA  | Solid  | 3050B  |            |
| 480-126164-7          | SB-8 (0.5-3.5)     | Total/NA  | Solid  | 3050B  |            |
| 480-126164-8          | SS-1               | Total/NA  | Solid  | 3050B  |            |
| MB 480-383281/1-A     | Method Blank       | Total/NA  | Solid  | 3050B  |            |
| LCSSRM 480-383281/2-A | Lab Control Sample | Total/NA  | Solid  | 3050B  |            |
| 480-126164-3 MS       | SB-2 (2-4)         | Total/NA  | Solid  | 3050B  |            |
| 480-126164-3 MSD      | SB-2 (2-4)         | Total/NA  | Solid  | 3050B  |            |

### Analysis Batch: 383788

| Lab Sample ID         | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-----------|--------|--------|------------|
| 480-126164-2          | SB-2 (0.5-2.0)     | Total/NA  | Solid  | 6010C  | 383281     |
| 480-126164-3          | SB-2 (2-4)         | Total/NA  | Solid  | 6010C  | 383281     |
| 480-126164-4          | SB-3 (2-4)         | Total/NA  | Solid  | 6010C  | 383281     |
| 480-126164-7          | SB-8 (0.5-3.5)     | Total/NA  | Solid  | 6010C  | 383281     |
| 480-126164-7          | SB-8 (0.5-3.5)     | Total/NA  | Solid  | 6010C  | 383281     |
| 480-126164-8          | SS-1               | Total/NA  | Solid  | 6010C  | 383281     |
| 480-126164-8          | SS-1               | Total/NA  | Solid  | 6010C  | 383281     |
| MB 480-383281/1-A     | Method Blank       | Total/NA  | Solid  | 6010C  | 383281     |
| LCSSRM 480-383281/2-A | Lab Control Sample | Total/NA  | Solid  | 6010C  | 383281     |
| 480-126164-3 MS       | SB-2 (2-4)         | Total/NA  | Solid  | 6010C  | 383281     |
| 480-126164-3 MSD      | SB-2 (2-4)         | Total/NA  | Solid  | 6010C  | 383281     |

### Analysis Batch: 383820

| Lab Sample ID            | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------------|--------------------|-----------|--------|--------|------------|
| 480-126164-2             | SB-2 (0.5-2.0)     | Total/NA  | Solid  | 7471B  | 383105     |
| 480-126164-3             | SB-2 (2-4)         | Total/NA  | Solid  | 7471B  | 383105     |
| 480-126164-4             | SB-3 (2-4)         | Total/NA  | Solid  | 7471B  | 383105     |
| 480-126164-7             | SB-8 (0.5-3.5)     | Total/NA  | Solid  | 7471B  | 383105     |
| 480-126164-8             | SS-1               | Total/NA  | Solid  | 7471B  | 383105     |
| MB 480-383104/1-A        | Method Blank       | Total/NA  | Solid  | 7471B  | 383104     |
| MB 480-383105/1-A        | Method Blank       | Total/NA  | Solid  | 7471B  | 383105     |
| LCSSRM 480-383104/2-A ^1 | Lab Control Sample | Total/NA  | Solid  | 7471B  | 383104     |
| LCSSRM 480-383105/2-A ^1 | Lab Control Sample | Total/NA  | Solid  | 7471B  | 383105     |

## General Chemistry

### Analysis Batch: 382817

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 480-126164-2  | SB-2 (0.5-2.0)   | Total/NA  | Solid  | Moisture |            |
| 480-126164-3  | SB-2 (2-4)       | Total/NA  | Solid  | Moisture |            |
| 480-126164-4  | SB-3 (2-4)       | Total/NA  | Solid  | Moisture |            |
| 480-126164-5  | SB-6 (2-4)       | Total/NA  | Solid  | Moisture |            |
| 480-126164-6  | SB-7 (1.5-3.5)   | Total/NA  | Solid  | Moisture |            |

TestAmerica Buffalo

# QC Association Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

## General Chemistry (Continued)

### Analysis Batch: 382817 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 480-126164-7  | SB-8 (0.5-3.5)   | Total/NA  | Solid  | Moisture |            |
| 480-126164-8  | SS-1             | Total/NA  | Solid  | Moisture |            |

### Analysis Batch: 383741

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 480-126164-1  | SB-1 (6-8)       | Total/NA  | Solid  | Moisture |            |

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# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

**Client Sample ID: SB-1 (6-8)**

Date Collected: 10/18/17 09:04

Date Received: 10/19/17 12:28

**Lab Sample ID: 480-126164-1**

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 383741       | 10/25/17 11:53       | CDC     | TAL BUF |

**Client Sample ID: SB-1 (6-8)**

Date Collected: 10/18/17 09:04

Date Received: 10/19/17 12:28

**Lab Sample ID: 480-126164-1**

Matrix: Solid

Percent Solids: 87.3

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035A_L      |     |                 | 383680       | 10/25/17 09:12       | CDC     | TAL BUF |
| Total/NA  | Analysis   | 8260C        |     | 1               | 383669       | 10/25/17 19:12       | CDC     | TAL BUF |

**Client Sample ID: SB-2 (0.5-2.0)**

Date Collected: 10/18/17 09:33

Date Received: 10/19/17 12:28

**Lab Sample ID: 480-126164-2**

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 382817       | 10/19/17 20:14       | MDH     | TAL BUF |

**Client Sample ID: SB-2 (0.5-2.0)**

Date Collected: 10/18/17 09:33

Date Received: 10/19/17 12:28

**Lab Sample ID: 480-126164-2**

Matrix: Solid

Percent Solids: 89.4

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3550C        |     |                 | 382977       | 10/20/17 14:03       | BEK     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 10              | 383167       | 10/22/17 19:28       | DMR     | TAL BUF |
| Total/NA  | Prep       | 3050B        |     |                 | 383281       | 10/23/17 14:51       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 383788       | 10/25/17 10:16       | LMH     | TAL BUF |
| Total/NA  | Prep       | 7471B        |     |                 | 383105       | 10/25/17 13:55       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 7471B        |     | 1               | 383820       | 10/25/17 17:16       | BMB     | TAL BUF |

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

Date Collected: 10/18/17 09:47

Date Received: 10/19/17 12:28

**Lab Sample ID: 480-126164-3**

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 382817       | 10/19/17 20:14       | MDH     | TAL BUF |

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

Date Collected: 10/18/17 09:47

Date Received: 10/19/17 12:28

**Lab Sample ID: 480-126164-3**

Matrix: Solid

Percent Solids: 90.4

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3550C        |     |                 | 382878       | 10/20/17 08:34       | NMC     | TAL BUF |

TestAmerica Buffalo

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
 Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

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

Date Collected: 10/18/17 09:47

Date Received: 10/19/17 12:28

## Lab Sample ID: 480-126164-3

Matrix: Solid

Percent Solids: 90.4

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8082A        |     | 1               | 383309       | 10/23/17 17:29       | JMO     | TAL BUF |
| Total/NA  | Prep       | 3050B        |     |                 | 383281       | 10/23/17 14:51       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 383788       | 10/25/17 10:19       | LMH     | TAL BUF |
| Total/NA  | Prep       | 7471B        |     |                 | 383105       | 10/25/17 13:55       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 7471B        |     | 1               | 383820       | 10/25/17 17:19       | BMB     | TAL BUF |

## Client Sample ID: SB-3 (2-4)

Date Collected: 10/18/17 10:23

Date Received: 10/19/17 12:28

## Lab Sample ID: 480-126164-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 382817       | 10/19/17 20:14       | MDH     | TAL BUF |

## Client Sample ID: SB-3 (2-4)

Date Collected: 10/18/17 10:23

Date Received: 10/19/17 12:28

## Lab Sample ID: 480-126164-4

Matrix: Solid

Percent Solids: 85.7

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035A_L      |     |                 | 383999       | 10/26/17 14:02       | LCH     | TAL BUF |
| Total/NA  | Analysis   | 8260C        |     | 1               | 383959       | 10/26/17 15:50       | CDC     | TAL BUF |
| Total/NA  | Prep       | 3550C        |     |                 | 382977       | 10/20/17 14:03       | BEK     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 1               | 383167       | 10/22/17 19:54       | DMR     | TAL BUF |
| Total/NA  | Prep       | 3050B        |     |                 | 383281       | 10/23/17 14:51       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 383788       | 10/25/17 10:38       | LMH     | TAL BUF |
| Total/NA  | Prep       | 7471B        |     |                 | 383105       | 10/25/17 13:55       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 7471B        |     | 1               | 383820       | 10/25/17 17:21       | BMB     | TAL BUF |

## Client Sample ID: SB-6 (2-4)

Date Collected: 10/18/17 12:54

Date Received: 10/19/17 12:28

## Lab Sample ID: 480-126164-5

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 382817       | 10/19/17 20:14       | MDH     | TAL BUF |

## Client Sample ID: SB-6 (2-4)

Date Collected: 10/18/17 12:54

Date Received: 10/19/17 12:28

## Lab Sample ID: 480-126164-5

Matrix: Solid

Percent Solids: 86.2

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035A_H      |     |                 | 383716       | 10/25/17 11:14       | CDC     | TAL BUF |
| Total/NA  | Analysis   | 8260C        |     | 5               | 384677       | 10/31/17 03:52       | AMM     | TAL BUF |
| Total/NA  | Prep       | 3550C        |     |                 | 382977       | 10/20/17 14:03       | BEK     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 5               | 383167       | 10/22/17 20:20       | DMR     | TAL BUF |

TestAmerica Buffalo

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

## Client Sample ID: SB-7 (1.5-3.5)

Date Collected: 10/18/17 14:10

Date Received: 10/19/17 12:28

## Lab Sample ID: 480-126164-6

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 382817       | 10/19/17 20:14       | MDH     | TAL BUF |

## Client Sample ID: SB-7 (1.5-3.5)

Date Collected: 10/18/17 14:10

Date Received: 10/19/17 12:28

## Lab Sample ID: 480-126164-6

Matrix: Solid

Percent Solids: 85.5

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035A_H      |     |                 | 383716       | 10/25/17 11:14       | CDC     | TAL BUF |
| Total/NA  | Analysis   | 8260C        |     | 10              | 384677       | 10/31/17 04:19       | AMM     | TAL BUF |
| Total/NA  | Prep       | 5035A_H      | DL  |                 | 383716       | 10/25/17 11:14       | CDC     | TAL BUF |
| Total/NA  | Analysis   | 8260C        | DL  | 40              | 384735       | 10/31/17 11:41       | LCH     | TAL BUF |

## Client Sample ID: SB-8 (0.5-3.5)

Date Collected: 10/18/17 15:23

Date Received: 10/19/17 12:28

## Lab Sample ID: 480-126164-7

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 382817       | 10/19/17 20:14       | MDH     | TAL BUF |

## Client Sample ID: SB-8 (0.5-3.5)

Date Collected: 10/18/17 15:23

Date Received: 10/19/17 12:28

## Lab Sample ID: 480-126164-7

Matrix: Solid

Percent Solids: 69.5

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3550C        |     |                 | 382977       | 10/20/17 14:03       | BEK     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 5               | 383167       | 10/22/17 20:46       | DMR     | TAL BUF |
| Total/NA  | Prep       | 3050B        |     |                 | 383281       | 10/23/17 14:51       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 383788       | 10/25/17 10:52       | LMH     | TAL BUF |
| Total/NA  | Prep       | 3050B        |     |                 | 383281       | 10/23/17 14:51       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 5               | 383788       | 10/25/17 10:56       | LMH     | TAL BUF |
| Total/NA  | Prep       | 7471B        |     |                 | 383105       | 10/25/17 13:55       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 7471B        |     | 1               | 383820       | 10/25/17 17:22       | BMB     | TAL BUF |

## Client Sample ID: SS-1

Date Collected: 10/18/17 15:40

Date Received: 10/19/17 12:28

## Lab Sample ID: 480-126164-8

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 382817       | 10/19/17 20:14       | MDH     | TAL BUF |

TestAmerica Buffalo



# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

**Client Sample ID: SS-1**

**Lab Sample ID: 480-126164-8**

**Date Collected: 10/18/17 15:40**

**Matrix: Solid**

**Date Received: 10/19/17 12:28**

**Percent Solids: 94.8**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3550C        |     |                 | 382977       | 10/20/17 14:03       | BEK     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 50              | 383167       | 10/22/17 21:13       | DMR     | TAL BUF |
| Total/NA  | Prep       | 3550C        |     |                 | 382878       | 10/20/17 08:34       | NMC     | TAL BUF |
| Total/NA  | Analysis   | 8082A        |     | 1               | 383309       | 10/23/17 17:44       | JMO     | TAL BUF |
| Total/NA  | Prep       | 3050B        |     |                 | 383281       | 10/23/17 14:51       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 383788       | 10/25/17 10:59       | LMH     | TAL BUF |
| Total/NA  | Prep       | 3050B        |     |                 | 383281       | 10/23/17 14:51       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 5               | 383788       | 10/25/17 11:03       | LMH     | TAL BUF |
| Total/NA  | Prep       | 7471B        |     |                 | 383105       | 10/25/17 13:55       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 7471B        |     | 1               | 383820       | 10/25/17 17:26       | BMB     | 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 - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

## 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   |

1

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# Method Summary

Client: Turnkey Environmental Restoration, LLC  
Project/Site: Benchmark - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

| Method   | Method Description                                     | Protocol | Laboratory |
|----------|--|----------|------------|
| 8260C    | Volatile Organic Compounds by GC/MS                    | SW846    | TAL BUF    |
| 8270D    | Semivolatile Organic Compounds (GC/MS)                 | SW846    | TAL BUF    |
| 8082A    | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL BUF    |
| 6010C    | Metals (ICP)   | SW846    | TAL BUF    |
| 7471B    | Mercury (CVAA)   | SW846    | TAL BUF    |
| Moisture | Percent Moisture                                       | EPA      | TAL BUF    |

#### 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 - 1585 Hertel Ave site

TestAmerica Job ID: 480-126164-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 480-126164-1  | SB-1 (6-8)       | Solid  | 10/18/17 09:04 | 10/19/17 12:28 |
| 480-126164-2  | SB-2 (0.5-2.0)   | Solid  | 10/18/17 09:33 | 10/19/17 12:28 |
| 480-126164-3  | SB-2 (2-4)       | Solid  | 10/18/17 09:47 | 10/19/17 12:28 |
| 480-126164-4  | SB-3 (2-4)       | Solid  | 10/18/17 10:23 | 10/19/17 12:28 |
| 480-126164-5  | SB-6 (2-4)       | Solid  | 10/18/17 12:54 | 10/19/17 12:28 |
| 480-126164-6  | SB-7 (1.5-3.5)   | Solid  | 10/18/17 14:10 | 10/19/17 12:28 |
| 480-126164-7  | SB-8 (0.5-3.5)   | Solid  | 10/18/17 15:23 | 10/19/17 12:28 |
| 480-126164-8  | SS-1             | Solid  | 10/18/17 15:40 | 10/19/17 12:28 |

- 1
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- 15

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt \_\_\_\_\_  
 Drinking Water? Yes  No

## Chain of Custody Record

TAL-4124 (1007)

Client: **Benchmark Eng** Address: **2558 Hamburg Turnpike** City: **Leckrone** State: **NY** Zip Code: **14218**

Project Name and Location (State): **0437-017-001**

Contract/Purchase Order/Quote No. \_\_\_\_\_

Project Manager: **Chris Boron** Telephone Number (Area Code)/Fax Number: **(716) 818-8358**

Site Contact: **J. Beckwith** Lab Contact: **B. Fiske** Carrier/Waybill Number \_\_\_\_\_

Date: **10/19/17** Chain of Custody Number: **284239**

Page \_\_\_\_\_ of \_\_\_\_\_

| Sample I.D. No. and Description<br>(Containers for each sample may be combined on one line) | Date     | Time | Matrix |         |     |      | Containers & Preservatives |       |      |     | Analysis (Attach list if more space is needed) |      |             |
|---|----------|------|--------|---------|-----|------|----------------------------|-------|------|-----|--|------|-------------|
|   |          |      | Air    | Aqueous | Sed | Soil | Unpres.                    | H2SO4 | HNO3 | HCl |  | NaOH | ZnAc/NaOH   |
| SB-1 (6-8)  | 10/18/17 | 904  |        |         | X   | X    |                            |       |      | X   |  |      | CR-SIX 8260 |
| SB-2 (0.5-2.0)  |          | 933  |        |         | X   | X    |                            |       |      | X   |  |      | CR-SIX 8260 |
| SB-3 (2-4)  |          | 947  |        |         | X   | X    |                            |       |      | X   |  |      | CR-SIX 8260 |
| SB-3 (2-4)  |          | 1023 |        |         | X   | X    |                            |       |      | X   |  |      | CR-SIX 8260 |
| SB-6 (2-4)  |          | 1254 |        |         | X   | X    |                            |       |      | X   |  |      | CR-SIX 8260 |
| SB-7 (1.5-3.5)  |          | 1410 |        |         | X   | X    |                            |       |      | X   |  |      | CR-SIX 8260 |
| SB-8 (0.5-2.5)  |          | 1523 |        |         | X   | X    |                            |       |      | X   |  |      | CR-SIX 8260 |
| 95-1  |          | 1540 |        |         | X   | X    |                            |       |      | X   |  |      | CR-SIX 8260 |



480-126164 COC

Possible Hazard Identification:  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:  
 24 Hours  48 Hours  7 Days  14 Days  21 Days  Other: **STD**

1. Relinquished By: **thys** Date: **10/19/17** Time: **900**

2. Relinquished By: **thys** Date: **10/19/17** Time: **1228**

3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

1. Received By: \_\_\_\_\_ Date: **10/19/17** Time: **1350**

2. Received By: \_\_\_\_\_ Date: **10/19/17** Time: **1350**

3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: **3, 1, 1**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



## Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-126164-1

**Login Number: 126164**

**List Number: 1**

**Creator: Janish, Carl M**

**List Source: TestAmerica Buffalo**

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True   |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the sample IDs on the containers and the COC. | True   |         |
| Samples are received within Holding Time (Excluding tests with immediate HTs)..  | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified   | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | 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   | bmtk    |
| 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    |         |