

PERIODIC REVIEW REPORT (PRR)

*295 Maryland Street Site
BCP Site No. C915242
Buffalo, New York*

May 2018

B0222-014-100

Prepared For:

295 Maryland, LLC

Prepared By:



PERIODIC REVIEW REPORT

**295 MARYLAND STREET SITE
(BCP SITE No. C915242)**

BUFFALO, NEW YORK

May 2018

B0222-014-100

Prepared for:

295 Maryland, LLC

Prepared By:



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

PERIODIC REVIEW REPORT

295 Maryland Street Site (C915242)

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295 Maryland Street Site (C915242)

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1.0 INTRODUCTION

Benchmark Environmental Engineering and Science, PLLC (Benchmark) has prepared this Periodic Review Report (PRR) to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C915242, located at 295 Maryland Street, in the City of Buffalo, Erie County, New York (see Figure 1).

This PRR and the associated Institutional and Engineering Control (IC/EC) Certification Forms (see Appendix A) have been prepared for the December 16, 2016 to April 16, 2018 reporting period in accordance with the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (Ref. 1).

1.1 Site Background

295 Maryland, LLC entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in July 2011 to investigate and remediate a 1.5-acre property located in the City of Buffalo, Erie County, New York. BCP site activities were performed in accordance with Brownfield Cleanup Agreement (BCA) Index#C915268-05-11, Site #C915242, which was executed on July 14, 2011. The property was remediated to 6NYCRR Part 375 Restricted-Residential Use (Track 4), and will be used as a residential apartment complex.

The Site is located in a residential area on the west side of the City of Buffalo, Erie County, New York and is identified as Erie County Tax Map S.B.L. No.'s, 111.21-8-3.111 and 111.21-8-1.1. The approximately 1.5-acre Site is bounded by Maryland Street to the northwest, Virginia Street to the southeast, West Tupper Street to the northeast, and West Avenue to the southwest (see Figures 1 and 2).

1.2 Remedial History

The Site historically operated as an industrial/manufacturing facility for commercial billboards since the 1920s; most recently owned by Lamar Advertising prior to procurement by the current owner. Previous Site use activities included vehicle maintenance, use of paints, adhesives, solvents, and other flammables. The advertising firm relocated to another location within the City in December 2000; the associated commercial buildings and facilities on 295

Maryland Street as well as former residences at 121 West Avenue have been demolished. Currently, the Site is developed with a newly constructed three-story apartment building completed in 2017.

A 2001 Phase II investigation, 2010 soil boring program, 2010-2011 groundwater investigation, and 2013 pre-remedial investigation were completed on the Site to characterize the nature and extent of contamination at the site. The results of the previous investigations are described in detail in the Alternatives Analysis Report/ Remedial Action Work Plan (AAR/RAWP) prepared by Benchmark dated December 2015. Generally, the previous investigations determined the following contaminants of concern (COCs) in Site soil and/or groundwater: 1 benzo(a)pyrene, benzo(b)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, arsenic, lead, mercury, chromium, naphthalene, beta-bhc, alpha-bhc, benzo(a)anthracene, arsenic, dieldrin, dibenz(a,h)anthracene, benzene, toluene, ethylbenzene, and xylenes (BTEX).

The Alternatives Analysis Report/ Remedial Action Work Plan (AAR/RAWP) recommended remediation of six areas of concern (AOCs) (characterized by more pronounced levels of COCs), with cover placement recommended as the final remedial measure under a Track 4 Cleanup approach. Additional requirements included development and adherence to a Site Management Plan (SMP) and filing of an Environmental Easement to restrict use of the property to restricted residential, commercial, and industrial applications and to place other limitations on post-redevelopment activities.

1.3 Compliance

At the time of the Site inspection, the Site was fully compliant with the NYSDEC-approved SMP dated November 2015.

1.4 Recommendations

Based on the results of the annual inspection and certification, no modifications are recommended at this time on the assumption that new building construction planned for the southwest corner of the property along Maryland Street and West Avenue will begin within NYSDEC-allowable timeframes. Otherwise vegetation will need to be better established to mitigate cover soil erosion.

2.0 SITE OVERVIEW

An overview of the remediation and redevelopment activities undertaken on the Site covered by this PRR are presented below. The remediated property is subject to a comprehensive, site-wide SMP which identifies requirements for monitoring and maintenance of engineering and institutional controls and procedures for post-remedial excavation and related activities.

The 295 Maryland Street Site was redeveloped under the BCP as an apartment building. The following are the components of the selected remedy:

- **Excavation:** Excavation and off-Site disposal of approximately 3410 tons of soil/fill was completed at depths ranging from 0.5 – 8 feet below ground surface (fbgs). Specifically, excavation focused on six (6) discrete areas which were identified based upon presence of elevated concentrations of metal COPCs, polycyclic aromatic hydrocarbons (PAHs), or grossly contaminated material as per NYCRR Part 375 1.2(u). Excavations were completed until grossly impacted soils were removed and site-specific action levels (SSALs) for metals and PAHs were achieved or until the Site boundary was reached. For metal COPCs, commercial SCOs per 6 NYCRR Part 375 were established as the SSALs. For PAHs, total (cumulative) values of 100 mg/kg or lower were established as the SSAL. Following excavation the Site was regraded to accommodate installation of a cover system as described below. Where needed, clean backfill soil or aggregate meeting the requirements of 6 NYCRR Part 375-6.7(d) was brought in to provide support for pavement, building slabs/foundations, etc. and establish the design subgrade elevations at the Site.
- **Cover System:** Because the excavation was focused toward specific areas within the Site and did not include all areas of the property where constituents in excess of Restricted-Residential SCOs are present, a Site-wide cover system was required to allow for restricted-residential use of the property. The cover consists either of the structures such as buildings, pavement, sidewalks comprising the Site development or a soil or stone cover. Where the soil or stone cover was placed it was a minimum of two feet thick, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for restricted-residential use. The soil/stone cover was placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetation layer in areas slated to remain as landscape.

The remedial program was successful in achieving the remedial objectives for the Site. An Environmental Easement restricting end use of the Site and enforcing adherence to the SMP was filed in November 2015 and approved in December 2015. The Final

Engineering Report (FER) was approved in January 2017. Concurrently, a Certificate of Completion (COC) was issued for the Site by the NYSDEC in January 2017.

3.0 REMEDY PERFORMANCE

A post-remedial site inspection involving a walk-over of the Site covered by this PRR was performed on May 14, 2018 to visually observe and document the use of the Site for restricted residential, commercial, and/or industrial use, confirm absence of site groundwater use, inspect the cover system integrity, and verify conformance with other requirements under the SMP. The site inspection completed during the current reporting period indicates that the controls are in-place and functioning as intended in accordance with the SMP.

The completed IC/EC Certification forms and site photographs are included in Appendices A and B, respectively.

4.0 SITE MANAGEMENT PLAN

A site-wide SMP was prepared for the Site and approved by the Department in November 2015. Key components of the SMP are described below.

4.1 Institutional and Engineering Control (IC/EC) Plan

Since remaining contaminated soil and groundwater exists beneath the site, Institutional Controls and Engineering Controls (IC/ECs) are required to protect human health and the environment. The Engineering and Institutional Control Plan describes the procedures for the implementation and management of all IC/ECs at the site. At the time of the site inspection, the Site covered by this PRR was fully compliant with all engineering and institutional control requirements.

4.1.1 Institutional Controls (ICs)

The site has a series of Institutional Controls in the form of site restrictions. Adherence to these Institutional Controls is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

- The property may only be used for restricted-residential, commercial, and industrial use provided that the long-term Engineering and Institutional Controls included in the SMP are employed;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Erie County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP;
- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- The potential for vapor intrusion must be evaluated for any new buildings developed on the Site with a provision for implementing recommended actions to address exposures related to soil vapor intrusion, and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the site are prohibited.

4.1.2 Engineering Controls (ECs)

Engineering controls at the Site include:

- Cover System – Exposure to remaining contamination in soil/fill at the site is prevented by a final cover system placed over the site. This cover system is comprised of a minimum of 24 inches of clean soil (with demarcation layer), asphalt pavement, concrete sidewalks, and concrete building slabs. The cover system must be maintained in compliance with the SMP.

4.2 Excavation Work Plan

An Excavation Work Plan (EWP) was included in the NYSDEC-approved SMP for the Site. The Excavation Work Plan provides guidelines for the management of soil and fill material during any future intrusive activities. Any intrusive work that will penetrate the cover or cap, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover system, must be performed in compliance with the EWP.

4.2.1 Site Improvement Activities

During the current reporting period (December 16, 2016 to April 16, 2018), certain site improvements occurred that involved management of on-Site cover soil as well as

soil/fill material beneath the final cover demarcation layer and disturbance of the cover system (see Figure 3). Improvement activities included:

- Backfilled green space areas along the east side of the existing building with approved imported stone and approved imported topsoil.
- Graded the bioretention pond area and stockpiled excess bio-soil in the future redevelopment area.
- Installed caissons for the carport on the eastern portion of the Site.
- Graded and hydroseeded the temporary cover in the future redevelopment area. (10/23/17)
- Two rounds of SVI testing were performed in the existing building slab.

Intrusive activities were observed by Benchmark personnel to verify conformance with the SMP. Approximately 205 tons of generated spoils from the caisson installation and excess soil from the future redevelopment area temporary cover and bioretention pond were transported to EnSol, Inc. in accordance with the SMP for disposal. EnSol Inc.'s scale receipts are provided in Appendix C.

4.2.2 Imported Materials

DEC-approved virgin source 2-inch crusher run stone from Buffalo Crushed Stone (New Enterprises) – Wehrle plant, located in Lancaster, New York was used as backfill for green space backfill activities; this is the same source used during pre-COC redevelopment. At the time, NYSDEC was provided specifications demonstrating the material was exempt from analytical testing due to minimal fines content in accordance with DER-10 Section 5.4(e)(5)(i).

Approximately 45 cubic yards of DEC-approved topsoil was brought to the Site from CJ Krantz Nursery, located in Clarence, New York, and used in the soil cover system. Analytical samples were collected from the source in accordance with DER-10 and the Department's Request to Import Soil form, and submitted to the Department for review and approval. A copy of the Department's approval is provided in Appendix C.

4.3 Annual Inspection and Certification Program

The Annual Inspection and Certification Program outlines requirements for certifying and attesting that the institutional controls and engineering controls employed on the Site are unchanged from the original design and/or previous certification. The Annual Certification includes a Site Inspection and completion of the NYSDEC's IC/EC Certification Form. The Site inspection is intended to verify that the IC/ECs:

- Are in place and effective.
- Are performing as designed.
- That nothing has occurred that would impair the ability of the controls to protect the public health and environment.
- That nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls.
- Access is available to the Site to evaluate continued maintenance of such controls.

Inspection of the Site was conducted by Thomas Forbes, P.E. of Benchmark on May 14, 2018. Mr. Forbes is a licensed and registered NY State Professional Engineer and meets the requirements of a Qualified Environmental Professional (QEP) per 6NYCRR Part 375.12. At the time of the inspection, the Site was being used as a three-story apartment building (Allentown Apartments), with surface parking, concrete sidewalks, bioretention pond, landscaped areas, and a temporary cover in the future redevelopment area. No observable indication of intrusive activities was noted during the Site inspection beyond those described in Section 4.2. The apartment building utilizes the local municipal water supply, and no observable use of groundwater was noted during the Site inspection.

The completed Site Management Periodic Review Report Notice – Institutional and Engineering Controls Certification Form is included in Appendix A. A photographic log of the Site inspections during intrusive work as well as the May 2018 Site inspection are included in Appendix B.

4.4 Operation, Monitoring and Maintenance Plan

The remedy for the Site does not rely on any mechanical systems such as sub-slab depressurization or soil vapor extraction, to protect public health and the environment. Therefore, an Operation and Maintenance Plan is not required.

4.5 Other Requirements

As outlined in the approved SMP, post-remedial soil vapor intrusion (SVI) sampling must be performed for any new buildings developed on-site prior to human use and occupancy and during the heating season, if those events do not coincide. Therefore, NYSDEC required an evaluation of the potential for vapor intrusion in the onsite building prior to occupancy and again during the heating season.

The SVI sampling was performed in July 2017 (pre-occupancy) and repeated in December 2017 (heating season). Reports summarizing those events have been submitted to the Department under separate cover. Figure 3 shows the locations of the sampling in both the basement and slab on grade areas of the structure. At this time no further work is anticipated for the existing structure pending NYSDEC and NYSDOH concurrence.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions for this reporting period and recommendations for the next reporting period are as follows:

- At the time of the Site inspection, the Site was in compliance with the SMP. Portions of the Site underwent minor intrusive activities with NYSDEC knowledge and Benchmark observation.
- No modifications are recommended at this time under the assumption that new building construction planned for the southwest corner of the property along Maryland Street and West Avenue will begin within NYSDEC-allowable timeframes. Otherwise vegetation will need to be better established to mitigate potential cover soil erosion.

6.0 DECLARATION/LIMITATION

Benchmark Environmental Engineering and Science, PLLC personnel conducted the annual site inspection for BCP Site No. C915242, located in Buffalo, New York, according to generally accepted practices. This report complied with the scope of work provided to 295 Maryland, LLC by Benchmark Environmental Engineering & Science, PLLC.

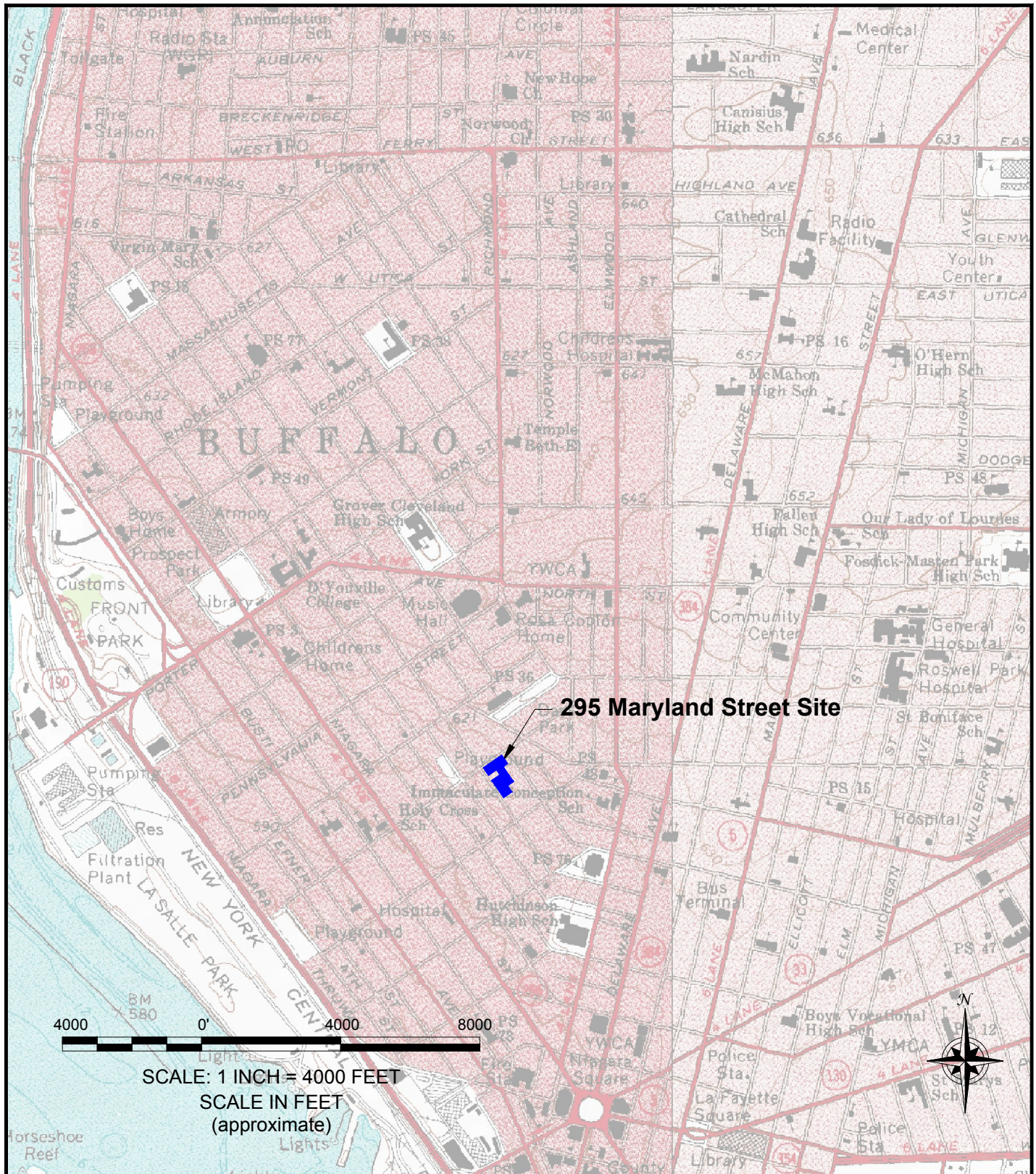
This report has been prepared for the exclusive use of 295 Maryland, LLC. The contents of this report are limited to information available at the time of the site inspection. The findings herein may be relied upon only at the discretion of 295 Maryland, LLC. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of Benchmark Environmental Engineering and Science, PLLC.

7.0 REFERENCES

1. New York State Department of Environmental Conservation. *DER-10; Technical Guidance for Site Investigation and Remediation*. May 2010.
2. *Site Management Plan, 295 Maryland Street Site, Buffalo, NY (NYSDEC BCP Site #C915242)*, dated November 2015, prepared by Benchmark Environmental Engineering and Science, PLLC.
3. *Final Engineering Report, 295 Maryland Street Site, Buffalo, NY (NYSDEC BCP Site #C915242)*, dated November 2016, prepared by Benchmark Environmental Engineering and Science, PLLC.

FIGURES

FIGURE 1



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

SITE LOCATION AND VICINITY MAP

PERIODIC REVIEW REPORT

295 MARYLAND STREET SITE
BUFFALO, NEW YORK

PREPARED FOR
295 MARYLAND, LLC

PROJECT NO.: 0222-017-001

DATE: MAY 2018

DRAFTED BY: CCB

F:\CAD\Benchmark\295 Maryland\PRR\2018\Figure 2, Site Plan.dwg, 5/14/2018 2:24:15 PM, DWG To PDF.pc3

DATE: MAY 2018
DRAFTED BY: CCB



SCALE: 1 INCH = 35 FEET
SCALE IN FEET
(approximate)



MARYLAND STREET

FUTURE REDEVELOPMENT AREA
(TEMPORARY COVER)

ASPHALT

ASPHALT

WEST AVENUE

LEGEND:

- REDEVELOPMENT AREA BOUNDARY
- BCP SITE BOUNDARY
- EXISTING BUILDING
- CONCRETE SIDEWALKS
- GREEN SPACE AREAS
- STONE BLOCKS (PLACED TO 36' OR GREATER HEIGHT)
- UNDERGROUND BIO-RETENTION POND

SITE PLAN
PERIODIC REVIEW REPORT

295 MARYLAND STREET SITE
BUFFALO, NEW YORK
PREPARED FOR
295 MARYLAND, LLC

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

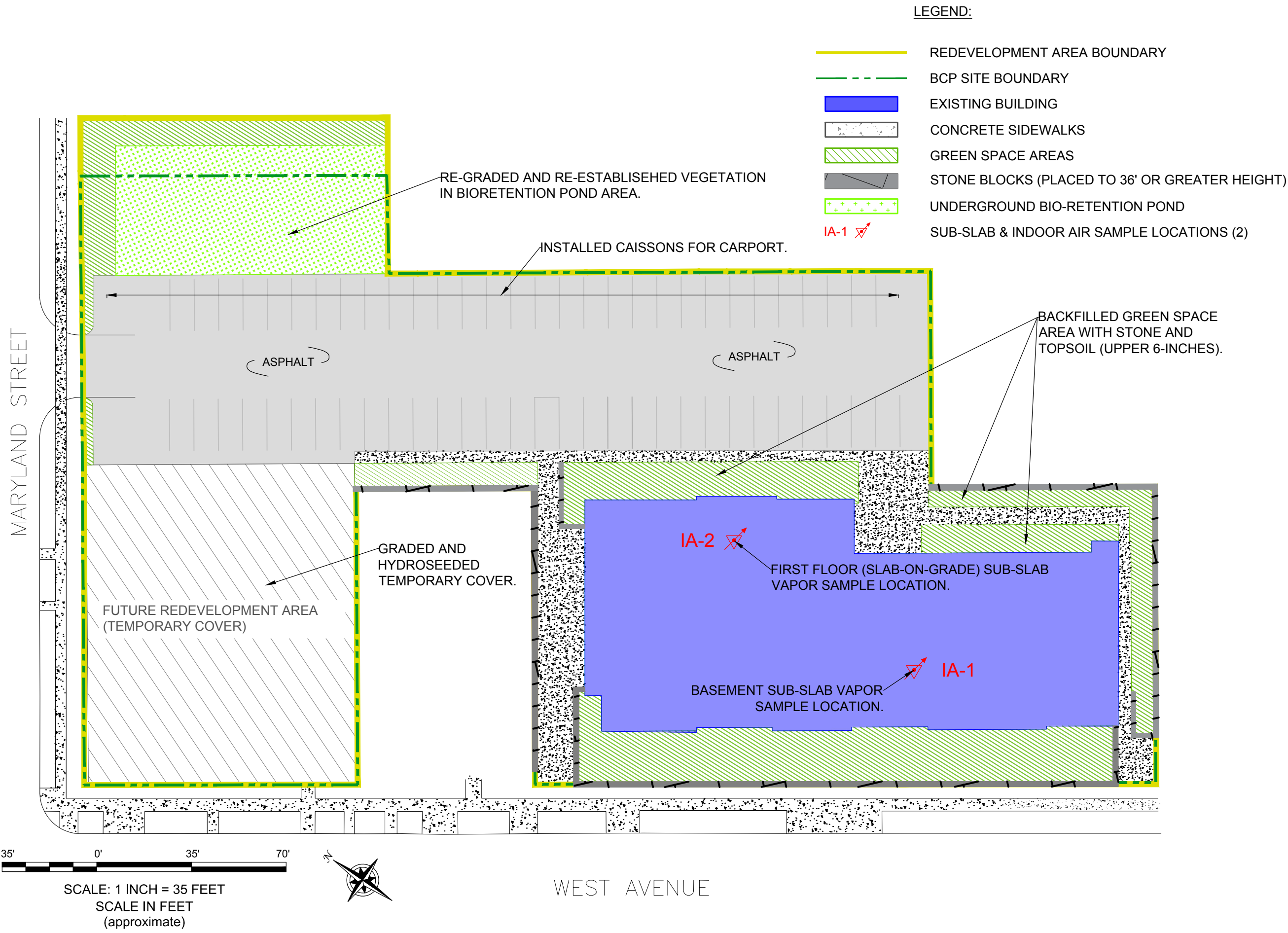
JOB NO.: B0222-017-100

FIGURE 2

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

F:\CAD\Benchmark\295 Maryland\RRR\2018\Figure 3, Intrusive Activity Location Map.dwg, 5/14/2018 2:26:09 PM, DWG To PDF.pc3

DATE: MAY 2018
DRAFTED BY: CCB



INTRUSIVE ACTIVITY LOCATION MAP

PERIODIC REVIEW REPORT

295 MARYLAND STREET SITE
BUFFALO, NEW YORK
PREPARED FOR
295 MARYLAND, LLC

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

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

JOB NO.: B0222-017-100

FIGURE 3

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

APPENDIX A

INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORM



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site No. C915242

Site Details

Box 1

Site Name 295 Maryland Street

Site Address: 295 Maryland Street Zip Code: 14201
City/Town: Buffalo
County: Erie
Site Acreage: 1.5

Reporting Period: December 16, 2016 to April 16, 2018

- | | YES | NO |
|---|-------------------------------------|-------------------------------------|
| 1. Is the information above correct? | ☒ | ☐ |
| If NO, include handwritten above or on a separate sheet. | | |
| 2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? | ☐ | ☒ |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | ☐ | ☒ |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | ☐ | ☒ |
| If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form. | | |
| 5. Is the site currently undergoing development? | ☐ | ☒ |

Box 2

- | | YES | NO |
|---|-------------------------------------|--------------------------|
| 6. Is the current site use consistent with the use(s) listed below?
Restricted-Residential, Commercial, and Industrial | ☒ | ☐ |
| 7. Are all ICs/ECs in place and functioning as designed? | ☒ | ☐ |

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Box 2A

YES NO

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?



If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid?
(The Qualitative Exposure Assessment must be certified every five years)



If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C915242**Box 3****Description of Institutional Controls**

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
111.21-8-1.1	295 Maryland, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan Monitoring Plan IC/EC Plan
111.21-8-3.111	295 Maryland, LLC	Monitoring Plan Soil Management Plan Site Management Plan Ground Water Use Restriction Ground Water Use Restriction Soil Management Plan Site Management Plan Landuse Restriction IC/EC Plan

Box 4**Description of Engineering Controls**

<u>Parcel</u>	<u>Engineering Control</u>
111.21-8-1.1	Cover System
111.21-8-3.111	Cover System Cover System

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO



2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

- (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO



**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C915242

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Anthony P. Russo at 366 Elmwood Ave Buffalo, 14222
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Anthony P. Russo
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

5/14/18
Date

IC/EC CERTIFICATIONS

Box 7

Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Thomas H. Forbes, P.E. at 2558 Hamburg Tpk
Buffalo, NY 14210
print name print business address

am certifying as a for the Owner
(Owner or Remedial Party)

Thomas H. Forbes
Signature of, for the Owner or Remedial Party,
Rendering Certification



5-14-18
Date

APPENDIX B

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Client Name: 295 Maryland, LLC		Site Location: 295 Maryland Street Site (C915242)	Project No.: B0222-017-002
Photo No. 1	Date 12/20/16		
Direction Photo Taken: North			
Description: Site Improvement Activities: Backfilled green space areas (east side of building).			

Photo No. 2	Date 12/20/16	
Direction Photo Taken: South		
Description: Site Improvement Activities: Backfilled green space areas (east side of building).		

PHOTOGRAPHIC LOG

Client Name: 295 Maryland, LLC		Site Location: 295 Maryland Street Site (C915242)	Project No.: B0222-017-002
Photo No. 3	Date 07/12/17		
Direction Photo Taken: South			
Description: Site Improvement Activities: Backfilled green space areas (east side of building).			

Photo No. 4	Date 07/12/17	
Direction Photo Taken: South		
Description: Site Improvement Activities: Re-graded and re-established vegetation in the bioretention pond area.		

PHOTOGRAPHIC LOG

Client Name: 295 Maryland, LLC		Site Location: 295 Maryland Street Site (C915242)	Project No.: B0222-017-002
Photo No. 5	Date 10/23/17		
Direction Photo Taken: South			
Description: Site Improvement Activities: Graded tempory cover in future redevelopment area.			

Photo No. 6	Date 10/23/17	
Direction Photo Taken: West		
Description: Site Improvement Activities: Hydroseeded tempory cover in future redevelopment area.		

PHOTOGRAPHIC LOG

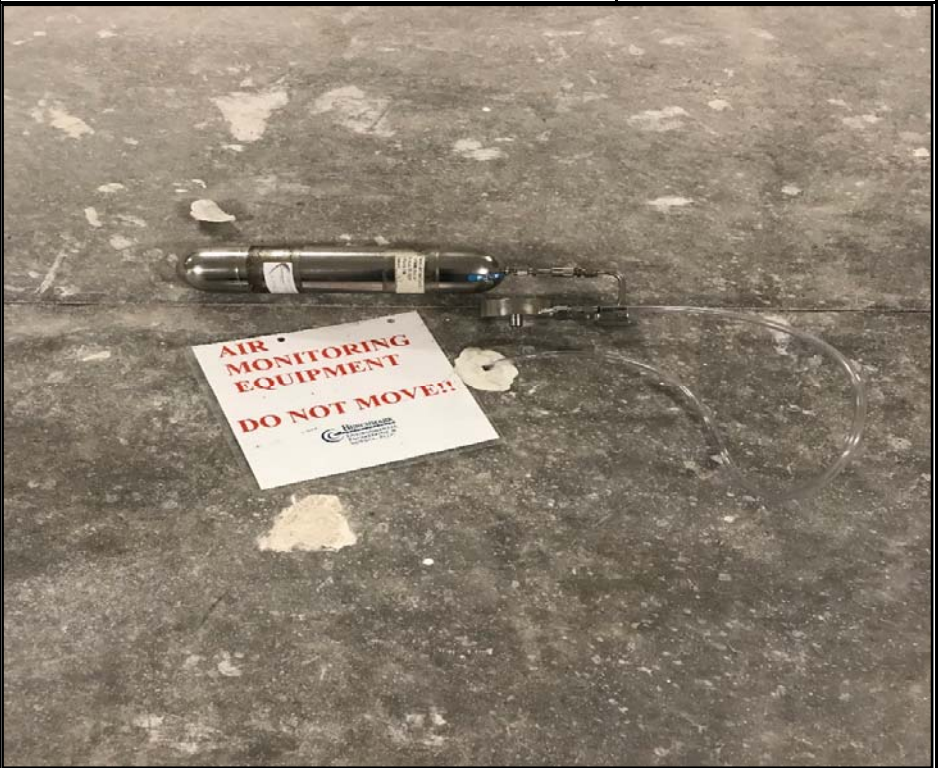
Client Name: 295 Maryland, LLC		Site Location: 295 Maryland Street Site (C915242)	Project No.: B0222-017-002
Photo No. 7	Date 12/28/17		
Direction Photo Taken: West			
Description: Site Improvement Activities: Basement sub-slab vapor sample location.			

Photo No. 8	Date 05/14/18	
Direction Photo Taken: West		
Description: Annual Site Inspection: Temporary cover in future redevelopment area.		

PHOTOGRAPHIC LOG

Client Name: 295 Maryland, LLC		Site Location: 295 Maryland Street Site (C915242)	Project No.: B0222-017-002
Photo No. 9	Date 05/14/18		
Direction Photo Taken: South			
Description: Annual Site Inspection: Asphalt paved parking lot.			

Photo No. 10	Date 05/14/18	
Direction Photo Taken: Southeast		
Description: Annual Site Inspection: Bioretention pond.		

PHOTOGRAPHIC LOG

Client Name: 295 Maryland, LLC		Site Location: 295 Maryland Street Site (C915242)	Project No.: B0222-017-002
Photo No. 11	Date 05/14/18		
Direction Photo Taken: Southwest			
Description: Annual Site Inspection: Eastern side of the existing building.			

Photo No. 12	Date 05/14/18	
Direction Photo Taken: West		
Description: Annual Site Inspection: North side of the existing building.		

PHOTOGRAPHIC LOG

Client Name: 295 Maryland, LLC		Site Location: 295 Maryland Street Site (C915242)	Project No.: B0222-017-002
Photo No. 13	Date 05/14/18		
Direction Photo Taken: Southeast			
Description: Annual Site Inspection: Western side of the existing building.			

Photo No. 14	Date 05/14/18	
Direction Photo Taken: South		
Description: Annual Site Inspection: Interior basement hallway.		

PHOTOGRAPHIC LOG

Client Name: 295 Maryland, LLC		Site Location: 295 Maryland Street Site (C915242)	Project No.: B0222-017-002
Photo No. 15	Date 05/14/18		
Direction Photo Taken: Southwest			
Description: Annual Site Inspection: Interior basement storage area.			

Photo No. 16	Date 05/14/18	
Direction Photo Taken: South		
Description: Annual Site Inspection: Southeastern side of the existing building.		

PHOTOGRAPHIC LOG

Client Name: 295 Maryland, LLC		Site Location: 295 Maryland Street Site (C915242)	Project No.: B0222-017-002
Photo No. 17	Date 05/14/18		
Direction Photo Taken: West			
Description: Annual Site Inspection: Southern side of the existing building.			

APPENDIX C

INTRUSIVE ACTIVITY DOCUMENTATION

DISPOSAL

EnSol, Inc.
Environmental Solutions

Professional Engineering · Business Consulting

661 Main Street
Niagara Falls, NY 14301

Ph (716) 285-3920 · Fx (716) 285-3928

E-Mail jbattaglia@ensolinc.com

Manifest Invoicing

Page 1 of 1

Project No: 17-3528-02T

Customer Name:

295 Maryland LLC

Generator Name:

295 Maryland LLC

Location Name :

295 Maryland Street Site

Address: 366 Elmwood Avenue

City: Buffalo

State New York **Zip:** 14222

Address: 366 Elmwood Av

City: Buffalo

State NY **Zip:** 14222

Address: 295 Maryland Street

City: Buffalo

State NY **Zip:** 14222

Manifest No	TicketDate	Trucker Ticket Number	Weight Ticket Number	TruckID	Actual Tonnage	Minimum Tonnage	Billable Tonnage:	Liners Used	Trucker Wait Time
444005	10/23/2017		112295	37	26.28	0	26.28	0	
444006	10/23/2017		112298	37	22.18	0	22.18	0	
444007	10/23/2017		344162	37	21.86	0	21.86	0	
444008	10/23/2017		112299	37	22.32	0	22.32	0	
444009	10/23/2017		112300	16	22.72	0	22.72	0	
444010	10/23/2017		112301	37	20.66	0	20.66	0	
444021	10/23/2017		112303	112	20.74	0	20.74	0	
444022	10/23/2017		112305	37	23.66	0	23.66	0	
444023	10/23/2017		112304	16	23.52	0	23.52	0	

Number of Manifests: 9

Code 1: 4965

Date 1: 11/02/2017

Total Actual Tonnage:	203.94	Total Billable Tonnage:	203.94	Total Liners Used	0	Total Time (minutes)	
----------------------------------	---------------	------------------------------------	---------------	------------------------------	----------	---------------------------------	--

CARMEN M. PARISO, INC.

3649 RIVER ROAD

TONAWANDA, NEW YORK 14150

OFFICE: (716) 875-6168 FAX: (716) 875-4121

SCALE: (716) 875-0902

TANDEM TRI-AXLES DUMP TRAILERS

**VARIETY OF PRODUCTS AVAILABLE
FROM OUR STOCKPILES**

CUSTOMER #

Site Services

TICKET # **P112295**

CUSTOMER NAME

DATE

TIME

10/23/2017

09:08AM

DELIVERED

JOB #

PICKED UP

SHIP TO

Tonawanda

CUSTOMER P.O. #

GROSS

POUNDS

MATERIAL

TARE

33000 *1b*

POUNDS

HAULING

NET

27500 *1b*

POUNDS

RECEIVED MIXED

52000 *1b*

26.20 *t*

TOTAL

PRODUCT

CON. Soil

CODE

CUSTOMER
SIGNATURE

WEIGHMASTER: CARMEN M. PARISO
N.Y.S. LICENSE #140123

WEIGHED BY *JP*

TRUCK NO. *37*

TRUCKING CO.:

TRUCKER'S
SIGNATURE

Tom Flanagan

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

N/A

2. Page 1 of

3. Emergency Response Phone

716-285-3920

4. Waste Tracking Number

ES-444006

5. Generator's Name and Mailing Address

295 Maryland LLC, 366 Elmwood Avenue,
Buffalo NY 14222, Anthony P. Lorusso

Generator's Site Address (if different than mailing address)

295 Maryland Street Site, 295 Maryland
Street, Buffalo NY 14222, Tom Forbes

Generator's Phone:

716-884-3800

6. Transporter 1 Company Name

Paris Logistics

716-875-5158

#37

U.S. EPA ID Number

9A 826

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY

U.S. EPA ID Number

N/A

Facility's Phone:

716-285-3920

9. Waste Shipping Name and Description

10. Containers

11. Total
Quantity12. Unit
Wt./Vol.

No.

Type

1. Non RCRA, Non D.O.T. Regulated Material, ACM
Soil, . . .

001

T

2. . . .

3. . . .

4. . . .

13. Special Handling Instructions and Additional Information

Emergency Contact: Ensol, Inc. Rick Horreale

Ensol, Inc. Project ID Number: 17-3528-02T

Truck ID:

P-37

Truck Lic.:

44307 MJ

Handling Codes:

Weight Ticket No.:

112295

Gross Weight:

80080

Tare Weight:

27500

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Officer's Printed/Typed Name

Signature

Caroline Bukowski Agent for 295 Maryland LLC

Carl B. M.

Month Day Year

10 23 17

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

John Murray

John Murray

Month Day Year

10 23 17

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

Item #13 Estimated Actual Weight = 26.28 lb

Manifest Reference Number:

444006

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (of Generator)

Month Day Year

18. Designated Facility Owner/Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Mark Anderson

Month Day Year

10 23 17

CARMEN M. PARISO, INC.

3649 RIVER ROAD

TONAWANDA, NEW YORK 14150

OFFICE: (716) 875-6168 FAX: (716) 875-4121

SCALE: (716) 875-0902

TANDEMS TRI-AXLES DUMP TRAILERS

**VARIETY OF PRODUCTS AVAILABLE
FROM OUR STOCKPILES**

CUSTOMER #

TICKET # **P112298**

CUSTOMER NAME

DATE
TIME 10/23/2017
10:21AM

DELIVERED

JOB #

PICKED UP

SHIP TO

CUSTOMER P.O. #

GROSS		POUNDS	MATERIAL
TARE	71860	10 POUNDS	HAULING
NET	27500	10 POUNDS	PRIVILEGED KEYED TAX
	44360	10 POUNDS	
	22.18		TOTAL

PRODUCT Cent. Soil CODE _____

CUSTOMER SIGNATURE _____

WEIGHMASTER: CARMEN M. PARISO
N.Y.S. LICENSE #140123

WEIGHED BY [Signature]

TRUCK NO. 31 TRUCKING CO.: _____

TRUCKER'S
SIGNATURE

[Signature]

NON-HAZARDOUS WASTE MANIFEST
1. Generator ID Number: N/A
2. Page 1 of
3. Emergency Response Phone: 716-285-3920
4. Waste Tracking Number: ES-444006
5. Generator's Name and Mailing Address: 295 Maryland LLC, 366 Elmwood Avenue, Buffalo NY 14222, Anthony P. LoRusso
Generator's Site Address (if different than mailing address): 295 Maryland Street, Buffalo NY 14222, Tom Forbes
Generator's Phone: 716-884-3800
6. Transporter 1 Company Name: Pariso Logistics #37
U.S. EPA ID Number: 9A 826
7. Transporter 2 Company Name:
U.S. EPA ID Number:
8. Designated Facility Name and Site Address: Town of Tonawanda Landfill Closure, East Park Road, Tonawanda NY
U.S. EPA ID Number: N/A
Facility's Phone: 716-285-3920
9. Waste Shipping Name and Description: 1. Non RCRA, Non D.O.T. Regulated Material, AGM Soil,
10. Containers: No. 001, Type T
11. Total Quantity:
12. Unit Wt./Vol.: T
13. Special Handling Instructions and Additional Information: Emergency Contact: Ensol, Inc. Nick Morreale, Ensol, Inc. Project ID Number: 17-3528-02T, Truck ID: P-37, Truck Lic.: 44307 MJ, Weight Ticket No.: 112298, Gross Weight: 71860, Tare Weight: 27500
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offor's Printed/Typed Name: Caroline Bukowski Agent for 295 Maryland LLC, Signature: Carl B...
Month: 10, Day: 23, Year: 17
15. International Shipments: Import to U.S. or Export from U.S.
Port of entry/exit:
Date leaving U.S.:
Transporter Signature (for exports only):
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John Murray, Signature: John Murray, Month: 10, Day: 23, Year: 17
Transporter 2 Printed/Typed Name:
Signature:
Month:
Day:
Year:
17. Discrepancy
17a. Discrepancy Indication Space: Quantity, Type, Residue, Partial Rejection, Full Rejection
Item #13 Estimated. Actual Weight = 22.18t
Manifest Reference Number: 444006
17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month:
Day:
Year:
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Mark H...
Signature:
Month: 10, Day: 23, Year: 17

Swift
River

Associates, Inc.

4051 RIVER ROAD 561 PAVEMENT RD.
TONAWANDA, NEW YORK 14150 LANCASTER, NEW YORK 14086
SCALE: (716) 875-0902 FAX: (716) 875-0088

Recycled Crushed Concrete Products
WE ACCEPT CLEAN BROKEN CONCRETE & ASPHALT
AT BOTH LOCATIONS.

Delivery Available

CUSTOMER #

TICKET # **S 344162**

CUSTOMER NAME

DATE
TIME

10/23/2017
11:26AM

JOB #

SHIP TO

CUSTOMER P.O. #

GROSS

TARE

NET

71220 LB
27500 LB DEBRIS/KEYED
43720 LB
21.65 t

PRODUCT

SITE

WEIGHMASTERS: S.RAWE / E.RAWE
N.Y.S. LICENSE #140331 / 601381

WEIGHED BY

TRUCK NO.

TRUCKING CO.:

TRUCKER'S
SIGNATURE

GENERATOR	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number N/A	2. Page 1 of	3. Emergency Response Phone 716-285-3920	4. Waste Tracking Number ES-444007	
	5. Generator's Name and Mailing Address 295 Maryland LLC, , 356 Elmwood Avenue, , Buffalo NY 14222, Anthony P. LoRusso				Generator's Site Address (if different than mailing address) 295 Maryland Street Site, , 295 Maryland Street, , Buffalo NY 14222, Tom Forbes		
	Generator's Phone: 716-884-3800						
	6. Transporter 1 Company Name Pariso Logistics #37 716-875-6168				U.S. EPA ID Number 9A 626		
	7. Transporter 2 Company Name				U.S. EPA ID Number		
DESIGNATED FACILITY	8. Designated Facility Name and Site Address Town of Tonawanda Landfill Closure East Park Road Tonawanda NY Facility's Phone: 716-285-3920				U.S. EPA ID Number N/A		
	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
			No.	Type			
	1. Non RCRA, Non D.O.T. Regulated Material, ACM Soil, ,		001	T		T	
	2. , , ,						
3. , , ,							
4. , , ,							
13. Special Handling Instructions and Additional Information Emergency Contact: Ensol, Inc. Nick Morreale Ensol, Inc. Project ID Number: 17-3528-02T Truck ID: P-37 Truck Lic.: 44307 MJ Handling Codes: Weight Ticket No.: 344162 Gross Weight: 71220 Tare Weight: 27500							
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
Generator's/Offor's Printed/Typed Name Caroline Bukowski Agent for 295 Maryland LLC Signature Carl Bell Month Day Year 10 23 17							
INT'L	15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:						
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name John Murray Signature John Murray Month Day Year 10 23 17						
	Transporter 2 Printed/Typed Name Signature Month Day Year						
17. Discrepancy							
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Item #13 Estimated. Actual Weight = 21.86 lb Manifest Reference Number: 444007							
17b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
17c. Signature of Alternate Facility (or Generator) Month Day Year							
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name Mark Andrews Signature Month Day Year 10 23 17							

CARMEN M. PARISO, INC.

3649 RIVER ROAD

TONAWANDA, NEW YORK 14150

OFFICE: (716) 875-6168 FAX: (716) 875-4121

SCALE: (716) 875-0902

TANDEM TRI-AXLES DUMP TRAILERS

VARIETY OF PRODUCTS AVAILABLE
FROM OUR STOCKPILES

CUSTOMER #

TICKET # **P112299**

CUSTOMER NAME

DATE
TIME 10/23/2017
12:35PM

JOB #

DELIVERED

PICKED UP

SHIP TO

CUSTOMER P.O. #

GROSS	POUNDS	MATERIAL
TARE 72160	1b	POUNDS HAULING
NET 27500	1b	POUNDS LED KEYED
44660	1b	
22.32	1	TOTAL

PRODUCT _____ CODE _____

CUSTOMER
SIGNATURE _____

WEIGHMASTER: CARMEN M. PARISO
N.Y.S. LICENSE #140123

WEIGHED BY *KE*

TRUCK NO. 37 TRUCKING CO.: _____

TRUCKER'S
SIGNATURE

Tom M...

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

N/A

2. Page 1 of

3. Emergency Response Phone

716-285-3920

4. Waste Tracking Number

ES-444008

5. Generator's Name and Mailing Address

295 Maryland LLC, , 366 Elmwood Avenue, ,
Buffalo NY 14222, Anthony P. LoRusso

Generator's Site Address (if different than mailing address)

295 Maryland Street Site, , 295 Maryland
Street, , Buffalo NY 14222, Tom Forbes

Generator's Phone:

716-884-3800

6. Transporter 1 Company Name

Pariso Logistics

716-875-6158

#37

U.S. EPA ID Number

9A 828

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY

U.S. EPA ID Number

N/A

Facility's Phone:

716-285-3920

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total

Quantity

12. Unit

Wt./Vol.

1. Non RCRA, Non D.O.T. Regulated Material, AGM
Soil, , ,

001

T

T

2.

3.

4.

13. Special Handling Instructions and Additional Information

Emergency Contact: Ensol, Inc. Nick Morreale

Ensol, Inc. Project ID Number: 17-3528-02T

Truck ID:

P-37

Truck Lic.:

49307

MJ

Handling Codes:

Weight Ticket No.:

112299

Gross Weight:

72160

Tare Weight:

27500

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name

Signature

Caroline Bukowski Agent for 295 Maryland, LLC

Carl Burt

Month Day Year

10 23 17

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

John Murray

John Murray

Month Day Year

10 23 17

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

Item #13 Estimated. Actual Weight = 22.32 lb

Manifest Reference Number:

444008

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

CARMEN M. PARISO, INC.

3649 RIVER ROAD

TONAWANDA, NEW YORK 14150

OFFICE: (716) 875-6168 FAX: (716) 875-4121

SCALE: (716) 875-0902

TANDEM TRI-AXLES DUMP TRAILERS

VARIETY OF PRODUCTS AVAILABLE
FROM OUR STOCKPILES

CUSTOMER #

Site Service

TICKET # **P112300**

CUSTOMER NAME

DATE

TIME 10/23/2017
01:25PM

DELIVERED

JOB #

Tr. Landfill

PICKED UP

SHIP TO

CUSTOMER P.O. #

GROSS	POUNDS	MATERIAL
TARE	72960 lb	POUNDS HAULING
NET	27560 lb	POUNDS
	45400 lb	POUNDS
	22.72 t	TOTAL

72960 lb

PRODUCT _____ CODE _____

CUSTOMER SIGNATURE _____

WEIGHMASTER: CARMEN M. PARISO
N.Y.S. LICENSE #140123

WEIGHED BY *[Signature]*

TRUCK NO. *10* TRUCKING CO.: _____

TRUCKER'S
SIGNATURE

[Signature]

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

N/A

2. Page 1 of

3. Emergency Response Phone

716-285-3920

4. Waste Tracking Number

ES-444009

5. Generator's Name and Mailing Address

295 Maryland LLC, , 366 Elmwood Avenue, ,
Buffalo NY 14222, Anthony P. LoRusso

Generator's Site Address (if different than mailing address)

295 Maryland Street Site, , 295 Maryland
Street, , Buffalo NY 14222, Tom Forbes

Generator's Phone:

716-884-3800

6. Transporter 1 Company Name

Pariso Logistics

716-875-6168

3710

U.S. EPA ID Number

9A 026

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY

U.S. EPA ID Number

N/A

Facility's Phone:

716-285-3920

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total

Quantity

12. Unit

Wt./Vol.

1. Non RCRA, Non D.O.T. Regulated Material, AGM
Soil, , ,

001

T

T

2. , , ,

3. , , ,

4. , , ,

13. Special Handling Instructions and Additional Information

Emergency Contact: Ensol, Inc. Nick Morreale

Ensol, Inc. Project ID Number: 17-3528-02T

Truck ID: P-16

Truck Lic.:

Handling Codes:

Weight Ticket No.: 112300

Gross Weight: 72960

Tare Weight: 27560

22.72

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Signature

Cordine Bukowski Agent for 295 Maryland, LLC

Carol B. Bukowski

Month Day Year

10 23 17

15. International Shipments

☐

Import to U.S.

☐

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Michael Anzillo

Michael Anzillo

Month Day Year

10 23 17

Transporter 2 Printed/Typed Name

Signature

Michael

Michael

Month Day Year

10 23 17

17. Discrepancy

17a. Discrepancy Indication Space

☐

Quantity

☐

Type

☐

Residue

☐

Partial Rejection

☐

Full Rejection

Item #13 Estimated. Actual Weight = 22.72

Manifest Reference Number:

444009

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Nick Adams

Nick Adams

Month Day Year

10 23 17

CARMEN M. PARISO, INC.

3649 RIVER ROAD

TONAWANDA, NEW YORK 14150

OFFICE: (716) 875-6168 FAX: (716) 875-4121

SCALE: (716) 875-0902

TANDEMS TRI-AXLES DUMP TRAILERS

**VARIETY OF PRODUCTS AVAILABLE
FROM OUR STOCKPILES**

CUSTOMER #

TICKET # **P112301**

CUSTOMER NAME

DATE

TIME 10/23/2017
01:36PM

DELIVERED

JOB #

PICKED UP

SHIP TO

CUSTOMER P.O. #

GROSS	POUNDS	MATERIAL
TARE 63000	1b	POUNDS HAULING
NET 27500	1b	PEALED REVED
41300	1b	POUNDS FAX
20.66	1	
TOTAL		

PRODUCT _____ CODE _____

CUSTOMER
SIGNATURE _____

WEIGHMASTER: CARMEN M. PARISO
N.Y.S. LICENSE #140123

WEIGHED BY _____

TRUCK NO. 37 TRUCKING CO.: _____

TRUCKER'S
SIGNATURE

John Hunter

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

N/A

2. Page 1 of

3. Emergency Response Phone

716-265-3920

4. Waste Tracking Number

ES-444010

5. Generator's Name and Mailing Address

295 Maryland LLC, , 366 Elmwood Avenue,
Buffalo NY 14222, Anthony P. LoRusso

Generator's Site Address (if different than mailing address)

295 Maryland Street Site, , 295 Maryland
Street, , Buffalo NY 14222, Tom Forbes

Generator's Phone:

716-884-3800

6. Transporter 1 Company Name

Paris Logistics

U.S. EPA ID Number

9A 826

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY

U.S. EPA ID Number

N/A

Facility's Phone:

716-265-3920

9. Waste Shipping Name and Description

10. Containers

11. Total

12. Unit

No.

Type

Quantity

Wt./Vol.

1. Non RCRA, Non D.O.T. Regulated Material, AGM
Soil, , ,

001

T

T

2. , , ,

3. , , ,

4. , , ,

13. Special Handling Instructions and Additional Information

Emergency Contact: Ensol, Inc. Nick Morreale

Ensol, Inc. Project ID Number: 17-3528-02T

Truck ID:

P-37

Truck Lic.:

44307 WJS

Handling Codes:

Weight Ticket No.:

112301

Gross Weight:

68800

Tare Weight:

27500

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Signature

Caroline Bukowski Agent for 295 Maryland, LLC

Carla Balle

Month Day Year

10 23 17

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

John Murray

John Murray

Month Day Year

10 23 17

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

Item #13 Estimated. Actual Weight = 20.66 lb

Manifest Reference Number:

444010

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

Mark Andrews

10 23 17

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

CARMEN M. PARISO, INC.

3649 RIVER ROAD

TONAWANDA, NEW YORK 14150

OFFICE: (716) 875-6168 FAX: (716) 875-4121

SCALE: (716) 875-0902

TANDEM TRI-AXLES DUMP TRAILERS

VARIETY OF PRODUCTS AVAILABLE
FROM OUR STOCKPILES

CUSTOMER #

TICKET # **P112303**

CUSTOMER NAME

DATE

TIME 10/23/2017
02:00PM

DELIVERED

JOB #

PICKED UP

SHIP TO

CUSTOMER P.O. #

GROSS		POUNDS	MATERIAL
TARE	66000 lb	POUNDS	HAULING
NET	24600 lb	POUNDS	HAULING
	41490 lb	POUNDS	TAX
	20.74 t		

TOTAL

PRODUCT IND. COIL CODE _____

CUSTOMER
SIGNATURE _____

WEIGHMASTER: CARMEN M. PARISO
N.Y.S. LICENSE #140123

WEIGHED BY _____

TRUCK NO. 112

TRUCKING CO. _____

TRUCKER'S
SIGNATURE _____

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

ES-141021

295 Maryland LLC, , 366 Elmwood Avenue,
Buffalo NY 14222, Anthony P. Lorusso295 Maryland Street Site, , 295 Maryland
Street, , Buffalo NY 14222, Tom Forbes

Generator's Phone:

716-684-3800

6. Transporter 1 Company Name

Pariso Logistics

U.S. EPA ID Number

PA 825 591

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY

N/A

Facility's Phone:

716 285 3920

9. Waste Shipping Name and Description

10. Containers

11. Total

12. Unit

No.

Type

Quantity

Wt./Vol.

1. Non RCRA, Non D.O.T. Regulated Material, AGM
Soil, , ,

001

T

T

2. , , ,

3. , , ,

4. , , ,

13. Special Handling Instructions and Additional Information

Emergency Contact: Ensol, Inc. High Morzeale

Ensol, Inc. Project ID Number: 17-3528-02T

Truck ID:

F PARISO #112

Truck Lic.:

53242-MH

Weight Ticket No.:

Gross Weight:

Tare Weight:

112303
66080
44780

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Signature

Month Day Year

Caroline Bukowski Agent for 295 Maryland LLC

10 23 17

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

AIA S. BAKER

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

Item #13 Estimated. Actual Weight = 20.74

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

141021

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

Mark Andrus

[Signature]

10 23 17

CARMEN M. PARISO, INC.

3649 RIVER ROAD

TONAWANDA, NEW YORK 14150

OFFICE: (716) 875-6168 FAX: (716) 875-4121

SCALE: (716) 875-0902

TANDEM TRI-AXLES DUMP TRAILERS

VARIETY OF PRODUCTS AVAILABLE
FROM OUR STOCKPILES

CUSTOMER #

TICKET # **P112305**

CUSTOMER NAME

DATE

TIME 10/23/2017
02:42PM

DELIVERED

JOB #

PICKED UP

SHIP TO

CUSTOMER P.O. #

GROSS	POUNDS	MATERIAL
TARE	74820 15	POUNDS HAULING
NET	27500 15	POUNDS LED KEXED
	47320 15	
	23.66 15	TOTAL

PRODUCT (M. S. 11) CODE _____

CUSTOMER
SIGNATURE _____

WEIGHMASTER: CARMEN M. PARISO
N.Y.S. LICENSE #140123

WEIGHED BY 27

TRUCK NO. 31 TRUCKING CO. John Thayer

TRUCKER'S
SIGNATURE

CARMEN M. PARISO, INC.

3649 RIVER ROAD

TONAWANDA, NEW YORK 14150

OFFICE: (716) 875-6168 FAX: (716) 875-4121

SCALE: (716) 875-0902

TANDEM TRI-AXLES DUMP TRAILERS

VARIETY OF PRODUCTS AVAILABLE
FROM OUR STOCKPILES

CUSTOMER #

H. J. C. Service

TICKET # **P112304**

CUSTOMER NAME

DATE

TIME 10/23/2017

02:32PM

DELIVERED

JOB #

ton landfill

PICKED UP

SHIP TO

CUSTOMER P.O. #

GROSS	POUNDS	MATERIAL
TARE	74600 LB	POUNDS HAULING
NET	27560 LB	POUNDS LED KEXED
	47040 LB	
	23.52 T	TOTAL

PRODUCT *mul. soil* CODE

CUSTOMER
SIGNATURE

WEIGHMASTER: CARMEN M. PARISO
N.Y.S. LICENSE #140123

WEIGHED BY *[Signature]*

TRUCK NO. *16* TRUCKING CO.:

TRUCKER'S
SIGNATURE

[Signature]

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

N/A

2. Page 1 of

3. Emergency Response Phone

716-265-3920

4. Waste Tracking Number

ES-444023

5. Generator's Name and Mailing Address

295 Maryland LLC, , 366 Elmwood Avenue, ,
Buffalo NY 14222, Anthony P. LoRusso

Generator's Site Address (if different than mailing address)

295 Maryland Street Site, , 295 Maryland
Street, , Buffalo NY 14222, Tom Forbes

Generator's Phone:

716-884-3800

6. Transporter 1 Company Name

Paris Logistics

716-875-6168 #16

U.S. EPA ID Number

GA 826

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Town of Tonawanda Landfill Closure
East Park Road
Tonawanda NY

U.S. EPA ID Number

N/A

Facility's Phone:

716-265-3920

9. Waste Shipping Name and Description

1. Non ECHA, Non D.O.T. Regulated Material, ACM
Soil, . . .

10. Containers

No.

Type

11. Total

Quantity

12. Unit

Wt./Vol.

001

T

T

13. Special Handling Instructions and Additional Information

Emergency Contact: Ensol, Inc. Nick Morreale

Ensol, Inc. Project ID Number: 17-3528-027

Truck ID:

Truck Lic.:

Handling Codes:

Weight Ticket No.:

Gross Weight:

Tare Weight:

112304
74660
74660
27560

23.52

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Signature

Month Day Year

Caroline Bukowski Agent for 295 Maryland, LLC Carl Bukowski

10 23 17

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Michael Anzillo

Michael Anzillo

10 23 17

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

Item #13 Estimated Actual Weight = 2352

Manifest Reference Number:

444023

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

Mark Andrews

Mark Andrews

10 23 17

IMPORT

Caroline C. Bukowski

From: Lopes, Anthony (DEC) <anthony.lopes@dec.ny.gov>
Sent: Wednesday, July 12, 2017 2:09 PM
To: Tom H. Forbes
Cc: Caroline C. Bukowski
Subject: RE: 295 Maryland
Attachments: J118401-1 UDS Level 2 Report Final Report.pdf; Summary of Krantz Topsoil Analytical Results.pdf

Tom,
The attached referenced material is approved for use as topsoil at the 295 Maryland site.
Thanks.
Tony

Anthony L. Lopes, P.E.
Professional Engineer 1
Department of Environmental Conservation
Division of Environmental Remediation
Region 9, Buffalo, NY 14203
Anthony.lopes@dec.ny.gov
716-851-7220

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS
IMPORTED TOPSOIL (CJ KRANTZ)
MAY 2017
257 WEST GENESEE SITE
BUFFALO, NEW YORK

Parameter ¹	Restricted Residential Use Import Criteria ²	Restricted Commercial Use Import Criteria ²	CJ KRANTZ NURSERY IMPORTED TOPSOIL
			05/22/17
Volatile Organic Compounds (VOCs) - mg/Kg³			
Ethylbenzene	1	1	0.0011 J
Toluene	0.7	0.7	0.0011 J
Total Xylene	1.6	1.6	0.0081 J
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg³			
Benzo(a)anthracene	1	1	0.17 J
Benzo(b)fluoranthene	1	1.7	0.27 J
Fluoranthene	100	500	0.32 J
Pyrene	100	500	0.28 J
Metals - mg/Kg			
Aluminum	--	--	19900
Antimony	--	--	2.1 J
Arsenic	16	16	3.9
Barium	400	400	96.6
Beryllium	47	47	0.58
Cadmium	4.3	7.5	0.41
Calcium	--	--	10800 B
Chromium	180	1500	23.1
Cobalt	--	--	5.4
Copper	270	270	18.3
Iron	--	--	17300
Lead	400	450	24.7
Magnesium	--	--	4370
Manganese	2000	2000	207 B
Mercury	0.73	0.73	0.075
Nickel	130	130	15.3
Potassium	--	--	5010
Selenium	4	4	1.7 J
Sodium	--	--	161 J
Vanadium	--	--	32.4
Zinc	2,480	2480	93.9
Pesticides- mg/Kg³			
4,4'-DDE	8.9	17	0.013 J

Notes:

- Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
- Values per NYSDEC DER-10 Appendix 5: Allowable Constituent Levels for Imported Soil or Fill
- Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparison to SCOs.

Definitions:

- ND = Parameter not detected above laboratory detection limit.
 "--" = Sample not analyzed for parameter or no SCO available for the parameter.
 J = Estimated value; result is less than the sample quantitation limit but greater than zero.
 B = Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.

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: 480-118401-1

Client Project/Site: Benchmark - 256 W. Genesee site

For:

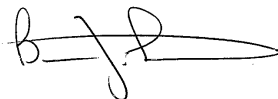
Benchmark Env. Eng. & Science, PLLC

2558 Hamburg Turnpike

Suite 300

Lackawanna, New York 14218

Attn: Mr. Tom Forbes



Authorized for release by:

5/31/2017 3:56:00 PM

Brian Fischer, Manager of Project Management

(716)504-9835

brian.fischer@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

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

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

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Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.
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.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

Job ID: 480-118401-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-118401-1

Comments

No additional comments.

Receipt

The sample was received on 5/23/2017 5:10 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA

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

GC/MS Semi VOA

Method(s) 8270D: The following sample was diluted due to appearance and viscosity: TOPSOIL COMP (480-118401-1). Elevated reporting limits (RL) are provided.

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

GC Semi VOA

Method(s) 8081B: The following sample was diluted due to the nature of the sample matrix: TOPSOIL COMP (480-118401-1). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

Method(s) 8082A: The matrix spike duplicate (MSD) recoveries for preparation batch 480-358826 and analytical batch 480-358923 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

Method(s) 6010C: The continuing calibration blank (CCB 480-359164/31) for analytical batch 480-359164 contained Total Iron above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples TOPSOIL COMP (480-118401-1), (LCSSRM 480-358953/2-), and (MB 480-358953/1-A) was not performed.

Method(s) 6010C: The Low Level Continuing Calibration Verification, (CCVL 480-359164/32) associated with batch 480-359164, contained Total Iron and Manganese above the upper quality control limit. The associated sample was either below the reporting limit (RL) for the affected analytes or contained these analytes at concentrations greater than 10X the values found in the CCVL; therefore, re-analysis of samples TOPSOIL COMP (480-118401-1), (LCSSRM 480-358953/2-) and (MB 480-358953/1-A) was not performed.

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

General Chemistry

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

Organic Prep

Method(s) 3550C: The following sample required a Florisil clean-up, via 3620C, to reduce matrix interferences: TOPSOIL COMP (480-118401-1).

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

Client Sample ID: TOPSOIL COMP

Lab Sample ID: 480-118401-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Ethylbenzene	1.1	J vs	8.2	0.57	ug/Kg	1		✱	8260C	Total/NA
Toluene	1.1	J vs	8.2	0.62	ug/Kg	1		✱	8260C	Total/NA
Xylenes, Total	8.1	J vs	16	1.4	ug/Kg	1		✱	8260C	Total/NA
Benzo[a]anthracene	170	J	1400	140	ug/Kg	5		✱	8270D	Total/NA
Benzo[b]fluoranthene	270	J	1400	220	ug/Kg	5		✱	8270D	Total/NA
Fluoranthene	320	J	1400	150	ug/Kg	5		✱	8270D	Total/NA
Pyrene	280	J	1400	170	ug/Kg	5		✱	8270D	Total/NA
4,4'-DDE	13	J	28	5.8	ug/Kg	10		✱	8081B	Total/NA
Aluminum	19900		15.9	7.0	mg/Kg	1		✱	6010C	Total/NA
Antimony	2.1	J	23.8	0.63	mg/Kg	1		✱	6010C	Total/NA
Arsenic	3.9		3.2	0.63	mg/Kg	1		✱	6010C	Total/NA
Barium	96.6		0.79	0.17	mg/Kg	1		✱	6010C	Total/NA
Beryllium	0.58		0.32	0.044	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.41		0.32	0.048	mg/Kg	1		✱	6010C	Total/NA
Calcium	10800	B	79.3	5.2	mg/Kg	1		✱	6010C	Total/NA
Chromium	23.1		0.79	0.32	mg/Kg	1		✱	6010C	Total/NA
Cobalt	5.4		0.79	0.079	mg/Kg	1		✱	6010C	Total/NA
Copper	18.3		1.6	0.33	mg/Kg	1		✱	6010C	Total/NA
Iron	17300	^	15.9	5.5	mg/Kg	1		✱	6010C	Total/NA
Lead	24.7		1.6	0.38	mg/Kg	1		✱	6010C	Total/NA
Magnesium	4370		31.7	1.5	mg/Kg	1		✱	6010C	Total/NA
Manganese	207	B	0.32	0.051	mg/Kg	1		✱	6010C	Total/NA
Nickel	15.3		7.9	0.36	mg/Kg	1		✱	6010C	Total/NA
Potassium	5010		47.6	31.7	mg/Kg	1		✱	6010C	Total/NA
Selenium	1.7	J	6.3	0.63	mg/Kg	1		✱	6010C	Total/NA
Sodium	161	J	222	20.6	mg/Kg	1		✱	6010C	Total/NA
Vanadium	32.4		0.79	0.17	mg/Kg	1		✱	6010C	Total/NA
Zinc	93.9		3.2	1.0	mg/Kg	1		✱	6010C	Total/NA
Mercury	0.075		0.033	0.013	mg/Kg	1		✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

Client Sample ID: TOPSOIL COMP

Lab Sample ID: 480-118401-1

Date Collected: 05/22/17 14:00

Matrix: Solid

Date Received: 05/23/17 17:10

Percent Solids: 59.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	8.2	0.60	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
1,1,1,2,2-Tetrachloroethane	ND	vs	8.2	1.3	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
1,1,2-Trichloroethane	ND	vs	8.2	1.1	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	8.2	1.9	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
1,1-Dichloroethane	ND	vs	8.2	1.0	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
1,1-Dichloroethene	ND	vs	8.2	1.0	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
1,2,4-Trichlorobenzene	ND	vs	8.2	0.50	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
1,2-Dibromo-3-Chloropropane	ND	vs	8.2	4.1	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
1,2-Dichlorobenzene	ND	vs	8.2	0.64	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
1,2-Dichloroethane	ND	vs	8.2	0.41	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
1,2-Dichloropropane	ND	vs	8.2	4.1	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
1,3-Dichlorobenzene	ND	vs	8.2	0.42	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
1,4-Dichlorobenzene	ND	vs	8.2	1.2	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
2-Butanone (MEK)	ND	vs	41	3.0	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
2-Hexanone	ND	vs	41	4.1	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
4-Methyl-2-pentanone (MIBK)	ND	vs	41	2.7	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Acetone	ND	vs	41	6.9	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Benzene	ND	vs	8.2	0.40	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Bromodichloromethane	ND	vs	8.2	1.1	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Bromoform	ND	vs	8.2	4.1	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Bromomethane	ND	vs	8.2	0.74	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Carbon disulfide	ND	vs	8.2	4.1	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Carbon tetrachloride	ND	vs	8.2	0.80	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Chlorobenzene	ND	vs	8.2	1.1	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Dibromochloromethane	ND	vs	8.2	1.1	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Chloroethane	ND	vs	8.2	1.9	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Chloroform	ND	vs	8.2	0.51	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Chloromethane	ND	vs	8.2	0.50	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
cis-1,2-Dichloroethene	ND	vs	8.2	1.1	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
cis-1,3-Dichloropropene	ND	vs	8.2	1.2	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Cyclohexane	ND	vs	8.2	1.2	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Dichlorodifluoromethane	ND	vs	8.2	0.68	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Ethylbenzene	1.1	J vs	8.2	0.57	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
1,2-Dibromoethane	ND	vs	8.2	1.1	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Isopropylbenzene	ND	vs	8.2	1.2	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Methyl acetate	ND	vs	41	5.0	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Methyl tert-butyl ether	ND	vs	8.2	0.81	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Methylcyclohexane	ND	vs	8.2	1.3	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Methylene Chloride	ND	vs	8.2	3.8	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Styrene	ND	vs	8.2	0.41	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Tetrachloroethene	ND	vs	8.2	1.1	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Toluene	1.1	J vs	8.2	0.62	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
trans-1,2-Dichloroethene	ND	vs	8.2	0.85	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
trans-1,3-Dichloropropene	ND	vs	8.2	3.6	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Trichloroethene	ND	vs	8.2	1.8	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Trichlorofluoromethane	ND	vs	8.2	0.78	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Vinyl chloride	ND	vs	8.2	1.0	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1
Xylenes, Total	8.1	J vs	16	1.4	ug/Kg	☼	05/31/17 09:26	05/31/17 13:21	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

Client Sample ID: TOPSOIL COMP

Lab Sample ID: 480-118401-1

Date Collected: 05/22/17 14:00

Matrix: Solid

Date Received: 05/23/17 17:10

Percent Solids: 59.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	114		71 - 125	05/31/17 09:26	05/31/17 13:21	1
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	05/31/17 09:26	05/31/17 13:21	1
4-Bromofluorobenzene (Surr)	85		72 - 126	05/31/17 09:26	05/31/17 13:21	1
Dibromofluoromethane (Surr)	103		60 - 140	05/31/17 09:26	05/31/17 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1400	210	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
bis (2-chloroisopropyl) ether	ND		1400	280	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
2,4,5-Trichlorophenol	ND		1400	380	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
2,4,6-Trichlorophenol	ND		1400	280	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
2,4-Dichlorophenol	ND		1400	150	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
2,4-Dimethylphenol	ND		1400	340	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
2,4-Dinitrophenol	ND		14000	6500	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
2,4-Dinitrotoluene	ND		1400	290	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
2,6-Dinitrotoluene	ND		1400	170	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
2-Chloronaphthalene	ND		1400	230	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
2-Chlorophenol	ND		1400	260	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
2-Methylnaphthalene	ND		1400	280	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
2-Methylphenol	ND		1400	170	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
2-Nitroaniline	ND		2700	210	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
2-Nitrophenol	ND		1400	400	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
3,3'-Dichlorobenzidine	ND		2700	1700	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
3-Nitroaniline	ND		2700	390	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
4,6-Dinitro-2-methylphenol	ND		2700	1400	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
4-Bromophenyl phenyl ether	ND		1400	200	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
4-Chloro-3-methylphenol	ND		1400	350	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
4-Chloroaniline	ND		1400	350	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
4-Chlorophenyl phenyl ether	ND		1400	170	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
4-Methylphenol	ND		2700	170	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
4-Nitroaniline	ND		2700	740	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
4-Nitrophenol	ND		2700	990	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Acenaphthene	ND		1400	210	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Acenaphthylene	ND		1400	180	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Acetophenone	ND		1400	190	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Anthracene	ND		1400	350	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Atrazine	ND		1400	490	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Benzaldehyde	ND		1400	1100	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Benzo[a]anthracene	170 J		1400	140	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Benzo[a]pyrene	ND		1400	210	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Benzo[b]fluoranthene	270 J		1400	220	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Benzo[g,h,i]perylene	ND		1400	150	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Benzo[k]fluoranthene	ND		1400	180	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Bis(2-chloroethoxy)methane	ND		1400	300	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Bis(2-chloroethyl)ether	ND		1400	180	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Bis(2-ethylhexyl) phthalate	ND		1400	480	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Butyl benzyl phthalate	ND		1400	230	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Caprolactam	ND		1400	420	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Carbazole	ND		1400	170	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Chrysene	ND		1400	310	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

Client Sample ID: TOPSOIL COMP

Lab Sample ID: 480-118401-1

Date Collected: 05/22/17 14:00

Matrix: Solid

Date Received: 05/23/17 17:10

Percent Solids: 59.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		1400	240	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Di-n-octyl phthalate	ND		1400	170	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Dibenz(a,h)anthracene	ND		1400	250	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Dibenzofuran	ND		1400	170	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Diethyl phthalate	ND		1400	180	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Dimethyl phthalate	ND		1400	170	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Fluoranthene	320	J	1400	150	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Fluorene	ND		1400	170	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Hexachlorobenzene	ND		1400	190	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Hexachlorobutadiene	ND		1400	210	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Hexachlorocyclopentadiene	ND		1400	190	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Hexachloroethane	ND		1400	180	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Indeno[1,2,3-cd]pyrene	ND		1400	170	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Isophorone	ND		1400	300	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
N-Nitrosodi-n-propylamine	ND		1400	240	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
N-Nitrosodiphenylamine	ND		1400	1100	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Naphthalene	ND		1400	180	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Nitrobenzene	ND		1400	160	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Pentachlorophenol	ND		2700	1400	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Phenanthrene	ND		1400	210	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Phenol	ND		1400	220	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5
Pyrene	280	J	1400	170	ug/Kg	☼	05/24/17 10:03	05/25/17 11:51	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	93		54 - 120	05/24/17 10:03	05/25/17 11:51	5
2-Fluorobiphenyl	81		60 - 120	05/24/17 10:03	05/25/17 11:51	5
2-Fluorophenol	74		52 - 120	05/24/17 10:03	05/25/17 11:51	5
Nitrobenzene-d5	75		53 - 120	05/24/17 10:03	05/25/17 11:51	5
p-Terphenyl-d14	88		65 - 121	05/24/17 10:03	05/25/17 11:51	5
Phenol-d5	79		54 - 120	05/24/17 10:03	05/25/17 11:51	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		28	5.4	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
4,4'-DDE	13	J	28	5.8	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
4,4'-DDT	ND		28	6.4	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
Aldrin	ND		28	6.8	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
alpha-BHC	ND		28	5.0	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
alpha-Chlordane	ND		28	14	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
beta-BHC	ND		28	5.0	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
delta-BHC	ND		28	5.1	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
Dieldrin	ND		28	6.6	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
Endosulfan I	ND		28	5.3	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
Endosulfan II	ND		28	5.0	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
Endosulfan sulfate	ND		28	5.1	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
Endrin	ND		28	5.5	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
Endrin aldehyde	ND		28	7.0	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
Endrin ketone	ND		28	6.8	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
gamma-BHC (Lindane)	ND		28	5.1	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10
gamma-Chlordane	ND		28	8.8	ug/Kg	☼	05/25/17 06:43	05/25/17 16:48	10

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

Client Sample ID: TOPSOIL COMP

Lab Sample ID: 480-118401-1

Date Collected: 05/22/17 14:00

Matrix: Solid

Date Received: 05/23/17 17:10

Percent Solids: 59.5

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		28	6.0	ug/Kg	☆	05/25/17 06:43	05/25/17 16:48	10
Heptachlor epoxide	ND		28	7.1	ug/Kg	☆	05/25/17 06:43	05/25/17 16:48	10
Methoxychlor	ND		28	5.6	ug/Kg	☆	05/25/17 06:43	05/25/17 16:48	10
Toxaphene	ND		280	160	ug/Kg	☆	05/25/17 06:43	05/25/17 16:48	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	98		45 - 120				05/25/17 06:43	05/25/17 16:48	10
Tetrachloro-m-xylene	83		30 - 124				05/25/17 06:43	05/25/17 16:48	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F2	0.29	0.056	mg/Kg	☆	05/24/17 07:54	05/24/17 15:57	1
PCB-1221	ND		0.29	0.056	mg/Kg	☆	05/24/17 07:54	05/24/17 15:57	1
PCB-1232	ND		0.29	0.056	mg/Kg	☆	05/24/17 07:54	05/24/17 15:57	1
PCB-1242	ND		0.29	0.056	mg/Kg	☆	05/24/17 07:54	05/24/17 15:57	1
PCB-1248	ND		0.29	0.056	mg/Kg	☆	05/24/17 07:54	05/24/17 15:57	1
PCB-1254	ND		0.29	0.13	mg/Kg	☆	05/24/17 07:54	05/24/17 15:57	1
PCB-1260	ND	F2	0.29	0.13	mg/Kg	☆	05/24/17 07:54	05/24/17 15:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	101		60 - 154				05/24/17 07:54	05/24/17 15:57	1
DCB Decachlorobiphenyl	89		65 - 174				05/24/17 07:54	05/24/17 15:57	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19900		15.9	7.0	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Antimony	2.1	J	23.8	0.63	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Arsenic	3.9		3.2	0.63	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Barium	96.6		0.79	0.17	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Beryllium	0.58		0.32	0.044	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Cadmium	0.41		0.32	0.048	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Calcium	10800	B	79.3	5.2	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Chromium	23.1		0.79	0.32	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Cobalt	5.4		0.79	0.079	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Copper	18.3		1.6	0.33	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Iron	17300	^	15.9	5.5	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Lead	24.7		1.6	0.38	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Magnesium	4370		31.7	1.5	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Manganese	207	B	0.32	0.051	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Nickel	15.3		7.9	0.36	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Potassium	5010		47.6	31.7	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Selenium	1.7	J	6.3	0.63	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Silver	ND		0.95	0.32	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Sodium	161	J	222	20.6	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Thallium	ND		9.5	0.48	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Vanadium	32.4		0.79	0.17	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1
Zinc	93.9		3.2	1.0	mg/Kg	☆	05/24/17 15:56	05/25/17 12:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.075		0.033	0.013	mg/Kg	☆	05/24/17 10:15	05/24/17 14:15	1

TestAmerica Buffalo

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.7	0.81	mg/Kg	☼	05/25/17 11:40	05/25/17 15:14	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

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)			
		TOL (71-125)	12DCE (64-126)	BFB (72-126)	DBFM (60-140)
480-118401-1	TOPSOIL COMP	114	103	85	103
LCS 480-359750/1-A	Lab Control Sample	105	104	110	108
MB 480-359750/2-A	Method Blank	102	103	105	104

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (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)					
		TBP (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	TPH (65-121)	PHL (54-120)
480-118401-1	TOPSOIL COMP	93	81	74	75	88	79
LCS 480-358878/2-A	Lab Control Sample	91	85	78	77	93	82
MB 480-358878/1-A	Method Blank	83	78	77	72	90	80

Surrogate Legend

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

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (45-120)	TCX2 (30-124)
480-118401-1	TOPSOIL COMP	98	83
LCS 480-359031/2-A	Lab Control Sample	85	59
MB 480-359031/1-A	Method Blank	81	59

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (60-154)	DCB1 (65-174)
480-118401-1	TOPSOIL COMP	101	89
480-118401-1 MS	TOPSOIL COMP	143	127

TestAmerica Buffalo

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (60-154)	DCB1 (65-174)
480-118401-1 MSD	TOPSOIL COMP	106	100
LCS 480-358826/2-A	Lab Control Sample	147	144
MB 480-358826/1-A	Method Blank	119	115

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

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

Lab Sample ID: MB 480-359750/2-A

Matrix: Solid

Analysis Batch: 359727

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 359750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
2-Hexanone	ND		25	2.5	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Acetone	ND		25	4.2	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Benzene	ND		5.0	0.25	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Bromoform	ND		5.0	2.5	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Bromomethane	ND		5.0	0.45	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Chloroethane	ND		5.0	1.1	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Chloroform	ND		5.0	0.31	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Chloromethane	ND		5.0	0.30	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Cyclohexane	ND		5.0	0.70	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Methyl acetate	ND		25	3.0	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Styrene	ND		5.0	0.25	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Toluene	ND		5.0	0.38	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Trichloroethene	ND		5.0	1.1	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		05/31/17 09:26	05/31/17 12:46	1
Xylenes, Total	ND		10	0.84	ug/Kg		05/31/17 09:26	05/31/17 12:46	1

TestAmerica Buffalo

QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

<i>Surrogate</i>	<i>MB</i> <i>%Recovery</i>	<i>MB</i> <i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Toluene-d8 (Surr)	102		71 - 125	05/31/17 09:26	05/31/17 12:46	1
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	05/31/17 09:26	05/31/17 12:46	1
4-Bromofluorobenzene (Surr)	105		72 - 126	05/31/17 09:26	05/31/17 12:46	1
Dibromofluoromethane (Surr)	104		60 - 140	05/31/17 09:26	05/31/17 12:46	1

Lab Sample ID: LCS 480-359750/1-A

Matrix: Solid

Analysis Batch: 359727

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 359750

<i>Analyte</i>	<i>Spike</i> <i>Added</i>	<i>LCS</i> <i>Result</i>	<i>LCS</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>
1,1,1-Trichloroethane	50.0	46.2		ug/Kg		92	77 - 121
1,1,2,2-Tetrachloroethane	50.0	48.2		ug/Kg		96	80 - 120
1,1,2-Trichloroethane	50.0	49.1		ug/Kg		98	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	42.9		ug/Kg		86	60 - 140
1,1-Dichloroethane	50.0	45.8		ug/Kg		92	73 - 126
1,1-Dichloroethene	50.0	44.5		ug/Kg		89	59 - 125
1,2,4-Trichlorobenzene	50.0	46.3		ug/Kg		93	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	52.3		ug/Kg		105	63 - 124
1,2-Dichlorobenzene	50.0	46.8		ug/Kg		94	75 - 120
1,2-Dichloroethane	50.0	46.9		ug/Kg		94	77 - 122
1,2-Dichloropropane	50.0	47.0		ug/Kg		94	75 - 124
1,3-Dichlorobenzene	50.0	45.9		ug/Kg		92	74 - 120
1,4-Dichlorobenzene	50.0	46.1		ug/Kg		92	73 - 120
2-Butanone (MEK)	250	255		ug/Kg		102	70 - 134
2-Hexanone	250	258		ug/Kg		103	59 - 130
4-Methyl-2-pentanone (MIBK)	250	256		ug/Kg		102	65 - 133
Acetone	250	248		ug/Kg		99	61 - 137
Benzene	50.0	46.2		ug/Kg		92	79 - 127
Bromodichloromethane	50.0	49.9		ug/Kg		100	80 - 122
Bromoform	50.0	53.9		ug/Kg		108	68 - 126
Bromomethane	50.0	50.9		ug/Kg		102	37 - 149
Carbon disulfide	50.0	45.0		ug/Kg		90	64 - 131
Carbon tetrachloride	50.0	49.1		ug/Kg		98	75 - 135
Chlorobenzene	50.0	48.2		ug/Kg		96	76 - 124
Dibromochloromethane	50.0	54.9		ug/Kg		110	76 - 125
Chloroethane	50.0	47.8		ug/Kg		96	69 - 135
Chloroform	50.0	45.5		ug/Kg		91	80 - 120
Chloromethane	50.0	46.3		ug/Kg		93	63 - 127
cis-1,2-Dichloroethene	50.0	47.4		ug/Kg		95	81 - 120
cis-1,3-Dichloropropene	50.0	51.8		ug/Kg		104	80 - 120
Cyclohexane	50.0	41.7		ug/Kg		83	65 - 120
Dichlorodifluoromethane	50.0	48.5		ug/Kg		97	57 - 142
Ethylbenzene	50.0	46.7		ug/Kg		93	80 - 120
1,2-Dibromoethane	50.0	50.7		ug/Kg		101	78 - 120
Isopropylbenzene	50.0	44.9		ug/Kg		90	72 - 120
Methyl acetate	250	248		ug/Kg		99	55 - 136
Methyl tert-butyl ether	50.0	51.0		ug/Kg		102	63 - 125
Methylcyclohexane	50.0	41.6		ug/Kg		83	60 - 140
Methylene Chloride	50.0	47.6		ug/Kg		95	61 - 127
Styrene	50.0	47.5		ug/Kg		95	80 - 120
Tetrachloroethene	50.0	46.8		ug/Kg		94	74 - 122
Toluene	50.0	45.8		ug/Kg		92	74 - 128
trans-1,2-Dichloroethene	50.0	45.8		ug/Kg		92	78 - 126

TestAmerica Buffalo

QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

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

Lab Sample ID: LCS 480-359750/1-A

Matrix: Solid

Analysis Batch: 359727

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 359750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	50.0	52.2		ug/Kg		104	73 - 123
Trichloroethene	50.0	45.1		ug/Kg		90	77 - 129
Trichlorofluoromethane	50.0	49.0		ug/Kg		98	65 - 146
Vinyl chloride	50.0	47.1		ug/Kg		94	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	105		71 - 125
1,2-Dichloroethane-d4 (Surr)	104		64 - 126
4-Bromofluorobenzene (Surr)	110		72 - 126
Dibromofluoromethane (Surr)	108		60 - 140

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

Lab Sample ID: MB 480-358878/1-A

Matrix: Solid

Analysis Batch: 359053

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 358878

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
2-Chloronaphthalene	ND		170	28	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
2-Chlorophenol	ND		170	31	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
2-Methylnaphthalene	ND		170	34	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
2-Methylphenol	ND		170	20	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
2-Nitroaniline	ND		330	25	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
2-Nitrophenol	ND		170	48	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
3-Nitroaniline	ND		330	47	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
4-Chloroaniline	ND		170	42	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
4-Methylphenol	ND		330	20	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
4-Nitroaniline	ND		330	88	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
4-Nitrophenol	ND		330	120	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Acenaphthene	ND		170	25	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Acenaphthylene	ND		170	22	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Acetophenone	ND		170	23	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Anthracene	ND		170	42	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Atrazine	ND		170	59	ug/Kg		05/24/17 10:03	05/25/17 09:38	1

TestAmerica Buffalo

QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

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

Lab Sample ID: MB 480-358878/1-A

Matrix: Solid

Analysis Batch: 359053

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 358878

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	ND		170	130	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Benzo[a]anthracene	ND		170	17	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Benzo[a]pyrene	ND		170	25	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Caprolactam	ND		170	51	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Carbazole	ND		170	20	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Chrysene	ND		170	38	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Dibenzofuran	ND		170	20	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Diethyl phthalate	ND		170	22	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Dimethyl phthalate	ND		170	20	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Fluoranthene	ND		170	18	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Fluorene	ND		170	20	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Hexachlorobenzene	ND		170	23	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Hexachlorobutadiene	ND		170	25	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Hexachloroethane	ND		170	22	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Isophorone	ND		170	36	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Naphthalene	ND		170	22	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Nitrobenzene	ND		170	19	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Pentachlorophenol	ND		330	170	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Phenanthrene	ND		170	25	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Phenol	ND		170	26	ug/Kg		05/24/17 10:03	05/25/17 09:38	1
Pyrene	ND		170	20	ug/Kg		05/24/17 10:03	05/25/17 09:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	83		54 - 120	05/24/17 10:03	05/25/17 09:38	1
2-Fluorobiphenyl	78		60 - 120	05/24/17 10:03	05/25/17 09:38	1
2-Fluorophenol	77		52 - 120	05/24/17 10:03	05/25/17 09:38	1
Nitrobenzene-d5	72		53 - 120	05/24/17 10:03	05/25/17 09:38	1
p-Terphenyl-d14	90		65 - 121	05/24/17 10:03	05/25/17 09:38	1
Phenol-d5	80		54 - 120	05/24/17 10:03	05/25/17 09:38	1

TestAmerica Buffalo

QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

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

Lab Sample ID: LCS 480-358878/2-A

Matrix: Solid

Analysis Batch: 359053

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 358878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1660	1450		ug/Kg		87	59 - 120
bis (2-chloroisopropyl) ether	1660	1480		ug/Kg		89	44 - 120
2,4,5-Trichlorophenol	1660	1470		ug/Kg		88	59 - 126
2,4,6-Trichlorophenol	1660	1450		ug/Kg		87	59 - 123
2,4-Dichlorophenol	1660	1430		ug/Kg		86	61 - 120
2,4-Dimethylphenol	1660	1440		ug/Kg		87	59 - 120
2,4-Dinitrophenol	3320	2820		ug/Kg		85	41 - 146
2,4-Dinitrotoluene	1660	1470		ug/Kg		88	63 - 120
2,6-Dinitrotoluene	1660	1470		ug/Kg		89	66 - 120
2-Chloronaphthalene	1660	1470		ug/Kg		88	57 - 120
2-Chlorophenol	1660	1320		ug/Kg		79	53 - 120
2-Methylnaphthalene	1660	1420		ug/Kg		86	59 - 120
2-Methylphenol	1660	1370		ug/Kg		82	54 - 120
2-Nitroaniline	1660	1490		ug/Kg		90	61 - 120
2-Nitrophenol	1660	1340		ug/Kg		81	56 - 120
3,3'-Dichlorobenzidine	3320	2770		ug/Kg		83	54 - 120
3-Nitroaniline	1660	1280		ug/Kg		77	48 - 120
4,6-Dinitro-2-methylphenol	3320	2760		ug/Kg		83	49 - 122
4-Bromophenyl phenyl ether	1660	1500		ug/Kg		90	58 - 120
4-Chloro-3-methylphenol	1660	1410		ug/Kg		85	61 - 120
4-Chloroaniline	1660	1180		ug/Kg		71	38 - 120
4-Chlorophenyl phenyl ether	1660	1510		ug/Kg		91	63 - 124
4-Methylphenol	1660	1410		ug/Kg		85	55 - 120
4-Nitroaniline	1660	1410		ug/Kg		85	56 - 120
4-Nitrophenol	3320	2950		ug/Kg		89	43 - 147
Acenaphthene	1660	1520		ug/Kg		92	62 - 120
Acenaphthylene	1660	1490		ug/Kg		90	58 - 121
Acetophenone	1660	1320		ug/Kg		79	54 - 120
Anthracene	1660	1580		ug/Kg		95	62 - 120
Atrazine	3320	3040		ug/Kg		92	60 - 127
Benzaldehyde	3320	2780		ug/Kg		84	10 - 150
Benzo[a]anthracene	1660	1580		ug/Kg		95	65 - 120
Benzo[a]pyrene	1660	1610		ug/Kg		97	64 - 120
Benzo[b]fluoranthene	1660	1650		ug/Kg		99	64 - 120
Benzo[g,h,i]perylene	1660	1470		ug/Kg		89	45 - 145
Benzo[k]fluoranthene	1660	1630		ug/Kg		98	65 - 120
Bis(2-chloroethoxy)methane	1660	1400		ug/Kg		85	55 - 120
Bis(2-chloroethyl)ether	1660	1270		ug/Kg		77	45 - 120
Bis(2-ethylhexyl) phthalate	1660	1580		ug/Kg		95	61 - 133
Butyl benzyl phthalate	1660	1600		ug/Kg		96	61 - 129
Caprolactam	3320	2870		ug/Kg		86	47 - 120
Carbazole	1660	1580		ug/Kg		95	65 - 120
Chrysene	1660	1590		ug/Kg		95	64 - 120
Di-n-butyl phthalate	1660	1580		ug/Kg		95	58 - 130
Di-n-octyl phthalate	1660	1540		ug/Kg		93	57 - 133
Dibenz(a,h)anthracene	1660	1510		ug/Kg		91	54 - 132
Dibenzofuran	1660	1490		ug/Kg		90	63 - 120
Diethyl phthalate	1660	1510		ug/Kg		91	66 - 120

TestAmerica Buffalo

QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

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

Lab Sample ID: LCS 480-358878/2-A

Matrix: Solid

Analysis Batch: 359053

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 358878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	1660	1530		ug/Kg		92	65 - 124
Fluoranthene	1660	1530		ug/Kg		92	62 - 120
Fluorene	1660	1510		ug/Kg		91	63 - 120
Hexachlorobenzene	1660	1590		ug/Kg		96	60 - 120
Hexachlorobutadiene	1660	1290		ug/Kg		77	45 - 120
Hexachlorocyclopentadiene	1660	1410		ug/Kg		85	47 - 120
Hexachloroethane	1660	1200		ug/Kg		72	41 - 120
Indeno[1,2,3-cd]pyrene	1660	1530		ug/Kg		92	56 - 134
Isophorone	1660	1440		ug/Kg		86	56 - 120
N-Nitrosodi-n-propylamine	1660	1360		ug/Kg		82	52 - 120
Naphthalene	1660	1320		ug/Kg		80	55 - 120
Nitrobenzene	1660	1330		ug/Kg		80	54 - 120
Pentachlorophenol	3320	2860		ug/Kg		86	51 - 120
Phenanthrene	1660	1600		ug/Kg		97	60 - 120
Phenol	1660	1340		ug/Kg		81	53 - 120
Pyrene	1660	1630		ug/Kg		98	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	91		54 - 120
2-Fluorobiphenyl	85		60 - 120
2-Fluorophenol	78		52 - 120
Nitrobenzene-d5	77		53 - 120
p-Terphenyl-d14	93		65 - 121
Phenol-d5	82		54 - 120

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-359031/1-A

Matrix: Solid

Analysis Batch: 359070

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 359031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.32	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
4,4'-DDE	ND		1.6	0.34	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
4,4'-DDT	ND		1.6	0.38	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
Aldrin	ND		1.6	0.40	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
alpha-BHC	ND		1.6	0.29	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
alpha-Chlordane	ND		1.6	0.81	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
beta-BHC	ND		1.6	0.29	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
delta-BHC	ND		1.6	0.30	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
Dieldrin	ND		1.6	0.39	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
Endosulfan I	ND		1.6	0.31	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
Endosulfan II	ND		1.6	0.29	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
Endosulfan sulfate	ND		1.6	0.30	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
Endrin	ND		1.6	0.32	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
Endrin aldehyde	ND		1.6	0.42	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
Endrin ketone	ND		1.6	0.40	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
gamma-BHC (Lindane)	ND		1.6	0.30	ug/Kg		05/25/17 06:43	05/25/17 15:10	1

TestAmerica Buffalo

QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-359031/1-A

Matrix: Solid

Analysis Batch: 359070

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 359031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane	ND		1.6	0.52	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
Heptachlor	ND		1.6	0.35	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
Heptachlor epoxide	ND		1.6	0.42	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
Methoxychlor	ND		1.6	0.33	ug/Kg		05/25/17 06:43	05/25/17 15:10	1
Toxaphene	ND		16	9.5	ug/Kg		05/25/17 06:43	05/25/17 15:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	81		45 - 120	05/25/17 06:43	05/25/17 15:10	1
Tetrachloro-m-xylene	59		30 - 124	05/25/17 06:43	05/25/17 15:10	1

Lab Sample ID: LCS 480-359031/2-A

Matrix: Solid

Analysis Batch: 359070

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 359031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.4	12.9		ug/Kg		79	56 - 120
4,4'-DDE	16.4	11.7		ug/Kg		71	44 - 120
4,4'-DDT	16.4	12.5		ug/Kg		76	38 - 120
Aldrin	16.4	8.36		ug/Kg		51	38 - 120
alpha-BHC	16.4	9.89		ug/Kg		60	39 - 120
alpha-Chlordane	16.4	11.1		ug/Kg		68	47 - 120
beta-BHC	16.4	10.5		ug/Kg		64	40 - 120
delta-BHC	16.4	11.4		ug/Kg		69	45 - 120
Dieldrin	16.4	12.1		ug/Kg		74	58 - 120
Endosulfan I	16.4	10.6		ug/Kg		65	49 - 120
Endosulfan II	16.4	11.7		ug/Kg		71	55 - 120
Endosulfan sulfate	16.4	12.8		ug/Kg		78	49 - 124
Endrin	16.4	12.4		ug/Kg		76	58 - 120
Endrin aldehyde	16.4	12.0		ug/Kg		73	37 - 121
Endrin ketone	16.4	12.1		ug/Kg		73	46 - 123
gamma-BHC (Lindane)	16.4	10.7		ug/Kg		65	50 - 120
gamma-Chlordane	16.4	11.1		ug/Kg		68	48 - 120
Heptachlor	16.4	11.5		ug/Kg		70	50 - 120
Heptachlor epoxide	16.4	11.8		ug/Kg		72	50 - 120
Methoxychlor	16.4	13.9		ug/Kg		85	58 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	85		45 - 120
Tetrachloro-m-xylene	59		30 - 124

TestAmerica Buffalo

QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

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

Lab Sample ID: MB 480-358826/1-A

Matrix: Solid

Analysis Batch: 358923

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 358826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg		05/24/17 07:54	05/24/17 14:54	1
PCB-1221	ND		0.24	0.047	mg/Kg		05/24/17 07:54	05/24/17 14:54	1
PCB-1232	ND		0.24	0.047	mg/Kg		05/24/17 07:54	05/24/17 14:54	1
PCB-1242	ND		0.24	0.047	mg/Kg		05/24/17 07:54	05/24/17 14:54	1
PCB-1248	ND		0.24	0.047	mg/Kg		05/24/17 07:54	05/24/17 14:54	1
PCB-1254	ND		0.24	0.11	mg/Kg		05/24/17 07:54	05/24/17 14:54	1
PCB-1260	ND		0.24	0.11	mg/Kg		05/24/17 07:54	05/24/17 14:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	119		60 - 154	05/24/17 07:54	05/24/17 14:54	1
DCB Decachlorobiphenyl	115		65 - 174	05/24/17 07:54	05/24/17 14:54	1

Lab Sample ID: LCS 480-358826/2-A

Matrix: Solid

Analysis Batch: 358923

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 358826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.40	3.45		mg/Kg		143	51 - 185
PCB-1260	2.40	3.20		mg/Kg		133	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	147		60 - 154
DCB Decachlorobiphenyl	144		65 - 174

Lab Sample ID: 480-118401-1 MS

Matrix: Solid

Analysis Batch: 358923

Client Sample ID: TOPSOIL COMP

Prep Type: Total/NA

Prep Batch: 358826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND	F2	3.80	4.12		mg/Kg	☼	108	50 - 177
PCB-1260	ND	F2	3.80	3.32		mg/Kg	☼	87	33 - 200

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	143		60 - 154
DCB Decachlorobiphenyl	127		65 - 174

Lab Sample ID: 480-118401-1 MSD

Matrix: Solid

Analysis Batch: 358923

Client Sample ID: TOPSOIL COMP

Prep Type: Total/NA

Prep Batch: 358826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
PCB-1016	ND	F2	3.20	2.10	F2	mg/Kg	☼	66	50 - 177	65	50
PCB-1260	ND	F2	3.20	1.74	F2	mg/Kg	☼	54	33 - 200	63	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	106		60 - 154
DCB Decachlorobiphenyl	100		65 - 174

TestAmerica Buffalo

QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-358953/1-A

Matrix: Solid

Analysis Batch: 359164

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 358953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	4.4	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Antimony	ND		14.9	0.40	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Arsenic	ND		2.0	0.40	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Barium	ND		0.50	0.11	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Beryllium	ND		0.20	0.028	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Cadmium	ND		0.20	0.030	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Calcium	3.95	J	49.8	3.3	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Chromium	ND		0.50	0.20	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Cobalt	ND		0.50	0.050	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Copper	ND		1.0	0.21	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Iron	ND	^	10	3.5	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Lead	ND		1.0	0.24	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Magnesium	ND		19.9	0.92	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Manganese	0.0547	J ^	0.20	0.032	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Nickel	ND		5.0	0.23	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Potassium	ND		29.9	19.9	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Selenium	ND		4.0	0.40	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Silver	ND		0.60	0.20	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Sodium	ND		139	12.9	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Thallium	ND		6.0	0.30	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Vanadium	ND		0.50	0.11	mg/Kg		05/24/17 15:56	05/25/17 11:14	1
Zinc	ND		2.0	0.64	mg/Kg		05/24/17 15:56	05/25/17 11:14	1

Lab Sample ID: LCSSRM 480-358953/2-A

Matrix: Solid

Analysis Batch: 359164

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 358953

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	8080	8936		mg/Kg		110.6	39.6 - 160.9
Antimony	123	77.79		mg/Kg		63.2	19.9 - 252.0
Arsenic	145	121.1		mg/Kg		83.5	70.3 - 136.6
Barium	209	173.8		mg/Kg		83.2	73.7 - 126.8
Beryllium	97.3	81.24		mg/Kg		83.5	74.5 - 125.4
Cadmium	87.6	68.72		mg/Kg		78.4	73.3 - 126.7
Calcium	5690	4752		mg/Kg		83.5	73.5 - 126.5
Chromium	143	118.3		mg/Kg		82.7	69.9 - 129.4
Cobalt	154	145.6		mg/Kg		94.5	74.0 - 125.3
Copper	173	143.2		mg/Kg		82.8	75.1 - 124.3
Iron	15000	15300	^	mg/Kg		102.0	37.1 - 163.3

TestAmerica Buffalo

QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

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

Lab Sample ID: LCSSRM 480-358953/2-A

Matrix: Solid

Analysis Batch: 359164

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 358953

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	146	137.2		mg/Kg		94.0	73.3 - 126.7
Magnesium	2640	2326		mg/Kg		88.1	64.4 - 136.0
Manganese	309	260.1	^	mg/Kg		84.2	74.8 - 125.2
Nickel	129	122.3		mg/Kg		94.8	73.0 - 127.1
Potassium	2400	2420		mg/Kg		100.8	60.4 - 140.0
Selenium	178	145.0		mg/Kg		81.5	68.0 - 131.5
Silver	31.3	24.74		mg/Kg		79.0	65.2 - 134.5
Sodium	869	716.4		mg/Kg		82.4	58.6 - 141.5
Thallium	141	135.1		mg/Kg		95.8	68.4 - 121.3
Vanadium	115	102.1		mg/Kg		88.8	67.5 - 122.6
Zinc	194	156.3		mg/Kg		80.6	69.6 - 118.0

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-358875/1-A

Matrix: Solid

Analysis Batch: 358977

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 358875

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0080	mg/Kg		05/24/17 10:15	05/24/17 14:12	1

Lab Sample ID: LCSSRM 480-358875/2-A ^10

Matrix: Solid

Analysis Batch: 358977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 358875

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	12.6	14.15		mg/Kg		112.3	44.4 - 128.6

Lab Sample ID: 480-118401-1 MS

Matrix: Solid

Analysis Batch: 358977

Client Sample ID: TOPSOIL COMP

Prep Type: Total/NA

Prep Batch: 358875

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.075		0.519	0.580		mg/Kg	☆	97	80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

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

Lab Sample ID: 480-118401-1 MSD

Matrix: Solid

Analysis Batch: 358977

Client Sample ID: TOPSOIL COMP

Prep Type: Total/NA

Prep Batch: 358875

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.075		0.567	0.674		mg/Kg	✱	106	80 - 120	15	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-359150/1-A

Matrix: Solid

Analysis Batch: 359205

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 359150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.95	0.46	mg/Kg		05/25/17 11:40	05/25/17 15:06	1

Lab Sample ID: LCSSRM 480-359150/2-A

Matrix: Solid

Analysis Batch: 359205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 359150

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	39.6	47.86		mg/Kg		120.9	33.3 - 195.2

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

GC/MS VOA

Analysis Batch: 359727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118401-1	TOPSOIL COMP	Total/NA	Solid	8260C	359750
MB 480-359750/2-A	Method Blank	Total/NA	Solid	8260C	359750
LCS 480-359750/1-A	Lab Control Sample	Total/NA	Solid	8260C	359750

Prep Batch: 359750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118401-1	TOPSOIL COMP	Total/NA	Solid	5035A_L	
MB 480-359750/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-359750/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

GC/MS Semi VOA

Prep Batch: 358878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118401-1	TOPSOIL COMP	Total/NA	Solid	3550C	
MB 480-358878/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-358878/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 359053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118401-1	TOPSOIL COMP	Total/NA	Solid	8270D	358878
MB 480-358878/1-A	Method Blank	Total/NA	Solid	8270D	358878
LCS 480-358878/2-A	Lab Control Sample	Total/NA	Solid	8270D	358878

GC Semi VOA

Prep Batch: 358826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118401-1	TOPSOIL COMP	Total/NA	Solid	3550C	
MB 480-358826/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-358826/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-118401-1 MS	TOPSOIL COMP	Total/NA	Solid	3550C	
480-118401-1 MSD	TOPSOIL COMP	Total/NA	Solid	3550C	

Analysis Batch: 358923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118401-1	TOPSOIL COMP	Total/NA	Solid	8082A	358826
MB 480-358826/1-A	Method Blank	Total/NA	Solid	8082A	358826
LCS 480-358826/2-A	Lab Control Sample	Total/NA	Solid	8082A	358826
480-118401-1 MS	TOPSOIL COMP	Total/NA	Solid	8082A	358826
480-118401-1 MSD	TOPSOIL COMP	Total/NA	Solid	8082A	358826

Prep Batch: 359031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118401-1	TOPSOIL COMP	Total/NA	Solid	3550C	
MB 480-359031/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-359031/2-A	Lab Control Sample	Total/NA	Solid	3550C	

TestAmerica Buffalo

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

GC Semi VOA (Continued)

Analysis Batch: 359070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118401-1	TOPSOIL COMP	Total/NA	Solid	8081B	359031
MB 480-359031/1-A	Method Blank	Total/NA	Solid	8081B	359031
LCS 480-359031/2-A	Lab Control Sample	Total/NA	Solid	8081B	359031

Metals

Prep Batch: 358875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118401-1	TOPSOIL COMP	Total/NA	Solid	7471B	
MB 480-358875/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-358875/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	
480-118401-1 MS	TOPSOIL COMP	Total/NA	Solid	7471B	
480-118401-1 MSD	TOPSOIL COMP	Total/NA	Solid	7471B	

Prep Batch: 358953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118401-1	TOPSOIL COMP	Total/NA	Solid	3050B	
MB 480-358953/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-358953/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 358977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118401-1	TOPSOIL COMP	Total/NA	Solid	7471B	358875
MB 480-358875/1-A	Method Blank	Total/NA	Solid	7471B	358875
LCSSRM 480-358875/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	358875
480-118401-1 MS	TOPSOIL COMP	Total/NA	Solid	7471B	358875
480-118401-1 MSD	TOPSOIL COMP	Total/NA	Solid	7471B	358875

Analysis Batch: 359164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118401-1	TOPSOIL COMP	Total/NA	Solid	6010C	358953
MB 480-358953/1-A	Method Blank	Total/NA	Solid	6010C	358953
LCSSRM 480-358953/2-A	Lab Control Sample	Total/NA	Solid	6010C	358953

General Chemistry

Analysis Batch: 358989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118401-1	TOPSOIL COMP	Total/NA	Solid	Moisture	

Prep Batch: 359150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118401-1	TOPSOIL COMP	Total/NA	Solid	9012B	
MB 480-359150/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 480-359150/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 359205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118401-1	TOPSOIL COMP	Total/NA	Solid	9012B	359150
MB 480-359150/1-A	Method Blank	Total/NA	Solid	9012B	359150

TestAmerica Buffalo

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

General Chemistry (Continued)

Analysis Batch: 359205 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 480-359150/2-A	Lab Control Sample	Total/NA	Solid	9012B	359150

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

Client Sample ID: TOPSOIL COMP

Lab Sample ID: 480-118401-1

Date Collected: 05/22/17 14:00

Matrix: Solid

Date Received: 05/23/17 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	358989	05/24/17 15:58	CMK	TAL BUF

Client Sample ID: TOPSOIL COMP

Lab Sample ID: 480-118401-1

Date Collected: 05/22/17 14:00

Matrix: Solid

Date Received: 05/23/17 17:10

Percent Solids: 59.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			359750	05/31/17 09:26	JAS	TAL BUF
Total/NA	Analysis	8260C		1	359727	05/31/17 13:21	JAS	TAL BUF
Total/NA	Prep	3550C			358878	05/24/17 10:03	RJS	TAL BUF
Total/NA	Analysis	8270D		5	359053	05/25/17 11:51	LMW	TAL BUF
Total/NA	Prep	3550C			359031	05/25/17 06:43	RJS	TAL BUF
Total/NA	Analysis	8081B		10	359070	05/25/17 16:48	MAN	TAL BUF
Total/NA	Prep	3550C			358826	05/24/17 07:54	NMC	TAL BUF
Total/NA	Analysis	8082A		1	358923	05/24/17 15:57	JMO	TAL BUF
Total/NA	Prep	3050B			358953	05/24/17 15:56	MJW	TAL BUF
Total/NA	Analysis	6010C		1	359164	05/25/17 12:54	AMH	TAL BUF
Total/NA	Prep	7471B			358875	05/24/17 10:15	JRK	TAL BUF
Total/NA	Analysis	7471B		1	358977	05/24/17 14:15	JRK	TAL BUF
Total/NA	Prep	9012B			359150	05/25/17 11:40	LAW	TAL BUF
Total/NA	Analysis	9012B		1	359205	05/25/17 15:14	KRT	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

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

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	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
9012B	Cyanide, Total and/or Amenable	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: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - 256 W. Genesee site

TestAmerica Job ID: 480-118401-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-118401-1	TOPSOIL COMP	Solid	05/22/17 14:00	05/23/17 17:10

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Chain of Custody Record

Temperature on Receipt _____

THE LEADER IN ENVIRONMENTAL TESTING

Drinking Water? Yes ☐ No ☒

TAL-4124 (1007)

[illegible]

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

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-118401-1

Login Number: 118401

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

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	