PERIODIC REVIEW REPORT (PRR)

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

May 2020

B0222-019-001

Prepared For:

295 Maryland, LLC

Prepared By:

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

2558 Hamburg Turnpike, Suite 300, Buffalo, New York 14218 | phone: (716) 856-0635 | fax: (716) 856-0583

PERIODIC REVIEW REPORT

295 MARYLAND STREET SITE
(BCP SITE NO. C915242)

BUFFALO, NEW YORK

May 2020 B0222-020-001

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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APPENDICIES

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 April 16, 2019 to April 16, 2020 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).

As discussed in the Final Engineering Report (FER – Ref 3) The 129 West Avenue portion of the Site was temporarily covered in anticipation of a new building. Construction began in early 2019, with the 129 West Avenue parcel currently being redeveloped as a four-story apartment building deemed "Campus West" (see Figure 2). Site improvement activities completed during this PRR reporting period are described more fully in Section 4.2 in support of the Campus West building development activities.

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, with an additional 4 story apartment building currently under construction.

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 on May 6, 2020 the Site was fully compliant with the NYSDEC- approved SMP dated November 2015.

The 129 West Avenue parcel portion of the Site, located on the southwest corner of the property along Maryland Street and West Avenue, is currently undergoing redevelopment of a new four-story apartment building (deemed the "Campus West" building). Redevelopment activities performed during this April 16, 2019 to April 16, 2020 PRR reporting period included excavation and removal of the existing temporary cover system material and underlying fill and native soils in the area of the Campus West building foundation and import of clean stone backfill for building construction activities. Benchmark provided oversight for ground-intrusive activities for the Campus West building in conformance with the NYSDEC approved SMP Excavation Work Plan (EWP) requirements. All redevelopment activities were fully compliant with the NYSDEC approved SMP at the time of the Site inspection.

1.4 Recommendations

Based on the results of the annual inspection and certification, no modifications are recommended at this time under the assumption that the Campus West building disturbance will continue to be constructed in accordance with the NYSDEC approved SMP and EWP.

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 6NYCRR 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 re-graded 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 6, 2020 to visually observe and document 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.

As indicated above, the building construction activities contemplated in the FER on 129 West Avenue parcel are currently underway. These activities necessitated removal of the majority of the temporary cover system on 129 West Avenue as well as removal and disposal of all underlying fill material. Benchmark is providing field oversight during ground-intrusive construction activities including community air monitoring, and assistance in coordinating and documenting soil/fill disposal at an approved landfill or, in the case of native soils, at a BUD reuse site and clean stone import.

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 actives. 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 (April 16, 2019 to April 16, 2020), Site redevelopment activities occurred that involved continued excavation of fill and native soils for the Campus West Building foundation on the 129 West Avenue parcel portion of the

Site[1], and import of NYSDEC approved clean backfill for construction activities (see Figure 2). Intrusive activities were observed by Benchmark personnel to verify conformance with the SMP and the EWP.

4.2.2 Soil/Fill Removal

4.2.2.1 BUD Material

Between April 16 and April 21, 2019 approximately 1,950 cubic yards of clean native material from the 129 West Avenue portion of the Site was excavated, direct loaded, and transported by Holler Trucking to an NYSDEC-approved BUD reuse Site, 1827 Fillmore Avenue BCP Site (C915279), to be used as part of the cover system or as remedial excavation backfill. DEC correspondence and approvals related to the reuse of native materials and soil/fill delivery log sheets are provided in Appendix C.

4.2.2.2 Non-Hazardous Material

On April 18, 2019, approximately 385 tons of non-hazardous soil/fill was excavated from the area of the Campus West Building foundation, direct loaded, and transported off-Site by Pariso Logistics (9A-826) for disposal at the Town of Tonawanda Landfill, located on East Park Road, Tonawanda NY (EnSol, Inc.) in accordance with the SMP for disposal. Disposal documents are provided in Appendix C.

4.2.3 Imported Materials

Between April 16 and May 24, 2019, approximately 295 tons of DEC-approved virgin source 2-inch crusher run stone and approximately 580 tons of DEC-approved virgin source clean No. 1 stone was imported to the Site from Lafarge - Lockport Quarry, located in Lockport, New York and used for building subgrade construction activities. These are the same sources used during pre-COC redevelopment of the Site. At that time, NYSDEC was provided specifications demonstrating the 2" crusher run material met restricted residential import criteria and the No. 1 clean stone was exempt from analytical testing due to minimal

[1] Initial excavation activities to remove the cover system and shallow underlying fill soils are documented in the 2019 PRR.

fines content in accordance with DER-10 Section 5.4(e)(5)(i). The NYSDEC was consulted concerning continued use of stone materials from this permitted commercial mining facility for the subgrade foundation/slab support and approved the import. Import material documents including tonnage and stone ticket summaries, and NYSDEC communications are included in Appendix D.

4.2.4 Community Air Monitoring Program (CAMP) Results

Community air monitoring was performed at a downwind location during all activities involving disturbance of impacted fill material at the Site. A Community Air Monitoring Program (CAMP) was included with the Health and Safety Plan (HASP) in the NYSDEC approved SMP. Per the CAMP, action limits of 100 ug/m^3 for respirable particulates and 5 parts per million (ppm) were employed. No exceedances of the 15-minute time weighted average (TWA) thresholds were recorded during intrusive activities. Copies of CAMP data sheets are provided in Appendix E.

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 6, 2020. 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. Additional interim inspections of the Campus West construction were conducted during the reporting period by Caroline Bukowski, EIT, under the employ of Mr. Forbes. 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. The disturbances to the cover system in the Campus West Building redevelopment area are conformant with the Excavation Work Plan in that:

- All of the temporary cover and underlying fill materials were removed to the native clay soils and properly disposed offsite.

- Native soils have been documented through both the RI sampling program and more recent reuse analyses to fall well below restricted residential SCOs.

- The disturbed area will be covered by a new building foundation, floor slab, pavement, and a minimum 2 feet of landscaped areas with approved import soil.

Benchmark has observed all intrusive activities that have occurred during this PRR reporting period to verify compliance with the NYSDEC approved SMP. No observable indication of intrusive activities was noted during the Site inspection beyond those described in Section 4.2. The existing 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 2020 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

Benchmark personnel will continue to provide field construction oversight including soil and fill management, community air monitoring for intrusive activities, and field documentation for the duration of the redevelopment activities in accordance with the EWP.

Benchmark personnel will be present during construction of the BCP cover elements to verify that hardscape cover elements, subbase, and cover material thicknesses are constructed in general accordance with the municipally-approved civil design and that soil cover areas are constructed in accordance with Part 375 and DER-10 requirements. The planned cover system layout for the redevelopment area is provided on Figure 3.

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 requires an evaluation of the potential for vapor intrusion in the onsite building prior to occupancy, which based upon the current schedule for construction is anticipated to occur coincidental with the start of the 2020 fall heating season.

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. A portion of the Site is currently undergoing redevelopment with intrusive activities undergoing monitoring by a QEP in conformance with the approved SMP and EWP.
- Post-remedial SVI sampling must be performed prior to new building occupancy and during the heating season, if those events do not coincide.
- No other modifications are recommended at this time under the assumption that the Campus West Building on the southwest corner of the property along Maryland Street and West Avenue will continue to be constructed in accordance with the NYSDEC approved SMP and EWP.

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.

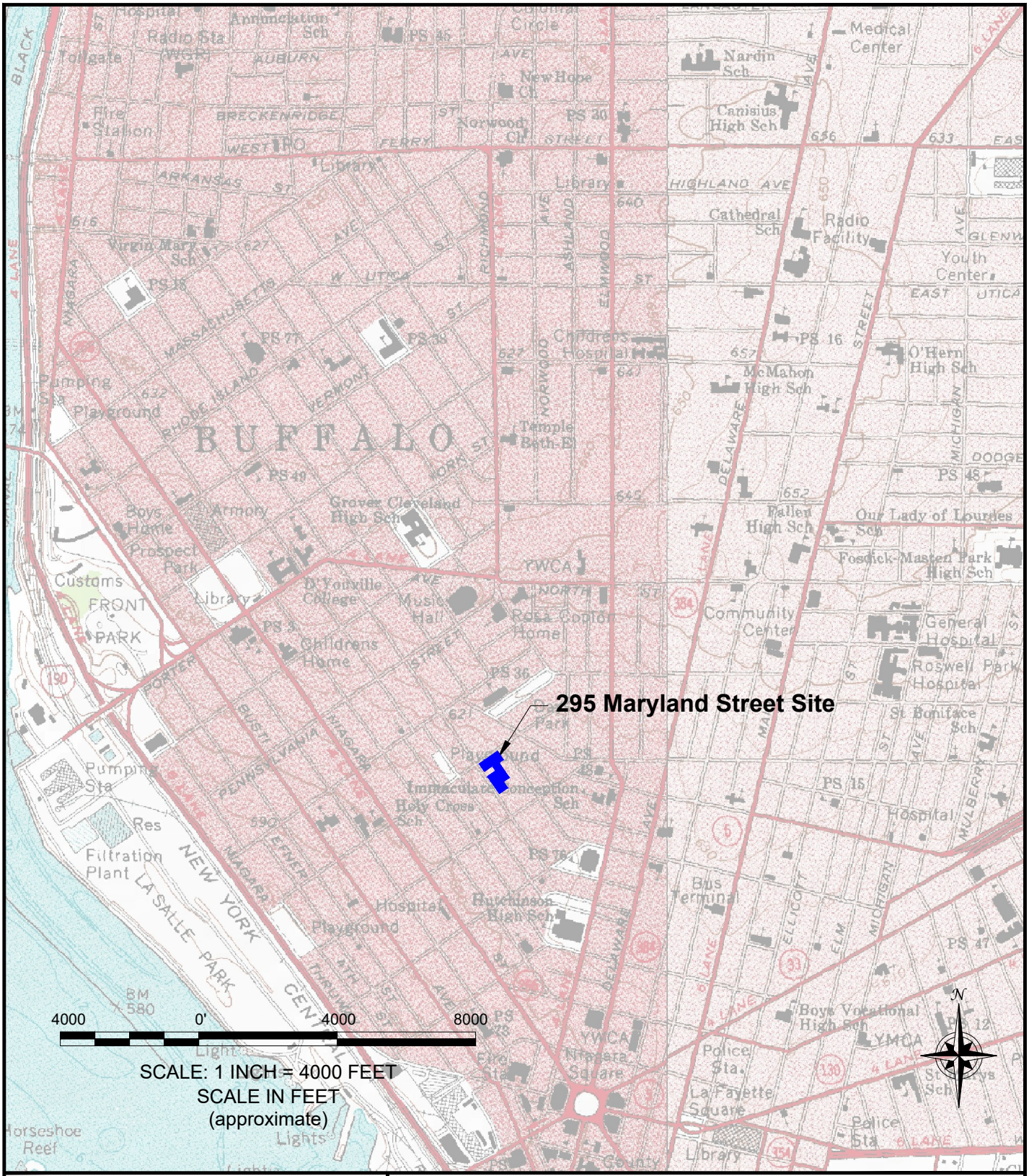
2. *Site Management Plan, 295 Maryland Street Site, Buffalo, NY (NYSDEC BCP Site #C915242),* dated November 2015, prepared by Benchmark Environmental Engineering and Science, PLLC.

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

F:\CAD\Benchmark\295 Maryland\PRR\2020\Figure 1 - Site Location and Vicinity Map.dwg

FIGURE 1



BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

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

PROJECT NO.: 0222-020-001

DATE: MAY 2020

DRAFTED BY: CCB

SITE LOCATION AND VICINITY MAP

PERIODIC REVIEW REPORT

295 MARYLAND STREET SITE
BUFFALO, NEW YORK

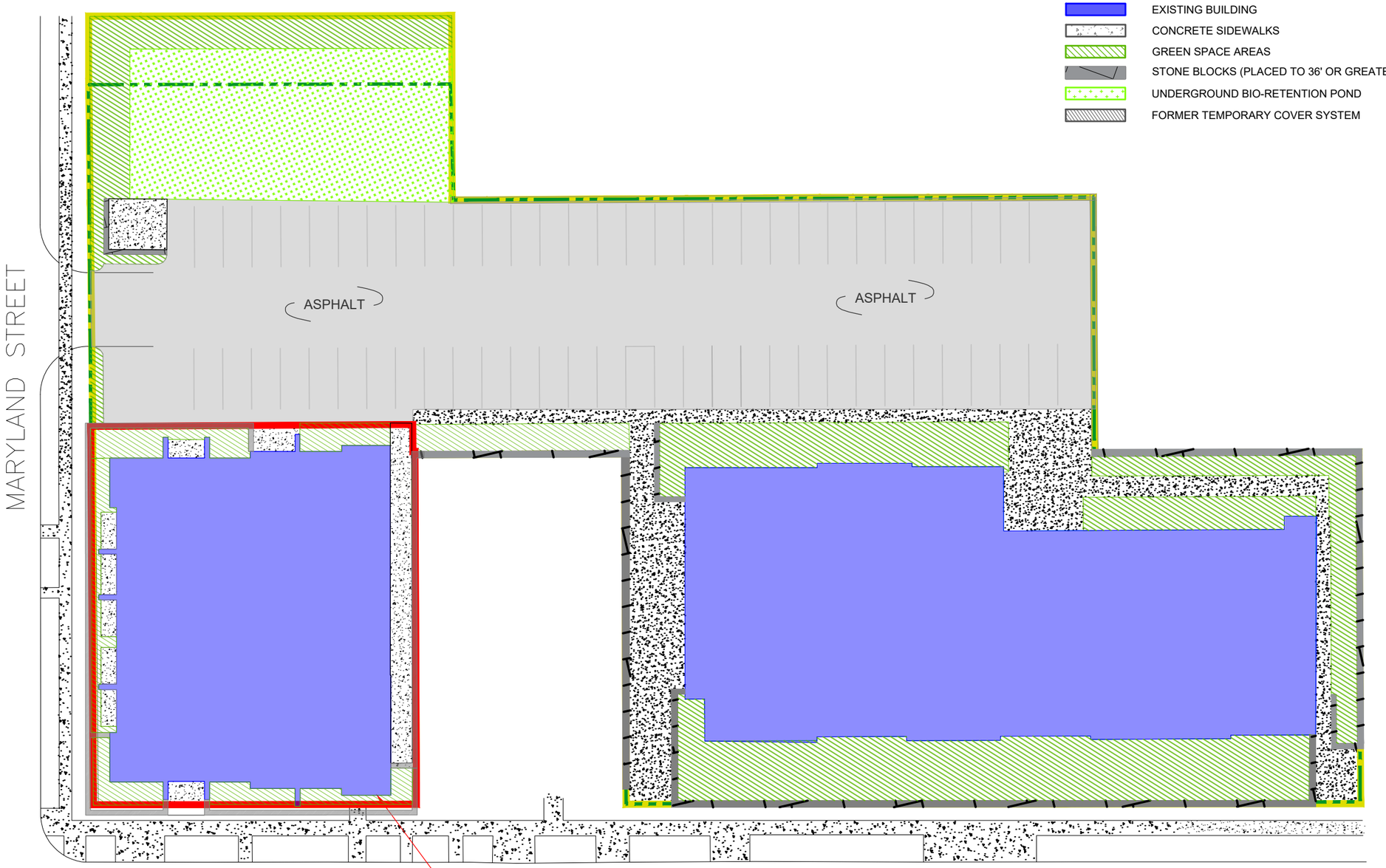
PREPARED FOR

295 MARYLAND, LLC

F:\CAD\Benchmark\295 Maryland\PRR\2020\Figure 2; Site Plan.dwg

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
- FORMER TEMPORARY COVER SYSTEM



35' 0' 35' 70'

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

DATE: MAY 2019
DRAFTED BY: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
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SUITE 300
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JOB NO.: B0222-018-100

SITE PLAN & SITE IMPROVEMENT ACTIVITY LOCATION MAP

PERIODIC REVIEW REPORT

295 MARYLAND STREET SITE
BUFFALO, NEW YORK

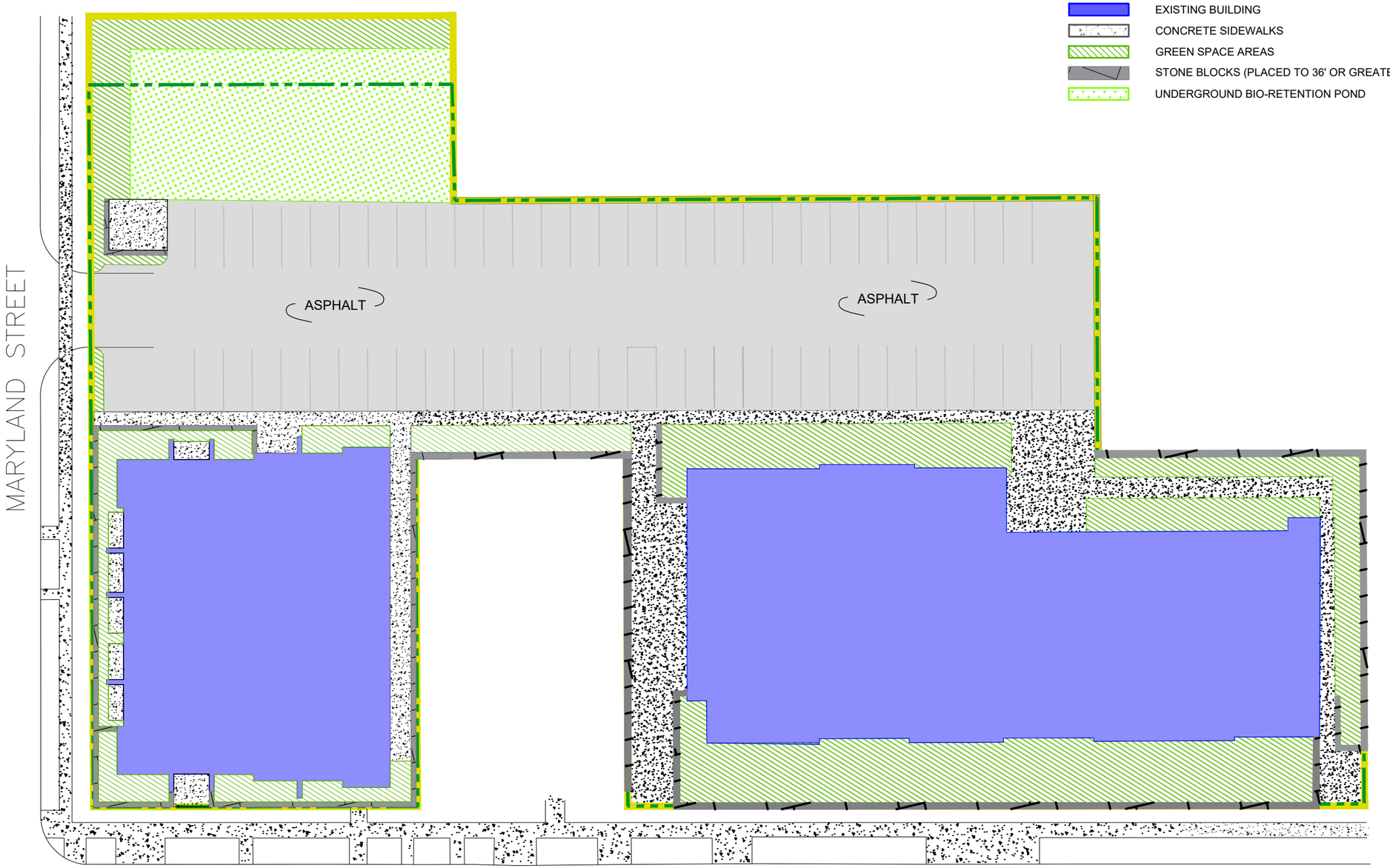
PREPARED FOR
295 MARYLAND, LLC

FIGURE 2

F:\CAD\Benchmark\295 Maryland\PRR\2020\Figure 3; Planned Site-Wide Cover System Layout.dwg

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



35' 0' 35' 70'

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

DATE: MAY 2020
DRAFTED BY: CCB

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

JOB NO.: B0222-020-100

PLANNED SITE-WIDE COVER SYSTEM LAYOUT

PERIODIC REVIEW REPORT

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

FIGURE 3

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 Details **Box 1**

Site No. **C915242**

Site Name 295 Maryland Street

Site Address: 295 MARYLAND STREET Zip Code: 14201
City/Town: Buffalo
County: Erie
Site Acreage: 1.480

Reporting Period: April 16, 2019 to April 16, 2020

	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

Parcel	Owner	Institutional Control
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

Parcel	Engineering Control
111.21-8-1.1	Cover System
111.21-8-3.111	Cover System Cover System

Box 5

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 compete.

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. LoRusso (print name) at 366 Elmwood Avenue, Buffalo, NY, 14222 (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. LoRusso
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

5-12-2020
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer 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 Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Buffalo, NY 14218,

print name — print business address

am certifying as a Professional Engineer for the Owner

(Owner or Remedial Party)

STATE OF NEW YORK THOMAS H. FORBES LICENSED PROFESSIONAL ENGINEER (Required for PE)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp

5-7-2020

Date

APPENDIX B

PHOTOGRAPHIC LOG

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site (C915242)	B0222-019-001

Photo No.	Date
1	04/16/19

Direction Photo Taken:
Southeast

Description:
Site Improvement Activities: Excavation and removal of soil/fill and native material in the Campus West Building redevlopment area.

Photo No.	Date
2	04/17/19

Direction Photo Taken:
Southeast

Description:
Site Improvement Activities: Excavation and removal of soil/fill and native material and import of approved clean stone backfill for foundation preparation in the Campus West Building redevlopment area.

Prepared By: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site (C915242)	B0222-019-001

Photo No.	Date
3	05/06/20

Direction Photo Taken:
Southeast

Description:
Annual Site Inspection: Campus West Building construction activities.

Photo No.	Date
4	05/06/20

Direction Photo Taken:
Southeast

Description:
Annual Site Inspection: Campus West Building construction activities and western property boundary.

Prepared By: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site (C915242)	B0222-019-001

Photo No.	Date
5	05/06/20

Direction Photo Taken:
Northeast

Description:
Annual Site Inspection: Campus West Building construction activities.

Photo No.	Date
6	05/06/20

Direction Photo Taken:
North

Description:
Annual Site Inspection: Campus West Building construction activities.

Prepared By: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site (C915242)	B0222-019-001

Photo No.	Date
7	05/06/20

Direction Photo Taken:
Southeast

Description:
Annual Site Inspection:
Western side of the exisitng building.

Photo No.	Date
8	05/06/20

Direction Photo Taken:
Northeast

Description:
Annual Site Inspection:
North side of the exisitng building.

Prepared By: *CCB*

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site (C915242)	B0222-019-001

Photo No.	Date
9	05/06/20

Direction Photo Taken:
Northeast

Description:
Annual Site Inspection:
Southern side of the exisitng building.

Photo No.	Date
10	05/06/20

Direction Photo Taken:
Northwest

Description:
Annual Site Inspection:
Eastern side of the exisitng building.

Prepared By: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site (C915242)	B0222-019-001

Photo No.	Date
11	05/06/20

Direction Photo Taken:
West

Description:
Annual Site Inspection:
Eastern side of the exisitng building.

Photo No.	Date
12	05/06/20

Direction Photo Taken:
West

Description:
Annual Site Inspection:
Eastern side of the exisitng building.

Prepared By: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site (C915242)	B0222-019-001

Photo No.	Date
13	05/06/20

Direction Photo Taken:
Northwest

Description:
Annual Site Inspection:
Asphalt paved parking lot and carport.

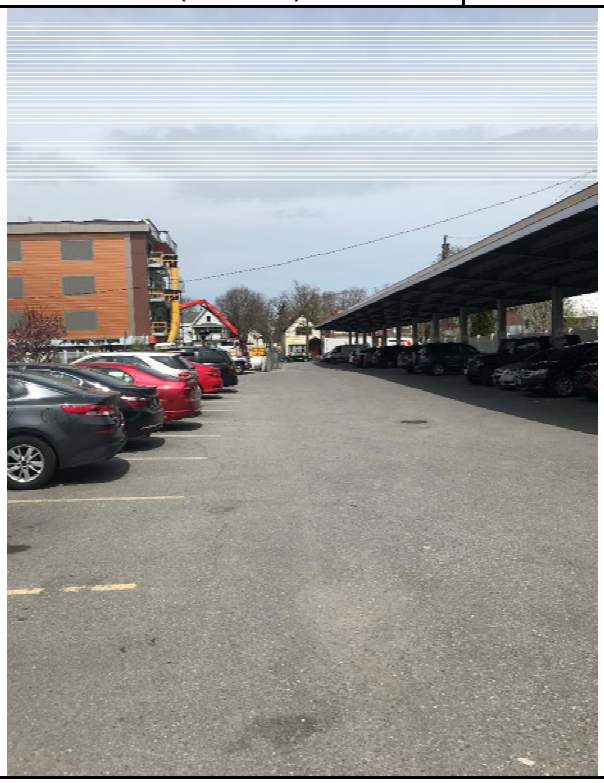


Photo No.	Date
14	05/06/20

Direction Photo Taken:
West

Description:
Annual Site Inspection:
Campus West Building construction activities.

Prepared By: *CCB*

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site (C915242)	B0222-019-001

Photo No.	Date
15	05/06/20

Direction Photo Taken:
West

Description:
Annual Site Inspection: Campus West Building construction activities.

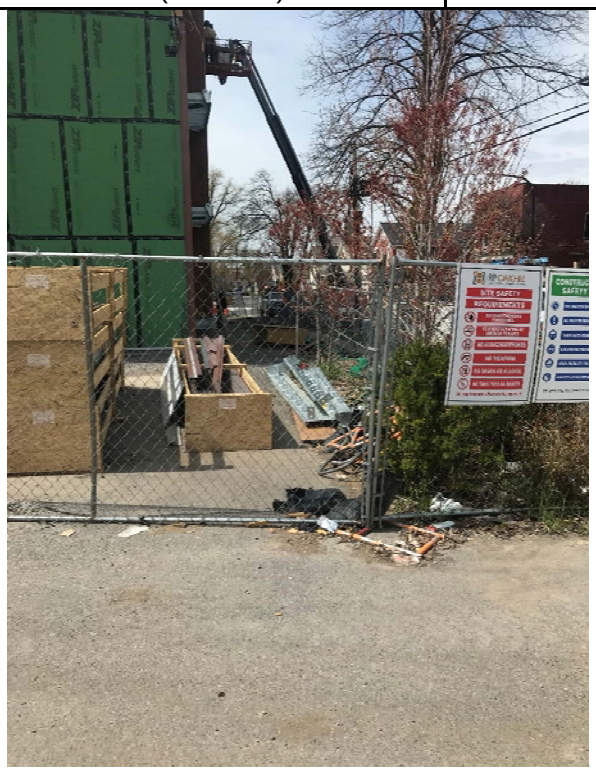


Photo No.	Date
16	05/06/20

Direction Photo Taken:
Southeast

Description:
Annual Site Inspection: Campus West Building construction activities.

Prepared By: CCB

APPENDIX C

DISPOSAL DOCUMENTATION

BUD MATERIAL

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

SUMMARY OF EXPORTED MATERIALS
BACKFILL
295 MARYLAND AVENUE SITE
BUFFALO, NEW YORK

Date	Responsible Company	Material Source	Ticket No.	Loads per Ticket	Cubic Yards	Material Type
4/16/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	848	5	65	Export Backfill
4/16/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	333945	8	104	Export Backfill
4/16/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	340929	6	78	Export Backfill
4/16/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	369749	8	104	Export Backfill
4/16/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	372536	7	91	Export Backfill
4/16/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	373354	7	91	Export Backfill
4/16/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	373692	7	91	Export Backfill
4/16/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	373726	2	26	Export Backfill
4/16/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	375569	7	91	Export Backfill
4/16/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	376365	6	78	Export Backfill
4/17/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	849	2	26	Export Backfill
4/17/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	340930	10	130	Export Backfill
4/17/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	372782	11	143	Export Backfill
4/17/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	376366	4	52	Export Backfill
4/18/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	661	9	117	Export Backfill
4/18/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	850	9	117	Export Backfill
4/18/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	373732	1	13	Export Backfill
4/19/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	662	6	78	Export Backfill
4/19/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	340857	9	117	Export Backfill
4/19/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	370122	2	26	Export Backfill
4/19/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	372388	7	91	Export Backfill
4/19/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	379082	7	91	Export Backfill
5/20/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	379524	3	39	Export Backfill
5/21/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	363969	4	52	Export Backfill
5/21/2019	Holler Excavating & Grading Inc.	295 Maryland Avenue	379749	3	39	Export Backfill
			Total Imported Backfill	150	1950	

Caroline C. Bukowski

From: Caroline C. Bukowski
Sent: Thursday, May 02, 2019 11:49 AM
To: Caroline C. Bukowski
Subject: FW: 1827 Fillmore Import Request
Attachments: 295 Maryland Street Site Native Material

From: Locey, David (DEC) <david.locey@dec.ny.gov>
Sent: Thursday, April 11, 2019 12:23 PM
To: Tom H. Forbes <TForbes@benchmarkturnkey.com>; Lopes, Anthony (DEC) <anthony.lopes@dec.ny.gov>
Cc: Mike A. Lesakowski <MLesakowski@Turnkeyllc.com>; Rick L. Dubisz <RDubisz@Turnkeyllc.com>; Caroline C. Bukowski <CBukowski@benchmarkturnkey.com>
Subject: RE: 1827 Fillmore Import Request

Tom,

Based on the test results emailed today (attached), the clean native material from 295 Maryland Street BCP Site (C915242) may be used on the 1827 Fillmore BCP Site (C915279) – either as part of the site cover system or as remedial excavation backfill.

As we discussed earlier, the native material will be stockpiled on the Fillmore site in a location furthest from the adjacent schools and, erosion controls will be put in place around the stockpile.

If there is more than 1,000 CY of clean native material to be used, additional samples will be required, in accordance with Table 5.4(e)10 of DER-10.

From: Tom H. Forbes <TForbes@benchmarkturnkey.com>
Sent: 04-11-2019 11:44
To: Locey, David (DEC) <david.locey@dec.ny.gov>; Lopes, Anthony (DEC) <anthony.lopes@dec.ny.gov>
Cc: Mike A. Lesakowski <MLesakowski@Turnkeyllc.com>; Rick L. Dubisz <RDubisz@Turnkeyllc.com>; Caroline C. Bukowski <CBukowski@benchmarkturnkey.com>
Subject: 1827 Fillmore Import Request

Dave,

Attached please find the import request form; the data was previously sent by Caroline. I believe Tony was going to get ahold of you – I called him on his cell not knowing he was on vacation and he graciously returned my call.

This is native soil that will be excavated for the basement of the new building at the 295 Maryland Site. The fill material is currently being landfilled; we are onsite with our CAMP equipment manifesting the trucks. Rick D. from my office is there; his cell is 716-998-4334. We can dig down and expose some native if needed.

Thanks very much for your help on this.

Best regards,
Tom

Thomas H. Forbes, P.E.
Principal Engineer
tforbes@benchmarkturnkey.com

Benchmark Environmental Engineering & Science, PLLC
TurnKey Environmental Restoration, LLC
https://protect2.fireeye.com/url?k=fb4059a7-a7666199-fb42a092-000babda0031-d195689a9b588965&u=http://www.benchmarkturnkey.com/
2558 Hamburg Turnpike, Suite 300, Buffalo, NY 14218
Phone: (716) 856-0599, *Facsimile*: (716) 856-0583

Strong Advocates | Effective Solutions | Integrated Implementation

communication in error, please notify the sender immediately.
Virus Warning: While reasonable precautions have been taken to protect against viruses in this message, we accept no responsibility for any damages arising from the potential presence of such viruses.
Contracts: Nothing in this message shall be construed as legally binding upon Benchmark or TurnKey.
Professional Opinions: Views expressed in this message may only be relied upon as professional opinion if and when provided by principals of the Companies to authorized representatives of the organization with which we have an active client-engineer relationship and when directly pertaining to a binding contract scope of work.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

1827 Fillmore Avenue Site
BCP Site No. C915279

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 800-1000

Initially 1,000 CY, up to 3,000 CY as the project progresses.

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no

Is this virgin material from a permitted mine or quarry? no

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

7 discrete samples were collected and analyzed for VOCs
2 composite samples were collected and analyzed for SVOCs, metals, pesticides, and PCBs

Analytical results attached (L1850602 - Alpha Analytical)

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

All analytes are either non-detect or below 6NYCRR Part 375 unrestricted use criteria.

See attached analytical results (L1850602 - Alpha Analytical)

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

295 Maryland, LLC - Owner

Location where fill was obtained:

295 Maryland Street, Buffalo, NY 14201 (BCP Site No. C915242)

Identification of any state or local approvals as a fill source:

NA

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Excess clean native material from 295 Maryland Street BCP Site (C915242).

Provide a list of supporting documentation included with this request:

Raw Analytical Data - L1850602 - Alpha Analytical

The information provided on this form is accurate and complete.

_____	_____
Signature	Date
Tom Forbes	
Print Name	
Benchmark Environmental Engineering, PLLC	
Firm	

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF ONSITE SUBSURFACE SOIL SAMPLE ANALYTICAL RESULTS

CAMPUS WEST, LLC
MARYLAND AVE
BUFFALO, NEW YORK

PARAMETER[1]	Unrestricted Use Import Levels[2]	Residential Use Import Levels [2]	SAMPLE LOCATION												
			BUD COMP-1	BUD COMP-2	BUD COMP-2	BUD VOC GRAB-1	BUD VOC GRAB-2	BUD VOC GRAB-3	BUD VOC GRAB-4	BUD VOC GRAB-5	BUD VOC GRAB-6	BUD VOC GRAB-7	BUD VOC GRAB-8	BUD VOC GRAB-9
			12/12/2018		4/12/2019	12/12/2018							4/12/2019	
Volatile Organic Compounds (VOCs) - mg/Kg [3]														
Acetone	**0.05**	**0.05**	*NA*	*NA*	*NA*	0.012	0.008 J	0.014	0.0098 J	0.037	0.02	0.011	0.0072 J	0.014 J
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg [3]			ND	ND	ND	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Total PCBS - mg/Kg			ND	ND	ND	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Total Metals - mg/Kg														
Aluminum	--	**--**	10500	10100	7820	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Antimony	--	**--**	ND	ND	0.549 J	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Arsenic	**13**	**16**	3.77	4.65	3.33	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Barium	**350**	**350**	95.1	81.3	69	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Beryllium	**7.2**	**14**	0.13 J	0.266 J	0.274 J	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Cadmium	**2.5**	**2.5**	0.455 J	0.533 J	ND	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Calcium	**--**	**--**	59400	62100	57200	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Chromium	**30**	**36**	14.4	14.6	11.2	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Cobalt	**--**	**--**	7.28	7.74	7.01	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Copper	**50**	**270**	12.7	12.9	14.4	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Iron	**--**	**--**	15900	18900	14400	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Lead	**63**	**400**	11.1	11.4	13.6	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Magnesium	**--**	**--**	19700	19600	17800	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Manganese	**1600**	**2000**	416	429	670	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Mercury	**0.18**	**0.73**	ND	ND	ND	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Nickel	**30**	**130**	13.9	13.8	14.6	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Potassium	**--**	**--**	2630	1690	1100	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Selenium	**3.9**	**4**	0.482 J	0.607 J	0.759 J	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Silver	**2**	**8.3**	ND	ND	ND	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Sodium	--	**--**	302	181 J	110 J	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Thallium	--	**--**	ND	ND	ND	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Vanadium	--	**--**	22.4	22.8	18.1	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Zinc	**109**	**2200**	57.6	61.3	63.2	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; other compounds were reported as non-detect.
2. Values per NYSDEC DER-10 Appendix 5; Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4 (e).
3. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.
NA = Not analyzed for this parameter.
"--" = No value available for the parameter; Parameter not analyzed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.

1827 FILLMORE AVE SITE
SOIL/FILL DELIVERY LOGSHEET

	DATE	TIME	HAULER NAME	TRUCK NUMBER
1	4/16/19	736	Pariso	13
2	4/16/19	736	Holler	K MG
3	"	745	Pariso	242
4	"	746	Pariso	17
5	"	752	BTS	500
6	"	818	GJ Lloyd	9A-717 60
7	"	819	BTS	9A-763 Purple
8	"	839	GJ Lloyd	9A-717 56
9	"	842	Parisa	13
10	"	8:42	Holler	60
11	"	8:52	Pariso	242
12	"	8:56	Pariso	17
13	"	8:59	BTS	500
14	"	907	Pariso	16
15	"	9:18	GJ Lloyd	60
16	"	9:22	BTS	9A-763 Purple
17	"	9:24	GJ Lloyd	56
18	"	9:35	Holler	
19	"	9:45	Pariso	242
20	"	9:46	Pariso	17
21	"	952	BTS	500
22	"	9:54	Design	223
23	"	10:00	Pariso	18
24	"	10:03	GJ Lloyd	60
25	"	10:08	BTS	9A-763 Purple

1827 FILLMORE AVE SITE
SOIL/FILL DELIVERY LOGSHEET

	DATE	TIME	HAULER NAME	TRUCK NUMBER
1	4/16/19	10:11	GJ Lloyd	56
2	"	10:19	Holler	
3	"	10:24	Pariso	242
4	"	10:30	Pariso	17
5	"	10:34	Design	223
6	"	10:37	BTS	500
7	"	10:41	GJ Lloyd	60
8	"	10:48	BTS	Purple
9	"	10:56	[redacted] Pariso	18
10	"	11:00	GJ Lloyd	56
11	"	11:07	Holler	[redacted]
12	"	11:12	Pariso	242
13	"	11:18	Pariso	17
14	"	11:18	Design	223
15	"	11:24	BTS	500
16	"	11:28	GJ Llyod	60
17	"	11:32	BTS	Purple
18	"	11:40	Pariso	16
19	"	11:40	GJ Lloyd	56
20	"	11:56	Pariso	242
21	"	12:02	Design	223
22	"	12:05	GJ Lloyd	60
23	"	12:08	BTS	Purple
24	"	12:26	GJ Lloyd	56
25	"	12:34	Pariso	16

1827 FILLMORE AVE SITE
SOIL/FILL DELIVERY LOGSHEET

	DATE	TIME	HAULER NAME	TRUCK NUMBER
1	4/16/19	12:38	GJ Lloyd	60
2	"	1246	BTS	Purple
3	"	12:53	GJ Lloyd	56
4	"	1:10	Pariso	16
5	"	1:27	Pariso	232
6	"	1:32	BTS	500
7	"	1:36	GJ Lloyd	60
8	"	1:42	BTS	Purple
9	"	1:52	Design	223
10	"	1:59	Pariso	17
11	"	203	GJ	56
12	"	2:13	Pariso	16
13	"	2:22	Pariso	242
14	4/17/19	7:41	Pariso	37
15	"	7:48	Holler	
16	"	7:58	BTS	500
17	"	8:22	Design	223
18	"	8:24	Design	30
19	"	8:30	Pariso	37
20	"	8:35	Holler	
21	"	8:41	BTS	500
22	"	9:01	[redacted]	[redacted]
23	"	9:07	Design	223
24	"	9:11	Design	30
25	"	9:27	Pariso	37

1827 FILLMORE AVE SITE
SOIL/FILL DELIVERY LOGSHEET

	DATE	TIME	HAULER NAME	TRUCK NUMBER
1	4/17/19	9:51	Design	223
2	"	9:56	Design	30
3	"	10:04	Pariso	37
4	"	10:26	Design	223
5	"	10:30	Design	30
6	"	10:41	BTS	500
7	"	10:43	Pariso	37
8	"	11:01	Design	223
9	"	11:07	Design	30
10	"	11:30	Pariso	37
11	"	11:40	Design	223
12	"	11:53	Design	30
13	"	12:04	Pariso	37
14	"	12:58	Design	223
15	"	1:29	Design	30
16	"	1:51	Design	223
17	"	1:58	Pariso	37
18	"	2:19	BTS	500
19	"	2:30	Design	223
20	4/18/19	7:30	~~Design~~ Hollar	Red
21		7:35	Hollar	Red/Wht
22		7:53	Hollar	Red
23		8:23	Hollar	Red Wht
24		8:20	Hollar	Red Wht
25		925	Hollar	Red

1827 FILLMORE AVE SITE
SOIL/FILL DELIVERY LOGSHEET

	DATE	TIME	HAULER NAME	TRUCK NUMBER
1	4/18/19	8:32	Haller	Red
2	"	9:58	Haller	Red/Wht
3	"	10:34	Haller	Red
4	"	10:51	Haller	Red/Wht
5	"	11:24	Haller	Red/Wht
6	"	11:27	Haller	Red
7	"	12:01	Haller	Red/Wht
8	"	12:08	Haller	Red
9	"	12:51	Haller	Red/Wht
10	"	12:57	Haller	Red
11	"	1:20	Haller	Red/Wht
12	"	1:32	Haller	Red
13	"	2:06	Haller	Red/Wht
14	"	2:18	Haller	Red
15	"	2:51	Pariso	13
16	"	3:00	Haller	Red/Wht
17	4/19/19	7:15	Haller	Red/Wht
18	"	7:38	Pariso	43
19	"	7:48	Haller	Red/Wht
20	"	8:10	Pariso	43
21	"	8:27	Pariso	26
22	"	8:18	Haller	Red/Wht
23	"	8:52	Pariso	43
24	"	9:02	Pariso	26
25	"		Haller	Red/Wht

1827 FILLMORE AVE SITE
SOIL/FILL DELIVERY LOGSHEET

	DATE	TIME	HAULER NAME	TRUCK NUMBER
1	4/19/19	9:32	Pariso	43
2	"	938	Pariso	26
3	"	9:43	Hollar	Red/White
4	"	9:58	Pariso	43
5	"	10:08	Pariso	26
6	"	10:32	Hollar	Red/White
7	"	10:38	Laraba	Red Silver
8	"	10:40	Laraba	Red Silver
9	"	10:49	Pariso	43
10	"	10:56	Pariso	26
11	"	11:26	Pariso	43
12	"	11:38	Pariso	26
13	"	12:06	~~Hollar~~ Pariso	~~26~~ 43
14				
15	4/24/19		Hollar - 10 ADDITIONAL	
16			LOADS	
17				
18				
19				
20				
21				
22				
23				
24				
25				

ANALYTICAL REPORT

Lab Number:	L1850602
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Tom Forbes
Phone:	(716) 856-0599
Project Name:	CAMPUS WEST
Project Number:	B0473-018-001
Report Date:	12/18/18

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1850602-01	BUD COMP-1	SOIL	BUFFALO, NY	12/10/18 08:05	12/10/18
L1850602-02	BUD COMP-2	SOIL	BUFFALO, NY	12/10/18 08:15	12/10/18
L1850602-03	BUD VOC-1	SOIL	BUFFALO, NY	12/10/18 08:05	12/10/18
L1850602-04	BUD VOC-2	SOIL	BUFFALO, NY	12/10/18 08:10	12/10/18
L1850602-05	BUD VOC-3	SOIL	BUFFALO, NY	12/10/18 08:12	12/10/18
L1850602-06	BUD VOC-4	SOIL	BUFFALO, NY	12/10/18 08:13	12/10/18
L1850602-07	BUD VOC-5	SOIL	BUFFALO, NY	12/10/18 08:20	12/10/18
L1850602-08	BUD VOC-6	SOIL	BUFFALO, NY	12/10/18 08:25	12/10/18
L1850602-09	BUD VOC-7	SOIL	BUFFALO, NY	12/10/18 08:30	12/10/18

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L1850602-01 and -02: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Amita Naik

Title: Technical Director/Representative Date: 12/18/18

ORGANICS

VOLATILES

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-03
Client ID: BUD VOC-1
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:05
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/14/18 13:24
Analyst: NLK
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.81	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.3	0.68	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-03
Client ID: BUD VOC-1
Sample Location: BUFFALO, NY
Date Collected: 12/10/18 08:05
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.65	1
o-Xylene	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	12		ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1
Methyl Acetate	ND		ug/kg	4.7	1.1	1
Cyclohexane	ND		ug/kg	12	0.63	1
1,4-Dioxane	ND		ug/kg	120	41.	1
Freon-113	ND		ug/kg	4.7	0.81	1
Methyl cyclohexane	ND		ug/kg	4.7	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-04
Client ID: BUD VOC-2
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:10
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/14/18 13:51
Analyst: NLK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.3	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.86	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.86	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.86	0.11	1
Dibromochloromethane	ND		ug/kg	0.86	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.86	0.23	1
Tetrachloroethene	ND		ug/kg	0.43	0.17	1
Chlorobenzene	ND		ug/kg	0.43	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.60	1
1,2-Dichloroethane	ND		ug/kg	0.86	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.43	0.14	1
Bromodichloromethane	ND		ug/kg	0.43	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.86	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.43	0.14	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.43	0.14	1
Benzene	ND		ug/kg	0.43	0.14	1
Toluene	ND		ug/kg	0.86	0.47	1
Ethylbenzene	ND		ug/kg	0.86	0.12	1
Chloromethane	ND		ug/kg	3.4	0.80	1
Bromomethane	ND		ug/kg	1.7	0.50	1
Vinyl chloride	ND		ug/kg	0.86	0.29	1
Chloroethane	ND		ug/kg	1.7	0.39	1
1,1-Dichloroethene	ND		ug/kg	0.86	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.43	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-04
Client ID: BUD VOC-2
Sample Location: BUFFALO, NY
Date Collected: 12/10/18 08:10
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.48	1
o-Xylene	ND		ug/kg	0.86	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.86	0.15	1
Styrene	ND		ug/kg	0.86	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.6	0.79	1
Acetone	8.0	J	ug/kg	8.6	4.1	1
Carbon disulfide	ND		ug/kg	8.6	3.9	1
2-Butanone	ND		ug/kg	8.6	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.6	1.1	1
2-Hexanone	ND		ug/kg	8.6	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.86	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.86	1
Isopropylbenzene	ND		ug/kg	0.86	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
Methyl Acetate	ND		ug/kg	3.4	0.82	1
Cyclohexane	ND		ug/kg	8.6	0.47	1
1,4-Dioxane	ND		ug/kg	86	30.	1
Freon-113	ND		ug/kg	3.4	0.60	1
Methyl cyclohexane	ND		ug/kg	3.4	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-05
Client ID: BUD VOC-3
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:12
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/14/18 14:19
Analyst: NLK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.18	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-05
Client ID: BUD VOC-3
Sample Location: BUFFALO, NY
Date Collected: 12/10/18 08:12
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	14		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
Methyl Acetate	ND		ug/kg	4.2	1.0	1
Cyclohexane	ND		ug/kg	10	0.57	1
1,4-Dioxane	ND		ug/kg	100	37.	1
Freon-113	ND		ug/kg	4.2	0.73	1
Methyl cyclohexane	ND		ug/kg	4.2	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-06
Client ID: BUD VOC-4
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:13
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/14/18 14:47
Analyst: NLK
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.65	0.26	1
Chlorobenzene	ND		ug/kg	0.65	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.91	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.21	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.22	1
Benzene	ND		ug/kg	0.65	0.22	1
Toluene	ND		ug/kg	1.3	0.71	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.76	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.59	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	ND		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-06
Client ID: BUD VOC-4
Sample Location: BUFFALO, NY
Date Collected: 12/10/18 08:13
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.73	1
o-Xylene	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	9.8	J	ug/kg	13	6.3	1
Carbon disulfide	ND		ug/kg	13	5.9	1
2-Butanone	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
Methyl Acetate	ND		ug/kg	5.2	1.2	1
Cyclohexane	ND		ug/kg	13	0.71	1
1,4-Dioxane	ND		ug/kg	130	46.	1
Freon-113	ND		ug/kg	5.2	0.90	1
Methyl cyclohexane	ND		ug/kg	5.2	0.79	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	106		70-130

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-07
Client ID: BUD VOC-5
Sample Location: BUFFALO, NY
Date Collected: 12/10/18 08:20
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/14/18 15:14
Analyst: NLK
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	4.5	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.29	1
Chloroform	ND		ug/kg	3.0	0.28	1
Carbon tetrachloride	ND		ug/kg	2.0	0.46	1
1,2-Dichloropropane	ND		ug/kg	2.0	0.25	1
Dibromochloromethane	ND		ug/kg	2.0	0.28	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.53	1
Tetrachloroethene	ND		ug/kg	0.99	0.39	1
Chlorobenzene	ND		ug/kg	0.99	0.25	1
Trichlorofluoromethane	ND		ug/kg	7.9	1.4	1
1,2-Dichloroethane	ND		ug/kg	2.0	0.51	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.33	1
Bromodichloromethane	ND		ug/kg	0.99	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	2.0	0.54	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.31	1
Bromoform	ND		ug/kg	7.9	0.49	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	0.33	1
Benzene	ND		ug/kg	0.99	0.33	1
Toluene	ND		ug/kg	2.0	1.1	1
Ethylbenzene	ND		ug/kg	2.0	0.28	1
Chloromethane	ND		ug/kg	7.9	1.8	1
Bromomethane	ND		ug/kg	4.0	1.2	1
Vinyl chloride	ND		ug/kg	2.0	0.66	1
Chloroethane	ND		ug/kg	4.0	0.90	1
1,1-Dichloroethene	ND		ug/kg	2.0	0.47	1
trans-1,2-Dichloroethene	ND		ug/kg	3.0	0.27	1
Trichloroethene	ND		ug/kg	0.99	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	4.0	0.28	1

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-07
Client ID: BUD VOC-5
Sample Location: BUFFALO, NY
Date Collected: 12/10/18 08:20
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.0	0.29	1
1,4-Dichlorobenzene	ND		ug/kg	4.0	0.34	1
Methyl tert butyl ether	ND		ug/kg	4.0	0.40	1
p/m-Xylene	ND		ug/kg	4.0	1.1	1
o-Xylene	ND		ug/kg	2.0	0.58	1
cis-1,2-Dichloroethene	ND		ug/kg	2.0	0.35	1
Styrene	ND		ug/kg	2.0	0.39	1
Dichlorodifluoromethane	ND		ug/kg	20	1.8	1
Acetone	37		ug/kg	20	9.6	1
Carbon disulfide	ND		ug/kg	20	9.0	1
2-Butanone	ND		ug/kg	20	4.4	1
4-Methyl-2-pentanone	ND		ug/kg	20	2.5	1
2-Hexanone	ND		ug/kg	20	2.3	1
Bromochloromethane	ND		ug/kg	4.0	0.41	1
1,2-Dibromoethane	ND		ug/kg	2.0	0.55	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	2.0	1
Isopropylbenzene	ND		ug/kg	2.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	0.64	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	0.54	1
Methyl Acetate	ND		ug/kg	7.9	1.9	1
Cyclohexane	ND		ug/kg	20	1.1	1
1,4-Dioxane	ND		ug/kg	200	70.	1
Freon-113	ND		ug/kg	7.9	1.4	1
Methyl cyclohexane	ND		ug/kg	7.9	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-08
Client ID: BUD VOC-6
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:25
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/14/18 15:42
Analyst: MKS
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.4	3.4	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.2	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.34	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.18	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.40	1
Tetrachloroethene	ND		ug/kg	0.74	0.29	1
Chlorobenzene	ND		ug/kg	0.74	0.19	1
Trichlorofluoromethane	ND		ug/kg	5.9	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.38	1
1,1,1-Trichloroethane	ND		ug/kg	0.74	0.25	1
Bromodichloromethane	ND		ug/kg	0.74	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.40	1
cis-1,3-Dichloropropene	ND		ug/kg	0.74	0.23	1
Bromoform	ND		ug/kg	5.9	0.36	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.74	0.25	1
Benzene	ND		ug/kg	0.74	0.25	1
Toluene	ND		ug/kg	1.5	0.81	1
Ethylbenzene	ND		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	5.9	1.4	1
Bromomethane	ND		ug/kg	3.0	0.86	1
Vinyl chloride	ND		ug/kg	1.5	0.50	1
Chloroethane	ND		ug/kg	3.0	0.67	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.35	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.20	1
Trichloroethene	ND		ug/kg	0.74	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.21	1

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-08
Client ID: BUD VOC-6
Sample Location: BUFFALO, NY
Date Collected: 12/10/18 08:25
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.25	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	ND		ug/kg	3.0	0.83	1
o-Xylene	ND		ug/kg	1.5	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.26	1
Styrene	ND		ug/kg	1.5	0.29	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	20		ug/kg	15	7.2	1
Carbon disulfide	ND		ug/kg	15	6.8	1
2-Butanone	ND		ug/kg	15	3.3	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.30	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.41	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.4	1.5	1
Isopropylbenzene	ND		ug/kg	1.5	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	0.48	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.40	1
Methyl Acetate	ND		ug/kg	5.9	1.4	1
Cyclohexane	ND		ug/kg	15	0.81	1
1,4-Dioxane	ND		ug/kg	150	52.	1
Freon-113	ND		ug/kg	5.9	1.0	1
Methyl cyclohexane	ND		ug/kg	5.9	0.90	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-09
Client ID: BUD VOC-7
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:30
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/14/18 16:10
Analyst: MKS
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.92	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.92	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.92	0.12	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.25	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.92	0.50	1
Ethylbenzene	ND		ug/kg	0.92	0.13	1
Chloromethane	ND		ug/kg	3.7	0.86	1
Bromomethane	ND		ug/kg	1.8	0.54	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.46	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-09
Client ID: BUD VOC-7
Sample Location: BUFFALO, NY
Date Collected: 12/10/18 08:30
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.52	1
o-Xylene	ND		ug/kg	0.92	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.16	1
Styrene	ND		ug/kg	0.92	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.84	1
Acetone	11		ug/kg	9.2	4.4	1
Carbon disulfide	ND		ug/kg	9.2	4.2	1
2-Butanone	ND		ug/kg	9.2	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	1.2	1
2-Hexanone	ND		ug/kg	9.2	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.92	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.92	1
Isopropylbenzene	ND		ug/kg	0.92	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
Methyl Acetate	ND		ug/kg	3.7	0.88	1
Cyclohexane	ND		ug/kg	9.2	0.50	1
1,4-Dioxane	ND		ug/kg	92	32.	1
Freon-113	ND		ug/kg	3.7	0.64	1
Methyl cyclohexane	ND		ug/kg	3.7	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/14/18 08:20
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-09 Batch: WG1189423-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/14/18 08:20
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-09 Batch: WG1189423-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/14/18 08:20
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-09 Batch: WG1189423-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1850602

Report Date: 12/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-09 Batch: WG1189423-3 WG1189423-4								
Methylene chloride	102		98		70-130	4		30
1,1-Dichloroethane	106		101		70-130	5		30
Chloroform	106		101		70-130	5		30
Carbon tetrachloride	108		100		70-130	8		30
1,2-Dichloropropane	109		104		70-130	5		30
Dibromochloromethane	100		100		70-130	0		30
1,1,2-Trichloroethane	101		100		70-130	1		30
Tetrachloroethene	107		99		70-130	8		30
Chlorobenzene	100		96		70-130	4		30
Trichlorofluoromethane	102		93		70-139	9		30
1,2-Dichloroethane	105		103		70-130	2		30
1,1,1-Trichloroethane	110		102		70-130	8		30
Bromodichloromethane	107		105		70-130	2		30
trans-1,3-Dichloropropene	93		91		70-130	2		30
cis-1,3-Dichloropropene	100		100		70-130	0		30
Bromoform	94		96		70-130	2		30
1,1,2,2-Tetrachloroethane	98		98		70-130	0		30
Benzene	109		104		70-130	5		30
Toluene	103		98		70-130	5		30
Ethylbenzene	106		100		70-130	6		30
Chloromethane	110		104		52-130	6		30
Bromomethane	87		86		57-147	1		30
Vinyl chloride	106		94		67-130	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1850602

Report Date: 12/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-09 Batch: WG1189423-3 WG1189423-4								
Chloroethane	99		91		50-151	8		30
1,1-Dichloroethene	102		95		65-135	7		30
trans-1,2-Dichloroethene	106		101		70-130	5		30
Trichloroethene	108		101		70-130	7		30
1,2-Dichlorobenzene	98		96		70-130	2		30
1,3-Dichlorobenzene	100		94		70-130	6		30
1,4-Dichlorobenzene	97		92		70-130	5		30
Methyl tert butyl ether	107		107		66-130	0		30
p/m-Xylene	108		102		70-130	6		30
o-Xylene	109		104		70-130	5		30
cis-1,2-Dichloroethene	108		104		70-130	4		30
Styrene	98		94		70-130	4		30
Dichlorodifluoromethane	92		83		30-146	10		30
Acetone	113		113		54-140	0		30
Carbon disulfide	100		92		59-130	8		30
2-Butanone	102		101		70-130	1		30
4-Methyl-2-pentanone	93		93		70-130	0		30
2-Hexanone	93		94		70-130	1		30
Bromochloromethane	107		105		70-130	2		30
1,2-Dibromoethane	104		103		70-130	1		30
1,2-Dibromo-3-chloropropane	90		96		68-130	6		30
Isopropylbenzene	106		100		70-130	6		30
1,2,3-Trichlorobenzene	96		97		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1850602

Report Date: 12/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-09 Batch: WG1189423-3 WG1189423-4								
1,2,4-Trichlorobenzene	100		97		70-130	3		30
Methyl Acetate	108		105		51-146	3		30
Cyclohexane	111		102		59-142	8		30
1,4-Dioxane	110		108		65-136	2		30
Freon-113	110		99		50-139	11		30
Methyl cyclohexane	112		101		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		98		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	99		99		70-130

SEMIVOLATILES

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-01
Client ID: BUD COMP-1
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:05
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/16/18 14:30
Analyst: RC
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 12/12/18 10:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	160	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	47.	1

Project Name: CAMPUS WEST **Lab Number:** L1850602

Project Number: B0473-018-001 **Report Date:** 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-01 Date Collected: 12/10/18 08:05

Client ID: BUD COMP-1 Date Received: 12/10/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Carbazole	ND		ug/kg	190	19.	1
Atrazine	ND		ug/kg	160	68.	1
Benzaldehyde	ND		ug/kg	260	52.	1

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-01
Client ID: BUD COMP-1
Sample Location: BUFFALO, NY
Date Collected: 12/10/18 08:05
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	59.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	39.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	54		18-120

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-02
Client ID: BUD COMP-2
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:15
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/16/18 14:55
Analyst: RC
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 12/12/18 10:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1

Project Name: CAMPUS WEST **Lab Number:** L1850602

Project Number: B0473-018-001 **Report Date:** 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-02 Date Collected: 12/10/18 08:15

Client ID: BUD COMP-2 Date Received: 12/10/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	280	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	ND		ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	69.	1
Benzaldehyde	ND		ug/kg	260	53.	1

Project Name: CAMPUS WEST
Lab Number: L1850602
Project Number: B0473-018-001
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-02
Client ID: BUD COMP-2
Sample Location: BUFFALO, NY
Date Collected: 12/10/18 08:15
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	60.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	55		18-120

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/16/18 12:45
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 12/12/18 10:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1188451-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/16/18 12:45
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 12/12/18 10:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1188451-1					
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/16/18 12:45
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 12/12/18 10:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1188451-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	94		25-120
Phenol-d6	98		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	84		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1850602

Report Date: 12/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1188451-2 WG1188451-3								
Acenaphthene	94		94		31-137	0		50
Hexachlorobenzene	88		89		40-140	1		50
Bis(2-chloroethyl)ether	88		88		40-140	0		50
2-Chloronaphthalene	93		94		40-140	1		50
3,3'-Dichlorobenzidine	53		47		40-140	12		50
2,4-Dinitrotoluene	103		103		40-132	0		50
2,6-Dinitrotoluene	98		104		40-140	6		50
Fluoranthene	97		97		40-140	0		50
4-Chlorophenyl phenyl ether	89		90		40-140	1		50
4-Bromophenyl phenyl ether	86		85		40-140	1		50
Bis(2-chloroisopropyl)ether	89		89		40-140	0		50
Bis(2-chloroethoxy)methane	99		101		40-117	2		50
Hexachlorobutadiene	75		76		40-140	1		50
Hexachlorocyclopentadiene	78		78		40-140	0		50
Hexachloroethane	85		84		40-140	1		50
Isophorone	99		101		40-140	2		50
Naphthalene	92		92		40-140	0		50
Nitrobenzene	89		89		40-140	0		50
NDPA/DPA	97		97		36-157	0		50
n-Nitrosodi-n-propylamine	90		92		32-121	2		50
Bis(2-ethylhexyl)phthalate	116		114		40-140	2		50
Butyl benzyl phthalate	110		108		40-140	2		50
Di-n-butylphthalate	107		107		40-140	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1188451-2 WG1188451-3								
Di-n-octylphthalate	116		114		40-140	2		50
Diethyl phthalate	99		99		40-140	0		50
Dimethyl phthalate	96		98		40-140	2		50
Benzo(a)anthracene	93		92		40-140	1		50
Benzo(a)pyrene	98		95		40-140	3		50
Benzo(b)fluoranthene	96		95		40-140	1		50
Benzo(k)fluoranthene	97		94		40-140	3		50
Chrysene	95		92		40-140	3		50
Acenaphthylene	97		98		40-140	1		50
Anthracene	98		97		40-140	1		50
Benzo(ghi)perylene	93		92		40-140	1		50
Fluorene	95		95		40-140	0		50
Phenanthrene	94		95		40-140	1		50
Dibenzo(a,h)anthracene	93		93		40-140	0		50
Indeno(1,2,3-cd)pyrene	94		93		40-140	1		50
Pyrene	97		96		35-142	1		50
Biphenyl	100		100		54-104	0		50
4-Chloroaniline	40		**37**	Q	40-140	8		50
2-Nitroaniline	108		109		47-134	1		50
3-Nitroaniline	73		67		26-129	9		50
4-Nitroaniline	108		107		41-125	1		50
Dibenzofuran	95		93		40-140	2		50
2-Methylnaphthalene	92		93		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1850602

Report Date: 12/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1188451-2 WG1188451-3								
1,2,4,5-Tetrachlorobenzene	92		92		40-117	0		50
Acetophenone	101		102		14-144	1		50
2,4,6-Trichlorophenol	95		95		30-130	0		50
p-Chloro-m-cresol	100		103		26-103	3		50
2-Chlorophenol	95		95		25-102	0		50
2,4-Dichlorophenol	100		104		30-130	4		50
2,4-Dimethylphenol	99		104		30-130	5		50
2-Nitrophenol	99		99		30-130	0		50
4-Nitrophenol	**115**	Q	**117**	Q	11-114	2		50
2,4-Dinitrophenol	80		85		4-130	6		50
4,6-Dinitro-o-cresol	91		91		10-130	0		50
Pentachlorophenol	73		76		17-109	4		50
Phenol	88		89		26-90	1		50
2-Methylphenol	100		103		30-130.	3		50
3-Methylphenol/4-Methylphenol	103		105		30-130	2		50
2,4,5-Trichlorophenol	95		96		30-130	1		50
Carbazole	104		104		54-128	0		50
Atrazine	101		100		40-140	1		50
Benzaldehyde	76		75		40-140	1		50
Caprolactam	114		115		15-130	1		50
2,3,4,6-Tetrachlorophenol	87		87		40-140	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1188451-2 WG1188451-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	99		98		25-120
Phenol-d6	101		102		10-120
Nitrobenzene-d5	90		90		23-120
2-Fluorobiphenyl	93		94		30-120
2,4,6-Tribromophenol	93		92		10-136
4-Terphenyl-d14	83		82		18-120

PCBS

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-01
Client ID: BUD COMP-1
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:05
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/13/18 16:35
Analyst: WR
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 12/11/18 21:45
Cleanup Method: EPA 3665A
Cleanup Date: 12/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 12/13/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.2	3.39	1	A
Aroclor 1221	ND		ug/kg	38.2	3.83	1	A
Aroclor 1232	ND		ug/kg	38.2	8.10	1	A
Aroclor 1242	ND		ug/kg	38.2	5.15	1	A
Aroclor 1248	ND		ug/kg	38.2	5.73	1	A
Aroclor 1254	ND		ug/kg	38.2	4.18	1	A
Aroclor 1260	ND		ug/kg	38.2	7.06	1	A
Aroclor 1262	ND		ug/kg	38.2	4.85	1	A
Aroclor 1268	ND		ug/kg	38.2	3.96	1	A
PCBs, Total	ND		ug/kg	38.2	3.39	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-02
Client ID: BUD COMP-2
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:15
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/13/18 16:48
Analyst: WR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 12/11/18 21:45
Cleanup Method: EPA 3665A
Cleanup Date: 12/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 12/13/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	3.37	1	A
Aroclor 1221	ND		ug/kg	38.0	3.80	1	A
Aroclor 1232	ND		ug/kg	38.0	8.05	1	A
Aroclor 1242	ND		ug/kg	38.0	5.12	1	A
Aroclor 1248	ND		ug/kg	38.0	5.70	1	A
Aroclor 1254	ND		ug/kg	38.0	4.15	1	A
Aroclor 1260	ND		ug/kg	38.0	7.02	1	A
Aroclor 1262	ND		ug/kg	38.0	4.82	1	A
Aroclor 1268	ND		ug/kg	38.0	3.93	1	A
PCBs, Total	ND		ug/kg	38.0	3.37	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/13/18 19:36
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 12/11/18 21:45
Cleanup Method: EPA 3665A
Cleanup Date: 12/12/18
Cleanup Method: EPA 3660B
Cleanup Date: 12/13/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1188217-1						
Aroclor 1016	ND		ug/kg	31.7	2.82	A
Aroclor 1221	ND		ug/kg	31.7	3.18	A
Aroclor 1232	ND		ug/kg	31.7	6.72	A
Aroclor 1242	ND		ug/kg	31.7	4.27	A
Aroclor 1248	ND		ug/kg	31.7	4.76	A
Aroclor 1254	ND		ug/kg	31.7	3.47	A
Aroclor 1260	ND		ug/kg	31.7	5.86	A
Aroclor 1262	ND		ug/kg	31.7	4.03	A
Aroclor 1268	ND		ug/kg	31.7	3.28	A
PCBs, Total	ND		ug/kg	31.7	2.82	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	85		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1850602

Report Date: 12/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1188217-2 WG1188217-3									
Aroclor 1016	70		77		40-140	10		50	A
Aroclor 1260	58		65		40-140	11		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		101		30-150	A
Decachlorobiphenyl	61		69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		100		30-150	B
Decachlorobiphenyl	81		91		30-150	B

PESTICIDES

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-01
Client ID: BUD COMP-1
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:05
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/14/18 15:15
Analyst: BM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 12/11/18 23:59
Cleanup Method: EPA 3620B
Cleanup Date: 12/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.83	0.358	1	A
Lindane	ND		ug/kg	0.761	0.340	1	A
Alpha-BHC	ND		ug/kg	0.761	0.216	1	A
Beta-BHC	ND		ug/kg	1.83	0.693	1	A
Heptachlor	ND		ug/kg	0.914	0.410	1	A
Aldrin	ND		ug/kg	1.83	0.643	1	A
Heptachlor epoxide	ND		ug/kg	3.43	1.03	1	A
Endrin	ND		ug/kg	0.761	0.312	1	A
Endrin aldehyde	ND		ug/kg	2.28	0.800	1	A
Endrin ketone	ND		ug/kg	1.83	0.470	1	A
Dieldrin	ND		ug/kg	1.14	0.571	1	A
4,4'-DDE	ND		ug/kg	1.83	0.423	1	A
4,4'-DDD	ND		ug/kg	1.83	0.652	1	A
4,4'-DDT	ND		ug/kg	3.43	1.47	1	A
Endosulfan I	ND		ug/kg	1.83	0.432	1	A
Endosulfan II	ND		ug/kg	1.83	0.611	1	A
Endosulfan sulfate	ND		ug/kg	0.761	0.362	1	A
Methoxychlor	ND		ug/kg	3.43	1.07	1	A
Toxaphene	ND		ug/kg	34.3	9.59	1	A
cis-Chlordane	ND		ug/kg	2.28	0.636	1	A
trans-Chlordane	ND		ug/kg	2.28	0.603	1	A
Chlordane	ND		ug/kg	14.8	6.05	1	A

Project Name: CAMPUS WEST **Lab Number:** L1850602

Project Number: B0473-018-001 **Report Date:** 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-01 Date Collected: 12/10/18 08:05

Client ID: BUD COMP-1 Date Received: 12/10/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	40		30-150	A

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-02
Client ID: BUD COMP-2
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:15
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/14/18 15:27
Analyst: BM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 12/11/18 23:59
Cleanup Method: EPA 3620B
Cleanup Date: 12/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.89	0.370	1	A
Lindane	ND		ug/kg	0.787	0.352	1	A
Alpha-BHC	ND		ug/kg	0.787	0.224	1	A
Beta-BHC	ND		ug/kg	1.89	0.716	1	A
Heptachlor	ND		ug/kg	0.944	0.423	1	A
Aldrin	ND		ug/kg	1.89	0.665	1	A
Heptachlor epoxide	ND		ug/kg	3.54	1.06	1	A
Endrin	ND		ug/kg	0.787	0.323	1	A
Endrin aldehyde	ND		ug/kg	2.36	0.826	1	A
Endrin ketone	ND		ug/kg	1.89	0.486	1	A
Dieldrin	ND		ug/kg	1.18	0.590	1	A
4,4'-DDE	ND		ug/kg	1.89	0.437	1	A
4,4'-DDD	ND		ug/kg	1.89	0.674	1	A
4,4'-DDT	ND		ug/kg	3.54	1.52	1	A
Endosulfan I	ND		ug/kg	1.89	0.446	1	A
Endosulfan II	ND		ug/kg	1.89	0.631	1	A
Endosulfan sulfate	ND		ug/kg	0.787	0.375	1	A
Methoxychlor	ND		ug/kg	3.54	1.10	1	A
Toxaphene	ND		ug/kg	35.4	9.92	1	A
cis-Chlordane	ND		ug/kg	2.36	0.658	1	A
trans-Chlordane	ND		ug/kg	2.36	0.623	1	A
Chlordane	ND		ug/kg	15.3	6.26	1	A

Project Name: CAMPUS WEST **Lab Number:** L1850602

Project Number: B0473-018-001 **Report Date:** 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-02 Date Collected: 12/10/18 08:15

Client ID: BUD COMP-2 Date Received: 12/10/18

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	81		30-150	B
2,4,5,6-Tetrachloro-m-xylene	102		30-150	A
Decachlorobiphenyl	74		30-150	A

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/14/18 13:59
Analyst: SL

Extraction Method: EPA 3546
Extraction Date: 12/11/18 23:59
Cleanup Method: EPA 3620B
Cleanup Date: 12/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1188238-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.649	0.290	A
Alpha-BHC	ND		ug/kg	0.649	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.590	A
Heptachlor	ND		ug/kg	0.779	0.349	A
Aldrin	ND		ug/kg	1.56	0.548	A
Heptachlor epoxide	ND		ug/kg	2.92	0.876	A
Endrin	ND		ug/kg	0.649	0.266	A
Endrin aldehyde	ND		ug/kg	1.95	0.681	A
Endrin ketone	ND		ug/kg	1.56	0.401	A
Dieldrin	ND		ug/kg	0.973	0.487	A
4,4'-DDE	ND		ug/kg	1.56	0.360	A
4,4'-DDD	ND		ug/kg	1.56	0.555	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.520	A
Endosulfan sulfate	ND		ug/kg	0.649	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.908	A
Toxaphene	ND		ug/kg	29.2	8.18	A
cis-Chlordane	ND		ug/kg	1.95	0.542	A
trans-Chlordane	ND		ug/kg	1.95	0.514	A
Chlordane	ND		ug/kg	12.6	5.16	A

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/14/18 13:59
Analyst: SL

Extraction Method: EPA 3546
Extraction Date: 12/11/18 23:59
Cleanup Method: EPA 3620B
Cleanup Date: 12/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1188238-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	80		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1850602

Report Date: 12/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1188238-2 WG1188238-3									
Delta-BHC	85		87		30-150	2		30	A
Lindane	81		82		30-150	1		30	A
Alpha-BHC	87		88		30-150	1		30	A
Beta-BHC	90		97		30-150	7		30	A
Heptachlor	94		100		30-150	6		30	A
Aldrin	88		86		30-150	2		30	A
Heptachlor epoxide	81		74		30-150	9		30	A
Endrin	93		94		30-150	1		30	A
Endrin aldehyde	68		77		30-150	12		30	A
Endrin ketone	84		91		30-150	8		30	A
Dieldrin	96		96		30-150	0		30	A
4,4'-DDE	82		83		30-150	1		30	A
4,4'-DDD	90		91		30-150	1		30	A
4,4'-DDT	92		93		30-150	1		30	A
Endosulfan I	86		86		30-150	0		30	A
Endosulfan II	89		92		30-150	3		30	A
Endosulfan sulfate	73		79		30-150	8		30	A
Methoxychlor	92		97		30-150	5		30	A
cis-Chlordane	70		71		30-150	1		30	A
trans-Chlordane	90		89		30-150	1		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1850602

Report Date: 12/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1188238-2 WG1188238-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		96		30-150	B
Decachlorobiphenyl	90		93		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		97		30-150	A
Decachlorobiphenyl	78		86		30-150	A

METALS

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-01
Client ID: BUD COMP-1
Sample Location: BUFFALO, NY
Date Collected: 12/10/18 08:05
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10500		mg/kg	9.28	2.50	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.64	0.352	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Arsenic, Total	3.77		mg/kg	0.928	0.193	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Barium, Total	95.1		mg/kg	0.928	0.161	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Beryllium, Total	0.130	J	mg/kg	0.464	0.031	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Cadmium, Total	0.455	J	mg/kg	0.928	0.091	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Calcium, Total	59400		mg/kg	9.28	3.25	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Chromium, Total	14.4		mg/kg	0.928	0.089	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Cobalt, Total	7.28		mg/kg	1.86	0.154	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Copper, Total	12.7		mg/kg	0.928	0.239	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Iron, Total	15900		mg/kg	4.64	0.838	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Lead, Total	11.1		mg/kg	4.64	0.249	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Magnesium, Total	19700		mg/kg	9.28	1.43	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Manganese, Total	416		mg/kg	0.928	0.148	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.075	0.016	1	12/14/18 08:30	12/14/18 15:48	EPA 7471B	1,7471B	MG
Nickel, Total	13.9		mg/kg	2.32	0.224	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Potassium, Total	2630		mg/kg	232	13.4	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Selenium, Total	0.482	J	mg/kg	1.86	0.239	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.928	0.262	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Sodium, Total	302		mg/kg	186	2.92	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.86	0.292	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Vanadium, Total	22.4		mg/kg	0.928	0.188	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB
Zinc, Total	57.6		mg/kg	4.64	0.272	2	12/13/18 19:18	12/13/18 23:16	EPA 3050B	1,6010D	AB

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-02
Client ID: BUD COMP-2
Sample Location: BUFFALO, NY
Date Collected: 12/10/18 08:15
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10100		mg/kg	9.19	2.48	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.60	0.349	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Arsenic, Total	4.65		mg/kg	0.919	0.191	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Barium, Total	81.3		mg/kg	0.919	0.160	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Beryllium, Total	0.266	J	mg/kg	0.460	0.030	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Cadmium, Total	0.533	J	mg/kg	0.919	0.090	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Calcium, Total	62100		mg/kg	9.19	3.22	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Chromium, Total	14.6		mg/kg	0.919	0.088	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Cobalt, Total	7.74		mg/kg	1.84	0.152	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Copper, Total	12.9		mg/kg	0.919	0.237	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Iron, Total	18900		mg/kg	4.60	0.830	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Lead, Total	11.4		mg/kg	4.60	0.246	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Magnesium, Total	19600		mg/kg	9.19	1.42	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Manganese, Total	429		mg/kg	0.919	0.146	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.074	0.016	1	12/14/18 08:30	12/14/18 15:50	EPA 7471B	1,7471B	MG
Nickel, Total	13.8		mg/kg	2.30	0.222	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Potassium, Total	1690		mg/kg	230	13.2	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Selenium, Total	0.607	J	mg/kg	1.84	0.237	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.919	0.260	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Sodium, Total	181	J	mg/kg	184	2.90	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.84	0.290	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Vanadium, Total	22.8		mg/kg	0.919	0.187	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB
Zinc, Total	61.3		mg/kg	4.60	0.269	2	12/13/18 19:18	12/13/18 23:20	EPA 3050B	1,6010D	AB

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1189201-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Chromium, Total	0.064	J	mg/kg	0.400	0.038	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Iron, Total	0.472	J	mg/kg	2.00	0.361	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Sodium, Total	ND		mg/kg	80.0	1.26	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	12/13/18 19:18	12/13/18 22:57	1,6010D	AB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1189359-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	12/14/18 08:30	12/14/18 11:12	1,7471B	BV

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1850602
Report Date: 12/18/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1850602

Report Date: 12/18/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1189201-2 SRM Lot Number: D102-540								
Aluminum, Total	68		-		49-150	-		
Antimony, Total	164		-		1-199	-		
Arsenic, Total	98		-		83-117	-		
Barium, Total	90		-		83-118	-		
Beryllium, Total	92		-		83-116	-		
Cadmium, Total	92		-		83-118	-		
Calcium, Total	87		-		82-118	-		
Chromium, Total	94		-		83-117	-		
Cobalt, Total	91		-		84-116	-		
Copper, Total	90		-		84-116	-		
Iron, Total	96		-		61-139	-		
Lead, Total	92		-		82-118	-		
Magnesium, Total	79		-		76-124	-		
Manganese, Total	89		-		82-118	-		
Nickel, Total	91		-		83-117	-		
Potassium, Total	78		-		70-130	-		
Selenium, Total	96		-		79-121	-		
Silver, Total	98		-		80-120	-		
Sodium, Total	94		-		74-126	-		
Thallium, Total	93		-		81-119	-		
Vanadium, Total	91		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1850602

Report Date: 12/18/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1189201-2 SRM Lot Number: D102-540					
Zinc, Total	91	-	81-118	-	
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1189359-2 SRM Lot Number: D102-540					
Mercury, Total	98	-	65-134	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1189201-3 WG1189201-4 QC Sample: L1850609-01 Client ID: MS Sample												
Aluminum, Total	5960	343	6330	108		6160	**59**	Q	75-125	3		20
Antimony, Total	14.2	85.8	96.0	95		94.0	94		75-125	2		20
Arsenic, Total	40.6	20.6	56.6	78		64.5	117		75-125	13		20
Barium, Total	136	343	440	88		454	94		75-125	3		20
Beryllium, Total	0.449	8.58	7.88	87		8.12	90		75-125	3		20
Cadmium, Total	7.76	8.75	15.2	85		17.2	109		75-125	12		20
Calcium, Total	10000	1720	11100	**64**	Q	11200	**71**	Q	75-125	1		20
Chromium, Total	348	34.3	397	**143**	Q	482	**394**	Q	75-125	19		20
Cobalt, Total	12.8	85.8	85.6	85		88.4	89		75-125	3		20
Copper, Total	737	42.9	747	**23**	Q	1080	**807**	Q	75-125	**36**	Q	20
Iron, Total	70800	172	71400	**350**	Q	88800	**10600**	Q	75-125	**22**	Q	20
Lead, Total	575	87.5	630	**63**	Q	908	**384**	Q	75-125	**36**	Q	20
Magnesium, Total	1350	1720	2740	81		2770	84		75-125	1		20
Manganese, Total	1180	85.8	1330	**175**	Q	1540	**424**	Q	75-125	15		20
Nickel, Total	206	85.8	296	105		253	**55**	Q	75-125	16		20
Potassium, Total	612	1720	2010	81		2060	85		75-125	2		20
Selenium, Total	4.35	20.6	21.9	85		22.8	90		75-125	4		20
Silver, Total	0.848	51.5	51.3	98		52.4	101		75-125	2		20
Sodium, Total	204	1720	1700	87		1730	90		75-125	2		20
Thallium, Total	1.90	20.6	16.2	**69**	Q	16.9	**74**	Q	75-125	4		20
Vanadium, Total	32.1	85.8	110	91		114	96		75-125	4		20

Matrix Spike Analysis
Batch Quality Control

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1189201-3 WG1189201-4 QC Sample: L1850609-01 Client ID: MS Sample											
Zinc, Total	1160	85.8	1230	82		1360	**235**	Q	75-125	10	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1189359-3 QC Sample: L1851262-04 Client ID: MS Sample											
Mercury, Total	0.060J	0.144	0.212	**147**	Q	-	-		80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1189359-4 QC Sample: L1851262-04 Client ID: DUP Sample						
Mercury, Total	0.060J	0.120	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-01
Client ID: BUD COMP-1
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:05
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	12/13/18 12:51	121,2540G	RI

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-02
Client ID: BUD COMP-2
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:15
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	12/13/18 12:51	121,2540G	RI

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-03
Client ID: BUD VOC-1
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:05
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.6		%	0.100	NA	1	-	12/13/18 12:51	121,2540G	RI

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-04
Client ID: BUD VOC-2
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:10
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	12/13/18 12:51	121,2540G	RI

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-05
Client ID: BUD VOC-3
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:12
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	12/13/18 12:51	121,2540G	RI

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-06
Client ID: BUD VOC-4
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:13
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	12/13/18 12:51	121,2540G	RI

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-07
Client ID: BUD VOC-5
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:20
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	12/13/18 12:51	121,2540G	RI

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-08
Client ID: BUD VOC-6
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:25
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	12/13/18 12:51	121,2540G	RI

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

SAMPLE RESULTS

Lab ID: L1850602-09
Client ID: BUD VOC-7
Sample Location: BUFFALO, NY

Date Collected: 12/10/18 08:30
Date Received: 12/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	12/13/18 12:51	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1850602

Report Date: 12/18/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1188980-1 QC Sample: L1850602-01 Client ID: BUD COMP-1						
Solids, Total	85.0	85.2	%	0		20

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1850602-01A	Glass 120ml/4oz unpreserved	A	NA		2.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1850602-01B	Glass 120ml/4oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1850602-01C	Glass 120ml/4oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1850602-02A	Glass 120ml/4oz unpreserved	A	NA		2.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1850602-02B	Glass 120ml/4oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1850602-02C	Glass 120ml/4oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1850602-03A	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-03B	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-03C	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-03D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1850602-03X	Vial MeOH preserved split	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-03Y	Vial Water preserved split	A	NA		2.4	Y	Absent	11-DEC-18 13:19	NYTCL-8260HLW-R2(14)
L1850602-03Z	Vial Water preserved split	A	NA		2.4	Y	Absent	11-DEC-18 13:19	NYTCL-8260HLW-R2(14)
L1850602-04A	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-04B	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-04C	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-04D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1850602-04X	Vial MeOH preserved split	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-04Y	Vial Water preserved split	A	NA		2.4	Y	Absent	11-DEC-18 13:19	NYTCL-8260HLW-R2(14)
L1850602-04Z	Vial Water preserved split	A	NA		2.4	Y	Absent	11-DEC-18 13:19	NYTCL-8260HLW-R2(14)
L1850602-05A	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-05B	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-05C	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-05D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1850602-05X	Vial MeOH preserved split	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-05Y	Vial Water preserved split	A	NA		2.4	Y	Absent	11-DEC-18 13:19	NYTCL-8260HLW-R2(14)
L1850602-05Z	Vial Water preserved split	A	NA		2.4	Y	Absent	11-DEC-18 13:19	NYTCL-8260HLW-R2(14)
L1850602-06A	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-06B	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-06C	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-06D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1850602-06X	Vial MeOH preserved split	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-06Y	Vial Water preserved split	A	NA		2.4	Y	Absent	11-DEC-18 13:19	NYTCL-8260HLW-R2(14)
L1850602-06Z	Vial Water preserved split	A	NA		2.4	Y	Absent	11-DEC-18 13:19	NYTCL-8260HLW-R2(14)
L1850602-07A	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-07B	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-07C	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-07D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1850602-07X	Vial MeOH preserved split	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-07Y	Vial Water preserved split	A	NA		2.4	Y	Absent	11-DEC-18 13:19	NYTCL-8260HLW-R2(14)
L1850602-07Z	Vial Water preserved split	A	NA		2.4	Y	Absent	11-DEC-18 13:19	NYTCL-8260HLW-R2(14)
L1850602-08A	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-08B	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-08C	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-08D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1850602
Report Date: 12/18/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1850602-08X	Vial MeOH preserved split	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-08Y	Vial Water preserved split	A	NA		2.4	Y	Absent	11-DEC-18 13:19	NYTCL-8260HLW-R2(14)
L1850602-08Z	Vial Water preserved split	A	NA		2.4	Y	Absent	11-DEC-18 13:19	NYTCL-8260HLW-R2(14)
L1850602-09A	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-09B	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-09C	5 gram Encore Sampler	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-09D	Plastic 2oz unpreserved for TS	A	NA		2.4	Y	Absent		TS(7)
L1850602-09X	Vial MeOH preserved split	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1850602-09Y	Vial Water preserved split	A	NA		2.4	Y	Absent	11-DEC-18 13:19	NYTCL-8260HLW-R2(14)
L1850602-09Z	Vial Water preserved split	A	NA		2.4	Y	Absent	11-DEC-18 13:19	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	CAMPUS WEST	**Lab Number:**	L1850602
Project Number:	B0473-018-001	**Report Date:**	12/18/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers

Project Name:	CAMPUS WEST	**Lab Number:**	L1850602
Project Number:	B0473-018-001	**Report Date:**	12/18/18

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	CAMPUS WEST	**Lab Number:**	L1850602
Project Number:	B0473-018-001	**Report Date:**	12/18/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
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FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 12/11/18

ALPHA Job #: L1850602

Client Information
Client: Benchmark Env Eng, PLLC
Address: 2558 Hamburg Turnpike
Buffalo, NY 14218
Phone: 716-856-0599
Fax: 716-856-0583
Email:

Project Information
Project Name: CAMPUS WEST
Project Location: BUFFALO, NY
Project #: B0473-018-001
(Use Project name as Project #) ☐
Project Manager: TOM FORGES
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs	Metals	Pesticides	PCBs				Sample Specific Comments	Total Bottle
50602-01	BUD COMP-1	12/10/18	0805	SOIL	BUD		X	X	X	X					
02	BUD COMP-2		0815				X	X	X	X					
03	BUD VOC-1		0805			X									
04	BUD VOC-2		0810			X									
05	BUD VOC-3		0812			X									
06	BUD VOC-4		0813			X									
07	BUD VOC-5		0820			X									
08	BUD VOC-6		0825			X									
09	BUD VOC-7		0830			X									
Container Type						E	A	A	A	A					
Preservative						A	A	A	A	A					

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	12/10/18 1100	ALL	12/10/18 @ 1240
ALL	12/10/18 1655		12/11/18 00:55

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1915074
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Tom Forbes
Phone:	(716) 856-0599
Project Name:	CAMPUS WEST
Project Number:	B0473-018-001
Report Date:	04/21/19

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1915074-01	BUD COMP-3	SOIL	BUFFALO, NY	04/12/19 10:00	04/12/19
L1915074-02	BUD VOC-8	SOIL	BUFFALO, NY	04/12/19 10:15	04/12/19
L1915074-03	BUD VOC-9	SOIL	BUFFALO, NY	04/12/19 10:30	04/12/19

Project Name:	CAMPUS WEST	**Lab Number:**	L1915074
Project Number:	B0473-018-001	**Report Date:**	04/21/19

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	CAMPUS WEST	**Lab Number:**	L1915074
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Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L1915074-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Lisa Westerlind

Title: Technical Director/Representative Date: 04/21/19

ORGANICS

VOLATILES

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1915074
Report Date: 04/21/19

SAMPLE RESULTS

Lab ID: L1915074-02
Client ID: BUD VOC-8
Sample Location: BUFFALO, NY

Date Collected: 04/12/19 10:15
Date Received: 04/12/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/18/19 00:29
Analyst: NLK
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1915074
Report Date: 04/21/19

SAMPLE RESULTS

Lab ID: L1915074-02
Client ID: BUD VOC-8
Sample Location: BUFFALO, NY
Date Collected: 04/12/19 10:15
Date Received: 04/12/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	7.2	J	ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
Methyl Acetate	ND		ug/kg	4.1	0.97	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	82	36.	1
Freon-113	ND		ug/kg	4.1	0.71	1
Methyl cyclohexane	ND		ug/kg	4.1	0.61	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	99		70-130

Project Name: CAMPUS WEST
Project Number: B0473-018-001
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Report Date: 04/21/19

SAMPLE RESULTS

Lab ID: L1915074-03
Client ID: BUD VOC-9
Sample Location: BUFFALO, NY

Date Collected: 04/12/19 10:30
Date Received: 04/12/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/18/19 00:55
Analyst: NLK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.6	3.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.25	1
Chloroform	ND		ug/kg	2.6	0.24	1
Carbon tetrachloride	ND		ug/kg	1.7	0.40	1
1,2-Dichloropropane	ND		ug/kg	1.7	0.22	1
Dibromochloromethane	ND		ug/kg	1.7	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.46	1
Tetrachloroethene	ND		ug/kg	0.86	0.34	1
Chlorobenzene	ND		ug/kg	0.86	0.22	1
Trichlorofluoromethane	ND		ug/kg	6.9	1.2	1
1,2-Dichloroethane	ND		ug/kg	1.7	0.44	1
1,1,1-Trichloroethane	ND		ug/kg	0.86	0.29	1
Bromodichloromethane	ND		ug/kg	0.86	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	0.47	1
cis-1,3-Dichloropropene	ND		ug/kg	0.86	0.27	1
Bromoform	ND		ug/kg	6.9	0.42	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.86	0.28	1
Benzene	ND		ug/kg	0.86	0.28	1
Toluene	ND		ug/kg	1.7	0.93	1
Ethylbenzene	ND		ug/kg	1.7	0.24	1
Chloromethane	ND		ug/kg	6.9	1.6	1
Bromomethane	ND		ug/kg	3.4	1.0	1
Vinyl chloride	ND		ug/kg	1.7	0.58	1
Chloroethane	ND		ug/kg	3.4	0.78	1
1,1-Dichloroethene	ND		ug/kg	1.7	0.41	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	0.24	1
Trichloroethene	ND		ug/kg	0.86	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	3.4	0.25	1

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1915074
Report Date: 04/21/19

SAMPLE RESULTS

Lab ID: L1915074-03
Client ID: BUD VOC-9
Sample Location: BUFFALO, NY
Date Collected: 04/12/19 10:30
Date Received: 04/12/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.4	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	3.4	0.29	1
Methyl tert butyl ether	ND		ug/kg	3.4	0.34	1
p/m-Xylene	ND		ug/kg	3.4	0.96	1
o-Xylene	ND		ug/kg	1.7	0.50	1
cis-1,2-Dichloroethene	ND		ug/kg	1.7	0.30	1
Styrene	ND		ug/kg	1.7	0.34	1
Dichlorodifluoromethane	ND		ug/kg	17	1.6	1
Acetone	14	J	ug/kg	17	8.3	1
Carbon disulfide	ND		ug/kg	17	7.8	1
2-Butanone	ND		ug/kg	17	3.8	1
4-Methyl-2-pentanone	ND		ug/kg	17	2.2	1
2-Hexanone	ND		ug/kg	17	2.0	1
Bromochloromethane	ND		ug/kg	3.4	0.35	1
1,2-Dibromoethane	ND		ug/kg	1.7	0.48	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	1.7	1
Isopropylbenzene	ND		ug/kg	1.7	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.4	0.55	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.4	0.47	1
Methyl Acetate	ND		ug/kg	6.9	1.6	1
Cyclohexane	ND		ug/kg	17	0.94	1
1,4-Dioxane	ND		ug/kg	140	60.	1
Freon-113	ND		ug/kg	6.9	1.2	1
Methyl cyclohexane	ND		ug/kg	6.9	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	99		70-130

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1915074
Report Date: 04/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/17/19 18:23
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-03 Batch: WG1227721-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	0.14	J	ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/17/19 18:23
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-03 Batch: WG1227721-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.24	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: CAMPUS WEST
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/17/19 18:23
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-03 Batch: WG1227721-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1915074

Report Date: 04/21/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG1227721-3 WG1227721-4								
Methylene chloride	91		91		70-130	0		30
1,1-Dichloroethane	97		97		70-130	0		30
Chloroform	89		87		70-130	2		30
Carbon tetrachloride	88		85		70-130	3		30
1,2-Dichloropropane	95		93		70-130	2		30
Dibromochloromethane	79		80		70-130	1		30
1,1,2-Trichloroethane	87		88		70-130	1		30
Tetrachloroethene	78		74		70-130	5		30
Chlorobenzene	78		76		70-130	3		30
Trichlorofluoromethane	91		87		70-139	4		30
1,2-Dichloroethane	100		102		70-130	2		30
1,1,1-Trichloroethane	92		87		70-130	6		30
Bromodichloromethane	87		87		70-130	0		30
trans-1,3-Dichloropropene	91		91		70-130	0		30
cis-1,3-Dichloropropene	88		88		70-130	0		30
Bromoform	82		81		70-130	1		30
1,1,2,2-Tetrachloroethane	88		88		70-130	0		30
Benzene	88		86		70-130	2		30
Toluene	85		83		70-130	2		30
Ethylbenzene	86		83		70-130	4		30
Chloromethane	112		110		52-130	2		30
Bromomethane	92		86		57-147	7		30
Vinyl chloride	94		89		67-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG1227721-3 WG1227721-4								
Chloroethane	89		85		50-151	5		30
1,1-Dichloroethene	88		84		65-135	5		30
trans-1,2-Dichloroethene	87		85		70-130	2		30
Trichloroethene	87		84		70-130	4		30
1,2-Dichlorobenzene	80		77		70-130	4		30
1,3-Dichlorobenzene	81		77		70-130	5		30
1,4-Dichlorobenzene	79		77		70-130	3		30
Methyl tert butyl ether	91		93		66-130	2		30
p/m-Xylene	81		79		70-130	3		30
o-Xylene	79		77		70-130	3		30
cis-1,2-Dichloroethene	85		82		70-130	4		30
Styrene	78		77		70-130	1		30
Dichlorodifluoromethane	88		82		30-146	7		30
Acetone	128		134		54-140	5		30
Carbon disulfide	100		96		59-130	4		30
2-Butanone	109		115		70-130	5		30
4-Methyl-2-pentanone	101		106		70-130	5		30
2-Hexanone	100		103		70-130	3		30
Bromochloromethane	79		78		70-130	1		30
1,2-Dibromoethane	81		83		70-130	2		30
1,2-Dibromo-3-chloropropane	82		85		68-130	4		30
Isopropylbenzene	86		80		70-130	7		30
1,2,3-Trichlorobenzene	78		77		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG1227721-3 WG1227721-4								
1,2,4-Trichlorobenzene	78		75		70-130	4		30
Methyl Acetate	111		116		51-146	4		30
Cyclohexane	107		102		59-142	5		30
1,4-Dioxane	119		121		65-136	2		30
Freon-113	92		88		50-139	4		30
Methyl cyclohexane	92		87		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117		120		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	111		109		70-130
Dibromofluoromethane	99		99		70-130

SEMIVOLATILES

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1915074
Report Date: 04/21/19

SAMPLE RESULTS

Lab ID: L1915074-01
Client ID: BUD COMP-3
Sample Location: BUFFALO, NY

Date Collected: 04/12/19 10:00
Date Received: 04/12/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/19/19 01:44
Analyst: JG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/18/19 11:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1

Project Name: CAMPUS WEST **Lab Number:** L1915074

Project Number: B0473-018-001 **Report Date:** 04/21/19

SAMPLE RESULTS

Lab ID: L1915074-01 Date Collected: 04/12/19 10:00

Client ID: BUD COMP-3 Date Received: 04/12/19

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Carbazole	ND		ug/kg	190	19.	1
Atrazine	ND		ug/kg	150	68.	1
Benzaldehyde	ND		ug/kg	260	52.	1

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1915074
Report Date: 04/21/19

SAMPLE RESULTS

Lab ID: L1915074-01
Client ID: BUD COMP-3
Sample Location: BUFFALO, NY
Date Collected: 04/12/19 10:00
Date Received: 04/12/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	59.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	39.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	62		18-120

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/18/19 23:56
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 04/18/19 11:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1227777-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/18/19 23:56
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 04/18/19 11:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1227777-1					
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/18/19 23:56
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 04/18/19 11:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1227777-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	91		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	81		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1227777-2 WG1227777-3								
Acenaphthene	78		79		31-137	1		50
Hexachlorobenzene	82		84		40-140	2		50
Bis(2-chloroethyl)ether	77		74		40-140	4		50
2-Chloronaphthalene	80		84		40-140	5		50
3,3'-Dichlorobenzidine	67		66		40-140	2		50
2,4-Dinitrotoluene	96		98		40-132	2		50
2,6-Dinitrotoluene	90		90		40-140	0		50
Fluoranthene	77		77		40-140	0		50
4-Chlorophenyl phenyl ether	78		81		40-140	4		50
4-Bromophenyl phenyl ether	77		81		40-140	5		50
Bis(2-chloroisopropyl)ether	89		91		40-140	2		50
Bis(2-chloroethoxy)methane	85		86		40-117	1		50
Hexachlorobutadiene	72		74		40-140	3		50
Hexachlorocyclopentadiene	57		60		40-140	5		50
Hexachloroethane	81		85		40-140	5		50
Isophorone	87		88		40-140	1		50
Naphthalene	76		77		40-140	1		50
Nitrobenzene	86		88		40-140	2		50
NDPA/DPA	84		85		36-157	1		50
n-Nitrosodi-n-propylamine	86		86		32-121	0		50
Bis(2-ethylhexyl)phthalate	96		100		40-140	4		50
Butyl benzyl phthalate	82		81		40-140	1		50
Di-n-butylphthalate	94		93		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1915074

Report Date: 04/21/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1227777-2 WG1227777-3								
Di-n-octylphthalate	107		109		40-140	2		50
Diethyl phthalate	92		94		40-140	2		50
Dimethyl phthalate	84		85		40-140	1		50
Benzo(a)anthracene	86		89		40-140	3		50
Benzo(a)pyrene	88		90		40-140	2		50
Benzo(b)fluoranthene	84		82		40-140	2		50
Benzo(k)fluoranthene	88		93		40-140	6		50
Chrysene	83		86		40-140	4		50
Acenaphthylene	82		83		40-140	1		50
Anthracene	77		78		40-140	1		50
Benzo(ghi)perylene	83		85		40-140	2		50
Fluorene	80		83		40-140	4		50
Phenanthrene	74		75		40-140	1		50
Dibenzo(a,h)anthracene	81		82		40-140	1		50
Indeno(1,2,3-cd)pyrene	82		83		40-140	1		50
Pyrene	78		78		35-142	0		50
Biphenyl	82		85		54-104	4		50
4-Chloroaniline	68		68		40-140	0		50
2-Nitroaniline	92		94		47-134	2		50
3-Nitroaniline	79		79		26-129	0		50
4-Nitroaniline	96		96		41-125	0		50
Dibenzofuran	82		84		40-140	2		50
2-Methylnaphthalene	75		77		40-140	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1227777-2 WG1227777-3								
1,2,4,5-Tetrachlorobenzene	82		83		40-117	1		50
Acetophenone	88		88		14-144	0		50
2,4,6-Trichlorophenol	86		88		30-130	2		50
p-Chloro-m-cresol	95		97		26-103	2		50
2-Chlorophenol	84		86		25-102	2		50
2,4-Dichlorophenol	91		90		30-130	1		50
2,4-Dimethylphenol	93		93		30-130	0		50
2-Nitrophenol	93		97		30-130	4		50
4-Nitrophenol	108		106		11-114	2		50
2,4-Dinitrophenol	81		84		4-130	4		50
4,6-Dinitro-o-cresol	95		95		10-130	0		50
Pentachlorophenol	70		71		17-109	1		50
Phenol	86		88		26-90	2		50
2-Methylphenol	89		89		30-130.	0		50
3-Methylphenol/4-Methylphenol	86		86		30-130	0		50
2,4,5-Trichlorophenol	93		93		30-130	0		50
Carbazole	80		79		54-128	1		50
Atrazine	79		79		40-140	0		50
Benzaldehyde	75		76		40-140	1		50
Caprolactam	121		122		15-130	1		50
2,3,4,6-Tetrachlorophenol	84		86		40-140	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1915074

Report Date: 04/21/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1227777-2 WG1227777-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	81		82		25-120
Phenol-d6	85		86		10-120
Nitrobenzene-d5	82		82		23-120
2-Fluorobiphenyl	73		73		30-120
2,4,6-Tribromophenol	92		93		10-136
4-Terphenyl-d14	68		67		18-120

PCBS

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1915074
Report Date: 04/21/19

SAMPLE RESULTS

Lab ID: L1915074-01
Client ID: BUD COMP-3
Sample Location: BUFFALO, NY

Date Collected: 04/12/19 10:00
Date Received: 04/12/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/19/19 04:15
Analyst: JM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/18/19 14:26
Cleanup Method: EPA 3665A
Cleanup Date: 04/19/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.7	3.35	1	A
Aroclor 1221	ND		ug/kg	37.7	3.78	1	A
Aroclor 1232	ND		ug/kg	37.7	8.00	1	A
Aroclor 1242	ND		ug/kg	37.7	5.08	1	A
Aroclor 1248	ND		ug/kg	37.7	5.66	1	A
Aroclor 1254	ND		ug/kg	37.7	4.13	1	A
Aroclor 1260	ND		ug/kg	37.7	6.97	1	A
Aroclor 1262	ND		ug/kg	37.7	4.79	1	A
Aroclor 1268	ND		ug/kg	37.7	3.91	1	A
PCBs, Total	ND		ug/kg	37.7	3.35	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/19/19 03:13
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 04/18/19 14:26
Cleanup Method: EPA 3665A
Cleanup Date: 04/19/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1227833-1						
Aroclor 1016	ND		ug/kg	31.7	2.82	A
Aroclor 1221	ND		ug/kg	31.7	3.18	A
Aroclor 1232	ND		ug/kg	31.7	6.72	A
Aroclor 1242	ND		ug/kg	31.7	4.28	A
Aroclor 1248	ND		ug/kg	31.7	4.76	A
Aroclor 1254	ND		ug/kg	31.7	3.47	A
Aroclor 1260	ND		ug/kg	31.7	5.86	A
Aroclor 1262	ND		ug/kg	31.7	4.03	A
Aroclor 1268	ND		ug/kg	31.7	3.29	A
PCBs, Total	ND		ug/kg	31.7	2.82	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	70		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1227833-2 WG1227833-3									
Aroclor 1016	83		76		40-140	9		50	A
Aroclor 1260	79		70		40-140	12		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		71		30-150	A
Decachlorobiphenyl	92		84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		74		30-150	B
Decachlorobiphenyl	82		72		30-150	B

PESTICIDES

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

SAMPLE RESULTS

Lab ID: L1915074-01
Client ID: BUD COMP-3
Sample Location: BUFFALO, NY

Date Collected: 04/12/19 10:00
Date Received: 04/12/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/19/19 13:58
Analyst: BM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/18/19 13:26
Cleanup Method: EPA 3620B
Cleanup Date: 04/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.356	1	A
Lindane	ND		ug/kg	0.758	0.339	1	A
Alpha-BHC	ND		ug/kg	0.758	0.215	1	A
Beta-BHC	ND		ug/kg	1.82	0.690	1	A
Heptachlor	ND		ug/kg	0.910	0.408	1	A
Aldrin	ND		ug/kg	1.82	0.641	1	A
Heptachlor epoxide	ND		ug/kg	3.41	1.02	1	A
Endrin	ND		ug/kg	0.758	0.311	1	A
Endrin aldehyde	ND		ug/kg	2.27	0.796	1	A
Endrin ketone	ND		ug/kg	1.82	0.469	1	A
Dieldrin	ND		ug/kg	1.14	0.569	1	A
4,4'-DDE	ND		ug/kg	1.82	0.421	1	A
4,4'-DDD	ND		ug/kg	1.82	0.649	1	A
4,4'-DDT	ND		ug/kg	3.41	1.46	1	A
Endosulfan I	ND		ug/kg	1.82	0.430	1	A
Endosulfan II	ND		ug/kg	1.82	0.608	1	A
Endosulfan sulfate	ND		ug/kg	0.758	0.361	1	A
Methoxychlor	ND		ug/kg	3.41	1.06	1	A
Toxaphene	ND		ug/kg	34.1	9.55	1	A
cis-Chlordane	ND		ug/kg	2.27	0.634	1	A
trans-Chlordane	ND		ug/kg	2.27	0.600	1	A
Chlordane	ND		ug/kg	14.8	6.03	1	A

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1915074
Report Date: 04/21/19

SAMPLE RESULTS

Lab ID: L1915074-01
Client ID: BUD COMP-3
Sample Location: BUFFALO, NY
Date Collected: 04/12/19 10:00
Date Received: 04/12/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	99		30-150	A

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/19/19 13:23
Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 04/18/19 13:26
Cleanup Method: EPA 3620B
Cleanup Date: 04/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1227823-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.649	0.290	A
Alpha-BHC	ND		ug/kg	0.649	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.591	A
Heptachlor	ND		ug/kg	0.779	0.349	A
Aldrin	ND		ug/kg	1.56	0.549	A
Heptachlor epoxide	ND		ug/kg	2.92	0.877	A
Endrin	ND		ug/kg	0.649	0.266	A
Endrin aldehyde	ND		ug/kg	1.95	0.682	A
Endrin ketone	ND		ug/kg	1.56	0.401	A
Dieldrin	ND		ug/kg	0.974	0.487	A
4,4'-DDE	ND		ug/kg	1.56	0.360	A
4,4'-DDD	ND		ug/kg	1.56	0.556	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.521	A
Endosulfan sulfate	ND		ug/kg	0.649	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.909	A
Toxaphene	ND		ug/kg	29.2	8.18	A
cis-Chlordane	ND		ug/kg	1.95	0.543	A
trans-Chlordane	ND		ug/kg	1.95	0.514	A
Chlordane	ND		ug/kg	12.7	5.16	A

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/19/19 13:23
Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 04/18/19 13:26
Cleanup Method: EPA 3620B
Cleanup Date: 04/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1227823-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	106		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	115		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1227823-2 WG1227823-3									
Delta-BHC	110		72		30-150	**42**	Q	30	A
Lindane	108		71		30-150	**41**	Q	30	A
Alpha-BHC	115		76		30-150	**41**	Q	30	A
Beta-BHC	96		66		30-150	**37**	Q	30	A
Heptachlor	107		76		30-150	**34**	Q	30	A
Aldrin	100		66		30-150	**41**	Q	30	A
Heptachlor epoxide	95		65		30-150	**38**	Q	30	A
Endrin	113		75		30-150	**40**	Q	30	A
Endrin aldehyde	114		78		30-150	**38**	Q	30	A
Endrin ketone	130		87		30-150	**40**	Q	30	A
Dieldrin	113		76		30-150	**39**	Q	30	A
4,4'-DDE	103		68		30-150	**41**	Q	30	A
4,4'-DDD	117		78		30-150	**40**	Q	30	A
4,4'-DDT	119		79		30-150	**40**	Q	30	A
Endosulfan I	95		64		30-150	**39**	Q	30	A
Endosulfan II	110		74		30-150	**39**	Q	30	A
Endosulfan sulfate	126		88		30-150	**36**	Q	30	A
Methoxychlor	110		75		30-150	**38**	Q	30	A
cis-Chlordane	79		53		30-150	**39**	Q	30	A
trans-Chlordane	66		44		30-150	**40**	Q	30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1915074

Report Date: 04/21/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1227823-2 WG1227823-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		55		30-150	B
Decachlorobiphenyl	92		62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		57		30-150	A
Decachlorobiphenyl	108		74		30-150	A

METALS

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1915074
Report Date: 04/21/19

SAMPLE RESULTS

Lab ID: L1915074-01
Client ID: BUD COMP-3
Sample Location: BUFFALO, NY
Date Collected: 04/12/19 10:00
Date Received: 04/12/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7820		mg/kg	9.14	2.47	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Antimony, Total	0.549	J	mg/kg	4.57	0.347	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Arsenic, Total	3.33		mg/kg	0.914	0.190	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Barium, Total	69.0		mg/kg	0.914	0.159	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Beryllium, Total	0.274	J	mg/kg	0.457	0.030	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.914	0.090	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Calcium, Total	57200		mg/kg	91.4	32.0	20	04/17/19 07:10	04/17/19 19:10	EPA 3050B	1,6010D	AB
Chromium, Total	11.2		mg/kg	0.914	0.088	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Cobalt, Total	7.01		mg/kg	1.83	0.152	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Copper, Total	14.4		mg/kg	0.914	0.236	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Iron, Total	14400		mg/kg	4.57	0.826	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Lead, Total	13.6		mg/kg	4.57	0.245	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Magnesium, Total	17800		mg/kg	9.14	1.41	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Manganese, Total	670		mg/kg	0.914	0.145	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.074	0.016	1	04/17/19 05:30	04/17/19 10:47	EPA 7471B	1,7471B	GD
Nickel, Total	14.6		mg/kg	2.29	0.221	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Potassium, Total	1100		mg/kg	229	13.2	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Selenium, Total	0.759	J	mg/kg	1.83	0.236	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.914	0.259	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Sodium, Total	110	J	mg/kg	183	2.88	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.83	0.288	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Vanadium, Total	18.1		mg/kg	0.914	0.186	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC
Zinc, Total	63.2		mg/kg	4.57	0.268	2	04/17/19 07:10	04/17/19 14:37	EPA 3050B	1,6010D	LC

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1915074
Report Date: 04/21/19

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1227134-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	04/17/19 05:30	04/17/19 10:03	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1227151-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Iron, Total	0.508	J	mg/kg	2.00	0.361	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Sodium, Total	ND		mg/kg	80.0	1.26	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	04/17/19 07:10	04/17/19 10:31	1,6010D	LC

Project Name: CAMPUS WEST
Project Number: B0473-018-001
Lab Number: L1915074
Report Date: 04/21/19

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1915074

Report Date: 04/21/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1227134-2 SRM Lot Number: D101-540								
Mercury, Total	95		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1915074

Report Date: 04/21/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1227151-2 SRM Lot Number: D101-540					
Aluminum, Total	62	-	50-151	-	
Antimony, Total	144	-	3-196	-	
Arsenic, Total	96	-	83-117	-	
Barium, Total	96	-	83-118	-	
Beryllium, Total	86	-	83-117	-	
Cadmium, Total	93	-	83-117	-	
Calcium, Total	94	-	81-119	-	
Chromium, Total	88	-	81-118	-	
Cobalt, Total	94	-	84-116	-	
Copper, Total	86	-	83-116	-	
Iron, Total	78	-	62-138	-	
Lead, Total	90	-	83-117	-	
Magnesium, Total	76	-	76-124	-	
Manganese, Total	95	-	82-118	-	
Nickel, Total	94	-	82-117	-	
Potassium, Total	73	-	71-130	-	
Selenium, Total	96	-	79-121	-	
Silver, Total	91	-	80-120	-	
Sodium, Total	89	-	72-127	-	
Thallium, Total	94	-	81-119	-	
Vanadium, Total	86	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1915074

Report Date: 04/21/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1227151-2 SRM Lot Number: D101-540					
Zinc, Total	93	-	81-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1227134-3 QC Sample: L1915108-02 Client ID: MS Sample												
Mercury, Total	0.046J	0.144	0.215	**149**	Q	-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1227151-3 QC Sample: L1915431-01 Client ID: MS Sample										
Aluminum, Total	8280	188	11600	**1760**	Q	-	-	75-125	-	20
Antimony, Total	1.02J	47.1	32.4	**69**	Q	-	-	75-125	-	20
Arsenic, Total	10.2	11.3	18.5	**73**	Q	-	-	75-125	-	20
Barium, Total	38.4	188	187	79		-	-	75-125	-	20
Beryllium, Total	1.02	4.71	4.02	**64**	Q	-	-	75-125	-	20
Cadmium, Total	ND	4.81	2.48	**52**	Q	-	-	75-125	-	20
Calcium, Total	23600	943	21800	**0**	Q	-	-	75-125	-	20
Chromium, Total	11.3	18.8	27.7	87		-	-	75-125	-	20
Cobalt, Total	11.4	47.1	42.5	**66**	Q	-	-	75-125	-	20
Copper, Total	14.5	23.6	39.4	106		-	-	75-125	-	20
Iron, Total	21900	94.3	23800	**2020**	Q	-	-	75-125	-	20
Lead, Total	17.5	48.1	48.9	**65**	Q	-	-	75-125	-	20
Magnesium, Total	4910	943	6470	**165**	Q	-	-	75-125	-	20
Manganese, Total	464	47.1	572	**229**	Q	-	-	75-125	-	20
Nickel, Total	14.2	47.1	45.3	**66**	Q	-	-	75-125	-	20
Potassium, Total	442	943	1270	88		-	-	75-125	-	20
Selenium, Total	0.851J	11.3	9.04	80		-	-	75-125	-	20
Silver, Total	ND	28.3	23.1	82		-	-	75-125	-	20
Sodium, Total	56.3J	943	815	86		-	-	75-125	-	20
Thallium, Total	ND	11.3	7.01	**62**	Q	-	-	75-125	-	20
Vanadium, Total	19.8	47.1	58.3	82		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1227151-3 QC Sample: L1915431-01 Client ID: MS Sample									
Zinc, Total	69.8	47.1	110	85	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1227134-4 QC Sample: L1915108-02 Client ID: DUP Sample						
Mercury, Total	0.046J	0.046J	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1227151-4 QC Sample: L1915431-01 Client ID: DUP Sample						
Arsenic, Total	10.2	11.6	mg/kg	13		20

INORGANICS
&
MISCELLANEOUS

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

SAMPLE RESULTS

Lab ID: L1915074-01
Client ID: BUD COMP-3
Sample Location: BUFFALO, NY

Date Collected: 04/12/19 10:00
Date Received: 04/12/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.3		%	0.100	NA	1	-	04/13/19 10:10	121,2540G	RI

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

SAMPLE RESULTS

Lab ID: L1915074-02
Client ID: BUD VOC-8
Sample Location: BUFFALO, NY

Date Collected: 04/12/19 10:15
Date Received: 04/12/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	04/13/19 10:10	121,2540G	RI

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

SAMPLE RESULTS

Lab ID: L1915074-03
Client ID: BUD VOC-9
Sample Location: BUFFALO, NY

Date Collected: 04/12/19 10:30
Date Received: 04/12/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	04/13/19 10:10	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: CAMPUS WEST

Project Number: B0473-018-001

Lab Number: L1915074

Report Date: 04/21/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1226119-1 QC Sample: L1915034-01 Client ID: DUP Sample						
Solids, Total	87.0	85.0	%	2		20

Project Name: CAMPUS WEST
Project Number: B0473-018-001

Lab Number: L1915074
Report Date: 04/21/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1915074-01A	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1915074-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1915074-01C	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L1915074-02A	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1915074-02B	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1915074-02C	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1915074-02D	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1915074-02X	Vial MeOH preserved split	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1915074-02Y	Vial Water preserved split	A	NA		3.1	Y	Absent	13-APR-19 08:48	NYTCL-8260HLW-R2(14)
L1915074-02Z	Vial Water preserved split	A	NA		3.1	Y	Absent	13-APR-19 08:48	NYTCL-8260HLW-R2(14)
L1915074-03A	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1915074-03B	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1915074-03C	5 gram Encore Sampler	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1915074-03D	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1915074-03X	Vial MeOH preserved split	A	NA		3.1	Y	Absent		NYTCL-8260HLW-R2(14)
L1915074-03Y	Vial Water preserved split	A	NA		3.1	Y	Absent	13-APR-19 08:48	NYTCL-8260HLW-R2(14)
L1915074-03Z	Vial Water preserved split	A	NA		3.1	Y	Absent	13-APR-19 08:48	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	CAMPUS WEST	**Lab Number:**	L1915074
Project Number:	B0473-018-001	**Report Date:**	04/21/19

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	CAMPUS WEST	**Lab Number:**	L1915074
Project Number:	B0473-018-001	**Report Date:**	04/21/19

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	CAMPUS WEST	**Lab Number:**	L1915074
Project Number:	B0473-018-001	**Report Date:**	04/21/19

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 4/13/19

ALPHA Job #: L1919074

Client Information
Client: Benchmark Env Eng
Address: 2558 Hamburg Turnpike
Buffalo NY 14218
Phone: 716-856-0599
Fax:
Email:

Project Information
Project Name: Campus West
Project Location: Buffalo, NY
Project #: B0473-018-001
(Use Project name as Project #) ☑
Project Manager: Tom Forbes
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☑

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs	metals	pest/PCBs	Total Bottle
15074-01	BUD Comp-3	4/12/19	1000	Soil	RLD		V	V	V	
-02	BUD VOC 8	↓	1015	↓	↓	V				
-03	BUD VOC 9	↓	1030	↓	↓	V				

Container Type: E A A A
Preservative: A A A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	4/12/19 1300		12 April 2019 1310
	12 April 2019 1310		4/13/19 0850

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NON-HAZARDOUS MATERIAL

EnSol, Inc
661 Main Street
Niagara Falls, New York 14301
Phone (716)285-3920 Fax (716)285-3928

Disposal Location:
Tonawanda Landfill Closure

Project No: _19-3461-11T__

GENERATOR WASTE PROFILE SHEET
NON-HAZARDOUS CONTAMINATED SOIL

GENERATOR INFORMATION:
Generator Name:__Campus West, LLC
Generator Street Address:__366 Elmwood Avenue City:_Buffalo_
State:__New York__ Zip Code:_14222__ Phone: __716-884-3800
Generator Contact:___Richard Gonzalez/Anthony LoRusso__

SITE INFORMATION:
Site Name:____ Campus West Apartments at 129 West__
Site Street Address:__129 West Avenue City: Buffalo_
State:_New York__ Zip Code:_14201_ Phone: __716-225-5332
Site Contact:__ Angela Jackson _ NYSDEC Spill No.:_N/A___

BILLING INFORMATION:
Customer Name:___ Holler Excavating & Grading Inc._____
Customer Billing Address:__590 Cayuga Creek Road, Cheektowaga, NY 14227__
Customer Contact:___Don Strasser_____
Phone:__716-583-0209_____ Email:___dstrasser@hollerexcavating.com___

WASTE STREAM INFORMATION:
Name of Waste:____Non Hazardous Soil (Urban Fill)_____
Process Generating Waste:___from building construction and utility work_____

Estimated Annual Volume: Cubic Yards:___ Tons:_ Additional 3000 ____

Characteristic Components % By Weight
1.__Non Hazardous Soil_____100%_____
2._____

Color:_Brn/Blk____ Odor:_None__ pH Range:_7.9-8.0_ Flash Point:_>70C___
% Solids:_100___ Physical State: __ Liquid __ Slurry __ Sludge _X Solid
Is TCLP analysis attached:_X Yes _ No Material is Non Hazardous:_X Yes _ No

Name of Waste Transporter:__Pariso Logistics_____
Address:_3649_River_Road_Tonawanda_NY____Phone:__716-875-6168_____
NYSDEC Permit No.:__9A 826_____

GENERATOR'S CERTIFICATION, I hereby affirm under penalty of perjury that the information and attachments provided on this form are true to the best of my knowledge and belief, and that the material represented by the above data is non-hazardous according to all state and federal requirements.

Representative and Title of Waste Generator

X Thomas H Forbes / Agent for Generator / Tom Forbes (as Agent) 4-5-19
PRINT WASTE GENERATOR NAME/TITLE SIGNATURE Date

Virgin Fuel Oil/Gasoline Spill Certification

X_____ _____ _____
PRINT WASTE GENERATOR NAME/TITLE SIGNATURE Date

EnSol Inc. Approval Agent

X_____ _____ _____
PRINT AGENT NAME AND TITLE SIGNATURE Date

WASTE MATERIAL CRITERIA SHEET
NON HAZARDOUS CONTAMINATED SOIL

This sheet is to be used as a cover page for analytical data

SITE INFORMATION:
Site Name:____Campus West Apartments at 129 West
Site Street Address:__129 West Avenue_ City:_Buffalo
State:_New York__ Zip Code:_14201__ Phone: __716-225-5332__
Site Contact:__ Angela Jackson __ NYSDEC Spill No.:___N/A_____

WASTE TYPE: Non Hazardous Contaminated Soil

Soil Volume (see Testing Requirements below)

Total Estimated Volume: __Additional 3000___tons

Is soil analysis information provided for the following?

Ignitability

YES X Found on page _ 66,67,68 NO Explain: _____

pH

YES X Found on page _ 69,70,71 NO Explain: ____

TCLP - Benzene

YES X Found on page __ 10,11,12 NO ☐ Explain: _____

TCLP - Lead

YES X Found on page __ 54,55,56 NO ☐ Explain:_____

TPH

YES X Found on page _24,25,26_ NO Explain: _

Sample Type

X Composite Sample

☐ Grab Sample (5 grab samples = 1 composite sample)

Testing Requirements:
A Chain of Custody must accompany all analytical data. There should be a minimum of 1 composite sample for 0 – 500 tons, 2 composite samples for 500 – 1000 tons and 1 composite sample for each additional 1000 tons.

WASTE MATERIAL CRITERIA SHEET
SPECIAL WASTE

This sheet is to be used as a cover page for analytical data

SITE INFORMATION:
Site Name:____Campus West Apartments at 129 West
Site Street Address:__ 129 West Avenue __ City:_Buffalo_
State:_New York__ Zip Code:_14201__ Phone: __716-225-5332__
Site Contact:__Angela Jackson___ NYSDEC Spill No.:__N/A__

Source of Waste Contamination: __from building construction and utility work__

Is the Site a hazardous waste site cleanup, brown field site, historical industrial or commercial property, or some other type of cleanup project?_YES NO X

(If yes, please include information from the project sponsor, contractor and/or the environmental consultant.)

Soil Volume (see Testing Requirements below)

Total Estimated Volume: __Additional 3000_tons

Is soil analysis information provided for the following?

TCLP - Volatiles
YES X Found on page __10,11,12 NO ☐ Explain: _____

TCLP – Semi-volatiles
YES X Found on page __18,19,20 NO ☐ Explain: _____

TCLP – Metals
YES X Found on page __54,55,56_ NO ☐ Explain: _____

TCLP – PCB's
YES X Found on page _30,31,32_ NO Explain: __

TCLP – Herbicides and Pesticides
YES X Found on page __36-44 NO Explain:_

Reactive Cyanide and Sulfide
YES X Found on page _ 69,70,71_____ NO Explain: __

MSDS Information

YES ☐ Found on page _____ NO X Explain: __N/A_____

Sample Type

X Composite Sample

☐ Grab Sample (5 grab samples = 1 composite sample)

Testing Requirements:
A Chain of Custody must accompany all analytical data. There should be a minimum of 1 composite sample for 0 – 500 tons, 2 composite samples for 500 – 1000 tons and 1 composite sample for each additional 1000 tons.

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Manifest Invoicing

Project No: 19-3461-11T

Customer Name:
Holler Excavating & Grading Inc.

Address: 590 Cayuga Creek Road
City: Cheektowaga
State New York **Zip:** 14227

Generator Name:
Campus West, LLC

Address: 366 Elmwood Av
City: Buffalo
State NY **Zip:** 14222

Location Name :
Campus West Apartments at 129 West

Address: 129 West Avenue
City: Buffalo
State NY **Zip:** 1420

Manifest No	TicketDate	Trucker Ticket Number	Weight Ticket Number	TruckID	Actual Tonnage	Minimum Tonnage	Billable Tonnage:	Liners Used	Trucker Wait Time
451478	4/1/2019		132194	33	15.62	0	15.62	0	
451479	4/1/2019		132242	40	19.85	0	19.85	0	
451480	4/1/2019		132228	37	23.30	0	23.30	0	
451481	4/1/2019		132233	1	23.48	0	23.48	0	
451482	4/1/2019		132227	97	21.35	0	21.35	0	
451483	4/1/2019		132234	13	22.38	0	22.38	0	
451484	4/1/2019		132226	33	24.81	0	24.81	0	
451485	4/1/2019		132238	229	22.13	0	22.13	0	
451486	4/1/2019		132240	98	20.21	0	20.21	0	
451487	4/1/2019		132239	33	22.25	0	22.25	0	
451488	4/1/2019		132241	37	23.58	0	23.58	0	
451489	4/1/2019		132230	38	23.16	0	23.16	0	
451490	4/1/2019		132231	34	21.79	0	21.79	0	
451491	4/1/2019		132246	17	24.51	0	24.51	0	
451492	4/1/2019		132225	98	19.70	0	19.70	0	

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451493	4/1/2019		132245	34	22.69	0	22.69	0	
451494	4/1/2019		363061	38	22.16	0	22.16	0	
451495	4/1/2019		132248	13	21.77	0	21.77	0	
451496	4/1/2019		132232	17	22.83	0	22.83	0	
451497	4/1/2019		132220	13	22.21	0	22.21	0	
451498	4/1/2019		132219	1	20.50	0	20.50	0	
451499	4/1/2019		132218	34	19.06	0	19.06	0	
451500	4/1/2019		132217	38	22.94	0	22.94	0	
451501	4/1/2019		132221	242	20.35	0	20.35	0	
451502	4/1/2019		132243	97	20.39	0	20.39	0	
451507	4/1/2019		132195	17	18.63	0	18.63	0	
451508	4/1/2019		132196	37	19.02	0	19.02	0	
451509	4/1/2019		132212	98	19.35	0	19.35	0	
451510	4/1/2019		132210	30	22.43	0	22.43	0	
451511	4/1/2019		132211	229	23.70	0	23.70	0	

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Manifest No	TicketDate	Trucker Ticket Number	Weight Ticket Number	TruckID	Actual Tonnage	Minimum Tonnage	Billable Tonnage:	Liners Used	Trucker Wait Time
451512	4/1/2019		132209	1	21.29	0	21.29	0	
451513	4/1/2019		132222	30	22.24	0	22.24	0	
451514	4/1/2019		132223	229	24.59	0	24.59	0	
451515	4/1/2019		132213	97	19.63	0	19.63	0	
451516	4/1/2019		132215	33	21.87	0	21.87	0	
451517	4/1/2019		132208	34	22.57	0	22.57	0	
451518	4/1/2019		132207	37	25.44	0	25.44	0	
451519	4/1/2019		132206	17	24.09	0	24.09	0	
451520	4/1/2019		132204	33	25.78	0	25.78	0	
451521	4/1/2019		132247	1	24.19	0	24.19	0	
451522	4/1/2019		132216	37	22.62	0	22.62	0	
451523	4/1/2019		132198	1	22.50	0	22.50	0	
451524	4/1/2019		132201	98	20.95	0	20.95	0	
451525	4/1/2019		132202	229	24.07	0	24.07	0	
451526	4/1/2019		132203	97	30.92	0	30.92	0	

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Manifest No	TicketDate	Trucker Ticket Number	Weight Ticket Number	TruckID	Actual Tonnage	Minimum Tonnage	Billable Tonnage:	Liners Used	Trucker Wait Time
451528	4/1/2019		132236	242	20.81	0	20.81	0	
451529	4/1/2019		132200	30	23.18	0	23.18	0	
451530	4/1/2019		132237	30	23.43	0	23.43	0	
451531	4/1/2019		132197	34	17.81	0	17.81	0	
452378	4/11/2019		132405	242	19.63	0	19.63	0	
452379	4/11/2019		132406	58	22.56	0	22.56	0	
452380	4/11/2019		132407	56	21.40	0	21.40	0	
452381	4/11/2019		132408	223	24.18	0	24.18	0	
452382	4/11/2019		132409	34	20.34	0	20.34	0	
452383	4/11/2019		132410	32	17.88	0	17.88	0	
452384	4/11/2019		132411	16	19.45	0	19.45	0	
452385	4/11/2019		132412	242	20.30	0	20.30	0	
452386	4/11/2019		132434	223	19.99	0	19.99	0	
452387	4/11/2019		132413	01	22.98	0	22.98	0	
452388	4/11/2019		132440	32	16.52	0	16.52	0	

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452389	4/11/2019		132442	97	20.31	0	20.31	0	
452390	4/11/2019		132427	97	21.42	0	21.42	0	
452391	4/11/2019		132439	34	19.65	0	19.65	0	
452392	4/11/2019		132441	16	21.26	0	21.26	0	
452393	4/11/2019		132443	01	22.81	0	22.81	0	
452394	4/11/2019		132425	56	26.89	0	26.89	0	
452395	4/11/2019		132414	58	24.92	0	24.92	0	
452396	4/11/2019		132416	56	18.02	0	18.02	0	
452397	4/11/2019		132417	97	20.69	0	20.69	0	
452398	4/11/2019		132415	223	21.87	0	21.87	0	
452399	4/11/2019		132431	242	19.45	0	19.45	0	
452400	4/11/2019		132437	56	25.11	0	25.11	0	
452401	4/11/2019		132429	16	20.13	0	20.13	0	
452402	4/11/2019		132428	32	17.86	0	17.86	0	
452403	4/11/2019		132432	01	19.07	0	19.07	0	

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452404	4/11/2019		132433	58	22.18	0	22.18	0	
452405	4/11/2019		132426	34	21.95	0	21.95	0	
452406	4/11/2019		132424	223	21.95	0	21.95	0	
452407	4/11/2019		132422	01	19.64	0	19.64	0	
452408	4/11/2019		132421	242	19.42	0	19.42	0	
452409	4/11/2019		132423	58	23.78	0	23.78	0	
452410	4/11/2019		132420	16	21.74	0	21.74	0	
452411	4/11/2019		132419	32	21.22	0	21.22	0	
452412	4/11/2019		132418	34	22.83	0	22.83	0	
452413	4/11/2019		132444	58	22.47	0	22.47	0	
452414	4/11/2019		132452	16	21.50	0	21.50	0	
452416	4/11/2019		132461	56	25.53	0	25.53	0	
452417	4/11/2019		132460	34	22.51	0	22.51	0	
452418	4/11/2019		132458	223	23.37	0	23.37	0	
452419	4/11/2019		132455	38	21.65	0	21.65	0	

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Manifest No	TicketDate	Trucker Ticket Number	Weight Ticket Number	TruckID	Actual Tonnage	Minimum Tonnage	Billable Tonnage:	Liners Used	Trucker Wait Time
452420	4/11/2019		132454	01	18.53	0	18.53	0	
452421	4/11/2019		132451	32	18.67	0	18.67	0	
452422	4/11/2019		132450	56	23.95	0	23.95	0	
452423	4/11/2019		132449	34	19.59	0	19.59	0	
452424	4/11/2019		132446	38	21.75	0	21.75	0	
452425	4/11/2019		132447	223	19.99	0	19.99	0	
452426	4/11/2019		132448	242	20.49	0	20.49	0	
452427	4/11/2019		132453	58	25.92	0	25.92	0	
452428	4/11/2019		132456	97	21.10	0	21.10	0	
452429	4/11/2019		132457	242	19.55	0	19.55	0	
452430	4/11/2019		132464	01	21.95	0	21.95	0	
452431	4/11/2019		132462	32	19.31	0	19.31	0	
452432	4/11/2019		132463	58	23.50	0	23.50	0	
452433	4/11/2019		132465	16	22.22	0	22.22	0	
452434	4/11/2019		132466	38	23.80	0	23.80	0	

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Manifest No	TicketDate	Trucker Ticket Number	Weight Ticket Number	TruckID	Actual Tonnage	Minimum Tonnage	Billable Tonnage:	Liners Used	Trucker Wait Time
452435	4/15/2019		130459	156	25.98	0	25.98	0	
452436	4/15/2019		130460	32	18.64	0	18.64	0	
452437	4/15/2019		130458	60	24.98	0	24.98	0	
452438	4/15/2019		130457	600	26.82	0	26.82	0	
452439	4/15/2019		130453	500	22.88	0	22.88	0	
452440	4/15/2019		130464	500	25.09	0	25.09	0	
452441	4/15/2019		130469	60	23.44	0	23.44	0	
452442	4/15/2019		130468	34	25.31	0	25.31	0	
452443	4/15/2019		130467	16	25.27	0	25.27	0	
452444	4/15/2019		130466	33	26.24	0	26.24	0	
452445	4/15/2019		130462	13	23.71	0	23.71	0	
452446	4/15/2019		130461	57	24.13	0	24.13	0	
452447	4/15/2019		130456	55	25.05	0	25.05	0	
452448	4/15/2019		130455	34	26.39	0	26.39	0	
452449	4/15/2019		130454	16	21.67	0	21.67	0	

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452450	4/15/2019		132548	32	22.82	0	22.82	0	
452451	4/15/2019		132549	57	25.89	0	25.89	0	
452452	4/15/2019		130452	33	22.72	0	22.72	0	
452453	4/15/2019		132547	56	27.87	0	27.87	0	
452454	4/15/2019		132546	60	27.89	0	27.89	0	
452455	4/15/2019		132545	58	29.02	0	29.02	0	
452456	4/15/2019		132544	34	26.40	0	26.40	0	
452457	4/15/2019		132543	500	25.82	0	25.82	0	
452458	4/15/2019		132541	33	26.08	0	26.08	0	
452459	4/15/2019		130451	13	23.88	0	23.88	0	
452460	4/12/2019		132540	57	23.86	0	23.86	0	
452461	4/12/2019		132539	200	24.83	0	24.83	0	
452462	4/12/2019		132537	1	22.38	0	22.38	0	
452463	4/12/2019		132538	223	22.83	0	22.83	0	
452464	4/12/2019		132536	38	22.32	0	22.32	0	

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452465	4/12/2019		132535	37	21.19	0	21.19	0	
452466	4/12/2019		132534	32	19.83	0	19.83	0	
452467	4/12/2019		132533	34	23.16	0	23.16	0	
452468	4/12/2019		132532	229	24.77	0	24.77	0	
452469	4/12/2019		132531	56	25.52	0	25.52	0	
452470	4/12/2019		132530	57	25.23	0	25.23	0	
452471	4/12/2019		132529	200	23.84	0	23.84	0	
452472	4/12/2019		132528	1	21.27	0	21.27	0	
452473	4/12/2019		132527	223	23.22	0	23.22	0	
452474	4/12/2019		132526	38	22.73	0	22.73	0	
452475	4/12/2019		132525	37	20.76	0	20.76	0	
452476	4/12/2019		132524	32	18.82	0	18.82	0	
452477	4/12/2019		132523	34	19.97	0	19.97	0	
452478	4/12/2019		132522	229	20.27	0	20.27	0	
452479	4/12/2019		132520	56	23.29	0	23.29	0	

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452480	4/12/2019		132519	57	23.02	0	23.02	0	
452481	4/12/2019		132518	200	20.63	0	20.63	0	
452482	4/12/2019		132516	223	21.21	0	21.21	0	
452483	4/12/2019		132517	1	23.34	0	23.34	0	
452484	4/12/2019		132512	32	18.54	0	18.54	0	
452485	4/12/2019		132515	38	19.98	0	19.98	0	
452486	4/12/2019		132513	37	19.48	0	19.48	0	
452487	4/12/2019		132511	34	22.69	0	22.69	0	
452488	4/12/2019		132510	229	22.76	0	22.76	0	
452489	4/12/2019		132509	56	24.81	0	24.81	0	
452490	4/12/2019		132508	57	24.33	0	24.33	0	
452491	4/12/2019		132507	200	23.02	0	23.02	0	
452492	4/12/2019		132506	223	21.81	0	21.81	0	
452493	4/12/2019		132504	1	24.69	0	24.69	0	
452494	4/12/2019		132503	38	22.19	0	22.19	0	

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City: Buffalo
State NY **Zip:** 1420

Manifest No	TicketDate	Trucker Ticket Number	Weight Ticket Number	TruckID	Actual Tonnage	Minimum Tonnage	Billable Tonnage:	Liners Used	Trucker Wait Time
452495	4/12/2019		132502	37	21.05	0	21.05	0	
452496	4/12/2019		132501	32	20.32	0	20.32	0	
452497	4/12/2019		132500	34	20.64	0	20.64	0	
452498	4/12/2019		132499	56	24.26	0	24.26	0	
452499	4/12/2019		132498	57	24.88	0	24.88	0	
452500	4/12/2019		132497	200	21.90	0	21.90	0	
452501	4/12/2019		132496	229	20.40	0	20.40	0	
452502	4/12/2019		132495	223	23.32	0	23.32	0	
452503	4/12/2019		132494	1	21.98	0	21.98	0	
452504	4/12/2019		132491	37	21.95	0	21.95	0	
452505	4/12/2019		132490	32	17.07	0	17.07	0	
452506	4/12/2019		132489	32	21.92	0	21.92	0	
452507	4/12/2019		132488	56	21.40	0	21.40	0	
452508	4/12/2019		132487	57	20.24	0	20.24	0	
452509	4/12/2019		132486	200	22.42	0	22.42	0	

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

Project No: 19-3461-11T

Customer Name:
Holler Excavating & Grading Inc.

Address: 590 Cayuga Creek Road
City: Cheektowaga
State New York **Zip:** 14227

Generator Name:
Campus West, LLC

Address: 366 Elmwood Av
City: Buffalo
State NY **Zip:** 14222

Location Name :
Campus West Apartments at 129 West

Address: 129 West Avenue
City: Buffalo
State NY **Zip:** 1420

Manifest No	TicketDate	Trucker Ticket Number	Weight Ticket Number	TruckID	Actual Tonnage	Minimum Tonnage	Billable Tonnage:	Liners Used	Trucker Wait Time
452510	4/12/2019		132485	229	20.05	0	20.05	0	
452511	4/12/2019		132484	223	21.83	0	21.83	0	
452512	4/12/2019		132482	1	22.71	0	22.71	0	
452513	4/12/2019		132493	38	21.23	0	21.23	0	
452514	4/12/2019		132473	1	23.82	0	23.82	0	
452515	4/12/2019		132470	38	26.56	0	26.56	0	
452516	4/12/2019		132469	37	26.40	0	26.40	0	
452517	4/12/2019		132481	38	20.55	0	20.55	0	
452518	4/12/2019		132479	37	23.86	0	23.86	0	
452519	4/12/2019		132475	57	28.47	0	28.47	0	
452520	4/12/2019		132474	200	25.67	0	25.67	0	
452521	4/12/2019		132476	56	26.75	0	26.75	0	
452522	4/12/2019		132477	34	24.47	0	24.47	0	
452523	4/12/2019		132478	32	19.50	0	19.50	0	
452524	4/11/2019		132468	242	22.35	0	22.35	0	

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Generator Name:
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Address: 366 Elmwood Av
City: Buffalo
State NY **Zip:** 14222

Location Name :
Campus West Apartments at 129 West

Address: 129 West Avenue
City: Buffalo
State NY **Zip:** 1420

Manifest No	TicketDate	Trucker Ticket Number	Weight Ticket Number	TruckID	Actual Tonnage	Minimum Tonnage	Billable Tonnage:	Liners Used	Trucker Wait Time
452525	4/11/2019		132467	97	23.67	0	23.67	0	
452752	4/18/2019		130486	38	22.98	0	22.98	0	
452753	4/18/2019		130493	13	18.18	0	18.18	0	
452754	4/18/2019		130494	37	22.58	0	22.58	0	
452786	4/18/2019		130508	33	22.63	0	22.63	0	
452787	4/18/2019		130507	40	20.41	0	20.41	0	
452788	4/18/2019		130506	37	21.32	0	21.32	0	
452789	4/18/2019		130505	13	21.31	0	21.31	0	
452790	4/18/2019		130504	33	21.03	0	21.03	0	
452791	4/18/2019		130503	40	19.96	0	19.96	0	
452792	4/18/2019		130502	37	21.90	0	21.90	0	
452793	4/18/2019		130501	13	20.21	0	20.21	0	
452794	4/18/2019		130499	33	22.41	0	22.41	0	
452795	4/18/2019		130498	37	22.22	0	22.22	0	
452796	4/18/2019		130496	13	21.05	0	21.05	0	

Current reporting period April 16, 2019 to April 16, 2020

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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

Project No: 19-3461-11T

Customer Name:
Holler Excavating & Grading Inc.

Address: 590 Cayuga Creek Road
City: Cheektowaga
State New York **Zip:** 14227

Generator Name:
Campus West, LLC

Address: 366 Elmwood Av
City: Buffalo
State NY **Zip:** 14222

Location Name :
Campus West Apartments at 129 West

Address: 129 West Avenue
City: Buffalo
State NY **Zip:** 1420

Manifest No	TicketDate	Trucker Ticket Number	Weight Ticket Number	TruckID	Actual Tonnage	Minimum Tonnage	Billable Tonnage:	Liners Used	Trucker Wait Time
452797	4/18/2019		130491	37	22.19	0	22.19	0	
452798	4/18/2019		130490	13	21.92	0	21.92	0	
452799	4/18/2019		130489	37	22.32	0	22.32	0	
452800	4/18/2019		130488	13	19.24	0	19.24	0	

Number of Mainfests: 214
Code 1: 5261
Date 1: 04/25/2019

Total Actual Tonnage:	4,772.96	Total Billable Tonnage:	4,772.96	Total Liners Used	0	Total Time (minutes)	

Total tonnage for current reporting period: 385 tons

APPENDIX D

BACKFILL DOCUMENTATION

LAFARGE

Daniel Thomas
400 Hinman Rd.
Lockport, NY 14094
716-260-6017 (cell)
716-433-4930 (fax)

4/16/2019

CM Holler

Att:
Re:
Email:

To whom it may concern:

This is to certify that the material being supplied to the above project conforms to the outlined NYSDOT requirements for 304-2.02 Bases and Subbases. Below is the gradation for Subbase Course Type 2 item 304.12.

Location: Lockport — Source No. 5-5R
Material Type: Subbase Course Type 2 — Test No. 18AR61

Sieve Size	Weight	% Ret	% Pass	Spec
2"	0.0	0.0	100.0	100
1 1/2"	190.3	1.6	98.4	
1"	737.3	6.2	92.2	
3/4"	451.9	3.8	88.4	
1/2"	2699.5	22.7	65.7	
1/4"	2723.3	22.9	42.8	25-60
1/8"	915.7	7.7	35.1	
#20	535.1	4.5	30.6	
#40	808.7	6.8	23.8	0-40
#80	666.0	5.6	18.2	
#200	1260.6	10.6	7.6	0-10
pan	903.8	7.6		
Total	11892.2			

Sincerely,

Daniel Thomas
Quality Control
Lafarge A&C

LAFARGE

Daniel Thomas
400 Hinman Rd.
Lockport, NY 14094
716-260-6017 (cell)
716-433-4930 (fax)

4/16/19

CM Holler

Re:
Email:

To whom it may concern:

This is to certify that the material being supplied to the above project conforms to the outlined NYSDOT requirements for Section 703-02 Coarse Aggregate. Below is a gradation for NYSDOT Clear #1's

Location: Lockport
Material Type: NYSDOT #1 Stone

Source No. 5-5R
Test No. 18AR61

Sieve Size	Weight	% Ret	% Pass	Spec
1"	0.0	0.0	100.0	100
3/4"	0.0	0.0	100.0	
1/2"	576.7	6.9	93.1	90-100
3/8"	2699.7	32.3	60.8	
1/4"	3869.9	46.3	14.5	0-15
#4	610.2	7.3	7.2	
#8	342.7	4.1	3.1	
pan	259.1	3.1		
Total	8358.3			

Sincerely,

Daniel Thomas
Quality Control
Lafarge AC&A

Christopher Tobin
400 Hinman Rd.
Lockport, NY,14094
716-289-7970

To Whom It May Concern:

This letter is to confirm that the material being provided from our plant in Lockport, NY, is from a natural, clean and contaminant free source of aggregates that is annually monitored by the New York State Department of Transportation and The New York State Department of Environmental Conservation.

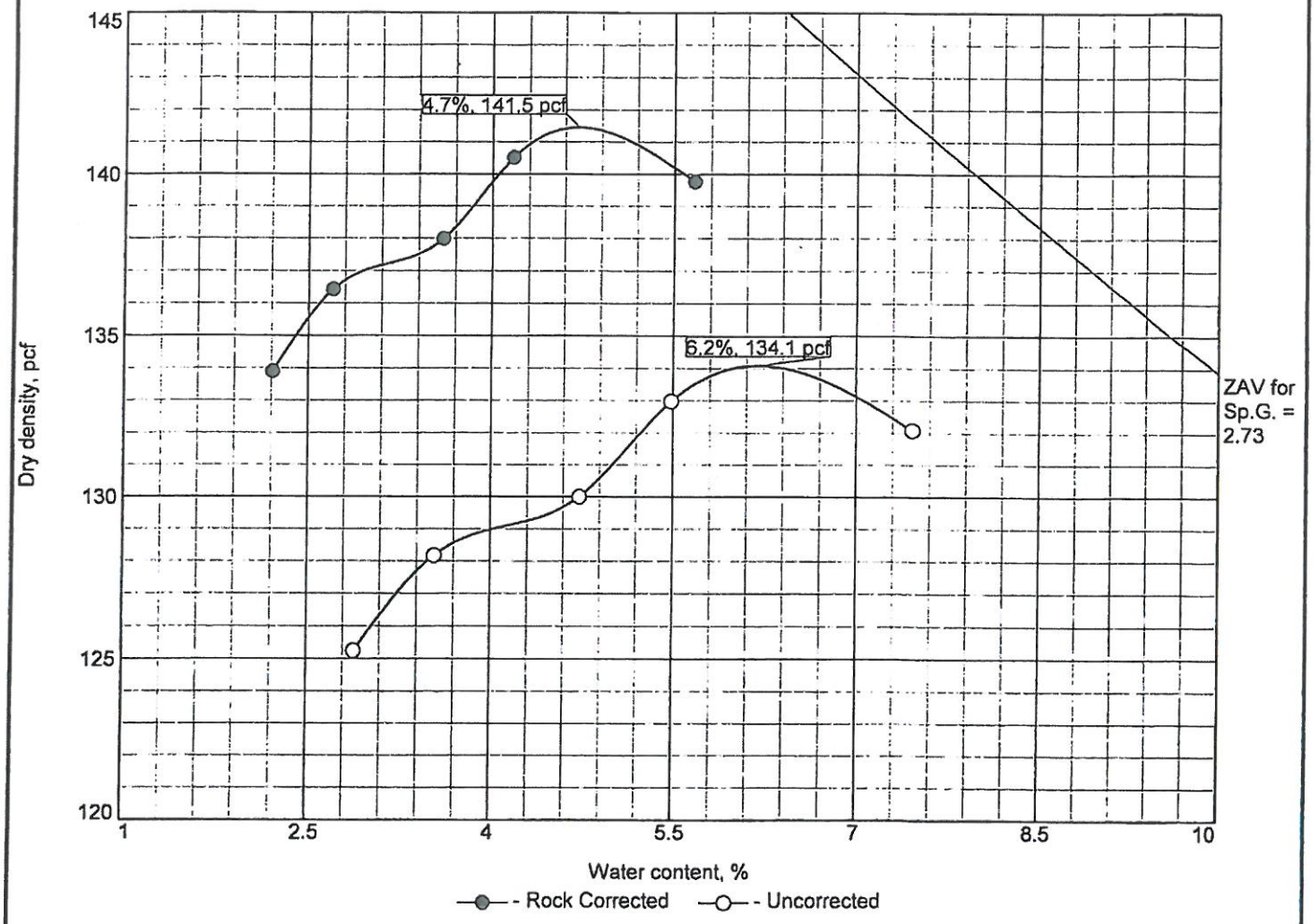
Please feel free to contact me at the number above with any questions and I would be happy to assist in any way possible. Thank you.

Regards,

C. T

Christopher Tobin
Quality Control Technician

COMPACTION TEST REPORT



Test specification: ASTM D 698-07 Method C Standard
ASTM D 4718-87 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
Stockpile	GP-GM	A-1-a		2.73	NV	NP	24.4	8.7

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 141.5 pcf	134.1 pcf	2" Run of Crusher Stone
Optimum moisture = 4.7 %	6.2 %	

Project No. 17-1122 **Client:** Lafarge North America
Project: Materials Testing
o **Location:** Lockport Quarry **Depth:** Stockpile **Sample Number:** 17-04

GLYNN GEOTECHNICAL ENGINEERING
Lockport, New York

Remarks:
Gradation Provided by Lafarge

Figure

Tested By: GEL **Checked By:** MWG

GLYNN GROUP
ENGINEERING & ARCHITECTURE, PLLC

From: Lopes, Anthony (DEC) <anthony.lopes@dec.ny.gov>
Sent: Friday, May 03, 2019 10:27 AM
To: Rick L. Dubisz <RDubisz@Turnkeyllc.com>
Subject: RE: Campus West Site Buffalo

Rick,
No chem analysis required if from permitted quarry.
Tony

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

From: Rick L. Dubisz <RDubisz@Turnkeyllc.com>
Sent: Friday, May 03, 2019 9:42 AM
To: Lopes, Anthony (DEC) <anthony.lopes@dec.ny.gov>
Subject: Campus West Site Buffalo

Good Morning Tony,

In regards to the Campus West Site (BCP Site # C915242) on West & Maryland Streets Buffalo.
The contractor has imported select fill (#2 Crusher Run Stone) as sub-base for the excavation below the building. The stone is from the Lafarge Quarry in Lockport , NY.
As shown on the attached gradation analysis, the percent fines passing the # 80 sieve is > 10%. This seems to be common with stone originating from that quarry.
With that said, will chemical analysis still be required on the stone? As mentioned the material is primarily used as sub-base, and will not be used as final cover material.

Let me know your thoughts on this.

Thanks,
Rick Dubisz

Richard L. Dubisz
Senior Project Scientist
rdubisz@turnkeyllc.com

TurnKey Environmental Restoration, LLC
https://protect2.fireeye.com/url?k=504ef00c-0c6d17d7-504c0939-0cc47aa8c6e0-29bfa768f7bb5e09&u=http://www.benchmarkturnkey.com/
2558 Hamburg Turnpike, Suite 300, Buffalo, NY 14218
Phone: (716) 856-0635, , *Facsimile:* (716) 856-0583 Cell -716-998-4334

Strong Advocates | Effective Solutions | Integrated Implementation

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BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

SUMMARY OF IMPORTED MATERIALS
STONE
295 MARYLAND AVENUE SITE
BUFFALO, NEW YORK

Date	Responsible Company	Material Source	Ticket #	Tons	Material Type
4/16/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128479637	20.25	2" CR
4/16/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128479691	20.36	2" CR
4/16/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128479668	22.46	2" CR
4/16/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128479649	20.9	2" CR
4/16/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128479648	21.50	2" CR
4/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128479816	21.62	2" CR
4/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128479901	20.64	2" CR
4/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128479813	20.12	2" CR
4/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128479861	21.52	2" CR
4/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128479895	21.55	2" CR
4/19/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128480314	19.50	2" CR
4/26/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128481482	18.66	No.1/No.2
4/26/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128481539	20.57	No.1/No.2
4/26/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128481596	20.44	No.1/No.2
4/26/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128481650	20.21	2" CR
4/26/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128481703	19.89	2" CR
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485714	22.46	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485754	20.65	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485795	22.46	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485848	22.28	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485705	22.27	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485753	21.22	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485793	22.36	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485843	22.08	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485704	20.82	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485742	20.64	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485792	21.01	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485844	21.19	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485713	22.46	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485756	22.56	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485809	21.92	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485860	22.29	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485740	20.53	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485789	20.21	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485842	20.98	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485703	20.62	No.1/No.2
5/17/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128485836	22.68	No.1/No.2
5/21/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128486274	20.18	No.1/No.2
5/24/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128487427	21.92	No.1/No.2
5/24/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128487495	22.45	2" CR
5/24/2019	Holler Excavating & Grading Inc.	Lafarge - Lockport Quarry	128487551	22.04	No.1/No.2
Total Imported Stone				870.47	

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128479637 4/16/2019 11:50:57AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: HOL16 License 75059M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 68,000

Product: 7043 CS,2" BASE MATERIAL,2" - #200

	Pounds	Alt
Gross:	66760	30282
Tare:	26260 *	11911 *
Net:	40500	18370
Quantity:	20.25 Ton	
Today:	20.25 Ton	
Loads:	1	

* P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 2 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128479691 4/16/2019 1:16:43PM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: HOL16 License 75059M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 68,000

Product: 7043 CS,2" BASE MATERIAL,2" - #200

	Pounds	Alt
Gross:	66980	30382
Tare:	26260 *	11911 *
Net:	40720	18470
Quantity:	20.36 Ton	
Today:	105.47 Ton	
Loads:	5	

* P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 2 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128479668 4/16/2019 12:43:32PM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: PLI17 License 79722M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 73,750

Product: 7043 CS,2" BASE MATERIAL,2" - #200

	Pounds	Alt
Gross:	72900	33067
Tare:	27980	12692
Net:	44920	20375
Quantity:	22.46 Ton	
Today:	85.11 Ton	
Loads:	4	

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128479649 4/16/2019 12:17:35PM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: BTS500 License 53897JE
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 0

Product: 7043 CS,2" BASE MATERIAL,2" - #200

	Pounds	Alt
Gross:	67740	30726
Tare:	25940 *	11766 *
Net:	41800	18960
Quantity:	20.90 Ton	
Today:	62.65 Ton	
Loads:	3	

* P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128479648 4/16/2019 12:16:42PM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: PAR242 License 39492JZ
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 68,000

Product: 7043 CS,2" BASE MATERIAL,2" - #200

	Pounds	Alt
Gross:	66780	30291
Tare:	23780	10786
Net:	43000	19504
Quantity:	21.50 Ton	
Today:	41.75 Ton	
Loads:	2	

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 2 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128479816 4/17/2019 9:28:34AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: BTS500 License 53897JF
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 0

Product: 7043 CS,2" BASE MATERIAL,2" - #200

	Pounds	Alt
Gross:	69180	31380
Tare:	25940 *	11766 *
Net:	43240	19613
Quantity:	21.62 Ton	
Today:	41.74 Ton	
Loads:	2	

* P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 2 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128479901 4/17/2019 1:15:53PM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: HOL16 License 75059M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 68,000

Product: 7043 CS,2" BASE MATERIAL,2" - #200

	Pounds	Alt
Gross:	67540	30636
Tare:	26260 *	11911 *
Net:	41280	18724

Quantity: 20.64 Ton
Today: 105.45 Ton
Loads: 5 * P. T.

Cash Sale Price Amount
Material:
Other:
Tax:
Total:

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 2 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128479813 4/17/2019 9:23:44AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: HOL16 License 75059M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 68,000

Product: 7043 CS,2" BASE MATERIAL,2" - #200

	Pounds	Alt
Gross:	66500	30164
Tare:	26260 *	11911 *
Net:	40240	18253

Quantity: 20.12 Ton
Today: 20.12 Ton
Loads: 1 * P. T.

Cash Sale Price Amount
Material:
Other:
Tax:
Total:

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128479861 4/17/2019 11:30:10AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: BTS500 License 53897JE
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 0

Product: 7043 CS,2" BASE MATERIAL,2" - #200

	Pounds	Alt
Gross:	68980	31289
Tare:	25940 *	11766 *
Net:	43040	19523

Quantity: 21.52 Ton
Today: 63.26 Ton
Loads: 3 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128479895 4/17/2019 1:03:11PM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: BTS500 License 53897J
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW

Product: 7043 CS,2" BASE MATERIAL,2" - #200

	Pounds	Alt
Gross:	69040	31316
Tare:	25940 *	11766 *
Net:	43100	19550

Quantity: 21.55 Ton
Today: 84.81 Ton
Loads: 4 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge **LOCKPORT QUARRY** 716-439-1300
3301 400 Hinman Rd

Scale: 2 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128480314 4/19/2019 12:50:06PM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400391508 ~~Park School~~
Campus West

P.O.: Pickup
Dispatch 0

Truck: HOL16 License 75059M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 68,000

Product: 8361 CS,#1 STONE

	Pounds	Alt
Gross:	65260	29601
Tare:	26260 *	11911 *
Net:	39000	17690
Quantity:	19.50 Ton	
Today:	39.32 Ton	
Loads:	2	

* P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 2 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128481539 4/26/2019 9:12:02AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order:

Campus West

P.O.: Pickup
Dispatch 0

Truck: HOL16 License 75059M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 68,000

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	67860	30781
Tare:	26720 *	12120 *
Net:	41140	18661

Quantity: 20.57 Ton
Today: 39.23 Ton
Loads: 2 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128481482 4/26/2019 7:11:09AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order:

Campus West

P.O.: Pickup
Dispatch 0

Truck: HOL16 License 75059M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 68,00

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	64040	29048
Tare:	26720 *	12120 *
Net:	37320	16928

Quantity: 18.66 Ton
Today: 18.66 Ton
Loads: 1 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 2 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128481650 4/26/2019 12:21:01PM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order:

Campus West

P.O.: Pickup
Dispatch 0

Truck: HOL16 License 75059M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 68,000

Product: 7043 2" ROC

	Pounds	Alt
Gross:	67140	30454
Tare:	26720 *	12120 *
Net:	40420	18334

Quantity: 20.21 Ton
Today: 20.21 Ton
Loads: 1 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128481596 4/26/2019 10:52:24AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order:

Campus West

P.O.: Pickup
Dispatch 0

Truck: HOL16 License 75059M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 68,000

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	67600	30663
Tare:	26720 *	12120 *
Net:	40880	18543

Quantity: 20.44 Ton
Today: 59.67 Ton
Loads: 3 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128481703 4/26/2019 1:48:31PM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: I

Campus WEST

P.O.: Pickup
Dispatch 0

Truck: HOL16 License 75059M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 68,000

Product: 7043 2" ROC

	Pounds	Alt
Gross:	66500	30164
Tare:	26720 *	12120 *
Net:	39780	18044

Quantity: 19.89 Ton
Today: 40.10 Ton
Loads: 2 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485754 5/17/2019 8:35:01AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: BTS100 License 68619K
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 0

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	69280	31425
Tare:	27980 *	12692 *
Net:	41300	18733

Quantity: 20.65 Ton
Today: 191.67 Ton
Loads: 9 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485714 5/17/2019 6:54:42AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: BTS100 License 68619K
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 0

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	72900	33067
Tare:	27980 *	12692 *
Net:	44920	20375

Quantity: 22.46 Ton
Today: 108.63 Ton
Loads: 5 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485848 5/17/2019 11:54:10AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: BTS100 License 68619K
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 0

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	72540	32904
Tare:	27980 *	12692 *
Net:	44560	20212

Quantity: 22.28 Ton
Today: 431.40 Ton
Loads: 20 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485795 5/17/2019 10:15:07AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: BTS100 License 68619K
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 0

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	72900	33067
Tare:	27980 *	12692 *
Net:	44920	20375

Quantity: 22.46 Ton
Today: 300.27 Ton
Loads: 14 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 2 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485753 5/17/2019 8:30:52AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: PLI40 License 44372M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 0

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	70920	32169
Tare:	28480 *	12918 *
Net:	42440	19250

Quantity: 21.22 Ton
Today: 171.02 Ton
Loads: 8 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485705 5/17/2019 6:43:30AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: PLI40 License 44372M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 0

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	73020	33121
Tare:	28480 *	12918 *
Net:	44540	20203

Quantity: 22.27 Ton
Today: 63.71 Ton
Loads: 3 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485843 5/17/2019 11:44:37AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: PLI40 License 44372M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 0

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	72640	32949
Tare:	28480 *	12918 *
Net:	44160	20031

Quantity: 22.08 Ton
Today: 387.93 Ton
Loads: 18 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 2 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485793 5/17/2019 10:12:31AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: PLI40 License 44372M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 0

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	73200	33203
Tare:	28480 *	12918 *
Net:	44720	20285

Quantity: 22.36 Ton
Today: 277.81 Ton
Loads: 13 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485742 5/17/2019 8:18:02AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: MAR104 License 54299MI
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 73,225

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	69440	31497
Tare:	28160 *	12773 *
Net:	41280	18724

Quantity: 20.64 Ton
Today: 149.80 Ton
Loads: 7 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485704 5/17/2019 6:41:24AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: MAR104 License 54299M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 73,22

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	69800	31661
Tare:	28160	12773
Net:	41640	18888

Quantity: 20.82 Ton
Today: 41.44 Ton
Loads: 2

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485844 5/17/2019 11:46:45AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: MAR104 License 54299MI
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 73,225

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	70540	31996
Tare:	28160 *	12773 *
Net:	42380	19223

Quantity: 21.19 Ton
Today: 409.12 Ton
Loads: 19 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485792 5/17/2019 10:11:14AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: MAR104 License 54299M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 73,22

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	70180	31833
Tare:	28160 *	12773 *
Net:	42020	19060

Quantity: 21.01 Ton
Today: 255.45 Ton
Loads: 12 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485756 5/17/2019 8:46:46AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: BTS300 License 14684K
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 73,750

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	73600	33384
Tare:	28480 *	12918 *
Net:	45120	20466

Quantity: 22.56 Ton
Today: 214.23 Ton
Loads: 10 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485713 5/17/2019 6:52:48AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: BTS300 License 14684K
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 73,750

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	73400	33294
Tare:	28480 *	12918 *
Net:	44920	20375

Quantity: 22.46 Ton
Today: 86.17 Ton
Loads: 4 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485860 5/17/2019 12:18:33PM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: BTS300 License 14684K
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 73,750

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	73060	33139
Tare:	28480 *	12918 *
Net:	44580	20221

Quantity: 22.29 Ton
Today: 453.69 Ton
Loads: 21 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485809 5/17/2019 10:32:19AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: BTS300 License 14684K
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 73,750

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	72320	32804
Tare:	28480 *	12918 *
Net:	43840	19885

Quantity: 21.92 Ton
Today: 322.19 Ton
Loads: 15 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge · LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 2 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485789 5/17/2019 10:01:11AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: RS238 License
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 0

Product 8516 CS,#2 STONE

	Pounds	Alt
Gross:	67120	30445
Tare:	26700 *	12111 *
Net:	40420	18334

Quantity: 20.21 Ton
Today: 234.44 Ton
Loads: 11 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge · LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 2 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485740 5/17/2019 8:14:56AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: RS238 License
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW (

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	67760	30735
Tare:	26700 *	12111 *
Net:	41060	18624

Quantity: 20.53 Ton
Today: 129.16 Ton
Loads: 6 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 2 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485703 5/17/2019 6:39:28AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: RS238 License
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 0

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	67940	30817
Tare:	26700 *	12111 *
Net:	41240	18706

Quantity: 20.62 Ton
Today: 20.62 Ton
Loads: 1 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 2 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485842 5/17/2019 11:42:53AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: RS238 License
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 0

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	68660	31144
Tare:	26700 *	12111 *
Net:	41960	19033

Quantity: 20.98 Ton
Today: 365.85 Ton
Loads: 17 * P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

Lafarge LOCKPORT QUARRY 716-439-1300
3301 400 Hinman Rd

Scale: 1 Weighmaster: Kimberly S
RECEIVED:

Ticket: 128485836 5/17/2019 11:34:47AM

Customer: 56416 C M HOLLER EXCAVATING & GRADIN
Order: 400550010 Campus West

P.O.: Pickup
Dispatch 0

Truck: PLI41 License 85571M
Hauler: 4000000 CUSTOMER VEHICLE
Zone: ZONE0 Max GVW 73,750

Product: 8516 CS,#2 STONE

	Pounds	Alt
Gross:	72540	32904
Tare:	27180 *	12329 *
Net:	45360	20575
Quantity:	22.68 Ton	
Today:	344.87 Ton	
Loads:	16	

* P. T.

Cash Sale	Price	Amount
Material:		
Other:		
Tax:		
Total:		

APPENDIX E

CAMP FIELD DATA SHEETS AND AIR MONITORING DATA

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

COMMUNITY AIR MONITORING DAILY LOG

Date: 4/16/2019

Project: New Building Redevelopment

Job No.: B0222-019-001

Client: 295 Maryland, LLC/Campus West, LLC

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	A.M.	P.M.
Ambient Air Temp.:	45 F	
Wind Direction:	West	
Wind Speed:	5 mph	
Precipitation:	None	Rain

DESCRIPTION OF SITE ACTIVITIES: Hauling Soil/fill off-site for new building construction activities.

CAMP down at 10 due to rain. CAMP data did not log in the morning from 8Am to 10AM due to equipment malfunction. No indications of dust or VOC concentration exceedances.

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]					
Exceedence of 150 ug/m3 [1]					
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]					Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]					Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]					Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: CCB Date: 4/16/2019

Checked By: Date:

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

COMMUNITY AIR MONITORING DAILY LOG

Date: 4/18/2019

Project: New Building Redevelopment

Job No.: B0222-019-001

Client: 295 Maryland, LLC/Campus West, LLC

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	A.M.	P.M.
Ambient Air Temp.:	55 F	
Wind Direction:	SSW	
Wind Speed:	10-20 mph	
Precipitation:	None	

DESCRIPTION OF SITE ACTIVITIES: Hauling Soil/fill off-site for new building construction activities.

No VOC data collected due to equipment malfunction. No indicatons of VOC concerns.

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]	NA	NA	NA	NA	
Exceedence of 150 ug/m3 [1]					
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]	NA	NA	NA	NA	Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]					Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]					Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: CCB Date: 4/18/2019

Checked By: Date:

Test 020

Instrument		Data Properties	
Model	DustTrak II	Start Date	04/18/2019
Instrument S/N	8530173504	Start Time	06:03:13
		Stop Date	04/18/2019
		Stop Time	13:12:13
		Total Time	0:07:09:00
		Logging Interval	60 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	04/18/2019	06:04:13	0.062
2	04/18/2019	06:05:13	0.015
3	04/18/2019	06:06:13	0.006
4	04/18/2019	06:07:13	0.004
5	04/18/2019	06:08:13	0.010
6	04/18/2019	06:09:13	0.009
7	04/18/2019	06:10:13	0.004
8	04/18/2019	06:11:13	0.002
9	04/18/2019	06:12:13	0.005
10	04/18/2019	06:13:13	0.006
11	04/18/2019	06:14:13	0.002
12	04/18/2019	06:15:13	0.001
13	04/18/2019	06:16:13	0.002
14	04/18/2019	06:17:13	0.005
15	04/18/2019	06:18:13	0.002
16	04/18/2019	06:19:13	0.003
17	04/18/2019	06:20:13	0.012
18	04/18/2019	06:21:13	0.004
19	04/18/2019	06:22:13	0.002
20	04/18/2019	06:23:13	0.001
21	04/18/2019	06:24:13	0.002
22	04/18/2019	06:25:13	0.002
23	04/18/2019	06:26:13	0.001
24	04/18/2019	06:27:13	0.002
25	04/18/2019	06:28:13	0.002
26	04/18/2019	06:29:13	0.002
27	04/18/2019	06:30:13	0.007
28	04/18/2019	06:31:13	0.000
29	04/18/2019	06:32:13	0.003
30	04/18/2019	06:33:13	0.001
31	04/18/2019	06:34:13	0.003
32	04/18/2019	06:35:13	0.006
33	04/18/2019	06:36:13	0.001
34	04/18/2019	06:37:13	0.001
35	04/18/2019	06:38:13	0.001

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
36	04/18/2019	06:39:13	0.002
37	04/18/2019	06:40:13	0.001
38	04/18/2019	06:41:13	0.001
39	04/18/2019	06:42:13	0.001
40	04/18/2019	06:43:13	0.001
41	04/18/2019	06:44:13	0.001
42	04/18/2019	06:45:13	0.000
43	04/18/2019	06:46:13	0.000
44	04/18/2019	06:47:13	0.003
45	04/18/2019	06:48:13	0.002
46	04/18/2019	06:49:13	0.003
47	04/18/2019	06:50:13	0.001
48	04/18/2019	06:51:13	0.011
49	04/18/2019	06:52:13	0.001
50	04/18/2019	06:53:13	0.002
51	04/18/2019	06:54:13	0.001
52	04/18/2019	06:55:13	0.001
53	04/18/2019	06:56:13	0.003
54	04/18/2019	06:57:13	0.004
55	04/18/2019	06:58:13	0.002
56	04/18/2019	06:59:13	0.014
57	04/18/2019	07:00:13	0.003
58	04/18/2019	07:01:13	0.002
59	04/18/2019	07:02:13	0.003
60	04/18/2019	07:03:13	0.006
61	04/18/2019	07:04:13	0.000
62	04/18/2019	07:05:13	0.001
63	04/18/2019	07:06:13	0.000
64	04/18/2019	07:07:13	0.005
65	04/18/2019	07:08:13	0.002
66	04/18/2019	07:09:13	0.005
67	04/18/2019	07:10:13	0.005
68	04/18/2019	07:11:13	0.000
69	04/18/2019	07:12:13	0.001
70	04/18/2019	07:13:13	0.005
71	04/18/2019	07:14:13	0.008
72	04/18/2019	07:15:13	0.008
73	04/18/2019	07:16:13	0.009
74	04/18/2019	07:17:13	0.001
75	04/18/2019	07:18:13	0.003
76	04/18/2019	07:19:13	0.000
77	04/18/2019	07:20:13	0.000
78	04/18/2019	07:21:13	0.001
79	04/18/2019	07:22:13	0.005
80	04/18/2019	07:23:13	0.011
81	04/18/2019	07:24:13	0.001

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
82	04/18/2019	07:25:13	0.003
83	04/18/2019	07:26:13	0.001
84	04/18/2019	07:27:13	0.007
85	04/18/2019	07:28:13	0.002
86	04/18/2019	07:29:13	0.000
87	04/18/2019	07:30:13	0.004
88	04/18/2019	07:31:13	0.021
89	04/18/2019	07:32:13	0.000
90	04/18/2019	07:33:13	0.000
91	04/18/2019	07:34:13	0.002
92	04/18/2019	07:35:13	0.003
93	04/18/2019	07:36:13	0.005
94	04/18/2019	07:37:13	0.001
95	04/18/2019	07:38:13	0.004
96	04/18/2019	07:39:13	0.001
97	04/18/2019	07:40:13	0.002
98	04/18/2019	07:41:13	0.001
99	04/18/2019	07:42:13	0.002
100	04/18/2019	07:43:13	0.022
101	04/18/2019	07:44:13	0.002
102	04/18/2019	07:45:13	0.002
103	04/18/2019	07:46:13	0.000
104	04/18/2019	07:47:13	0.000
105	04/18/2019	07:48:13	0.004
106	04/18/2019	07:49:13	0.000
107	04/18/2019	07:50:13	0.001
108	04/18/2019	07:51:13	0.000
109	04/18/2019	07:52:13	0.000
110	04/18/2019	07:53:13	0.000
111	04/18/2019	07:54:13	0.004
112	04/18/2019	07:55:13	0.001
113	04/18/2019	07:56:13	0.000
114	04/18/2019	07:57:13	0.003
115	04/18/2019	07:58:13	0.000
116	04/18/2019	07:59:13	0.000
117	04/18/2019	08:00:13	0.000
118	04/18/2019	08:01:13	0.003
119	04/18/2019	08:02:13	0.007
120	04/18/2019	08:03:13	0.027
121	04/18/2019	08:04:13	0.000
122	04/18/2019	08:05:13	0.005
123	04/18/2019	08:06:13	0.004
124	04/18/2019	08:07:13	0.005
125	04/18/2019	08:08:13	0.001
126	04/18/2019	08:09:13	0.000
127	04/18/2019	08:10:13	0.000

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
128	04/18/2019	08:11:13	0.003
129	04/18/2019	08:12:13	0.000
130	04/18/2019	08:13:13	0.000
131	04/18/2019	08:14:13	0.000
132	04/18/2019	08:15:13	0.000
133	04/18/2019	08:16:13	0.001
134	04/18/2019	08:17:13	0.016
135	04/18/2019	08:18:13	0.093
136	04/18/2019	08:19:13	0.000
137	04/18/2019	08:20:13	0.002
138	04/18/2019	08:21:13	0.004
139	04/18/2019	08:22:13	0.002
140	04/18/2019	08:23:13	0.004
141	04/18/2019	08:24:13	0.000
142	04/18/2019	08:25:13	0.002
143	04/18/2019	08:26:13	0.001
144	04/18/2019	08:27:13	0.013
145	04/18/2019	08:28:13	0.006
146	04/18/2019	08:29:13	0.009
147	04/18/2019	08:30:13	0.003
148	04/18/2019	08:31:13	0.001
149	04/18/2019	08:32:13	0.034
150	04/18/2019	08:33:13	0.000
151	04/18/2019	08:34:13	0.000
152	04/18/2019	08:35:13	0.008
153	04/18/2019	08:36:13	0.000
154	04/18/2019	08:37:13	0.002
155	04/18/2019	08:38:13	0.002
156	04/18/2019	08:39:13	0.001
157	04/18/2019	08:40:13	0.000
158	04/18/2019	08:41:13	0.000
159	04/18/2019	08:42:13	0.003
160	04/18/2019	08:43:13	0.000
161	04/18/2019	08:44:13	0.002
162	04/18/2019	08:45:13	0.001
163	04/18/2019	08:46:13	0.005
164	04/18/2019	08:47:13	0.004
165	04/18/2019	08:48:13	0.000
166	04/18/2019	08:49:13	0.009
167	04/18/2019	08:50:13	0.002
168	04/18/2019	08:51:13	0.013
169	04/18/2019	08:52:13	0.004
170	04/18/2019	08:53:13	0.000
171	04/18/2019	08:54:13	0.001
172	04/18/2019	08:55:13	0.003
173	04/18/2019	08:56:13	0.010

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
174	04/18/2019	08:57:13	0.005
175	04/18/2019	08:58:13	0.000
176	04/18/2019	08:59:13	0.002
177	04/18/2019	09:00:13	0.000
178	04/18/2019	09:01:13	0.000
179	04/18/2019	09:02:13	0.000
180	04/18/2019	09:03:13	0.000
181	04/18/2019	09:04:13	0.065
182	04/18/2019	09:05:13	0.000
183	04/18/2019	09:06:13	0.003
184	04/18/2019	09:07:13	0.012
185	04/18/2019	09:08:13	0.006
186	04/18/2019	09:09:13	0.009
187	04/18/2019	09:10:13	0.000
188	04/18/2019	09:11:13	0.004
189	04/18/2019	09:12:13	0.004
190	04/18/2019	09:13:13	0.006
191	04/18/2019	09:14:13	0.013
192	04/18/2019	09:15:13	0.000
193	04/18/2019	09:16:13	0.007
194	04/18/2019	09:17:13	0.004
195	04/18/2019	09:18:13	0.004
196	04/18/2019	09:19:13	0.001
197	04/18/2019	09:20:13	0.006
198	04/18/2019	09:21:13	0.003
199	04/18/2019	09:22:13	0.006
200	04/18/2019	09:23:13	0.001
201	04/18/2019	09:24:13	0.001
202	04/18/2019	09:25:13	0.000
203	04/18/2019	09:26:13	0.000
204	04/18/2019	09:27:13	0.000
205	04/18/2019	09:28:13	0.000
206	04/18/2019	09:29:13	0.000
207	04/18/2019	09:30:13	0.000
208	04/18/2019	09:31:13	0.009
209	04/18/2019	09:32:13	0.001
210	04/18/2019	09:33:13	0.001
211	04/18/2019	09:34:13	0.000
212	04/18/2019	09:35:13	0.001
213	04/18/2019	09:36:13	0.001
214	04/18/2019	09:37:13	0.000
215	04/18/2019	09:38:13	0.000
216	04/18/2019	09:39:13	0.000
217	04/18/2019	09:40:13	0.001
218	04/18/2019	09:41:13	0.001
219	04/18/2019	09:42:13	0.001

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
220	04/18/2019	09:43:13	0.000
221	04/18/2019	09:44:13	0.000
222	04/18/2019	09:45:13	0.006
223	04/18/2019	09:46:13	0.201
224	04/18/2019	09:47:13	0.001
225	04/18/2019	09:48:13	0.000
226	04/18/2019	09:49:13	0.000
227	04/18/2019	09:50:13	0.000
228	04/18/2019	09:51:13	0.000
229	04/18/2019	09:52:13	0.000
230	04/18/2019	09:53:13	0.001
231	04/18/2019	09:54:13	0.004
232	04/18/2019	09:55:13	0.000
233	04/18/2019	09:56:13	0.015
234	04/18/2019	09:57:13	0.024
235	04/18/2019	09:58:13	0.006
236	04/18/2019	09:59:13	0.000
237	04/18/2019	10:00:13	0.006
238	04/18/2019	10:01:13	0.009
239	04/18/2019	10:02:13	0.005
240	04/18/2019	10:03:13	0.028
241	04/18/2019	10:04:13	0.021
242	04/18/2019	10:05:13	0.000
243	04/18/2019	10:06:13	0.004
244	04/18/2019	10:07:13	0.000
245	04/18/2019	10:08:13	0.003
246	04/18/2019	10:09:13	0.002
247	04/18/2019	10:10:13	0.005
248	04/18/2019	10:11:13	0.001
249	04/18/2019	10:12:13	0.000
250	04/18/2019	10:13:13	0.017
251	04/18/2019	10:14:13	0.001
252	04/18/2019	10:15:13	0.000
253	04/18/2019	10:16:13	0.000
254	04/18/2019	10:17:13	0.007
255	04/18/2019	10:18:13	0.000
256	04/18/2019	10:19:13	0.000
257	04/18/2019	10:20:13	0.000
258	04/18/2019	10:21:13	0.000
259	04/18/2019	10:22:13	0.002
260	04/18/2019	10:23:13	0.003
261	04/18/2019	10:24:13	0.008
262	04/18/2019	10:25:13	0.004
263	04/18/2019	10:26:13	0.000
264	04/18/2019	10:27:13	0.002
265	04/18/2019	10:28:13	0.000

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
266	04/18/2019	10:29:13	0.004
267	04/18/2019	10:30:13	0.008
268	04/18/2019	10:31:13	0.000
269	04/18/2019	10:32:13	0.000
270	04/18/2019	10:33:13	0.005
271	04/18/2019	10:34:13	0.000
272	04/18/2019	10:35:13	0.000
273	04/18/2019	10:36:13	0.000
274	04/18/2019	10:37:13	0.001
275	04/18/2019	10:38:13	0.006
276	04/18/2019	10:39:13	0.000
277	04/18/2019	10:40:13	0.001
278	04/18/2019	10:41:13	0.000
279	04/18/2019	10:42:13	0.000
280	04/18/2019	10:43:13	0.000
281	04/18/2019	10:44:13	0.001
282	04/18/2019	10:45:13	0.000
283	04/18/2019	10:46:13	0.001
284	04/18/2019	10:47:13	0.000
285	04/18/2019	10:48:13	0.000
286	04/18/2019	10:49:13	0.024
287	04/18/2019	10:50:13	0.002
288	04/18/2019	10:51:13	0.004
289	04/18/2019	10:52:13	0.000
290	04/18/2019	10:53:13	0.001
291	04/18/2019	10:54:13	0.000
292	04/18/2019	10:55:13	0.000
293	04/18/2019	10:56:13	0.004
294	04/18/2019	10:57:13	0.000
295	04/18/2019	10:58:13	0.004
296	04/18/2019	10:59:13	0.002
297	04/18/2019	11:00:13	0.000
298	04/18/2019	11:01:13	0.000
299	04/18/2019	11:02:13	0.000
300	04/18/2019	11:03:13	0.003
301	04/18/2019	11:04:13	0.006
302	04/18/2019	11:05:13	0.007
303	04/18/2019	11:06:13	0.007
304	04/18/2019	11:07:13	0.000
305	04/18/2019	11:08:13	0.002
306	04/18/2019	11:09:13	0.000
307	04/18/2019	11:10:13	0.000
308	04/18/2019	11:11:13	0.015
309	04/18/2019	11:12:13	0.000
310	04/18/2019	11:13:13	0.000
311	04/18/2019	11:14:13	0.000

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
312	04/18/2019	11:15:13	0.005
313	04/18/2019	11:16:13	0.007
314	04/18/2019	11:17:13	0.007
315	04/18/2019	11:18:13	0.011
316	04/18/2019	11:19:13	0.005
317	04/18/2019	11:20:13	0.002
318	04/18/2019	11:21:13	0.004
319	04/18/2019	11:22:13	0.000
320	04/18/2019	11:23:13	0.000
321	04/18/2019	11:24:13	0.000
322	04/18/2019	11:25:13	0.001
323	04/18/2019	11:26:13	0.004
324	04/18/2019	11:27:13	0.001
325	04/18/2019	11:28:13	0.009
326	04/18/2019	11:29:13	0.008
327	04/18/2019	11:30:13	0.048
328	04/18/2019	11:31:13	0.014
329	04/18/2019	11:32:13	0.022
330	04/18/2019	11:33:13	0.005
331	04/18/2019	11:34:13	0.006
332	04/18/2019	11:35:13	0.001
333	04/18/2019	11:36:13	0.074
334	04/18/2019	11:37:13	0.009
335	04/18/2019	11:38:13	0.006
336	04/18/2019	11:39:13	0.007
337	04/18/2019	11:40:13	0.004
338	04/18/2019	11:41:13	0.003
339	04/18/2019	11:42:13	0.005
340	04/18/2019	11:43:13	0.005
341	04/18/2019	11:44:13	0.030
342	04/18/2019	11:45:13	0.019
343	04/18/2019	11:46:13	0.001
344	04/18/2019	11:47:13	0.008
345	04/18/2019	11:48:13	0.001
346	04/18/2019	11:49:13	0.003
347	04/18/2019	11:50:13	0.000
348	04/18/2019	11:51:13	0.000
349	04/18/2019	11:52:13	0.002
350	04/18/2019	11:53:13	0.000
351	04/18/2019	11:54:13	0.003
352	04/18/2019	11:55:13	0.002
353	04/18/2019	11:56:13	0.000
354	04/18/2019	11:57:13	0.008
355	04/18/2019	11:58:13	0.009
356	04/18/2019	11:59:13	0.019
357	04/18/2019	12:00:13	0.016

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
358	04/18/2019	12:01:13	0.005
359	04/18/2019	12:02:13	0.006
360	04/18/2019	12:03:13	0.012
361	04/18/2019	12:04:13	0.001
362	04/18/2019	12:05:13	0.007
363	04/18/2019	12:06:13	0.011
364	04/18/2019	12:07:13	0.015
365	04/18/2019	12:08:13	0.015
366	04/18/2019	12:09:13	0.005
367	04/18/2019	12:10:13	0.001
368	04/18/2019	12:11:13	0.004
369	04/18/2019	12:12:13	0.007
370	04/18/2019	12:13:13	0.007
371	04/18/2019	12:14:13	0.008
372	04/18/2019	12:15:13	0.058
373	04/18/2019	12:16:13	0.014
374	04/18/2019	12:17:13	0.012
375	04/18/2019	12:18:13	0.029
376	04/18/2019	12:19:13	0.013
377	04/18/2019	12:20:13	0.080
378	04/18/2019	12:21:13	0.002
379	04/18/2019	12:22:13	0.003
380	04/18/2019	12:23:13	0.000
381	04/18/2019	12:24:13	0.001
382	04/18/2019	12:25:13	0.009
383	04/18/2019	12:26:13	0.003
384	04/18/2019	12:27:13	0.011
385	04/18/2019	12:28:13	0.006
386	04/18/2019	12:29:13	0.001
387	04/18/2019	12:30:13	0.007
388	04/18/2019	12:31:13	0.036
389	04/18/2019	12:32:13	0.011
390	04/18/2019	12:33:13	0.010
391	04/18/2019	12:34:13	0.009
392	04/18/2019	12:35:13	0.007
393	04/18/2019	12:36:13	0.038
394	04/18/2019	12:37:13	0.012
395	04/18/2019	12:38:13	0.014
396	04/18/2019	12:39:13	0.008
397	04/18/2019	12:40:13	0.007
398	04/18/2019	12:41:13	0.008
399	04/18/2019	12:42:13	0.006
400	04/18/2019	12:43:13	0.011
401	04/18/2019	12:44:13	0.016
402	04/18/2019	12:45:13	0.014
403	04/18/2019	12:46:13	0.051

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
404	04/18/2019	12:47:13	0.020
405	04/18/2019	12:48:13	0.024
406	04/18/2019	12:49:13	0.006
407	04/18/2019	12:50:13	0.025
408	04/18/2019	12:51:13	0.019
409	04/18/2019	12:52:13	0.017
410	04/18/2019	12:53:13	0.003
411	04/18/2019	12:54:13	0.001
412	04/18/2019	12:55:13	0.005
413	04/18/2019	12:56:13	0.005
414	04/18/2019	12:57:13	0.005
415	04/18/2019	12:58:13	0.002
416	04/18/2019	12:59:13	0.001
417	04/18/2019	13:00:13	0.003
418	04/18/2019	13:01:13	0.016
419	04/18/2019	13:02:13	0.004
420	04/18/2019	13:03:13	0.001
421	04/18/2019	13:04:13	0.005
422	04/18/2019	13:05:13	0.015
423	04/18/2019	13:06:13	0.007
424	04/18/2019	13:07:13	0.007
425	04/18/2019	13:08:13	0.015
426	04/18/2019	13:09:13	0.006
427	04/18/2019	13:10:13	0.164
428	04/18/2019	13:11:13	0.006
429	04/18/2019	13:12:13	0.008