APPENDIX M
DRUM DISPOSAL DOCUMENTATION

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 631-586-5900	4. Waste Tracking Number NHWM10871

5. Generator's Name and Mailing Address
37-11 30TH STREET HOLDINGS LLC
38 EAST 29TH STREET, 9TH FLOOR
NEW YORK, NY 10016
Generator's Phone:

Generator's Site Address (if different than mailing address)
37-11 30TH STREET
LONG ISLAND CITY, NY 11101

6. Transporter 1 Company Name: AARCO ENVIRONMENTAL SERVICES — U.S. EPA ID Number: NYR000107326

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
DALE TRANSFER CORPORATION
129 DALE STREET, WEST BABYLON NY 11704
631-393-2882
Facility's Phone: — U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-REGULATED LIQUIDS (GROUNDWATER)	3	DM	1800	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. #APPROVAL # 2020-380 JOB NO. 10871 TRUCK NO. B636
37038 MN NY NHWM10871

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Jacob Menon of Langan AS Agent of 37-11 30th Street Holdings LLC — Signature: Jacob Menon of Langan as Agent of 37-11 30th Street Holdings LLC — Month 12 Day 23 Year 20

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Thomas Haver — Signature: Thomas Haver — Month 12 Day 23 Year 2020
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Armando Sanchez — Signature — Month 12 Day 23 Year 20

PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
CLEAN WATER OF NEW YORK INC
3249 RICHMOND TER
PO BOX 030312
STATEN ISLAND, NY 10303-0312
(718) 981-4600

Facility:
CLEAN WATER OF NEW YORK INC
3249 RICHMOND TER
STATEN ISLAND, NY 10303-0312

Facility Location: in RICHMOND COUNTY **Village:** Staten Island
Facility Principal Reference Point: NYTM-E: 570.256 NYTM-N: 4499.293
Latitude: 40°38'29.4" Longitude: 74°10'08.8"
Project Location: 3249 Richmond Terrace
Authorized Activity: Operation of a waste oil reprocessing and storage facility with the following throughput limits:

1) Reprocessed recovered fuel oil: 9,000,000 gallons per year;
2) Tank bottom sludge and treatment residuals: 1,000 cubic yards per year; and
3) Effluent discharges from treatment of tank-cleaning and other oily wastewaters: 250 gallons per minute.

Permit Authorizations

Solid Waste Management - Under Article 27, Title 7
Permit ID 2-6401-00065/00003
Renewal Effective Date: 10/1/2017 Expiration Date: 9/30/2022

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: STEPHEN A WATTS, Regional Permit Administrator
Address: NYSDEC Region 2 Headquarters
47-40 21st St
Long Island City, NY 11101 -5401

Authorized Signature: _____ Date 08/02/2017

b. Any proposal for a change that would be a minor alteration of the facility's physical plant or its operation may be submitted to the Department in accordance with the procedure in 3c. below. All proposals are subject to Department approval before their initiation.

c. No less than 30 days before the Permittee's proposed initiation of any minor physical or operational change(s) to the subject facility, the Permittee must provide written notice, in duplicate, to the Regional Solid Materials Engineer (the DEC Engineer) and the Regional Permit Administrator. Such notice must include the following: (i) a revised facility site plan, process flow diagram, or other detailed drawing(s), as appropriate, specifically illustrating such change(s) and (ii) a letter which (a) details such change(s); (b) amends the Permittee's Engineering Report or other material, as appropriate; and (c) identifies the Permittee's proposed date to initiate such change(s). The Permittee must not initiate any such change(s) prior to obtaining written approval from the Department. Notwithstanding the foregoing, the Department reserves the right to deny or modify the Permittee's requested change or to require that it be subjected to a full permit application or permit modification process.

5. **Financial Assurance** For the duration of this active permit, the Permittee must maintain a surety bond or letter of credit for $1,000,000.00, acceptable to the Department (NYSDEC) in accordance with 6NYCRR § 360-1.12(a)(l), as periodically amended by the Permittee at the direction of the Department. This surety bond or letter of credit for the amount and form determined acceptable to the Department must be executed and submitted to the Regional Materials Management Engineer within forty-five (45) days of this permit issuance date.

As per Part 373-2.8(d)(2)(iii) and (3)(iii), the acceptable financial instrument ultimately shall be held in a standby trust account. The standby trust account must be maintained for the duration of this permit. Therefore, the Permittee shall, also within forty-five (45) days of this permit issuance date, submit an acceptable and executed Standby Trust Agreement to the Regional Materials Management Engineer.

6. **Solid Waste Disposal** Except as specified below, the Permittee must send solid waste only to the solid waste disposal facilities identified in the document(s) cited in Special Conditions 2 & 3, above.

Each such disposal facility must have the state permit required to dispose of solid waste. Within 10 days following the issuance of a new, renewed, or modified state permit required to operate any such disposal facility, the Permittee must submit to the DEC Engineer, in duplicate, a complete copy of the renewal or extension of such permit. If the Permittee fails to submit such copy, or if, for any reason, any such disposal facility loses any governmental authorization required for its operation (including but not limited to failure to renew permit, permit suspension, permit revocation, facility closure, cessation of operations, or facility abandonment), the Permittee must immediately cease sending solid waste to such facility, and must notify the DEC Engineer of such cessation and the reason(s) for same.

For each additional disposal facility, to which the Permittee seeks to send solid waste, the Permittee must submit the following data to the DEC Engineer: (a) a complete copy of each state authorization required to operate the disposal facility and (b) a letter from the operator of the disposal facility stating the amount of solid waste it would accept from the Permittee, and any conditions it places on such acceptance. Each such additional disposal facility must be approved by the DEC Engineer in writing. For each disposal facility, to which the Permittee seeks to stop sending solid waste, the Permittee must submit written notification to the DEC Engineer.

7. Monitor Provision

A. Payment, as required to support the Department's monitoring requirements of the subject facility, must be provided to the Department for the funding of environmental compliance activities related to the operation of the subject facility. Payment is based on annual Environmental Monitor service costs. The Permittee will be billed annually for each fiscal year beginning 1 April 2013. Subsequent annual payments must be made for the duration of this permit in order to maintain an account balance sufficient to meet the next year's anticipated expenses.

B. The Department may revise the required payment on an annual basis to include all costs of monitoring to the Department. The annual revision may take into account factors such as inflation, salary increases, changes in facility operating hours and procedures, and the need for additional Environmental Monitors. Upon written request by the Permittee, the Department will provide the Permittee with a written explanation of the basis for any such revision. If such revision is required, the Department will notify the Permittee of such revision no later than 60 days in advance of such revision.

C. Prior to making its annual payment, the Permittee will receive and have an opportunity to review an annual work plan that the Department will undertake during the year.

D. Payments must be made within 30 days after the Permittee's receipt of a bill from the Department. The Permittee must deliver such payment to: NYS Department of Environmental Conservation, 625 Broadway - 10th floor, Albany, NY 12233-5012, Attention: Revenue Accounting. Payments for this account must be in addition to any other funds previously paid by the Permittee for environmental monitoring services prior to 1 April 2013.

E. Failure to make a required environmental monitor payment is a violation of this permit. The Department may take appropriate action to enforce the payment provisions, including suspension or revocation of this permit.

F. Environmental Monitor will, when present at the subject site, abide by all of the Permittee's health and safety and operational requirements and policies; provided, however, that this subparagraph must not be construed as limiting the monitor's powers as otherwise provided for by law and must not result in the monitor's being less protected than the monitor would be if he or she were to abide by state and federal health and safety requirements.

G. Within 30 days following the issuance of the instant permit, the Permittee must deliver to the DEC Engineer, a current site Health and Safety Plan for the subject facility. Within 10 days after any revision to such Plan, the Permittee must deliver to the DEC Engineer, a copy of such revision.

8. Allowable Waste Materials Permittee may accept the following wastes delivered by barge, truck and drums.

Category A – Oil/Water mixture and its residue from the cleaning, by the Butterworthing method, of virgin oil tank barges.

Category B – The bilge/ballast water and oil mixtures, as well as the residue of such, from ships or vessels.

Category D – Non-hazardous; used engine lubricating oil, contaminated fuel oil, lube/hydraulic oil, transmission fluid, gear oil, non-PCB dielectric fluid, emulsified cutting oil, non-emulsified cutting oil, distressed oil, tank bottoms – fuel oil, tank bottoms – other, vegetable oil from industrials sources, mineral oil from industrial sources, water contaminated with oil, tar and asphalt originating from the vessel/tank cleaning operations and synthetic lube oils and castor oil.

Category E – Under this category, permittee may accept nonhazardous oil-soaked debris. If this material is directly related to Category A, B, or D material that is being delivered to the facility and the same waste has undergone pre-qualification analysis, additional testing is not required. In other cases pre-qualification analysis testing consisting of total halogens, RCRA metals (arsenic, cadmium, chromium, lead) must be conducted prior to the acceptance of the material. In addition, if the waste shipment originates from a utility, it must be screened for PCBs. Category E waste must be sent to any of the department approved disposal facilities. A record of how the hazardous waste determinations were made and who made them must be maintained for at least seven (7) years at the facility office.

Before any of the waste Categories A, B or D may be accepted, permittee must have a representative sample tested by the Clor-D-Tect Kit Test for total halogens. The same sample must also be tested by the Pensky-Martens Closed Cup Tester, Materials Standard D-93-79 or D-93-80, for flash point. Each separate chamber of every multi-compartmented truck must be sampled, tested and analyzed separately. All strata of a vertical column within each tank or compartment must be sampled into a container using a coliwasa or other acceptable method in accordance with 6 NYCRR Part 371, Appendix 19. Samples obtained from each compartment or tank must not be mixed for the purposes of determining total halogens and flash point. Mixing of samples is allowed if they are obtained from a single truck or vessel and will be used in the 5% independent analysis as specified below, unless screening tests indicate that one or more compartments has halogens in excess of 1,000 ppm or a flash point less than 100 deg F. If the level of halogens is found to be in excess of 1,000 ppm, the waste must not be accepted, and permittee must follow the procedures for unauthorized material. Permittee may choose to rebut the presumption of hazardous waste by following the procedures described in 6 NYCRR Part 374.2. If the flash point is below 100°F, the load must be rejected by permittee. In the event permittee or employees of permittee have knowledge that a waste oil load or a portion of a waste oil load originates from a utility, such load must be pre-screened for hazardous concentrations of PCBs before it may be accepted into the facility. Copies of said pre-screening test results must be maintained at the facility as part of permittee's operational records.

Because the screening or analysis for halogens for Category A, B, and D wastes will not be routinely conducted by an independent testing laboratory licensed by New York State (ELAM lab) and found acceptable by DEC, random samples must be taken, and tests made, on a minimum of five (5) percent of all incoming loads. The frequency of such testing must be as follows:

SAMPLING & TESTING OF INCOMING LOADS BY A DEPARTMENT ACCEPTABLE LABORATORY (ELAP)

	Total Halogens	Flash Point	TCLP Metals	PCBs
CATEGORY A	5%	5%	–	–
CATEGORY B	5%	5%	–	–
CATEGORY D	5%	5%	5% As, Pb, Cd, Cr	5%

Aside from the allowable solid waste materials described in Category A, B, D and E, permittee is strictly prohibited from accepting, storing, and processing any other types of solid waste.

9. **Record Keeping** Permittee must maintain and have available for inspection at all times an operating record of incoming and outgoing loads of used oil and all other waste materials. This record must, at a minimum, include the name and addresses of each originating facility, vessel, and vessel owner, date of shipment, quantity shipped, and pre-screening test results. Copies of all invoices and manifests must be, maintained at the facility by

permittee for a minimum of seven (7) years. In addition, records of inspections by DEC or any other government agency, and records of spills or other emergencies, and remedial actions taken, must be maintained by permittee at the facility office.

Permittee must maintain a log for each sludge storage drum at the facility recording the time and date of the filling of each drum with sludge. Permittee must also record the time, date, hauler, quantity, and final disposal facility of the sludge in each drum or other container when it is hauled away from the facility.

10. **Oil Tank Sludge Sampling** At least twice per year, random samples must be taken by permittee of sludge intended for disposal. Such sludge shall be tested by an independent testing laboratory licensed by New York State and acceptable to DEC for hazardous waste characteristics and the results sent to the DEC Region 2 Solid Materials Engineer. Such laboratory must be ELAP certified.

11. **Unauthorized Waste**

A. If, during the course of performing the screening tests or analyses, the permittee finds that an inbound load is unacceptable due to findings of less than 100°F flashpoint, greater than 1,000 ppm total halogens, greater than 2 ppm PCB's, or if the load is determined to be a characteristic hazardous waste, then the permittee must make a record of that incident including, at a minimum, the time and date of the incident, the screening test results, the quantity of material, location of material, and how the responsible party stated it would properly dispose of the unacceptable material.

B. If, unauthorized material is received at the facility the Permittee shall, within 72-hours of receipt, contact the Regional Solid Materials Engineer with a notice (including but not limited to email) detailing (a) the date and time such unauthorized waste was discovered, (b) where and how such waste is secured, (c) the amount of such waste, (d) the identification of such waste (if known), (e) if applicable why such waste cannot be so removed from the facility within the 72-hour deadline, and (f) when and how such waste shall be so removed from the facility.

12. **Rebuttal Process** If the level of total halogens is found to be in excess of 1,000 ppm, the waste may be accepted by permittee only as stipulated in NYCRR 374-2.2(a)(2)(i)(b) and the permittee receives notification from DEC that the analytical results indicate the waste is not considered to be hazardous.

13. **Waste Unloading Locations** Acceptable waste which is delivered by truck may only be off-loaded at the Storage Warehouse or Load/Unload areas as outlined in the facility's site plan (Figure 2-3) of the Engineering Report cited in Special Conditions 2 & 3, above.

14. **Loading and Unloading Operations** The Storage Warehouse or Load/Unload areas as shown on the facility's site plan, Figure 2-3, of the Engineering Report cited in Special Conditions 2 & 3, above, must be continuously inspected by permittee. If any liquids are found in the Storage Warehouse or Load/Unload areas, caused by either rain or spillage, they must be collected, and the Storage Warehouse or Load/Unload areas cleaned during the same day such liquid is observed. Permittee must either dispose of the material recovered from the Storage Warehouse or Load/Unload areas or put such material into the facility's processing system for treatment. Permittee must keep at least ten (10) bags of absorbent within close proximity of these areas.

15. **Marketing of Recovered Used Oil** The Permittee's outgoing reprocessed used fuel oil must be determined to be on-specification as per 374-2.2(b) before it can be marketed as on-specification used fuel oil. Otherwise, permittee may only market its reprocessed oil as off-specification oil to duly authorized industrial users.

16. **Sludge Storage** Any sludge removed from waste oil tanks/barges, must be stored in sealed drums or the leak proof dumpster placed at the Load/ Unload area or in the storage warehouse as outlined in the facility's site plan (Figure 2-3) of the Engineering Report cited in Special Conditions 2 & 3, above: No more than sixty (60) cubic yards of such sludge may be stored at the facility at any time. Within ninety (90) days of its placement in the storage warehouse area, sludge must be shipped to one or more of the pre approved disposal facilities.

17. **Best Management Practices** The permittee shall employ the industry's most current Best Management Practices for conducting operations at the facility, and must get approval from the Department whenever any new procedure is to be adopted.

18. **TSCA** Used oil containing any quantifiable level of PCB's may be subject to the requirements of 40 CFR 761.20(e).

19. **PCB Sampling of Drop Tanks** Prior to emptying into on-site storage vessels the contents of each Drop Tank are to be analyzed for PCB's. The Contents of each Drop tank will only be transferred for further processing and blending, if the PCB content is less than 2 ppm.

20. **Identifying Originating Sources** Permittee shall identify the originating sources, of each truck load, that is brought to the facility before unloading for processing.

21. **Submission Format** All submissions to the department are to be accompanied by a CD with a digital PDF version of what is being submitted. The engineering report in particular should be in searchable ORC - PDF format. The electronic submission should be submitted as 1 pdf file per bound submission and not a separate pdf file for each section. Unbound cover letter and unbound site plans should be separate OCR-PDF files.

22. **Compliance with Other Regulatory Requirements** The Permittee is responsible for obtaining any other permits, approvals, lands, easements, and rights-of-way that may be required for the subject work. The Permittee and its independent contractors, employees, agents, and assigns must comply with all applicable local, State, and federal statutory, regulatory, and legal requirements.

23. **NYC Waterfront Revitalization Program** If not otherwise certified in accordance with Title 19, Part 600.4 (c) of the New York Code of Rules and Regulations, the Department hereby certifies that the action described and approved in this permit, if located within the Coastal Zone, is consistent to the maximum extent practicable with the policies and purposes of the New York City Waterfront Revitalization Program.

24. **Wetland Protection** All necessary precautions must be taken to preclude contamination of any wetland or waterway by suspended solids, sediments, fuels, solvents, lubricants, epoxy coatings, paints, concrete, leachate, or any other environmentally deleterious materials associated with the project. The use of creosote-treated lumber to construct or maintain the physical plant of the subject facility is prohibited.

GENERAL CONDITIONS - Apply to ALL Authorized Permits:

1. **Facility Inspection by The Department** The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71- 0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

2. **Relationship of this Permit to Other Department Orders and Determinations** Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

3. **Applications For Permit Renewals, Modifications or Transfers** The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

Regional Permit Administrator
NYSDEC Region 2 Headquarters
47-40 21st St
Long Island City, NY11101 -5401

4. **Submission of Renewal Application** The permittee must submit a renewal application at least 180 days before permit expiration for the following permit authorizations: Solid Waste Management.

5. **Permit Modifications, Suspensions and Revocations by the Department** The Department reserves the right to exercise all available authority to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:

a. materially false or inaccurate statements in the permit application or supporting papers;

b. failure by the permittee to comply with any terms or conditions of the permit;

c. exceeding the scope of the project as described in the permit application;

d. newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;

e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

6. **Permit Transfer** Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification
The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit
The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits
The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights
This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

APPENDIX N

REGULATORY AGENCY CORRESPONDENCE
AND UCL CALCULATION DOCUMENTATION

From:	Emily Snead
Sent:	Wednesday, February 5, 2020 6:15 PM
To:	Ahmed, Hasan R (DEC)
Cc:	Brian Gochenaur; Nicole Kung; Michael D. Burke
Subject:	37-11 30th Street (BCP Site C241211) - Bottom Endpoint Sample Results Update for BEP08
Attachments:	37-11 30th Street_Figure 1 - Endpoint and Sidewall Sample Location Plan_draft.pdf; 37-11 30th Street_ProUCL_HexChrom_Export_02.03.2020.pdf; 37-11 30th Street_Alpha Lab Report L2003313.pdf

Hasan,

Following up on our conversation yesterday, we have collected and received analytical results from 29 of 37 total endpoint soil samples at the 37-11 30th Street (C241211) site to date. In endpoint sample BEP08_01232020, hexavalent chromium was detected at a concentration of 1.16 mg/kg, which exceeds the Track 1 Unrestricted Use Soil Cleanup Objective (SCO) of 1 mg/kg. The sample location is highlighted on the attached draft endpoint sample location plan. This sample was collected at development depth - about 15 feet bgs.

Sample BEP08_01232020 (lab sample ID L2003313-03) was analyzed by Alpha Analytical, Inc. (Alpha), a NYSDEC Environmental Laboratory Approval Program (ELAP) certified laboratory in Westboro, Massachusetts. We contacted the Alpha to re-run sample BEP08_01232020 for hexavalent chromium upon receipt of the initial results; the re-analysis result was 0.791 mg/kg for hexavalent chromium. A copy of the analytical laboratory report (Alpha No. L2003313) is attached for review. Page 78 of 90 shows the initial hexavalent chromium concentration of 1.16 mg/kg and the re-run analysis result of 0.791 mg/kg.

In addition to the laboratory re-run of sample BEP08_01232020 (lab sample ID L2003313-03) for hexavalent chromium, we completed a 95th Percentile Upper Confidence Limit (UCL) calculation for hexavalent chromium on 28 endpoint soil sample results received as of January 28, 2020. The 95th Percentile UCL calculation was performed using the ProUCL 5.1.00 software provided on the USEPA website (https://www.epa.gov/land-research/proucl-software). The ProUCL analysis suggests using the Kaplan-Meier (KM [t]) 95th UCL value of 0.589 mg/kg for hexavalent chromium. A copy of the 95th Percentile UCL calculation is attached for review.

In consideration of the Alpha re-run analysis of sample BEP08_01232020 (lab sample ID L2003313-03) and 95th Percentile UCL calculation for hexavalent chromium, with both results below the Unrestricted Use SCO of 1 mg/kg, we request confirmation from NYSDEC that a Track 1 cleanup has been achieved at the BEP08 endpoint sample location for hexavalent chromium.

Feel free to reach out with questions, or if we can provide additional information.

Thank you,
Emily

Emily Snead, PG
Project Geologist

LANGAN
Celebrating 50 years in business | 1970-2020

Direct: 212.479.5432

Mobile: 508.918.8558
File Sharing Link

Phone: 212.479.5400 Fax: 212.479.5444
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, NY 10001-2727
www.langan.com

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.1 - 2/3/2020 3:36:44 PM
From File	37-11_SO_ProUCL_Export_020320.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Chromium, Hexavalent

General Statistics

Total Number of Observations	28	Number of Distinct Observations	26
Number of Detects	13	Number of Non-Detects	15
Number of Distinct Detects	13	Number of Distinct Non-Detects	13
Minimum Detect	0.222	Minimum Non-Detect	0.823
Maximum Detect	1.16	Maximum Non-Detect	0.985
Variance Detects	0.0929	Percent Non-Detects	53.57%
Mean Detects	0.543	SD Detects	0.305
Median Detects	0.519	CV Detects	0.561
Skewness Detects	1.007	Kurtosis Detects	0.35
Mean of Logged Detects	-0.75	SD of Logged Detects	0.553

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.877	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.866	Detected Data appear Normal at 5% Significance Level
Lilliefors Test Statistic	0.161	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.234	Detected Data appear Normal at 5% Significance Level

Detected Data appear Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.487	KM Standard Error of Mean	0.0602
KM SD	0.24	95% KM (BCA) UCL	0.583
95% KM (t) UCL	0.589	95% KM (Percentile Bootstrap) UCL	0.587
95% KM (z) UCL	0.586	95% KM Bootstrap t UCL	0.593
90% KM Chebyshev UCL	0.667	95% KM Chebyshev UCL	0.749
97.5% KM Chebyshev UCL	0.863	99% KM Chebyshev UCL	1.086

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.363	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.738	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.16	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.238	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	3.719	k star (bias corrected MLE)	2.912
Theta hat (MLE)	0.146	Theta star (bias corrected MLE)	0.187
nu hat (MLE)	96.71	nu star (bias corrected)	75.72
Mean (detects)	0.543		

Gamma ROS Statistics using Imputed Non-Detects			
GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs			
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)			
For such situations, GROS method may yield incorrect values of UCLs and BTVs			
This is especially true when the sample size is small.			
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates			
Minimum	0.222	Mean	0.482
Maximum	1.16	Median	0.427
SD	0.215	CV	0.446
k hat (MLE)	6.716	k star (bias corrected MLE)	6.02
Theta hat (MLE)	0.0717	Theta star (bias corrected MLE)	0.08
nu hat (MLE)	376.1	nu star (bias corrected)	337.1
Adjusted Level of Significance (β)	0.0404		
Approximate Chi Square Value (337.11, α)	295.6	Adjusted Chi Square Value (337.11, β)	293.2
95% Gamma Approximate UCL (use when n>=50)	0.549	95% Gamma Adjusted UCL (use when n<50)	0.554

Estimates of Gamma Parameters using KM Estimates			
Mean (KM)	0.487	SD (KM)	0.24
Variance (KM)	0.0578	SE of Mean (KM)	0.0602
k hat (KM)	4.096	k star (KM)	3.681
nu hat (KM)	229.4	nu star (KM)	206.2
theta hat (KM)	0.119	theta star (KM)	0.132
80% gamma percentile (KM)	0.677	90% gamma percentile (KM)	0.827
95% gamma percentile (KM)	0.965	99% gamma percentile (KM)	1.26

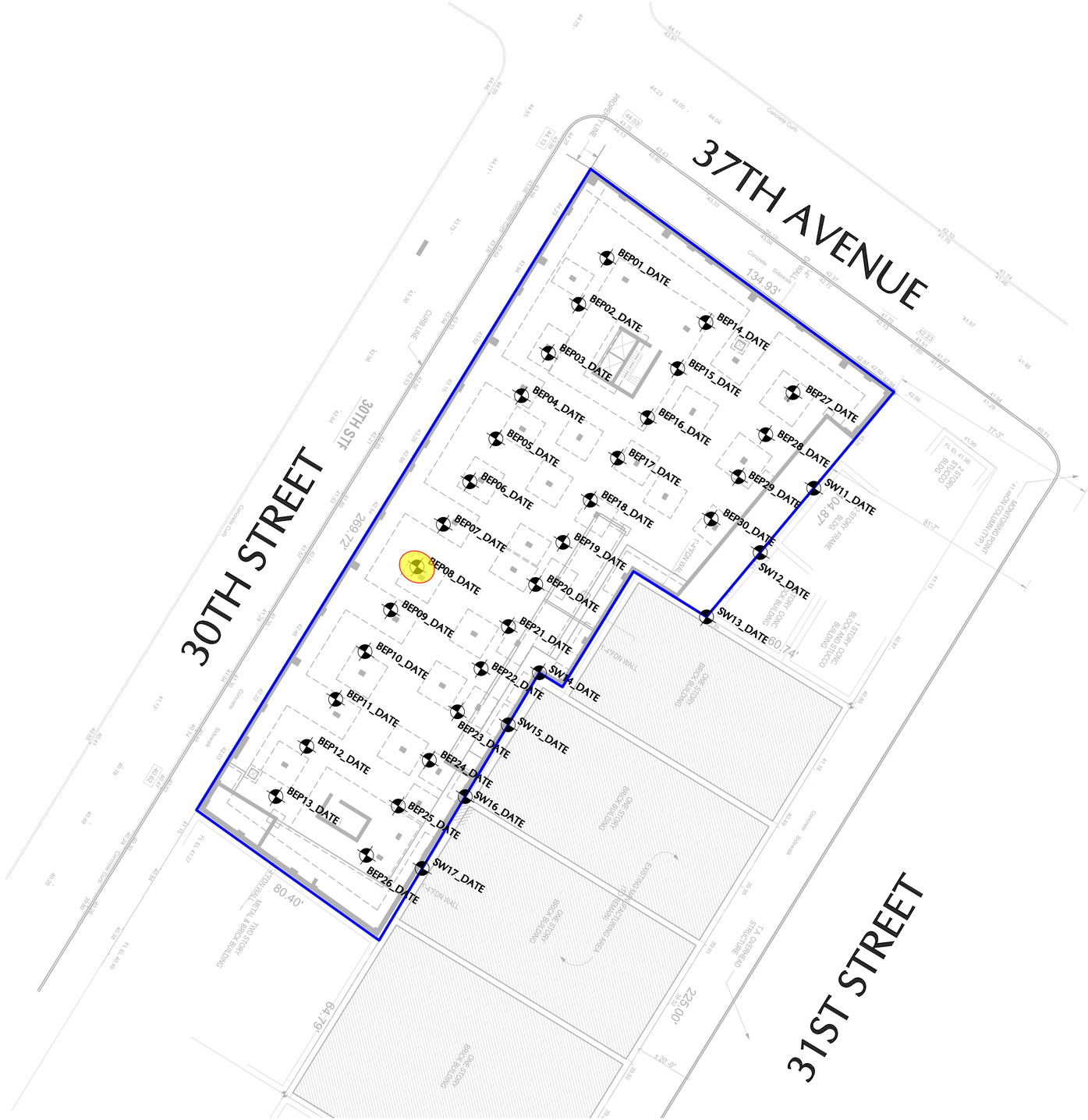
Gamma Kaplan-Meier (KM) Statistics			
Approximate Chi Square Value (206.16, α)	173.9	Adjusted Chi Square Value (206.16, β)	172.1
95% Gamma Approximate KM-UCL (use when n>=50)	0.577	95% Gamma Adjusted KM-UCL (use when n<50)	0.583

Lognormal GOF Test on Detected Observations Only			
Shapiro Wilk Test Statistic	0.936	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.866	Detected Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.144	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.234	Detected Data appear Lognormal at 5% Significance Level	
Detected Data appear Lognormal at 5% Significance Level			

Lognormal ROS Statistics Using Imputed Non-Detects			
Mean in Original Scale	0.472	Mean in Log Scale	-0.828
SD in Original Scale	0.217	SD in Log Scale	0.385
95% t UCL (assumes normality of ROS data)	0.542	95% Percentile Bootstrap UCL	0.542
95% BCA Bootstrap UCL	0.56	95% Bootstrap t UCL	0.579
95% H-UCL (Log ROS)	0.54		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution			
KM Mean (logged)	-0.835	KM Geo Mean	0.434
KM SD (logged)	0.478	95% Critical H Value (KM-Log)	1.925
KM Standard Error of Mean (logged)	0.131	95% H-UCL (KM -Log)	0.581
KM SD (logged)	0.478	95% Critical H Value (KM-Log)	1.925
KM Standard Error of Mean (logged)	0.131		

DL/2 Statistics			
DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	0.489	Mean in Log Scale	-0.786
SD in Original Scale	0.21	SD in Log Scale	0.372
95% t UCL (Assumes normality)	0.557	95% H-Stat UCL	0.557
DL/2 is not a recommended method, provided for comparisons and historical reasons			
Nonparametric Distribution Free UCL Statistics			
Detected Data appear Normal Distributed at 5% Significance Level			
Suggested UCL to Use			
95% KM (t) UCL	0.589		
Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.			
Recommendations are based upon data size, data distribution, and skewness.			
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).			
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.			



NOTES:
1. BASEMAP IS REFERENCED FROM SITE PLAN, PREPARED BY MCNAMARA SALIA, DATED SEPTEMBER 11, 2019.

DRAFT FOR DISCUSSION

20 0 5 10 20
SCALE: 1 INCH = 20 FEET

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
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Project: 37-11 30TH STREET
BLOCK No. 372, P/O LOT No. 8 AND LOT NO. 21
QUEENS NEW YORK

Figure Title: PROPOSED ENDPOINT SAMPLE LOCATION PLAN

Project No.	170512301
Date	01/14/2020
Drawn By	NEK
Checked By	ELS
Figure No.	1
Sheet	1 of 1

Filename: \\langan.com\data\NYC\data3\170512301\Project Data\CAD\01\SheetFiles\Construction Oversight\Figure 1 - Endpoint Sample Plan with Foundations_01.28.2020.dwg Date: 2/4/2020 Time: 12:48 User: nkung Style Table: Langan.stb Layout: ARCHD-BL

LANGAN PROJECT NO. 170512301

ANALYTICAL REPORT

Lab Number:	L2003313
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Emily Snead
Phone:	(212) 479-5432
Project Name:	37-11 30TH STREET
Project Number:	170512301
Report Date:	02/05/20

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).

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2003313-01	BEP10_01232020	SOIL	QUEENS, NEW YORK	01/23/20 13:30	01/23/20
L2003313-02	BEP09_01232020	SOIL	QUEENS, NEW YORK	01/23/20 13:38	01/23/20
L2003313-03	BEP08_01232020	SOIL	QUEENS, NEW YORK	01/23/20 14:50	01/23/20

Project Name:	37-11 30TH STREET	**Lab Number:**	L2003313
Project Number:	170512301	**Report Date:**	02/05/20

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:	37-11 30TH STREET	**Lab Number:**	L2003313
Project Number:	170512301	**Report Date:**	02/05/20

Case Narrative (continued)

Report Revision

February 05, 2020: This is a preliminary report. At the client's request, L2003313-03 was re-analyzed for Hexavalent Chromium and the results of both analyses are reported.

Report Submission

January 30, 2020: This is a preliminary report.

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

Semivolatile Organics

The WG1334150-2/-3 LCS/LCSD recoveries, associated with L2003313-01, -02 and -03, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals

L2003313-01, -02 and -03: 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: Kelly Stenstrom

Title: Technical Director/Representative Date: 02/05/20

ORGANICS

VOLATILES

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-01
Client ID: BEP10_01232020
Sample Location: QUEENS, NEW YORK
Date Collected: 01/23/20 13:30
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/28/20 22:02
Analyst: JC
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	0.68		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.86	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.20	1
Benzene	ND		ug/kg	0.62	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.2	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	0.44	J	ug/kg	1.8	0.17	1

Project Name: 37-11 30TH STREET **Lab Number:** L2003313

Project Number: 170512301 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-01 Date Collected: 01/23/20 13:30

Client ID: BEP10_01232020 Date Received: 01/23/20

Sample Location: QUEENS, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	0.44	J	ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	17		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.5	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.14	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.80	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

Project Name: 37-11 30TH STREET **Lab Number:** L2003313

Project Number: 170512301 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-01 Date Collected: 01/23/20 13:30

Client ID: BEP10_01232020 Date Received: 01/23/20

Sample Location: QUEENS, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.41	1
1,4-Dioxane	ND		ug/kg	99	43.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	102		70-130

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-02
Client ID: BEP09_01232020
Sample Location: QUEENS, NEW YORK
Date Collected: 01/23/20 13:38
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/28/20 22:29
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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	6.5		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	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	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	0.43	J	ug/kg	1.6	0.14	1

Project Name: 37-11 30TH STREET **Lab Number:** L2003313

Project Number: 170512301 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-02 Date Collected: 01/23/20 13:38

Client ID: BEP09_01232020 Date Received: 01/23/20

Sample Location: QUEENS, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	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	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	0.43	J	ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	6.6	J	ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: 37-11 30TH STREET **Lab Number:** L2003313

Project Number: 170512301 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-02 Date Collected: 01/23/20 13:38

Client ID: BEP09_01232020 Date Received: 01/23/20

Sample Location: QUEENS, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	103		70-130

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-03
Client ID: BEP08_01232020
Sample Location: QUEENS, NEW YORK
Date Collected: 01/23/20 14:50
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/28/20 22:54
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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	0.14	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	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	2.8		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	1.5		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.1	0.60	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	0.48	J	ug/kg	1.6	0.14	1

Project Name: 37-11 30TH STREET **Lab Number:** L2003313

Project Number: 170512301 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-03 Date Collected: 01/23/20 14:50

Client ID: BEP08_01232020 Date Received: 01/23/20

Sample Location: QUEENS, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	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	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	0.48	J	ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	10		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: 37-11 30TH STREET **Lab Number:** L2003313

Project Number: 170512301 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-03 Date Collected: 01/23/20 14:50

Client ID: BEP08_01232020 Date Received: 01/23/20

Sample Location: QUEENS, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.34	1
1,4-Dioxane	ND		ug/kg	83	36.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	102		70-130

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/28/20 17:43
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1335022-5					
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
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-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

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/28/20 17:43
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1335022-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
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
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
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
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/28/20 17:43
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1335022-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 37-11 30TH STREET

Project Number: 170512301

Lab Number: L2003313

Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1335022-3 WG1335022-4								
Methylene chloride	95		94		70-130	1		30
1,1-Dichloroethane	94		93		70-130	1		30
Chloroform	93		93		70-130	0		30
Carbon tetrachloride	100		100		70-130	0		30
1,2-Dichloropropane	91		90		70-130	1		30
Dibromochloromethane	110		110		70-130	0		30
1,1,2-Trichloroethane	97		97		70-130	0		30
Tetrachloroethene	110		110		70-130	0		30
Chlorobenzene	98		97		70-130	1		30
Trichlorofluoromethane	79		79		70-139	0		30
1,2-Dichloroethane	93		92		70-130	1		30
1,1,1-Trichloroethane	96		95		70-130	1		30
Bromodichloromethane	91		90		70-130	1		30
trans-1,3-Dichloropropene	97		96		70-130	1		30
cis-1,3-Dichloropropene	90		89		70-130	1		30
1,1-Dichloropropene	89		88		70-130	1		30
Bromoform	112		109		70-130	3		30
1,1,2,2-Tetrachloroethane	94		91		70-130	3		30
Benzene	88		88		70-130	0		30
Toluene	97		95		70-130	2		30
Ethylbenzene	94		92		70-130	2		30
Chloromethane	99		99		52-130	0		30
Bromomethane	94		93		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 37-11 30TH STREET

Project Number: 170512301

Lab Number: L2003313

Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1335022-3 WG1335022-4								
Vinyl chloride	87		86		67-130	1		30
Chloroethane	95		95		50-151	0		30
1,1-Dichloroethene	97		96		65-135	1		30
trans-1,2-Dichloroethene	97		96		70-130	1		30
Trichloroethene	95		92		70-130	3		30
1,2-Dichlorobenzene	103		102		70-130	1		30
1,3-Dichlorobenzene	105		102		70-130	3		30
1,4-Dichlorobenzene	103		101		70-130	2		30
Methyl tert butyl ether	92		91		66-130	1		30
p/m-Xylene	96		95		70-130	1		30
o-Xylene	94		93		70-130	1		30
cis-1,2-Dichloroethene	97		96		70-130	1		30
Dibromomethane	94		93		70-130	1		30
Styrene	92		92		70-130	0		30
Dichlorodifluoromethane	106		106		30-146	0		30
Acetone	100		96		54-140	4		30
Carbon disulfide	87		86		59-130	1		30
2-Butanone	84		75		70-130	11		30
Vinyl acetate	84		82		70-130	2		30
4-Methyl-2-pentanone	91		89		70-130	2		30
1,2,3-Trichloropropane	90		89		68-130	1		30
2-Hexanone	82		79		70-130	4		30
Bromochloromethane	103		103		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 37-11 30TH STREET

Project Number: 170512301

Lab Number: L2003313

Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1335022-3 WG1335022-4								
2,2-Dichloropropane	90		89		70-130	1		30
1,2-Dibromoethane	104		103		70-130	1		30
1,3-Dichloropropane	95		94		69-130	1		30
1,1,1,2-Tetrachloroethane	104		104		70-130	0		30
Bromobenzene	106		104		70-130	2		30
n-Butylbenzene	93		92		70-130	1		30
sec-Butylbenzene	94		92		70-130	2		30
tert-Butylbenzene	96		94		70-130	2		30
o-Chlorotoluene	92		91		70-130	1		30
p-Chlorotoluene	95		94		70-130	1		30
1,2-Dibromo-3-chloropropane	106		102		68-130	4		30
Hexachlorobutadiene	116		115		67-130	1		30
Isopropylbenzene	94		93		70-130	1		30
p-Isopropyltoluene	97		96		70-130	1		30
Naphthalene	102		101		70-130	1		30
Acrylonitrile	99		98		70-130	1		30
n-Propylbenzene	93		91		70-130	2		30
1,2,3-Trichlorobenzene	114		113		70-130	1		30
1,2,4-Trichlorobenzene	117		114		70-130	3		30
1,3,5-Trimethylbenzene	96		94		70-130	2		30
1,2,4-Trimethylbenzene	97		95		70-130	2		30
1,4-Dioxane	95		95		65-136	0		30
p-Diethylbenzene	100		98		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1335022-3 WG1335022-4								
p-Ethyltoluene	97		96		70-130	1		30
1,2,4,5-Tetramethylbenzene	100		98		70-130	2		30
Ethyl ether	86		84		67-130	2		30
trans-1,4-Dichloro-2-butene	98		96		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		90		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	89		88		70-130
Dibromofluoromethane	101		101		70-130

SEMIVOLATILES

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-01
Client ID: BEP10_01232020
Sample Location: QUEENS, NEW YORK

Date Collected: 01/23/20 13:30
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 01/30/20 05:15
Analyst: IM
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 01/27/20 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 37-11 30TH STREET **Lab Number:** L2003313

Project Number: 170512301 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-01 Date Collected: 01/23/20 13:30

Client ID: BEP10_01232020 Date Received: 01/23/20

Sample Location: QUEENS, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	220		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1

Project Name: 37-11 30TH STREET
Lab Number: L2003313
Project Number: 170512301
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-01
Client ID: BEP10_01232020
Sample Location: QUEENS, NEW YORK
Date Collected: 01/23/20 13:30
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	68		18-120

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-02
Client ID: BEP09_01232020
Sample Location: QUEENS, NEW YORK

Date Collected: 01/23/20 13:38
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 01/30/20 03:20
Analyst: IM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 01/27/20 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	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
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	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

Project Name: 37-11 30TH STREET **Lab Number:** L2003313

Project Number: 170512301 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-02 Date Collected: 01/23/20 13:38

Client ID: BEP09_01232020 Date Received: 01/23/20

Sample Location: QUEENS, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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
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	28.	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	21.	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	430	74.	1
4-Nitrophenol	ND		ug/kg	280	80.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	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

Project Name: 37-11 30TH STREET **Lab Number:** L2003313

Project Number: 170512301 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-02 Date Collected: 01/23/20 13:38

Client ID: BEP09_01232020 Date Received: 01/23/20

Sample Location: QUEENS, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	86		18-120

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-03
Client ID: BEP08_01232020
Sample Location: QUEENS, NEW YORK

Date Collected: 01/23/20 14:50
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 01/30/20 03:43
Analyst: IM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 01/27/20 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	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	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	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	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	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	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 37-11 30TH STREET **Lab Number:** L2003313

Project Number: 170512301 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-03 Date Collected: 01/23/20 14:50

Client ID: BEP08_01232020 Date Received: 01/23/20

Sample Location: QUEENS, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
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	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	23.	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	44.	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	79.	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	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	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	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	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

Project Name: 37-11 30TH STREET **Lab Number:** L2003313

Project Number: 170512301 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-03 Date Collected: 01/23/20 14:50

Client ID: BEP08_01232020 Date Received: 01/23/20

Sample Location: QUEENS, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	83		18-120

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/30/20 01:04
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 01/27/20 10:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1334150-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
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	99	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	27.
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	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/30/20 01:04
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 01/27/20 10:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1334150-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	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	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 01/30/20 01:04
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 01/27/20 10:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1334150-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	100		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 37-11 30TH STREET

Project Number: 170512301

Lab Number: L2003313

Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1334150-2 WG1334150-3								
Acenaphthene	74		79		31-137	7		50
1,2,4-Trichlorobenzene	65		72		38-107	10		50
Hexachlorobenzene	75		81		40-140	8		50
Bis(2-chloroethyl)ether	67		74		40-140	10		50
2-Chloronaphthalene	72		77		40-140	7		50
1,2-Dichlorobenzene	63		69		40-140	9		50
1,3-Dichlorobenzene	61		67		40-140	9		50
1,4-Dichlorobenzene	62		68		28-104	9		50
3,3'-Dichlorobenzidine	45		41		40-140	9		50
2,4-Dinitrotoluene	80		83		40-132	4		50
2,6-Dinitrotoluene	76		82		40-140	8		50
Fluoranthene	79		82		40-140	4		50
4-Chlorophenyl phenyl ether	74		79		40-140	7		50
4-Bromophenyl phenyl ether	75		83		40-140	10		50
Bis(2-chloroisopropyl)ether	70		77		40-140	10		50
Bis(2-chloroethoxy)methane	71		79		40-117	11		50
Hexachlorobutadiene	69		75		40-140	8		50
Hexachlorocyclopentadiene	47		52		40-140	10		50
Hexachloroethane	65		70		40-140	7		50
Isophorone	72		79		40-140	9		50
Naphthalene	68		74		40-140	8		50
Nitrobenzene	70		77		40-140	10		50
NDPA/DPA	78		82		36-157	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 37-11 30TH STREET

Project Number: 170512301

Lab Number: L2003313

Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1334150-2 WG1334150-3								
n-Nitrosodi-n-propylamine	73		82		32-121	12		50
Bis(2-ethylhexyl)phthalate	79		84		40-140	6		50
Butyl benzyl phthalate	83		86		40-140	4		50
Di-n-butylphthalate	83		88		40-140	6		50
Di-n-octylphthalate	83		88		40-140	6		50
Diethyl phthalate	78		83		40-140	6		50
Dimethyl phthalate	74		78		40-140	5		50
Benzo(a)anthracene	75		79		40-140	5		50
Benzo(a)pyrene	80		84		40-140	5		50
Benzo(b)fluoranthene	80		84		40-140	5		50
Benzo(k)fluoranthene	77		82		40-140	6		50
Chrysene	76		80		40-140	5		50
Acenaphthylene	71		76		40-140	7		50
Anthracene	78		82		40-140	5		50
Benzo(ghi)perylene	76		82		40-140	8		50
Fluorene	77		81		40-140	5		50
Phenanthrene	75		80		40-140	6		50
Dibenzo(a,h)anthracene	77		82		40-140	6		50
Indeno(1,2,3-cd)pyrene	74		81		40-140	9		50
Pyrene	77		81		35-142	5		50
Biphenyl	71		77		37-127	8		50
4-Chloroaniline	52		51		40-140	2		50
2-Nitroaniline	74		80		47-134	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1334150-2 WG1334150-3								
3-Nitroaniline	55		54		26-129	2		50
4-Nitroaniline	71		73		41-125	3		50
Dibenzofuran	74		78		40-140	5		50
2-Methylnaphthalene	70		75		40-140	7		50
1,2,4,5-Tetrachlorobenzene	70		74		40-117	6		50
Acetophenone	69		77		14-144	11		50
2,4,6-Trichlorophenol	73		78		30-130	7		50
p-Chloro-m-cresol	79		84		26-103	6		50
2-Chlorophenol	70		76		25-102	8		50
2,4-Dichlorophenol	73		81		30-130	10		50
2,4-Dimethylphenol	64		71		30-130	10		50
2-Nitrophenol	72		80		30-130	11		50
4-Nitrophenol	78		84		11-114	7		50
2,4-Dinitrophenol	29		30		4-130	3		50
4,6-Dinitro-o-cresol	72		76		10-130	5		50
Pentachlorophenol	58		61		17-109	5		50
Phenol	67		74		26-90	10		50
2-Methylphenol	70		77		30-130.	10		50
3-Methylphenol/4-Methylphenol	72		81		30-130	12		50
2,4,5-Trichlorophenol	76		81		30-130	6		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	71		80		40-140	12		50
Carbazole	78		83		54-128	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 37-11 30TH STREET

Project Number: 170512301

Lab Number: L2003313

Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1334150-2 WG1334150-3								
1,4-Dioxane	45		51		40-140	13		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	68		74		25-120
Phenol-d6	70		77		10-120
Nitrobenzene-d5	67		74		23-120
2-Fluorobiphenyl	66		71		30-120
2,4,6-Tribromophenol	73		78		10-136
4-Terphenyl-d14	82		85		18-120

PCBS

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-01
Client ID: BEP10_01232020
Sample Location: QUEENS, NEW YORK

Date Collected: 01/23/20 13:30
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 01/29/20 21:58
Analyst: AWS
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 01/27/20 09:27
Cleanup Method: EPA 3665A
Cleanup Date: 01/27/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/27/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.9	3.10	1	A
Aroclor 1221	ND		ug/kg	34.9	3.49	1	A
Aroclor 1232	ND		ug/kg	34.9	7.39	1	A
Aroclor 1242	ND		ug/kg	34.9	4.70	1	A
Aroclor 1248	ND		ug/kg	34.9	5.23	1	A
Aroclor 1254	ND		ug/kg	34.9	3.81	1	A
Aroclor 1260	ND		ug/kg	34.9	6.44	1	A
Aroclor 1262	ND		ug/kg	34.9	4.43	1	A
Aroclor 1268	ND		ug/kg	34.9	3.61	1	A
PCBs, Total	ND		ug/kg	34.9	3.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-02
Client ID: BEP09_01232020
Sample Location: QUEENS, NEW YORK

Date Collected: 01/23/20 13:38
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 01/29/20 22:10
Analyst: AWS
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 01/27/20 09:27
Cleanup Method: EPA 3665A
Cleanup Date: 01/27/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/27/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.1	3.48	1	A
Aroclor 1221	ND		ug/kg	39.1	3.92	1	A
Aroclor 1232	ND		ug/kg	39.1	8.30	1	A
Aroclor 1242	ND		ug/kg	39.1	5.28	1	A
Aroclor 1248	ND		ug/kg	39.1	5.87	1	A
Aroclor 1254	ND		ug/kg	39.1	4.28	1	A
Aroclor 1260	ND		ug/kg	39.1	7.23	1	A
Aroclor 1262	ND		ug/kg	39.1	4.97	1	A
Aroclor 1268	ND		ug/kg	39.1	4.06	1	A
PCBs, Total	ND		ug/kg	39.1	3.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-03
Client ID: BEP08_01232020
Sample Location: QUEENS, NEW YORK

Date Collected: 01/23/20 14:50
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 01/29/20 22:22
Analyst: AWS
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 01/27/20 09:27
Cleanup Method: EPA 3665A
Cleanup Date: 01/27/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/27/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.5	3.42	1	A
Aroclor 1221	ND		ug/kg	38.5	3.86	1	A
Aroclor 1232	ND		ug/kg	38.5	8.16	1	A
Aroclor 1242	ND		ug/kg	38.5	5.19	1	A
Aroclor 1248	ND		ug/kg	38.5	5.77	1	A
Aroclor 1254	ND		ug/kg	38.5	4.21	1	A
Aroclor 1260	ND		ug/kg	38.5	7.11	1	A
Aroclor 1262	ND		ug/kg	38.5	4.89	1	A
Aroclor 1268	ND		ug/kg	38.5	3.99	1	A
PCBs, Total	ND		ug/kg	38.5	3.42	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 01/27/20 11:20
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 01/27/20 02:14
Cleanup Method: EPA 3665A
Cleanup Date: 01/27/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/27/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1334044-1						
Aroclor 1016	ND		ug/kg	31.6	2.81	A
Aroclor 1221	ND		ug/kg	31.6	3.17	A
Aroclor 1232	ND		ug/kg	31.6	6.70	A
Aroclor 1242	ND		ug/kg	31.6	4.26	A
Aroclor 1248	ND		ug/kg	31.6	4.74	A
Aroclor 1254	ND		ug/kg	31.6	3.46	A
Aroclor 1260	ND		ug/kg	31.6	5.84	A
Aroclor 1262	ND		ug/kg	31.6	4.01	A
Aroclor 1268	ND		ug/kg	31.6	3.27	A
PCBs, Total	ND		ug/kg	31.6	2.81	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	109		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 37-11 30TH STREET

Project Number: 170512301

Lab Number: L2003313

Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1334044-2 WG1334044-3									
Aroclor 1016	89		80		40-140	11		50	A
Aroclor 1260	90		80		40-140	12		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		74		30-150	A
Decachlorobiphenyl	100		88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		72		30-150	B
Decachlorobiphenyl	109		94		30-150	B

PESTICIDES

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-01
Client ID: BEP10_01232020
Sample Location: QUEENS, NEW YORK

Date Collected: 01/23/20 13:30
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 01/29/20 03:49
Analyst: SL
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 01/27/20 08:35
Cleanup Method: EPA 3620B
Cleanup Date: 01/27/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.330	1	A
Lindane	ND		ug/kg	0.701	0.314	1	A
Alpha-BHC	ND		ug/kg	0.701	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.638	1	A
Heptachlor	ND		ug/kg	0.842	0.377	1	A
Aldrin	ND		ug/kg	1.68	0.593	1	A
Heptachlor epoxide	ND		ug/kg	3.16	0.947	1	A
Endrin	ND		ug/kg	0.701	0.288	1	A
Endrin aldehyde	ND		ug/kg	2.10	0.736	1	A
Endrin ketone	ND		ug/kg	1.68	0.434	1	A
Dieldrin	ND		ug/kg	1.05	0.526	1	A
4,4'-DDE	ND		ug/kg	1.68	0.389	1	A
4,4'-DDD	ND		ug/kg	1.68	0.600	1	A
4,4'-DDT	ND		ug/kg	3.16	1.35	1	A
Endosulfan I	ND		ug/kg	1.68	0.398	1	A
Endosulfan II	ND		ug/kg	1.68	0.562	1	A
Endosulfan sulfate	ND		ug/kg	0.701	0.334	1	A
Methoxychlor	ND		ug/kg	3.16	0.982	1	A
Toxaphene	ND		ug/kg	31.6	8.84	1	A
cis-Chlordane	ND		ug/kg	2.10	0.586	1	A
trans-Chlordane	ND		ug/kg	2.10	0.556	1	A
Chlordane	ND		ug/kg	13.7	5.58	1	A

Project Name: 37-11 30TH STREET **Lab Number:** L2003313

Project Number: 170512301 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-01 Date Collected: 01/23/20 13:30

Client ID: BEP10_01232020 Date Received: 01/23/20

Sample Location: QUEENS, NEW YORK 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	87		30-150	B
Decachlorobiphenyl	39		30-150	B
2,4,5,6-Tetrachloro-m-xylene	105		30-150	A
Decachlorobiphenyl	56		30-150	A

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-01
Client ID: BEP10_01232020
Sample Location: QUEENS, NEW YORK

Date Collected: 01/23/20 13:30
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 01/28/20 22:30
Analyst: JMC
Percent Solids: 94%
Methylation Date: 01/28/20 15:10

Extraction Method: EPA 8151A
Extraction Date: 01/27/20 09:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	174	10.9	1	A
2,4,5-T	ND		ug/kg	174	5.38	1	A
2,4,5-TP (Silvex)	ND		ug/kg	174	4.62	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	76		30-150	B

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-02
Client ID: BEP09_01232020
Sample Location: QUEENS, NEW YORK

Date Collected: 01/23/20 13:38
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 01/29/20 04:02
Analyst: SL
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 01/27/20 08:35
Cleanup Method: EPA 3620B
Cleanup Date: 01/27/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.90	0.372	1	A
Lindane	ND		ug/kg	0.791	0.354	1	A
Alpha-BHC	ND		ug/kg	0.791	0.225	1	A
Beta-BHC	ND		ug/kg	1.90	0.720	1	A
Heptachlor	ND		ug/kg	0.949	0.426	1	A
Aldrin	ND		ug/kg	1.90	0.668	1	A
Heptachlor epoxide	ND		ug/kg	3.56	1.07	1	A
Endrin	ND		ug/kg	0.791	0.324	1	A
Endrin aldehyde	ND		ug/kg	2.37	0.831	1	A
Endrin ketone	ND		ug/kg	1.90	0.489	1	A
Dieldrin	ND		ug/kg	1.19	0.593	1	A
4,4'-DDE	ND		ug/kg	1.90	0.439	1	A
4,4'-DDD	ND		ug/kg	1.90	0.677	1	A
4,4'-DDT	ND		ug/kg	3.56	1.53	1	A
Endosulfan I	ND		ug/kg	1.90	0.448	1	A
Endosulfan II	ND		ug/kg	1.90	0.634	1	A
Endosulfan sulfate	ND		ug/kg	0.791	0.376	1	A
Methoxychlor	ND		ug/kg	3.56	1.11	1	A
Toxaphene	ND		ug/kg	35.6	9.97	1	A
cis-Chlordane	ND		ug/kg	2.37	0.661	1	A
trans-Chlordane	ND		ug/kg	2.37	0.626	1	A
Chlordane	ND		ug/kg	15.4	6.29	1	A

Project Name: 37-11 30TH STREET **Lab Number:** L2003313

Project Number: 170512301 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-02 Date Collected: 01/23/20 13:38

Client ID: BEP09_01232020 Date Received: 01/23/20

Sample Location: QUEENS, NEW YORK 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	82		30-150	B
Decachlorobiphenyl	36		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	51		30-150	A

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-02
Client ID: BEP09_01232020
Sample Location: QUEENS, NEW YORK

Date Collected: 01/23/20 13:38
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 01/29/20 20:36
Analyst: JMC
Percent Solids: 82%
Methylation Date: 01/28/20 20:42

Extraction Method: EPA 8151A
Extraction Date: 01/27/20 09:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	200	12.6	1	A
2,4,5-T	ND		ug/kg	200	6.19	1	A
2,4,5-TP (Silvex)	ND		ug/kg	200	5.31	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	68		30-150	A
DCAA	70		30-150	B

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-03
Client ID: BEP08_01232020
Sample Location: QUEENS, NEW YORK

Date Collected: 01/23/20 14:50
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 01/29/20 04:15
Analyst: SL
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 01/27/20 08:35
Cleanup Method: EPA 3620B
Cleanup Date: 01/27/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.83	0.359	1	A
Lindane	ND		ug/kg	0.764	0.342	1	A
Alpha-BHC	ND		ug/kg	0.764	0.217	1	A
Beta-BHC	ND		ug/kg	1.83	0.695	1	A
Heptachlor	ND		ug/kg	0.917	0.411	1	A
Aldrin	ND		ug/kg	1.83	0.646	1	A
Heptachlor epoxide	ND		ug/kg	3.44	1.03	1	A
Endrin	ND		ug/kg	0.764	0.313	1	A
Endrin aldehyde	ND		ug/kg	2.29	0.802	1	A
Endrin ketone	ND		ug/kg	1.83	0.472	1	A
Dieldrin	ND		ug/kg	1.15	0.573	1	A
4,4'-DDE	ND		ug/kg	1.83	0.424	1	A
4,4'-DDD	ND		ug/kg	1.83	0.654	1	A
4,4'-DDT	ND		ug/kg	3.44	1.47	1	A
Endosulfan I	ND		ug/kg	1.83	0.433	1	A
Endosulfan II	ND		ug/kg	1.83	0.613	1	A
Endosulfan sulfate	ND		ug/kg	0.764	0.364	1	A
Methoxychlor	ND		ug/kg	3.44	1.07	1	A
Toxaphene	ND		ug/kg	34.4	9.63	1	A
cis-Chlordane	ND		ug/kg	2.29	0.639	1	A
trans-Chlordane	ND		ug/kg	2.29	0.605	1	A
Chlordane	ND		ug/kg	14.9	6.08	1	A

Project Name: 37-11 30TH STREET **Lab Number:** L2003313

Project Number: 170512301 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-03 Date Collected: 01/23/20 14:50

Client ID: BEP08_01232020 Date Received: 01/23/20

Sample Location: QUEENS, NEW YORK 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	93		30-150	B
Decachlorobiphenyl	46		30-150	B
2,4,5,6-Tetrachloro-m-xylene	109		30-150	A
Decachlorobiphenyl	60		30-150	A

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-03
Client ID: BEP08_01232020
Sample Location: QUEENS, NEW YORK

Date Collected: 01/23/20 14:50
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 01/28/20 22:48
Analyst: JMC
Percent Solids: 85%
Methylation Date: 01/28/20 15:10

Extraction Method: EPA 8151A
Extraction Date: 01/27/20 09:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	196	12.3	1	A
2,4,5-T	ND		ug/kg	196	6.06	1	A
2,4,5-TP (Silvex)	ND		ug/kg	196	5.20	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	77		30-150	A
DCAA	77		30-150	B

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 01/29/20 00:09
Analyst: SL

Extraction Method: EPA 3546
Extraction Date: 01/27/20 08:33
Cleanup Method: EPA 3620B
Cleanup Date: 01/27/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1334110-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.650	0.290	A
Alpha-BHC	ND		ug/kg	0.650	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.591	A
Heptachlor	ND		ug/kg	0.780	0.350	A
Aldrin	ND		ug/kg	1.56	0.549	A
Heptachlor epoxide	ND		ug/kg	2.92	0.877	A
Endrin	ND		ug/kg	0.650	0.266	A
Endrin aldehyde	ND		ug/kg	1.95	0.682	A
Endrin ketone	ND		ug/kg	1.56	0.402	A
Dieldrin	ND		ug/kg	0.975	0.487	A
4,4'-DDE	ND		ug/kg	1.56	0.361	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	0.650	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.910	A
Toxaphene	ND		ug/kg	29.2	8.19	A
cis-Chlordane	ND		ug/kg	1.95	0.543	A
trans-Chlordane	ND		ug/kg	1.95	0.515	A
Chlordane	ND		ug/kg	12.7	5.16	A

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 01/29/20 00:09
Analyst: SL

Extraction Method: EPA 3546
Extraction Date: 01/27/20 08:33
Cleanup Method: EPA 3620B
Cleanup Date: 01/27/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1334110-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	76		30-150	A

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 01/28/20 19:09
Analyst: JMC

Extraction Method: EPA 8151A
Extraction Date: 01/27/20 09:44

Methylation Date: 01/28/20 15:09

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1334133-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.31	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	89		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 37-11 30TH STREET

Project Number: 170512301

Lab Number: L2003313

Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1334110-2 WG1334110-3									
Delta-BHC	116		121		30-150	4		30	A
Lindane	109		111		30-150	2		30	A
Alpha-BHC	111		116		30-150	4		30	A
Beta-BHC	99		106		30-150	7		30	A
Heptachlor	102		108		30-150	6		30	A
Aldrin	101		105		30-150	4		30	A
Heptachlor epoxide	105		111		30-150	6		30	A
Endrin	103		110		30-150	7		30	A
Endrin aldehyde	80		86		30-150	7		30	A
Endrin ketone	101		108		30-150	7		30	A
Dieldrin	109		115		30-150	5		30	A
4,4'-DDE	110		118		30-150	7		30	A
4,4'-DDD	114		122		30-150	7		30	A
4,4'-DDT	105		114		30-150	8		30	A
Endosulfan I	94		100		30-150	6		30	A
Endosulfan II	104		111		30-150	7		30	A
Endosulfan sulfate	94		103		30-150	9		30	A
Methoxychlor	95		103		30-150	8		30	A
cis-Chlordane	88		92		30-150	4		30	A
trans-Chlordane	95		98		30-150	3		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 37-11 30TH STREET

Project Number: 170512301

Lab Number: L2003313

Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1334110-2 WG1334110-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		81		30-150	B
Decachlorobiphenyl	62		67		30-150	B
2,4,5,6-Tetrachloro-m-xylene	94		97		30-150	A
Decachlorobiphenyl	75		80		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1334133-2 WG1334133-3									
2,4-D	81		88		30-150	8		30	A
2,4,5-T	86		93		30-150	8		30	A
2,4,5-TP (Silvex)	87		90		30-150	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	87		83		30-150	A
DCAA	103		91		30-150	B

METALS

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-01
Client ID: BEP10_01232020
Sample Location: QUEENS, NEW YORK
Date Collected: 01/23/20 13:30
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3750		mg/kg	8.41	2.27	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Antimony, Total	0.538	J	mg/kg	4.21	0.320	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Arsenic, Total	0.345	J	mg/kg	0.841	0.175	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Barium, Total	25.6		mg/kg	0.841	0.146	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Beryllium, Total	0.143	J	mg/kg	0.421	0.028	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Cadmium, Total	0.118	J	mg/kg	0.841	0.082	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Calcium, Total	2520		mg/kg	8.41	2.94	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Chromium, Total	9.14		mg/kg	0.841	0.081	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Cobalt, Total	4.14		mg/kg	1.68	0.140	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Copper, Total	8.69		mg/kg	0.841	0.217	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Iron, Total	7240		mg/kg	4.21	0.760	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Lead, Total	2.52	J	mg/kg	4.21	0.225	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Magnesium, Total	3230		mg/kg	8.41	1.30	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Manganese, Total	164		mg/kg	0.841	0.134	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.083	0.054	1	01/25/20 01:38	01/25/20 11:56	EPA 7471B	1,7471B	AL
Nickel, Total	8.15		mg/kg	2.10	0.204	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Potassium, Total	652		mg/kg	210	12.1	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.68	0.217	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.841	0.238	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Sodium, Total	126	J	mg/kg	168	2.65	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.68	0.265	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Vanadium, Total	13.1		mg/kg	0.841	0.171	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
Zinc, Total	20.8		mg/kg	4.21	0.246	2	01/24/20 22:28	01/27/20 23:57	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.8	J	mg/kg	0.86	0.86	1		01/27/20 23:57	NA	107,-	

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-02
Client ID: BEP09_01232020
Sample Location: QUEENS, NEW YORK
Date Collected: 01/23/20 13:38
Date Received: 01/23/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9110		mg/kg	9.35	2.52	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Antimony, Total	1.04	J	mg/kg	4.67	0.355	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Arsenic, Total	1.14		mg/kg	0.935	0.194	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Barium, Total	61.9		mg/kg	0.935	0.163	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Beryllium, Total	0.346	J	mg/kg	0.467	0.031	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Cadmium, Total	0.271	J	mg/kg	0.935	0.092	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Calcium, Total	1820		mg/kg	9.35	3.27	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Chromium, Total	22.7		mg/kg	0.935	0.090	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Cobalt, Total	10.1		mg/kg	1.87	0.155	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Copper, Total	19.2		mg/kg	0.935	0.241	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Iron, Total	17400		mg/kg	4.67	0.844	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Lead, Total	4.88		mg/kg	4.67	0.250	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Magnesium, Total	5340		mg/kg	9.35	1.44	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Manganese, Total	382		mg/kg	0.935	0.149	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.089	0.058	1	01/25/20 01:38	01/25/20 11:57	EPA 7471B	1,7471B	AL
Nickel, Total	20.7		mg/kg	2.34	0.226	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Potassium, Total	2010		mg/kg	234	13.5	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.87	0.241	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.935	0.264	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Sodium, Total	233		mg/kg	187	2.94	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.87	0.294	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Vanadium, Total	30.5		mg/kg	0.935	0.190	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
Zinc, Total	50.2		mg/kg	4.67	0.274	2	01/24/20 22:28	01/28/20 00:01	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	23		mg/kg	0.97	0.97	1		01/28/20 00:01	NA	107,-	

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-03
Client ID: BEP08_01232020
Sample Location: QUEENS, NEW YORK
Date Collected: 01/23/20 14:50
Date Received: 01/23/20
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	8530		mg/kg	9.05	2.44	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Antimony, Total	0.806	J	mg/kg	4.53	0.344	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Arsenic, Total	0.779	J	mg/kg	0.905	0.188	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Barium, Total	58.9		mg/kg	0.905	0.158	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Beryllium, Total	0.326	J	mg/kg	0.453	0.030	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Cadmium, Total	0.235	J	mg/kg	0.905	0.089	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Calcium, Total	1370		mg/kg	9.05	3.17	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Chromium, Total	19.2		mg/kg	0.905	0.087	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Cobalt, Total	9.50		mg/kg	1.81	0.150	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Copper, Total	15.6		mg/kg	0.905	0.234	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Iron, Total	14600		mg/kg	4.53	0.818	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Lead, Total	3.88	J	mg/kg	4.53	0.243	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Magnesium, Total	4760		mg/kg	9.05	1.39	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Manganese, Total	412		mg/kg	0.905	0.144	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.096	0.063	1	01/25/20 01:38	01/25/20 11:59	EPA 7471B	1,7471B	AL
Nickel, Total	17.0		mg/kg	2.26	0.219	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Potassium, Total	1570		mg/kg	226	13.0	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.81	0.234	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.905	0.256	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Sodium, Total	135	J	mg/kg	181	2.85	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.81	0.285	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Vanadium, Total	26.7		mg/kg	0.905	0.184	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
Zinc, Total	45.9		mg/kg	4.53	0.265	2	01/24/20 22:28	01/28/20 00:06	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	18	J	mg/kg	0.94	0.94	1		02/01/20 11:50	NA	107,-	

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

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): 01-03 Batch: WG1333685-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Iron, Total	0.668	J	mg/kg	2.00	0.361	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Sodium, Total	3.32	J	mg/kg	80.0	1.26	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	01/24/20 22:28	01/27/20 21:55	1,6010D	LC

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): 01-03 Batch: WG1333718-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	01/25/20 01:38	01/25/20 11:10	1,7471B	AL

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 37-11 30TH STREET

Project Number: 170512301

Lab Number: L2003313

Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1333685-2 SRM Lot Number: D105-540								
Aluminum, Total	54		-		51-149	-		
Antimony, Total	117		-		19-249	-		
Arsenic, Total	87		-		70-130	-		
Barium, Total	79		-		75-125	-		
Beryllium, Total	86		-		75-125	-		
Cadmium, Total	86		-		75-125	-		
Calcium, Total	74		-		73-127	-		
Chromium, Total	82		-		70-130	-		
Cobalt, Total	82		-		75-125	-		
Copper, Total	82		-		75-125	-		
Iron, Total	66		-		38-162	-		
Lead, Total	81		-		71-128	-		
Magnesium, Total	70		-		63-137	-		
Manganese, Total	76		-		76-124	-		
Nickel, Total	84		-		70-131	-		
Potassium, Total	67		-		60-140	-		
Selenium, Total	86		-		63-137	-		
Silver, Total	84		-		69-131	-		
Sodium, Total	93		-		37-162	-		
Thallium, Total	85		-		68-132	-		
Vanadium, Total	77		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 37-11 30TH STREET

Project Number: 170512301

Lab Number: L2003313

Report Date: 02/05/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1333685-2 SRM Lot Number: D105-540					
Zinc, Total	82	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1333718-2 SRM Lot Number: D105-540					
Mercury, Total	85	-	60-141	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

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): 01-03 QC Batch ID: WG1333685-3 QC Sample: L2003270-01 Client ID: MS Sample												
Aluminum, Total	5800	167	5700	**0**	Q	-	-		75-125	-		20
Antimony, Total	0.827J	41.7	29.2	**70**	Q	-	-		75-125	-		20
Arsenic, Total	1.84	10	10.7	88		-	-		75-125	-		20
Barium, Total	38.8	167	187	89		-	-		75-125	-		20
Beryllium, Total	0.250J	4.17	4.03	97		-	-		75-125	-		20
Cadmium, Total	0.207J	4.25	4.03	95		-	-		75-125	-		20
Calcium, Total	576	834	1560	118		-	-		75-125	-		20
Chromium, Total	15.6	16.7	31.0	92		-	-		75-125	-		20
Cobalt, Total	5.74	41.7	41.1	85		-	-		75-125	-		20
Copper, Total	11.4	20.8	28.2	81		-	-		75-125	-		20
Iron, Total	14800	83.4	14800	**0**	Q	-	-		75-125	-		20
Lead, Total	2.82J	42.5	39.2	92		-	-		75-125	-		20
Magnesium, Total	1800	834	2540	89		-	-		75-125	-		20
Manganese, Total	462	41.7	411	**0**	Q	-	-		75-125	-		20
Nickel, Total	12.3	41.7	47.1	83		-	-		75-125	-		20
Potassium, Total	688	834	1380	83		-	-		75-125	-		20
Selenium, Total	ND	10	8.70	87		-	-		75-125	-		20
Silver, Total	ND	25	23.0	92		-	-		75-125	-		20
Sodium, Total	43.0J	834	792	95		-	-		75-125	-		20
Thallium, Total	ND	10	8.09	81		-	-		75-125	-		20
Vanadium, Total	21.3	41.7	57.3	86		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

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): 01-03 QC Batch ID: WG1333685-3 QC Sample: L2003270-01 Client ID: MS Sample									
Zinc, Total	21.1	41.7	57.4	87	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1333718-3 WG1333718-4 QC Sample: L2003338-08 Client ID: MS Sample									
Mercury, Total	ND	0.195	0.192	98	0.161	99	80-120	18	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1333685-4 QC Sample: L2003270-01 Client ID: DUP Sample						
Aluminum, Total	5800	5750	mg/kg	1		20
Antimony, Total	0.827J	0.818J	mg/kg	NC		20
Arsenic, Total	1.84	1.79	mg/kg	3		20
Barium, Total	38.8	39.4	mg/kg	2		20
Beryllium, Total	0.250J	0.259J	mg/kg	NC		20
Cadmium, Total	0.207J	0.225J	mg/kg	NC		20
Calcium, Total	576	1410	mg/kg	**84**	Q	20
Chromium, Total	15.6	17.3	mg/kg	10		20
Cobalt, Total	5.74	5.52	mg/kg	4		20
Copper, Total	11.4	11.6	mg/kg	2		20
Iron, Total	14800	15600	mg/kg	5		20
Lead, Total	2.82J	2.80J	mg/kg	NC		20
Magnesium, Total	1800	2150	mg/kg	18		20
Manganese, Total	462	400	mg/kg	14		20
Nickel, Total	12.3	12.7	mg/kg	3		20
Potassium, Total	688	706	mg/kg	3		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	43.0J	63.6J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 37-11 30TH STREET

Project Number: 170512301

Lab Number: L2003313

Report Date: 02/05/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1333685-4 QC Sample: L2003270-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	21.3	21.9	mg/kg	3	20
Zinc, Total	21.1	21.0	mg/kg	0	20

INORGANICS
&
MISCELLANEOUS

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-01
Client ID: BEP10_01232020
Sample Location: QUEENS, NEW YORK

Date Collected: 01/23/20 13:30
Date Received: 01/23/20
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	93.6		%	0.100	NA	1	-	01/24/20 12:52	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	01/26/20 15:10	01/27/20 14:18	1,9010C/9012B	LH
Chromium, Hexavalent	0.320	J	mg/kg	0.855	0.171	1	01/27/20 00:05	01/27/20 15:23	1,7196A	DR

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-02
Client ID: BEP09_01232020
Sample Location: QUEENS, NEW YORK

Date Collected: 01/23/20 13:38
Date Received: 01/23/20
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	82.4		%	0.100	NA	1	-	01/24/20 12:52	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	01/26/20 15:10	01/27/20 14:19	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.971	0.194	1	01/27/20 00:05	01/27/20 15:23	1,7196A	DR

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2003313-03
Client ID: BEP08_01232020
Sample Location: QUEENS, NEW YORK

Date Collected: 01/23/20 14:50
Date Received: 01/23/20
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	84.7		%	0.100	NA	1	-	01/24/20 12:52	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	01/26/20 15:10	01/27/20 14:22	1,9010C/9012B	LH
Chromium, Hexavalent	1.16		mg/kg	0.944	0.189	1	01/27/20 00:05	01/27/20 15:23	1,7196A	DR
Chromium, Hexavalent	0.791	J	mg/kg	0.944	0.189	1	01/31/20 14:53	02/01/20 11:50	1,7196A	DR

Project Name: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1333980-1										
Cyanide, Total	ND		mg/kg	0.96	0.20	1	01/26/20 15:10	01/27/20 13:36	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1334017-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	01/27/20 00:05	01/27/20 15:23	1,7196A	DR
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1336161-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	01/31/20 14:53	02/01/20 11:50	1,7196A	DR

Lab Control Sample Analysis

Batch Quality Control

Project Name: 37-11 30TH STREET

Project Number: 170512301

Lab Number: L2003313

Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1333980-2 WG1333980-3								
Cyanide, Total	81		102		80-120	23		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1334017-2								
Chromium, Hexavalent	97		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1336161-2								
Chromium, Hexavalent	119		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1333980-4 WG1333980-5 QC Sample: L2003347-01 Client ID: MS Sample												
Cyanide, Total	ND	11	11	97		11	97		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1334017-4 QC Sample: L2003313-01 Client ID: BEP10_01232020												
Chromium, Hexavalent	0.320J	763	830	109		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1336161-5 QC Sample: L2003313-03 Client ID: BEP08_01232020												
Chromium, Hexavalent	1.16	1120	1150	103		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1333510-1 QC Sample: L2003311-01 Client ID: DUP Sample						
Solids, Total	82.6	82.5	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1334017-6 QC Sample: L2003313-01 Client ID: BEP10_01232020						
Chromium, Hexavalent	0.320J	0.385J	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1336161-4 QC Sample: L2003313-03 Client ID: BEP08_01232020						
Chromium, Hexavalent	1.16	0.614J	mg/kg	NC		20

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

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(*)
L2003313-01A	Vial MeOH preserved	A	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L2003313-01B	Vial water preserved	A	NA		3.1	Y	Absent	24-JAN-20 06:53	NYTCL-8260HLW(14)
L2003313-01C	Vial water preserved	A	NA		3.1	Y	Absent	24-JAN-20 06:53	NYTCL-8260HLW(14)
L2003313-01D	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L2003313-01E	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L2003313-01F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2003313-01G	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L2003313-01H	Plastic 8oz unpreserved	A	NA		3.1	Y	Absent		A2-NY-537-ISOTOPE(28)
L2003313-01I	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L2003313-02A	Vial MeOH preserved	A	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L2003313-02B	Vial water preserved	A	NA		3.1	Y	Absent	24-JAN-20 06:53	NYTCL-8260HLW(14)
L2003313-02C	Vial water preserved	A	NA		3.1	Y	Absent	24-JAN-20 06:53	NYTCL-8260HLW(14)
L2003313-02D	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L2003313-02E	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L2003313-02F	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),NI-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2003313-02G	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 37-11 30TH STREET
Project Number: 170512301

Lab Number: L2003313
Report Date: 02/05/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2003313-02H	Plastic 8oz unpreserved	A	NA		3.1	Y	Absent		A2-NY-537-ISOTOPE(28)
L2003313-02I	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L2003313-03A	Vial MeOH preserved	A	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L2003313-03B	Vial water preserved	A	NA		3.1	Y	Absent	24-JAN-20 06:53	NYTCL-8260HLW(14)
L2003313-03C	Vial water preserved	A	NA		3.1	Y	Absent	24-JAN-20 06:53	NYTCL-8260HLW(14)
L2003313-03D	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L2003313-03E	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L2003313-03F	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),NI-TI(180),TL-TI(180),CR-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2003313-03G	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L2003313-03H	Plastic 8oz unpreserved	A	NA		3.1	Y	Absent		A2-NY-537-ISOTOPE(28)
L2003313-03I	Glass 500ml/16oz unpreserved	A	NA		3.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	37-11 30TH STREET	**Lab Number:**	L2003313
Project Number:	170512301	**Report Date:**	02/05/20

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:	37-11 30TH STREET	**Lab Number:**	L2003313
Project Number:	170512301	**Report Date:**	02/05/20

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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 Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	37-11 30TH STREET	**Lab Number:**	L2003313
Project Number:	170512301	**Report Date:**	02/05/20

Data Qualifiers

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: 37-11 30TH STREET
Project Number: 170512301
Lab Number: L2003313
Report Date: 02/05/20

REFERENCES

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

107 Alpha Analytical - In-house calculation method.

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), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
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, SM4500NO2-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: 01/24/20

ALPHA Job #: L2003313

Client Information

Client: LANGAN
Address: 360 West 31st Street
NY, NY 10001
Phone: 212-479-5400
Email: ESnead@langan.com
NKung@langan.com

Project Information

Project Name: 37-11 30th Street
Project Location: Queens, New York
Project #: 170512301
(Use Project name as Project #) ☐
Project Manager: Emily Snead
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

Billing Information

☑ Same as Client Info
PO #

Regulatory Requirement

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

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.

* Hexavalent and Trivalent Chromium and Cyanide

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	Pest/Herbs	Metals*	PFAS	1,4 Dioxane	PCBs	Sample Specific Comments	Total Bottle
03313-01	BEP10_012320	01/23/2020	1330	SOIL	LE	✓	✓	✓	✓	✓	✓	✓		
-02	BEP09_012320		1370	SOIL	LE	✓	✓	✓	✓	✓	✓	✓		
-03	BEP08_012320		1450	SOIL	LE	✓	✓	✓	✓	✓	✓	✓		

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

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
Luis Enriquez	1/23/2020 15:20	[illegible] (AAL)	1/23/2020 15:20
AAL	1/23/2020 19:00	[illegible]	1/23/2020 2000
[illegible]	1/24/20 0000	[illegible]	1/24/20 0000

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)

Emily Snead

From: Ahmed, Hasan R (DEC) <hasan.ahmed@dec.ny.gov>
Sent: Tuesday, March 3, 2020 4:44 PM
To: Emily Snead
Cc: Brian Gochenaur; Nicole Kung; Michael D. Burke; Crawford, Nigel (DEC); O'Connell, Jane H (DEC)
Subject: RE: 37-11 30th Street (BCP Site C241211) - Bottom Endpoint Sample Results Update for BEP08

Emily

Based on the fact that 28 endpoint samples out of 29 except BEP08, met Unrestricted Use SCO for hexavalent chromium and the rerun of BEP08 met UUSCO, and assuming that remaining 8 endpoint samples out of total 37 sitewide endpoint samples will meet the UUSCOs, we agree that a Track 1 cleanup has been achieved at the BEP08 endpoint sample location for hexavalent chromium.

Thank you.

Hasan Ahmed
Project Manager, Superfund and Brownfield Cleanup Section, Division of Environmental Remediation

New York State Department of Environmental Conservation
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-6405 | F: (718) 482-6358 | hasan.ahmed@dec.ny.gov
www.dec.ny.gov | | |

From: Emily Snead <esnead@langan.com>
Sent: Monday, March 02, 2020 6:10 PM
To: Ahmed, Hasan R (DEC) <hasan.ahmed@dec.ny.gov>
Cc: Brian Gochenaur <bgochenaur@Langan.com>; Nicole Kung <nkung@langan.com>; Michael D. Burke <mburke@Langan.com>
Subject: RE: 37-11 30th Street (BCP Site C241211) - Bottom Endpoint Sample Results Update for BEP08

Hi Hasan,

Thank you for following up. The sample BEP08 was re-analyzed for hexavalent chromium because at the time we received the initial results above Track 1 SCOs (1.16 mg/kg for hexavalent chromium), the original BEP08 sample location was logistically inaccessible in the field.

To answer the second question, when the laboratory received the original BEP08 soil sample, they homogenized the initial sample volume provided. Each individual sample "run" originated from a small portion of the laboratory-homogenized BEP08 sample volume, which the laboratory (Alpha Analytical, Inc.) explains why the results vary from sample to sample.

Although collecting another sample in the original BEP08 location would be difficult from a logistics standpoint at this time, it is not impossible to do so if required.

Let me know if you have additional questions.

Thank you,
Emily

Emily Snead, PG
Project Geologist

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From: Ahmed, Hasan R (DEC) <hasan.ahmed@dec.ny.gov>
Sent: Monday, March 2, 2020 2:23 PM
To: Emily Snead <esnead@langan.com>
Cc: Brian Gochenaur <bgochenaur@Langan.com>; Nicole Kung <nkung@langan.com>; Michael D. Burke <mburke@Langan.com>
Subject: RE: 37-11 30th Street (BCP Site C241211) - Bottom Endpoint Sample Results Update for BEP08

Emily:
The chemist reviewed both the original and the re-analyzed samples and determined that both are usable.

The questions we have are:

1) What was the reasoning behind the decision to re-analyze the sample without any analytical issue?
2) Did lab give any explanation why the results are different?

Let us know. Thank you.

Hasan Ahmed
Project Manager, Superfund and Brownfield Cleanup Section, Division of Environmental Remediation

New York State Department of Environmental Conservation
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P: (718) 482-6405 | F: (718) 482-6358 | hasan.ahmed@dec.ny.gov
www.dec.ny.gov | | | |

NEW YORK STATE | Department of Environmental Conservation 50

From: Emily Snead <esnead@langan.com>
Sent: Monday, March 02, 2020 1:46 PM
To: Ahmed, Hasan R (DEC) <hasan.ahmed@dec.ny.gov>
Cc: Brian Gochenaur <bgochenaur@Langan.com>; Nicole Kung <nkung@langan.com>; Michael D. Burke <mburke@Langan.com>
Subject: RE: 37-11 30th Street (BCP Site C241211) - Bottom Endpoint Sample Results Update for BEP08

Hi Hasan,

I just left you a message – has the DEC chemist completed their review of the data and UCL calculation for BEP08 at 37-11 30th Street? Let me know if I can assist with providing additional information.

Thank you,
Emily

Emily Snead, PG
Project Geologist

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From: Ahmed, Hasan R (DEC) <hasan.ahmed@dec.ny.gov>
Sent: Monday, February 24, 2020 12:43 PM
To: Emily Snead <esnead@langan.com>
Cc: Brian Gochenaur <bgochenaur@Langan.com>; Nicole Kung <nkung@langan.com>; Michael D. Burke <mburke@Langan.com>
Subject: RE: 37-11 30th Street (BCP Site C241211) - Bottom Endpoint Sample Results Update for BEP08

Emily
Our chemist is reviewing the package. I am expecting to get the comments by this week.

Thank you.

Hasan Ahmed
Project Manager, Superfund and Brownfield Cleanup Section, Division of Environmental Remediation

New York State Department of Environmental Conservation
47-40 21st Street, Long Island City, NY 11101

P: (718) 482-6405 | F: (718) 482-6358 | hasan.ahmed@dec.ny.gov
www.dec.ny.gov |

From: Emily Snead <esnead@langan.com>
Sent: Monday, February 24, 2020 11:49 AM
To: Ahmed, Hasan R (DEC) <hasan.ahmed@dec.ny.gov>
Cc: Brian Gochenaur <bgochenaur@Langan.com>; Nicole Kung <nkung@langan.com>; Michael D. Burke <mburke@Langan.com>
Subject: RE: 37-11 30th Street (BCP Site C241211) - Bottom Endpoint Sample Results Update for BEP08

Hi Hasan,

I wanted to follow up on the below request for 37-11 30th Street (C241211) – has NYSDEC reviewed the information provided regarding the re-run endpoint sample BEP08 and UCL calculation to confirm the result meets a Track 1 Unrestricted Use cleanup for hexavalent chromium?

Please feel free to contact me with questions or comments.

Thank you,
Emily

Emily Snead, PG
Project Geologist

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From: Emily Snead
Sent: Wednesday, February 5, 2020 6:15 PM
To: Ahmed, Hasan R (DEC) <hasan.ahmed@dec.ny.gov>
Cc: Brian Gochenaur <bgochenaur@Langan.com>; Nicole Kung <nkung@langan.com>; Michael D. Burke <mburke@Langan.com>
Subject: 37-11 30th Street (BCP Site C241211) - Bottom Endpoint Sample Results Update for BEP08

Hasan,

Following up on our conversation yesterday, we have collected and received analytical results from 29 of 37 total endpoint soil samples at the 37-11 30th Street (C241211) site to date. In endpoint sample BEP08_01232020, hexavalent chromium was detected at a concentration of 1.16 mg/kg, which exceeds the Track 1 Unrestricted Use Soil Cleanup Objective (SCO) of 1 mg/kg. The sample location is highlighted on the attached draft endpoint sample location plan. This sample was collected at development depth - about 15 feet bgs.

Sample BEP08_01232020 (lab sample ID L2003313-03) was analyzed by Alpha Analytical, Inc. (Alpha), a NYSDEC Environmental Laboratory Approval Program (ELAP) certified laboratory in Westboro, Massachusetts. We contacted the Alpha to re-run sample BEP08_01232020 for hexavalent chromium upon receipt of the initial results; the re-analysis result was 0.791 mg/kg for hexavalent chromium. A copy of the analytical laboratory report (Alpha No. L2003313) is attached for review. Page 78 of 90 shows the initial hexavalent chromium concentration of 1.16 mg/kg and the re-run analysis result of 0.791 mg/kg.

In addition to the laboratory re-run of sample BEP08_01232020 (lab sample ID L2003313-03) for hexavalent chromium, we completed a 95th Percentile Upper Confidence Limit (UCL) calculation for hexavalent chromium on 28 endpoint soil sample results received as of January 28, 2020. The 95th Percentile UCL calculation was performed using the ProUCL 5.1.00 software provided on the USEPA website (https://www.epa.gov/land-research/proucl-software). The ProUCL analysis suggests using the Kaplan-Meier (KM [t]) 95th UCL value of 0.589 mg/kg for hexavalent chromium. A copy of the 95th Percentile UCL calculation is attached for review.

In consideration of the Alpha re-run analysis of sample BEP08_01232020 (lab sample ID L2003313-03) and 95th Percentile UCL calculation for hexavalent chromium, with both results below the Unrestricted Use SCO of 1 mg/kg, we request confirmation from NYSDEC that a Track 1 cleanup has been achieved at the BEP08 endpoint sample location for hexavalent chromium.

Feel free to reach out with questions, or if we can provide additional information.

Thank you,
Emily

Emily Snead, PG
Project Geologist

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Emily Snead

From: Emily Snead
Sent: Thursday, July 2, 2020 2:20 PM
To: 'Ahmed, Hasan R (DEC)'
Cc: Brian Gochenaur; Michael D. Burke; Nicole Kung; 'O'Connell, Jane H (DEC)'
Subject: 37-11 30th Street (C241211) Confirmation Endpoint Sample BEP and Duplicate Discussion
Attachments: 2. Re-Run6.18_410-4952-1_Std_Lanc_ExcelSheet.xlsx; 3. DUP Re-Run6.18_410-5984-1 _Std_Lanc_ExcelSheet.xlsx; 1. BEP026.10_410-3978-1_Std_Lanc_ExcelSheet.xlsx

Hi Hasan,

I wanted to reach out to provide you with a summary of confirmation endpoint sampling at 37-11 30th Street (C241211) with regards to our final endpoint sample, BEP02 (northwest corner of the site):

1. **June 10, 2020 Endpoint Sampling of BEP02 and Duplicate**
   Our confirmation endpoint sample BEP02_06102020 collected on 6/10/2020 initially failed Track 1 Unrestricted Use (UU) SCOs for acetone, and it's duplicate sample, BEPDUP04_06102020 failed Track 1 UU SCOs for hexavalent chromium.
   a. Hexavalent chromium in parent sample (BEP02_06102020): non-detect
   b. Hexavalent chromium in duplicate sample (BEPDUP04_06102020): 1.8 mg/kg, exceeding the Track 1 UU SCO of 1 mg/kg

2. **June 18, 2020 Over-Excavation and Resampling BEP02 + Duplicate**
   The contractor over-excavated the area surrounding the initial BEP02 location, and Langan re-sampled BEP02 (and a duplicate) for acetone and hexavalent chromium on 6/18/2020.
   a. Acetone met Track 1 UU SCOs in both samples
   b. Hexavalent chromium in parent sample (BEP02_06182020): 0.40 mg/kg (J qualifier) – met Track 1 UU SCO
   c. Hexavalent chromium in duplicate sample (BEPDUP04_06182020): 1.9 mg/kg, exceeding the Track 1 UU SCO of 1 mg/kg

3. **Laboratory (EuroFins) Re-Run of Additional BEPDUP04_06182020 Sample Volume**
   The laboratory (Eurofins) confirmed they had adequate sample volume remaining for BEPDUP04_06182020 to re-run analysis on hexavalent chromium. We received results on 7/1/2020:
   a. Hexavalent chromium in duplicate sample re-analysis (BEPDUP04_06182020): 0.15 mg/kg (J qualifier) – met Track 1 UU SCO

In both instances of sampling BEP02 on 6/10 and 6/18 (over-excavated and re-sampled), the parent sample met Track 1 UU SCOs for hexavalent chromium. The quality assurance/ quality control (QA/QC) duplicate sample results for BEPDUP04_06182020 were not reproducible at the laboratory. Can you confirm if a Track 1 cleanup has been achieved at BEP02?

Let me know if you would like to jump on a call to discuss. Copies of the laboratory analytical summary tables provided by Eurofins are attached by reference.

Thank you,
Emily

Emily Snead, PG
Project Geologist

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Emily Snead

From: Ahmed, Hasan R (DEC) <hasan.ahmed@dec.ny.gov>
Sent: Wednesday, July 8, 2020 5:49 PM
To: Brian Gochenaur
Cc: Emily Snead; O'Connell, Jane H (DEC); Crawford, Nigel (DEC)
Subject: Re: 37-11 30th Street (C241211) Confirmation Endpoint Sample BEP and Duplicate Discussion

Brian/Emily:

The Department agrees on achieving Track 1 cleanup at
BEP02 Location.

Hasan Ahmed
Project Manager, Superfund and Brownfield Cleanup Section, Division of Environmental Remediation
New York State Department of Environmental Conservation
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-6405 | F: (718) 482-6358 | Email: hasan.ahmed@dec.ny.gov

---

From: Brian Gochenaur <bgochenaur@Langan.com>
Sent: Wednesday, July 8, 2020 4:46 PM
To: Ahmed, Hasan R (DEC)
Cc: Emily Snead; O'Connell, Jane H (DEC)
Subject: FW: 37-11 30th Street (C241211) Confirmation Endpoint Sample BEP and Duplicate Discussion

Hi Hasan – Following up to Emily's emails below…

I hate to be pest about this, I know you all are busy…..but…. the contractor is waiting to pour concrete in this location and we need to understand if we are good or need to dig deeper. As she mentioned the parent samples were fine (passed Track 1), but the dup was slightly over track 1. When we re-ran the dup it passed.

We think this is fine but wanted your final blessing before telling the contractor to proceed.

Let us know if you'd like to chat.

Thanks,

Brian Gochenaur, QEP
Senior Project Manager

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From: Emily Snead
Sent: Tuesday, July 7, 2020 11:25 AM
To: 'Ahmed, Hasan R (DEC)' <hasan.ahmed@dec.ny.gov>
Cc: Brian Gochenaur <bgochenaur@Langan.com>; Michael D. Burke <mburke@Langan.com>; Nicole Kung <nkung@langan.com>; 'O'Connell, Jane H (DEC)' <jane.oconnell@dec.ny.gov>
Subject: RE: 37-11 30th Street (C241211) Confirmation Endpoint Sample BEP and Duplicate Discussion

Hello Hasan,

I wanted to follow-up to see if you've had a chance to review the laboratory data and description of the endpoint sample BEP02 and its QA/QC duplicate sample BEPDUP04_06182020 collected at 37-11 30th Street (C241211). I realized I did not send along a sample location plan in my prior email, and have included a draft figure for reference (BEP02 is highlighted in orange).

The contractor is hoping to wrap up installation of the vapor barrier/ foundation in the area where BEP02 is located this week, and I would like to confirm with you if a Track 1 cleanup has been achieved at the BEP02 location based on the results summarized below.

Let me know if you would like to set up a call to discuss further, and thanks in advance for your assistance.

Regards,
Emily

Emily Snead, PG
Project Geologist

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From: Emily Snead
Sent: Thursday, July 2, 2020 2:20 PM
To: 'Ahmed, Hasan R (DEC)' <hasan.ahmed@dec.ny.gov>
Cc: Brian Gochenaur <bgochenaur@Langan.com>; Michael D. Burke <mburke@Langan.com>; Nicole Kung

<nkung@langan.com>; 'O'Connell, Jane H (DEC)' <jane.oconnell@dec.ny.gov>
Subject: 37-11 30th Street (C241211) Confirmation Endpoint Sample BEP and Duplicate Discussion

Hi Hasan,

I wanted to reach out to provide you with a summary of confirmation endpoint sampling at 37-11 30th Street (C241211) with regards to our final endpoint sample, BEP02 (northwest corner of the site):

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In both instances of sampling BEP02 on 6/10 and 6/18 (over-excavated and re-sampled), the parent sample met Track 1 UU SCOs for hexavalent chromium. The quality assurance/ quality control (QA/QC) duplicate sample results for BEPDUP04_06182020 were not reproducible at the laboratory. Can you confirm if a Track 1 cleanup has been achieved at BEP02?

Let me know if you would like to jump on a call to discuss. Copies of the laboratory analytical summary tables provided by Eurofins are attached by reference.

Thank you,
Emily

Emily Snead, PG
Project Geologist

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New York, NY 10001-2727
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Emily Snead

From: Emily Snead
Sent: Friday, September 13, 2019 11:19 AM
To: 'Ash.christine@epa.gov'
Cc: 'region2_uic@epa.gov'; Brian Gochenaur; Nicole Kung
Subject: USEPA Injection Well Inventory Form Submission (7520-16) - 37-11 30th Street BCP Site in Queens, NY
Attachments: USEPA Injection Form Cover Letter - 37-11 30th Street_09.12.2019.pdf

Good morning Christine,

For your review and approval, please find the enclosed USEPA inventory form 7520-16 for an upcoming in-situ groundwater remediation at the Astoria Steel Brownfield Cleanup Program (BCP) site located at 37-11 30th Street in Queens, New York (BCP Site No. C241211). The short-term in-situ groundwater remediation is anticipated to begin in mid-October 2019.

Please free to contact me with questions.

Thank you,
Emily

Emily Snead, PG
Project Scientist
Direct: 212.479.5432
Mobile: 508.918.8558
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September 13, 2019

Ms. Christine Ash
Chief, Drinking Water and Groundwater Protection
U.S. EPA Region 2
290 Broadway, 18th Floor
New York, NY 10007-1866

Re: Short-term In-situ Groundwater Treatment
37-11 30th Street
Queens, New York
NYSBCP Site Number C241211
Langan Project No.: 170512301

Ms. Ash:

We are submitting this notification on behalf of 37-11 30th Street Holdings LLC to implement a short-term in-situ groundwater treatment at the above-referenced site. We are submitting the inventory form (USEPA form 7520-16; Attachment A). The site (identified as Tax Block 372, p/o Lot 8 and Lot 10) is currently being remediated under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP). The proposed short-term in-situ groundwater treatment will be conducted in accordance with the NYSDEC-approved August 20, 2019 Remedial Action Work Plan (RAWP) prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan).

A remedial Investigation (RI) was performed at the site by Langan between September 26, 2018 to October 5, 2018, and October 15, 2018 to October 17, 2018. Groundwater was encountered at depths ranging between about 22.76 to 27.77 feet below grade surface. Analytical data identified the presence of chromium above the NYSDEC Technical and Operation Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS) in central-east region of the site. Additional compounds exceeding NYSDEC TOGS AWQS included one volatile organic compound (VOC [chloroform]), semivolatile organic compounds (SVOC) and other naturally-occurring metals; however these compounds were not identified as contaminants of concern for the site.

The selected short-term in-situ chemical reduction (ISCR) groundwater treatment includes the injection of S-Micro Zero Valent Iron (ZVI) into the subsurface to o abiotically reduce hexavalent chromium concentrations in groundwater to a less toxic and less mobile trivalent chromium precipitate. The proposed S-Micro ZVI solution will be applied to the target treatment zone (roughly a 2,700-square-foot area targeting the upper 10 feet of the water table) using a direct push drill rig through a network of temporary injection points. A total of 27 temporary injection

points will be installed across the treatment area and each will target a 10-foot radius of influence (ROI). Injections will be sequenced to avoid localized mounding.

We appreciate your timely review and approval of the groundwater treatment plan. Please call Brian Gochenaur at 212-479-5479 with any questions.

Respectfully,

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C.

Michael D. Burke, P.G., CHMM
Senior Associate/Vice President

Enclosure(s): Attachment A – Inventory Form (USEPA form 7520-16)

cc: Georgios Avramides – 37-11 30th Street Holdings LLC
Emily Snead, Brian Gochenaur – Langan
Jason Hayes – Langan

ATTACHMENT A

INVENTORY FORM (USEPA form 7520-16)

Type or print all information. See reverse for instructions. OMB No. 2040-0042 Approval Expires 12/31/2018

INVENTORY OF INJECTION WELLS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF GROUND WATER AND DRINKING WATER

(This information is collected under the authority of the Safe Drinking Water Act)

1. DATE PREPARED *(Year, Month, Day)*: 19-09-12

2. FACILITY ID NUMBER: N/A

3. TRANSACTION TYPE *(Please mark one of the following)*

- ☐ Deletion
- ☑ First Time Entry
- ☐ Entry Change
- ☐ Replacement

4. FACILITY NAME AND LOCATION

A. NAME *(last, first, and middle initial)*: 37-11 30th Holdings LLC

B. STREET ADDRESS/ROUTE NUMBER: 37-11 30th Street

C. LATITUDE

DEG	MIN	SEC
40	45	17.26

D. LONGITUDE

DEG	MIN	SEC
-73	55	54.76

E. TOWNSHIP/RANGE

TOWNSHIP	RANGE	SECT	1/4 SECT

F. CITY/TOWN: Queens

G. STATE: NY

H. ZIP CODE: 11101

I. NUMERIC COUNTY CODE: 081

J. INDIAN LAND *(mark "x")*: ☐ Yes ☒ No

5. LEGAL CONTACT:

A. TYPE *(mark "x")*: ☒ Owner ☐ Operator

B. NAME *(last, first, and middle initial)*: David Schwartz

C. PHONE *(area code and number)*: (646) 762-1429

D. ORGANIZATION: 37-11 30th Holdings LLC

E. STREET/P.O. BOX: 38 East 29th Street, 9th Floor

F. CITY/TOWN: New York

G. STATE: NY

H. ZIP CODE: 10016

I. OWNERSHIP *(mark "x")*

- ☒ PRIVATE
- ☐ PUBLIC
- ☐ SPECIFY OTHER
- ☐ STATE
- ☐ FEDERAL

6. WELL INFORMATION:

A. CLASS AND TYPE		B. NUMBER OF WELLS		C. TOTAL NUMBER OF WELLS	D. WELL OPERATION STATUS				
		COMM	NON-COMM		UC	AC	TA	PA	AN
V	B		27	27	27				
				0					
				0					
				0					
				0					
				0					
				0					

COMMENTS *(Optional)*:
Temporary injection points will be installed for implementation of a short-term in-situ chemical reduction (ISCR) groundwater treatment.

KEY:

DEG = Degree
MIN = Minute
SEC = Second
SECT = Section
1/4 SECT = Quarter Section

COMM = Commercial
NON-COMM = Non-Commercial
AC = Active
UC = Under Construction
TA = Temporarily Abandoned
PA = Permanently Abandoned and Approved by State
AN = Permanently Abandoned and not Approved by State

INSTRUCTIONS AND DEFINITIONS

SECTION 1. DATE PREPARED: Enter date in order of year, month, and day.

SECTION 2. FACILITY ID NUMBER: In the first two spaces, insert the appropriate U.S. Postal Service State Code. In the third space, insert one of the following one letter alphabetic identifiers:

D - DUNS Number,
G - GSA Number, or
S - State Facility Number.

In the remaining spaces, insert the appropriate nine digit DUNS, GSA, or State Facility Number. For example, A Federal facility (GSA - 123456789) located in Virginia would be entered as : VAG123456789.

SECTION 3. TRANSACTION TYPE: Place an "x" in the applicable box. See below for further instructions.

Deletion. Fill in the Facility ID Number.
First Time Entry. Fill in all the appropriate information.
Entry Change. Fill in the Facility ID Number and the information that has changed.
Replacement.

SECTION 4. FACILITY NAME AND LOCATION:

A. Name. Fill in the facility's official or legal name.
B. Street Address. Self Explanatory.
C. Latitude. Enter the facility's latitude (all latitudes assume North Except for American Samoa).
D. Longitude. Enter the facility's longitude (all longitudes assume West except Guam).
E. Township/Range. Fill in the complete township and range. The first 3 spaces are numerical and the fourth is a letter (N,S,E,W) specifying a compass direction. A township is North or South of the baseline, and a range is East or West of the principal meridian (e.g., 132N, 343W).
F. City/Town. Self Explanatory.
G. State. Insert the U.S. Postal Service State abbreviation.
H. Zip Code. Insert the five digit zip code plus any extension.

SECTION 4. FACILITY NAME & LOCATION (CONT'D.):

I. Numeric County Code. Insert the numeric county code from the Federal Information Processing Standards Publication (FIPS Pub 6-1) June 15, 1970, U.S. Department of Commerce, National Bureau of Standards. For Alaska, use the Census Division Code developed by the U.S. Census Bureau.
J. Indian Land. Mark an "x" in the appropriate box (Yes or No) to indicate if the facility is located on Indian land.

SECTION 5. LEGAL CONTACT:

A. Type. Mark an "x" in the appropriate box to indicate the type of legal contact (Owner or Operator). For wells operated by lease, the operator is the legal contact.
B. Name. Self Explanatory.
C. Phone. Self Explanatory.
D. Organization. If the legal contact is an individual, give the name of the business organization to expedite mail distribution.
E. Street/P.O. Box. Self Explanatory.
F. City/Town. Self Explanatory.
G. State. Insert the U.S. Postal Service State abbreviation.
H. Zip Code. Insert the five digit zip code plus any extension.
I. Ownership. Place an "x" in the appropriate box to indicate ownership status.

SECTION 6. WELL INFORMATION:

A. Class and Type. Fill in the Class and Type of injection wells located at the listed facility. Use the most pertinent code (specified below) to accurately describe each type of injection well. For example, 2R for a Class II Enhanced Recovery Well, or 3M for a Class III Solution Mining Well, etc.
B. Number of Commercial and Non-Commercial Wells. Enter the total number of commercial and non-commercial wells for each Class/Type, as applicable.
C. Total Number of Wells. Enter the total number of injection wells for each specified Class/Type.
D. Well Operation Status. Enter the number of wells for each Class/Type under each operation status (see key on other side).

INJECTION WELL CLASS AND TYPE CODES

CLASS I Industrial, Municipal, and Radioactive Waste Disposal Wells used to inject waste below the lowermost Underground Source of Drinking Water (USDW).

TYPE	**1I**	Non-Hazardous Industrial Disposal Well.
	1M	Non-Hazardous Municipal Disposal Well.
	1H	Hazardous Waste Disposal Well injecting below the lowermost USDW.
	1R	Radioactive Waste Disposal Well.
	1X	Other Class I Wells.

CLASS II Oil and Gas Production and Storage Related Injection Wells.

TYPE	**2A**	Annular Disposal Well.
	2D	Produced Fluid Disposal Well.
	2H	Hydrocarbon Storage Well.
	2R	Enhanced Recovery Well.
	2X	Other Class II Wells.

CLASS III Special Process Injection Wells.

TYPE	**3G**	*In Situ* Gasification Well
	3M	Solution Mining Well.

CLASS III (CONT'D.)

TYPE	**3S**	Sulfur Mining Well by Frasch Process.
	3T	Geothermal Well.
	3U	Uranium Mining Well.
	3X	Other Class III Wells.

CLASS IV Wells that inject hazardous waste into/above USDWs.

TYPE	**4H**	Hazardous Facility Injection Well.
	4R	Remediation Well at RCRA or CERCLA site.

CLASS V Any Underground Injection Well not included in Classes I through IV.

TYPE	**5A**	Industrial Well.
	5B	Beneficial Use Well.
	5C	Fluid Return Well.
	5D	Sewage Treatment Effluent Well.
	5E	Cesspools (non-domestic).
	5F	Septic Systems.
	5G	Experimental Technology Well.
	5H	Drainage Well.
	5I	Mine Backfill Well.
	5J	Waste Discharge Well.

PAPERWORK REDUCTION ACT The public reporting and record keeping burden for this collection of information is estimated to average 0.5 hours per response. Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

Emily Snead

From: Ash, Christine <Ash.Christine@epa.gov>
Sent: Tuesday, October 29, 2019 3:54 PM
To: Emily Snead
Subject: 37-11 30th Holdings, LLC ABR Wells

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Emily –

The U.S. Environmental Protection Agency (USEPA) Region 2 Drinking Water & Groundwater Protection Section is in receipt of the Underground Injection Control (UIC) inventory information addressing 27 Aquifer Remediation wells (5X26) authorized by rule located at

37-11 30th Holdings, LLC
37-11 30th Street
Queens, NY 11101

The operation of the well is authorized by rule, pursuant to 40 Code of Federal Regulations (CFR) §144.24.

The New York State Department of Environmental Conservation (NYSDEC) has approved the correction action plan requiring the wells.

Please inform EPA Region 2 when the well is permanently closed and all remediation is complete, via both e-mail and hard copy to the address/email listed below.

Should any conditions change in the operation of the well listed above (such as injectate composition, closure of the well, construction of additional wells, etc.) you are required to notify this office within five (5) days.

Change in operation information should be sent via e-mail and hard copy.

Any accidental spills into a well should be reported within twenty-four (24) hours after the event via phone or email.

Information should be mailed to:

Christine Ash, Chief
Drinking Water and Ground Water Protection Section
United States Environmental Protection Agency
290 Broadway, 24th Floor
New York, NY 10007-1866
Re: UIC# 20NY11999001
Attention: Charles Hillenbrand

Failure to submit any, and all information truthfully and accurately may subject you to sanctions authorized by federal law. Please also note that all information submitted by you may be used in an administrative, civil judicial, or criminal action. In addition, making a knowing submission of materially false information to the U.S. Government may be a criminal offense.

If you have any questions or need additional information, please contact Charles Hillenbrand of my staff at (212) 637-3951 or by e-mail at hillenbrand.charles@epa.gov.

Thank you,

Christine Ash
Chief, Drinking Water and Ground Water Protection Section
EPA Region 2
290 Broadway
New York, NY 10007
ash.christine@epa.gov

Emily Snead

From: Ahmed, Hasan R (DEC) <hasan.ahmed@dec.ny.gov>
Sent: Friday, September 27, 2019 5:33 PM
To: Brian Gochenaur; Emily Snead
Cc: Nicole Kung
Subject: RE: 37-11 30th Street (C241211) - Soil Disposal Review - Stericycle Environmental Solutions

Brian and Emily:

We don't approve disposal facility, you have to find a facility, so the PE should be able to certify that the facility is licensed to receive the material in the FER.

Hasan

From: Brian Gochenaur <bgochenaur@Langan.com>
Sent: Thursday, September 26, 2019 5:20 AM
To: Emily Snead <esnead@langan.com>; Ahmed, Hasan R (DEC) <hasan.ahmed@dec.ny.gov>
Cc: Nicole Kung <nkung@langan.com>
Subject: RE: 37-11 30th Street (C241211) - Soil Disposal Review - Stericycle Environmental Solutions

Hi Hasan,

I'm following up on Emily's email below. I assume you have no objection to disposal at these facilities. The contractor plans on removing soil as early as next week (I will let you know specifically when I do).

Please let me know if you have any questions.

Thanks,

Brian Gochenaur, QEP
Senior Project Manager
Direct: 212.479.5479
Mobile: 347.320.2756
File Sharing Link

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From: Emily Snead <esnead@langan.com>
Sent: Thursday, September 19, 2019 8:28 PM
To: Ahmed, Hasan R (DEC) <hasan.ahmed@dec.ny.gov>
Cc: Brian Gochenaur <bgochenaur@Langan.com>; Nicole Kung <nkung@langan.com>
Subject: 37-11 30th Street (C241211) - Soil Disposal Review - Stericycle Environmental Solutions

Hasan,

The contractor at 37-11 30th Street (C241211) proposes off-site disposal of hazardous chromium-impacted soil to the Stericycle Environmental Solutions (Republic Environmental Systems [PA], LLC) facility in Hatfield, PA. A copy of the facility approval letter, Langan BCP Soil Disposal Notification Letter, and supporting facility permit documentation is available for download via the link below. Feel free to reach out if you have difficulty accessing the file.

Let me know if the contractor may dispose of the hazardous chromium-impacted soil to the Stericycle Environmental Solutions facility.

Feel free to call with questions.

Regards,
Emily

New files have been posted for you at the Langan Client Services site and can be retrieved until 9/29/2019 by clicking on the link below.

https://clients.langan.com/Sharing/filesharing/ViewPosted?transactionHash=1870395836

Name	Type	Size
37-11 30th St (C241211) Soil Disposal Package_Stericycle.pdf	.pdf	5.15 MB

If you have any questions regarding the use of the Langan Client Services, please contact Langan IT (helpdesk@langan.com).

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