

1 Tech Drive, Suite 310
Andover, MA 01810

T: 978.794.0336



March 1, 2021

U.S. Environmental Protection Agency
Office of Ecosystem Protection
EPA/OEP RGP Applications Coordinator
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: Notice of Intent - Remediation General Permit for Dewatering
South Meadow Pond Remediation
Site: 31 and 35 South Meadow Road
Clinton, MA 01510

To Whom It May Concern:

On behalf of the Town of Clinton, please find a copy of a Notice of Intent (NOI) (Appendix A) and supporting material for the Remedial Dredging of the South End of South Meadow Pond in Clinton and Lancaster, Massachusetts (Site). This project is being conducted as part of the Clinton Landfill Remediation as required by the Solid Waste Division of the Massachusetts Department of Environmental Protection (MassDEP). The Town of Clinton Department of Public Works is seeking a Remediation General Permit (RGP) for the dredging project, which includes the dewatering, treatment, and discharge of surface and groundwater from the work area to the surrounding South Meadow Pond. This dewatering and discharge will allow for the excavation and removal of contaminated sediment and soil at the Site. A Site Locus and Site Location Map is provided as Figure 1, and the Dredging and Excavation Plan as Figure 2.

Site Background Information:

The Town of Clinton owns a closed, unlined municipal solid waste landfill (the Landfill) to the west of South Meadow Road, in Clinton, Massachusetts. The Landfill covers approximately 28 acres and was used to dispose of industrial, commercial and municipal solid waste from approximately the mid 1930's until 1988. The Landfill was closed with a low permeability soil cap in June 1990. During a July 2003 inspection of the Landfill, the MassDEP observed the presence of iron staining and flocculation associated with groundwater seeps along the western banks of a shallow cove (the Cove) on the southern end of South Meadow Pond (the Pond), located approximately 600 feet northeast of the Landfill. In response to these adverse impacts, the Town was required to complete an Initial and Comprehensive Site Assessment (CSA) under the solid waste management facility regulations, 310 CMR 19.000, which was approved by the MassDEP in August 2007. The CSA documented the presence of elevated concentrations of iron and arsenic associated with the seeps flowing into the Pond; a large portion of the southern Cove was covered with iron flocculent.

In the 2015 Revised Dredge Design Report, the extent of dredging was based on the limits of Readily Apparent Harm, i.e., those areas that were visually impacted by iron flocculent. However, sampling results from October 2016 indicated elevated levels of iron and arsenic in the sediment at the western end of the Cove in areas where iron

flocculent/staining were not visually apparent. In addition, public comments on the dredge design from the Owner of the property surrounding the Cove raised concerns about the extent of visible contamination (staining) to the north of the eastern end of the Cove (northeast of the causeway to the island) and the associated potential for impacts on the ecological health of the Pond. As a result, Brown and Caldwell recommended that the basis for determining the extent of dredging be expanded from “Readily Apparent Harm” to areas that also pose significant ecological risk because of impacts from the Landfill. The primary purpose of this portion of the project is to mitigate these impacts to the Pond as described below.

The Town submitted a permit application to completely close and cap the Landfill according to the Remedial Final Cover Plan submitted to MassDEP on March 20, 2013. Brown and Caldwell prepared a report titled “Focused Feasibility Study (FFS) to Evaluate Potential Remedial Approaches for Addressing the Iron Flocculent in South Meadow Pond,” which was submitted to MassDEP on October 2, 2012. A key evaluation criterion in the FFS was to minimize potential impacts to the surrounding area/buffer zone. The FFS recommended mechanical dredging of the Cove “in the dry” with the construction of gravel containment barriers located off-shore in the vicinity of the seeps.

The goals of the proposed remedial work are to excavate the contaminated sediment/soils down to a sandy soil layer identified in previous investigations and to construct gravel containment barriers around major seeps to minimize recontamination of the Pond. The dewatering and soil/sediment excavation is expected to be completed in late summer-early fall 2021. A remediation contractor has not yet been selected, but a Request for Proposals and competitive bidding process is anticipated to begin in late spring 2021.

The selected contractor will have operational control over remediation plans and specifications and will direct the personnel responsible for the implementation and day-to-day operations and activities that are necessary to ensure compliance with the NPDES RGP, including operation, inspection, and monitoring. Brown and Caldwell will have a Construction Monitor at the site throughout the project.

Work Summary:

Prior to the removal of impacted sediment, the Cove, a portion of the delta and a portion of the area northeast of the causeway (see Figure 2) will be dewatered to facilitate the dredging activities. Temporary dams will be installed to facilitate dredging and dewatering, and to protect the main body of the Pond from turbidity impacts. The dredging will be performed in stages between the temporary dams so that the water treatment system will be able to handle the volumes of water generated. Fish and other large aquatic animals that may be present within the area separated from the Pond by the dams during the dewatering operation will be removed to the extent feasible, and will be relocated to the larger Pond area in accordance with a relocation approval from the Massachusetts Division of Fisheries and Wildlife.

The excavated materials will include the layer of soft sediments in the Cove/delta and the northeast area, as well as the near-shore soil in areas where visible groundwater seeps have been identified. The soft sediments will be removed down to the top of the sandy material underneath, while the seeps will be excavated to a depth of approximately two feet (or greater if visual impacts are apparent). The dredged sediments and soil from the seep excavation will be stockpiled, conditioned to reduce moisture, and transported to the Town of Clinton Landfill for disposal. The liquid obtained from construction dewatering and from conditioning of the sediments will be

treated in a temporary on-site facility and discharged to the Pond. Once excavation/dredging is completed, containment berms will be installed in the Cove downgradient of the areas of three major groundwater seeps. The berms will provide sedimentation basins, isolated from the Cove, where the generation of the iron flocculent will take place immediately after the groundwater surfaces. The iron flocculent will then be periodically removed from these basins.

Surface Water Dewatering and Treatment:

Continuous dewatering will be maintained to prevent re-saturation of the sediments during storage/drainage within the Cove's footprint. Initial dewatering activities will be conducted with peak flows of 600 gallons per minute (gpm) or less. After initial dewatering of the Pond, we anticipate effluent discharge rates will decrease to roughly 50 gpm. The dewatering system, shown in Figure 2, will include dewatering sumps placed at low points of the Cove and the area northeast of the causeway, pumps, and conveyance lines (piping/hoses). Sediment pore water and surface water will be pumped to the treatment plant. The water treatment system will consist of the treatment processes shown in the process flow diagram in Figure 3. Treated water will be discharged to South Meadow Pond on the northwest side of the delta. A bench scale treatability study was conducted to characterize the elutriate liquid and evaluate treatment technologies based on the COPCs that exceed proposed effluent limits for discharge to the Pond. Results of the treatability study were used to define the proposed treatment system. The following is a description of the treatment system components:

- Influent Equalization Tank: Receive and equalize groundwater, surface water, and elutriate from the sediment dewatering operations. A feed pump capable of operating at flow capacities ranging from 400 – 600 gpm will transfer water from the equalization tank to the downstream treatment system.
- pH Adjustment System (Stage 1): Raw water mix from the influent equalization tank will be pumped to this system. The pH adjustment system will be a packaged system consisting of a mixing tank and a settling tank. Chemicals such as sodium hydroxide, coagulant, and flocculent will be added to the mixing tank on an as-needed basis. Sodium hydroxide will be dosed to meet a desired pH of 7.5 S.U. Coagulant and flocculent will be added to enhance solid/liquid separation. The mixing tank will be followed by a settling tank to settle out the suspended solids and insoluble metals. A sludge pump will transfer settled sludge from the settling tank to a centrifuge for dewatering.
- pH Adjustment System (Stage 2): Data from the treatability tests indicate that the supernatant TSS concentration after pH adjustment would be approximately 2000 mg/L. Filtration systems such as sand, multi-media, and bag filtration systems are not capable of handling TSS at such high concentrations. Hence, the second stage system will be primarily used to enhance TSS capture. This packaged system will consist of a mixing tank and a settling tank. Chemicals such as coagulant and flocculent will be added to the mixing tank on an as-needed basis to enhance solid/liquid separation. The mixing tank will be followed by a settling tank to settle out the TSS. A sludge pump will transfer settled sludge from the settling tank to a centrifuge for dewatering.
- Multi-stage Bag Filtration System: Supernatant from the 1st and/or 2nd stage pH adjustment system will be collected in a collection tank to serve as the influent to the bag filtration system. A feed pump will pump contents from the collection tank to a multi-stage bag filtration system consisting of a 20 micron, 10 micron, and 5

micron bag filter units that operate in series. This system will provide additional suspended solids capture to prevent clogging of downstream treatment systems such as granular activated carbon (GAC) and resin for final polishing.

- Resin: Effluent from the multi-stage bag filtration system can be treated through a resin column for arsenic polishing on an as needed basis should treatment for arsenic be required. The effluent from the bag filtration system could also be bypassed to the effluent storage tank.
- Granular Activated Carbon (GAC): Similar to resin treatment, effluent can be treated through a GAC column on an as needed basis should treatment for organic constituents be required. Elutriate characterization data indicates that organic concentrations were below proposed effluent limits, and treatment for organics is not anticipated. Effluent from the multi-stage bag filtration system could be pumped to either the GAC or resin units (depending on treatment needs) and/or bypassed to the effluent storage tank.
- Effluent Storage Tank (EST): An effluent storage tank will store all treated effluent from the treatment system before final discharge to the South Meadow Pond. The EST will include a coarse bubble diffuser aeration grid and a blower to supplement oxygen and meet the desired oxygen levels prior to discharge to the Pond. Sodium hydroxide and sulfuric acid will be dosed (metering pumps) to the EST to meet the desired pH range prior to discharge. An effluent pump will pump contents from the EST to the Pond via an outfall line.
- Sludge Handling and Dewatering: Sludge from the 1st and 2nd stage pH adjustment systems will be pumped to a centrifuge for dewatering. Polymer will be dosed to the feed line of the centrifuge to enhance sludge dewatering. Sludge cake generated from the centrifuge will be transferred to a roll-off box and disposed along with dewatered sediment at the Clinton Landfill. Centrate (liquid) from the centrifuge will be pumped back to the influent EQ tank for re-treatment. Sludge cake disposal is expected to be approximately 15 cubic yards/week.

Treatment chemicals and additives have not been determined to the extent required in accordance with Part 2.5.3.d.i of the RGP. The contractor for the project will be determining the specific chemicals needed. A NOI change request, including Safety Data Sheets (SDS), will be submitted after the contractor has determined the chemicals and concentrations needed to run the treatment plant.

Receiving Water Information

On September 9, 2014, Brown and Caldwell collected a receiving water sample from the middle of South Meadow Pond. The surface water sample was collected and submitted to Alpha Analytical, Inc. of Westborough, Massachusetts for chemical analyses of total and dissolved metals, ammonia, hardness, non-halogenated and halogenated VOCs, Naphthalene, MTBE and tert-Amyl Methyl Ether. Additionally, field parameters were collected at the time of sampling including pH and temperature. The results are summarized in Table 1-2. The laboratory data report is included in Appendix B.

The seven-day-ten-year-flow (7Q10) of the receiving water could not be established for a pond of this size as there was no site-specific data for South Meadow Pond and not enough recent data on nearby ponds of similar size. Conservative WQBEL values (Table 2-1) were set at the concentrations of the receiving waters due to a lack of 7Q10 values, if a constituent was non-detect the WQBEL value was set at the detection limit. All

additional effluent limits were set at their respective TBEL value as identified in Appendix A. A summary of receiving water concentrations can be found in Table 1-2, Pond Site 1.

Source Water Information

On September 9, 2014, Brown and Caldwell collected a source water sample from the middle of the Cove on the south side of the Pond. The surface water sample was collected and submitted to Alpha Analytical, Inc. of Westborough, Massachusetts for chemical analyses of total and dissolved metals, ammonia, hardness, non-halogenated and halogenated VOCs, Naphthalene, MTBE and tert-Amyl Methyl Ether. Additionally, field parameters were collected at the time of sampling including pH and temperature. The results are summarized in Table 1-2. The laboratory data report is included in Appendix B.

Additionally, groundwater, elutriate and sediment results are summarized in Table 1-1 and Table 1-3 to account for source water concentrations originating from groundwater flow to the pond. Elutriate and sediment concentrations are representative of a worst-case scenario and are unlikely to be present at these high concentrations in the influent waters. For that reason, the source water sample data referenced above are considered representative of the influent into the treatment system.

Note that in Section D.4. of the NOI form, several parameters are listed with non-detect values for the influent even though the box is checked that the contaminant is known or believed to be present. The reason for this apparent discrepancy is that we considered results from both elutriate (water extracted from bulk sediment samples) and surface water samples when determining if a contaminant was present but are only using the surface water samples for the daily maximum/average concentrations. The results for the elutriate and sediment samples can be found in Table 1-1 and the laboratory data report can be found in Appendix B.

Determination of Endangered Species Act Eligibility

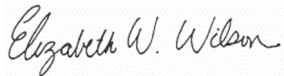
Using the guidelines outlined in Appendix 1 of the 2017 NPDES RGP, a preliminary determination for the action area was established using the Information, Planning and Conservation (IPAC) online system; a copy of the determination is attached in Appendix C. Based on the results of the determination, the project and action area are considered to meet Fish and Wildlife Services (FWS) Criterion C (the discharges and related activities will have no effect on any federally threatened or endangered species). Based on proposed site preparation activities, it is estimated that a total of 10,507 SF (0.24 acres) of tree clearing activities will take place within Northern Long-Eared Bat habitat. The discharges and related activities of the dredging project will have no effect on the Northern Long-Eared Bat based on federal consultation, including with FWS that took place during the permitting process with the Army Corps of Engineers. Measures to avoid and minimize possible impacts to the Northern Long-Eared Bat include a determination of the number of trees in the area conducive to Northern Long-Eared Bat habitat and pup rearing. An estimated 250 trees 3 inches in diameter or greater were identified by the Town of Clinton. Additionally, to avoid the June/July pup-rearing phase, the Town of Clinton will perform tree clearing outside that time period, either before June 1, 2021 or after August 1, 2020.

Documentation of National Historic Preservation Act (NHPA) Requirements

Brown and Caldwell provided dredge design plans to Mr. Edward Bell of the Massachusetts Historical Commission (MHC) and Mr. David Robinson of the Massachusetts Board of Underwater Archeological Resources (BUAR) in November 2019. The MHC issued a response on December 3, 2019 stating that, "The MHC believes that the project is unlikely to affect any significant historic or archeological resources." The BUAR issued a response on February 5, 2020 stating that, "the Board expects that this project is unlikely to impact submerged cultural resources." Based on these reviews, the project Site, its discharges, and discharge related activities are not considered to have the potential to affect historic properties. The NHPA letters from Mr. Bell and Mr. Robertson can be found in Appendix C.

Should you have any questions or need further information, please contact me at this office at 978-983-2056 or Christopher McGown, Superintendent of Public Works, at 978-365-4110.

Very truly yours,
Brown and Caldwell



Elizabeth W. Wilson
Principal Scientist

EW/ce

cc: Christopher McGown, Superintendent of Public Works
Massachusetts Department of Environmental Protection

Enclosures:

1. Appendix A - Notice of Intent for MAG910000
2. Figure 1 – Site Locus and Site Location Map
3. Figure 2 – Dredging and Excavation Plan
4. Figure 3 – Water Treatment System Process Flow Diagram
5. Table 1-1: Summary of 2014 Bulk Sediment and Elutriate Analytical Results
6. Table 1-2: Summary of 2014 Surface Water Sampling Analytical Results
7. Table 1-3: Summary of October 2020 Groundwater Sampling Results
8. Table 2-1: Monitoring Values and Effluent Limits
9. Appendix B – Laboratory Data Reports
10. Appendix C – ESA and NHPA Letters

Appendix A

Notice of Intent for MAG910000

II. Suggested Format for the Remediation General Permit Notice of Intent (NOI)

A. General site information:

1. Name of site:	Site address: Street: <table border="1" data-bbox="888 475 1950 557"> <tr> <td data-bbox="888 475 1591 557">City:</td><td data-bbox="1591 475 1722 557">State:</td><td data-bbox="1722 475 1950 557">Zip:</td></tr> </table>	City:	State:	Zip:									
City:	State:	Zip:											
2. Site owner Owner is (check one): ☐ Federal ☐ State/Tribal ☐ Private ☐ Other; if so, specify:	<table border="1"> <tr> <td colspan="3" data-bbox="888 557 1950 630">Contact Person:</td></tr> <tr> <td data-bbox="888 630 1461 698">Telephone:</td><td colspan="2" data-bbox="1461 630 1950 698">Email:</td></tr> <tr> <td colspan="3" data-bbox="888 698 1950 800">Mailing address: Street:</td></tr> <tr> <td data-bbox="888 800 1591 878">City:</td><td data-bbox="1591 800 1722 878">State:</td><td data-bbox="1722 800 1950 878">Zip:</td></tr> </table>	Contact Person:			Telephone:	Email:		Mailing address: Street:			City:	State:	Zip:
Contact Person:													
Telephone:	Email:												
Mailing address: Street:													
City:	State:	Zip:											
3. Site operator, if different than owner	<table border="1"> <tr> <td colspan="3" data-bbox="888 878 1950 938">Contact Person:</td></tr> <tr> <td data-bbox="888 938 1461 998">Telephone:</td><td colspan="2" data-bbox="1461 938 1950 998">Email:</td></tr> <tr> <td colspan="3" data-bbox="888 998 1950 1101">Mailing address: Street:</td></tr> <tr> <td data-bbox="888 1101 1591 1154">City:</td><td data-bbox="1591 1101 1722 1154">State:</td><td data-bbox="1722 1101 1950 1154">Zip:</td></tr> </table>	Contact Person:			Telephone:	Email:		Mailing address: Street:			City:	State:	Zip:
Contact Person:													
Telephone:	Email:												
Mailing address: Street:													
City:	State:	Zip:											
4. NPDES permit number assigned by EPA: NPDES permit is (check all that apply): ☐ RGP ☐ DGP ☐ CGP ☐ MSGP ☐ Individual NPDES permit ☐ Other; if so, specify:	5. Other regulatory program(s) that apply to the site (check all that apply): <table border="0"> <tr> <td>☐ MA Chapter 21e; list RTN(s):</td><td>☐ CERCLA</td></tr> <tr> <td>☐ NH Groundwater Management Permit or Groundwater Release Detection Permit:</td><td>☐ UIC Program</td></tr> <tr> <td></td><td>☐ POTW Pretreatment</td></tr> <tr> <td></td><td>☐ CWA Section 404</td></tr> </table>	☐ MA Chapter 21e; list RTN(s):	☐ CERCLA	☐ NH Groundwater Management Permit or Groundwater Release Detection Permit:	☐ UIC Program		☐ POTW Pretreatment		☐ CWA Section 404				
☐ MA Chapter 21e; list RTN(s):	☐ CERCLA												
☐ NH Groundwater Management Permit or Groundwater Release Detection Permit:	☐ UIC Program												
	☐ POTW Pretreatment												
	☐ CWA Section 404												

B. Receiving water information:

1. Name of receiving water(s):	Waterbody identification of receiving water(s):	Classification of receiving water(s):
Receiving water is (check any that apply): ☐ Outstanding Resource Water ☐ Ocean Sanctuary ☐ territorial sea ☐ Wild and Scenic River		
2. Has the operator attached a location map in accordance with the instructions in B, above? (check one): ☐ Yes ☐ No Are sensitive receptors present near the site? (check one): ☐ Yes ☐ No If yes, specify:		
3. Indicate if the receiving water(s) is listed in the State's Integrated List of Waters (i.e., CWA Section 303(d)). Include which designated uses are impaired, and any pollutants indicated. Also, indicate if a final TMDL is available for any of the indicated pollutants. For more information, contact the appropriate State as noted in Part 4.6 of the RGP.		
4. Indicate the seven day-ten-year low flow (7Q10) of the receiving water determined in accordance with the instructions in Appendix V for sites located in Massachusetts and Appendix VI for sites located in New Hampshire.		
5. Indicate the requested dilution factor for the calculation of water quality-based effluent limitations (WQBELs) determined in accordance with the instructions in Appendix V for sites in Massachusetts and Appendix VI for sites in New Hampshire.		
6. Has the operator received confirmation from the appropriate State for the 7Q10 and dilution factor indicated? (check one): ☐ Yes ☐ No If yes, indicate date confirmation received:		
7. Has the operator attached a summary of receiving water sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ☐ Yes ☐ No		

C. Source water information:

1. Source water(s) is (check any that apply):			
☐ Contaminated groundwater Has the operator attached a summary of influent sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ☐ Yes ☐ No	☐ Contaminated surface water Has the operator attached a summary of influent sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ☐ Yes ☐ No	☐ The receiving water	☐ Potable water; if so, indicate municipality or origin: ☐ Other; if so, specify:
		☐ A surface water other than the receiving water; if so, indicate waterbody:	

2. Source water contaminants:	
a. For source waters that are contaminated groundwater or contaminated surface water, indicate are any contaminants present that are not included in the RGP? (check one): ☐ Yes ☐ No If yes, indicate the contaminant(s) and the maximum concentration present in accordance with the instructions in Appendix VIII.	b. For a source water that is a surface water other than the receiving water, potable water or other, indicate any contaminants present at the maximum concentration in accordance with the instructions in Appendix VIII? (check one): ☐ Yes ☐ No
3. Has the source water been previously chlorinated or otherwise contains residual chlorine? (check one): ☐ Yes ☐ No	

D. Discharge information

1.The discharge(s) is a(n) (check any that apply): ☐ Existing discharge ☐ New discharge ☐ New source	
Outfall(s):	Outfall location(s): (Latitude, Longitude)
Discharges enter the receiving water(s) via (check any that apply): ☐ Direct discharge to the receiving water ☐ Indirect discharge, if so, specify: ☐ A private storm sewer system ☐ A municipal storm sewer system If the discharge enters the receiving water via a private or municipal storm sewer system: Has notification been provided to the owner of this system? (check one): ☐ Yes ☐ No Has the operator has received permission from the owner to use such system for discharges? (check one): ☐ Yes ☐ No, if so, explain, with an estimated timeframe for obtaining permission: Has the operator attached a summary of any additional requirements the owner of this system has specified? (check one): ☐ Yes ☐ No	
Provide the expected start and end dates of discharge(s) (month/year):	
Indicate if the discharge is expected to occur over a duration of: ☐ less than 12 months ☐ 12 months or more ☐ is an emergency discharge	
Has the operator attached a site plan in accordance with the instructions in D, above? (check one): ☐ Yes ☐ No	

2. Activity Category: (check all that apply)	3. Contamination Type Category: (check all that apply)	
☐ I – Petroleum-Related Site Remediation ☐ II – Non-Petroleum-Related Site Remediation ☐ III – Contaminated Site Dewatering ☐ IV – Dewatering of Pipelines and Tanks ☐ V – Aquifer Pump Testing ☐ VI – Well Development/Rehabilitation ☐ VII – Collection Structure Dewatering/Remediation ☐ VIII – Dredge-Related Dewatering	a. If Activity Category I or II: (check all that apply) ☐ A. Inorganics ☐ B. Non-Halogenated Volatile Organic Compounds ☐ C. Halogenated Volatile Organic Compounds ☐ D. Non-Halogenated Semi-Volatile Organic Compounds ☐ E. Halogenated Semi-Volatile Organic Compounds ☐ F. Fuels Parameters	
	b. If Activity Category III, IV, V, VI, VII or VIII: (check either G or H)	
	<table border="1"> <tr> <td data-bbox="970 800 1419 873">☐ G. Sites with Known Contamination</td><td data-bbox="1419 800 2003 873">☐ H. Sites with Unknown Contamination</td></tr> </table>	☐ G. Sites with Known Contamination
☐ G. Sites with Known Contamination	☐ H. Sites with Unknown Contamination	
<table border="1"> <tr> <td data-bbox="970 873 1419 1409"> c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply) ☐ A. Inorganics ☐ B. Non-Halogenated Volatile Organic Compounds ☐ C. Halogenated Volatile Organic Compounds ☐ D. Non-Halogenated Semi-Volatile Organic Compounds ☐ E. Halogenated Semi-Volatile Organic Compounds ☐ F. Fuels Parameters </td><td data-bbox="1419 873 2003 1409"> d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply </td></tr> </table>	c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply) ☐ A. Inorganics ☐ B. Non-Halogenated Volatile Organic Compounds ☐ C. Halogenated Volatile Organic Compounds ☐ D. Non-Halogenated Semi-Volatile Organic Compounds ☐ E. Halogenated Semi-Volatile Organic Compounds ☐ F. Fuels Parameters	d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply
c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply) ☐ A. Inorganics ☐ B. Non-Halogenated Volatile Organic Compounds ☐ C. Halogenated Volatile Organic Compounds ☐ D. Non-Halogenated Semi-Volatile Organic Compounds ☐ E. Halogenated Semi-Volatile Organic Compounds ☐ F. Fuels Parameters	d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply	

MAG910000
NHG910000

4. Influent and Effluent Characteristics

Influent and Effluent Characteristics									
Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
A. Inorganics									
Ammonia								Report mg/L	---
Chloride								Report µg/l	---
Total Residual Chlorine								0.2 mg/L	
Total Suspended Solids								30 mg/L	
Antimony								206 µg/L	
Arsenic								104 µg/L	
Cadmium								10.2 µg/L	
Chromium III								323 µg/L	
Chromium VI								323 µg/L	
Copper								242 µg/L	
Iron								5,000 µg/L	
Lead								160 µg/L	
Mercury								0.739 µg/L	
Nickel								1,450 µg/L	
Selenium								235.8 µg/L	
Silver								35.1 µg/L	
Zinc								420 µg/L	
Cyanide								178 mg/L	
B. Non-Halogenated VOCs									
Total BTEX								100 µg/L	---
Benzene								5.0 µg/L	---
1,4 Dioxane								200 µg/L	---
Acetone								7.97 mg/L	---
Phenol								1,080 µg/L	

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
C. Halogenated VOCs									
Carbon Tetrachloride								4.4 µg/L	
1,2 Dichlorobenzene								600 µg/L	---
1,3 Dichlorobenzene								320 µg/L	---
1,4 Dichlorobenzene								5.0 µg/L	---
Total dichlorobenzene								763 µg/L in NH	---
1,1 Dichloroethane								70 µg/L	---
1,2 Dichloroethane								5.0 µg/L	---
1,1 Dichloroethylene								3.2 µg/L	---
Ethylene Dibromide								0.05 µg/L	---
Methylene Chloride								4.6 µg/L	---
1,1,1 Trichloroethane								200 µg/L	---
1,1,2 Trichloroethane								5.0 µg/L	---
Trichloroethylene								5.0 µg/L	---
Tetrachloroethylene								5.0 µg/L	
cis-1,2 Dichloroethylene								70 µg/L	---
Vinyl Chloride								2.0 µg/L	---
D. Non-Halogenated SVOCs									
Total Phthalates								190 µg/L	
Diethylhexyl phthalate								101 µg/L	
Total Group I PAHs								1.0 µg/L	---
Benzo(a)anthracene								As Total PAHs	
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(k)fluoranthene									
Chrysene									
Dibenzo(a,h)anthracene									
Indeno(1,2,3-cd)pyrene									

[illegible]

E. Treatment system information

1. Indicate the type(s) of treatment that will be applied to effluent prior to discharge: (check all that apply) ☐ Adsorption/Absorption ☐ Advanced Oxidation Processes ☐ Air Stripping ☐ Granulated Activated Carbon (“GAC”)/Liquid Phase Carbon Adsorption ☐ Ion Exchange ☐ Precipitation/Coagulation/Flocculation ☐ Separation/Filtration ☐ Other; if so, specify:	
2. Provide a written description of all treatment system(s) or processes that will be applied to the effluent prior to discharge. Identify each major treatment component (check any that apply): ☐ Fractionation tanks ☐ Equalization tank ☐ Oil/water separator ☐ Mechanical filter ☐ Media filter ☐ Chemical feed tank ☐ Air stripping unit ☐ Bag filter ☐ Other; if so, specify: Indicate if either of the following will occur (check any that apply): ☐ Chlorination ☐ De-chlorination	
3. Provide the design flow capacity in gallons per minute (gpm) of the most limiting component. Indicate the most limiting component: Is use of a flow meter feasible? (check one): ☐ Yes ☐ No, if so, provide justification:	
Provide the proposed maximum effluent flow in gpm.	
Provide the average effluent flow in gpm.	
If Activity Category IV applies, indicate the estimated total volume of water that will be discharged:	
4. Has the operator attached a schematic of flow in accordance with the instructions in E, above? (check one): ☐ Yes ☐ No	

F. Chemical and additive information

1. Indicate the type(s) of chemical or additive that will be applied to effluent prior to discharge or that may otherwise be present in the discharge(s): (check all that apply)

☐ Algaecides/biocides ☐ Antifoams ☐ Coagulants ☐ Corrosion/scale inhibitors ☐ Disinfectants ☐ Flocculants ☐ Neutralizing agents ☐ Oxidants ☐ Oxygen ☐ scavengers ☐ pH conditioners ☐ Bioremedial agents, including microbes ☐ Chlorine or chemicals containing chlorine ☐ Other; if so, specify:

2. Provide the following information for each chemical/additive, using attachments, if necessary:

- a. Product name, chemical formula, and manufacturer of the chemical/additive;
- b. Purpose or use of the chemical/additive or remedial agent;
- c. Material Safety Data Sheet (MSDS) and Chemical Abstracts Service (CAS) Registry number for each chemical/additive;
- d. The frequency (hourly, daily, etc.), duration (hours, days), quantity (maximum and average), and method of application for the chemical/additive;
- e. Any material compatibility risks for storage and/or use including the control measures used to minimize such risks; and
- f. If available, the vendor's reported aquatic toxicity (NOAEL and/or LC50 in percent for aquatic organism(s)).

3. Has the operator attached an explanation which demonstrates that the addition of such chemicals/additives may be authorized under this general permit in accordance with the instructions in F, above? (check one): ☐ Yes ☐ No; if no, has the operator attached data that demonstrates each of the 126 priority pollutants in CWA Section 307(a) and 40 CFR Part 423.15(j)(1) are non-detect in discharges with the addition of the proposed chemical/additive? (check one): ☐ Yes ☐ No

G. Endangered Species Act eligibility determination

1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:

- ☐ **FWS Criterion A:** No endangered or threatened species or critical habitat are in proximity to the discharges or related activities or come in contact with the “action area”.
- ☐ **FWS Criterion B:** Formal or informal consultation with the FWS under section 7 of the ESA resulted in either a no jeopardy opinion (formal consultation) or a written concurrence by FWS on a finding that the discharges and related activities are “not likely to adversely affect” listed species or critical habitat (informal consultation). Has the operator completed consultation with FWS? (check one): ☐ Yes ☐ No; if no, is consultation underway? (check one): ☐ Yes ☐ No
- ☐ **FWS Criterion C:** Using the best scientific and commercial data available, the effect of the discharges and related activities on listed species and critical habitat have been evaluated. Based on those evaluations, a determination is made by EPA, or by the operator and affirmed by EPA, that the discharges and related activities will have “no effect” on any federally threatened or endangered listed species or designated critical habitat under the jurisdiction of the FWS. This determination was made by: (check one) ☐ the operator ☐ EPA ☐ Other; if so, specify:

- ☐ **NMFS Criterion:** A determination made by EPA is affirmed by the operator that the discharges and related activities will have “no effect” or are “not likely to adversely affect” any federally threatened or endangered listed species or critical habitat under the jurisdiction of NMFS and will not result in any take of listed species. Has the operator previously completed consultation with NMFS? (check one): ☐ Yes ☐ No

2. Has the operator attached supporting documentation of ESA eligibility in accordance with the instructions in Appendix I, and G, above? (check one): ☐ Yes ☐ No

Does the supporting documentation include any written concurrence or finding provided by the Services? (check one): ☐ Yes ☐ No; if yes, attach.

H. National Historic Preservation Act eligibility determination

1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:

- ☐ **Criterion A:** No historic properties are present. The discharges and discharge-related activities (e.g., BMPs) do not have the potential to cause effects on historic properties.
- ☐ **Criterion B:** Historic properties are present. Discharges and discharge related activities do not have the potential to cause effects on historic properties.
- ☐ **Criterion C:** Historic properties are present. The discharges and discharge-related activities have the potential to have an effect or will have an adverse effect on historic properties.

2. Has the operator attached supporting documentation of NHPA eligibility in accordance with the instructions in H, above? (check one): ☐ Yes ☐ No

Does the supporting documentation include any written agreement with the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (TPHO), or other tribal representative that outlines measures the operator will carry out to mitigate or prevent any adverse effects on historic properties? (check one): ☐ Yes ☐ No

I. Supplemental information

Describe any supplemental information being provided with the NOI. Include attachments if required or otherwise necessary.

Has the operator attached data, including any laboratory case narrative and chain of custody used to support the application? (check one): ☐ Yes ☐ No

Has the operator attached the certification requirement for the Best Management Practices Plan (BMPP)? (check one): ☐ Yes ☐ No

J. Certification requirement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

BMPP certification statement:

Notification provided to the appropriate State, including a copy of this NOI, if required.

Check one: Yes ☐ No ☐

Notification provided to the municipality in which the discharge is located, including a copy of this NOI, if requested.

Check one: Yes ☐ No ☐

Notification provided to the owner of a private or municipal storm sewer system, if such system is used for site discharges, including a copy of this NOI, if requested.

Check one: Yes ☐ No ☐ NA ☐

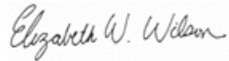
Permission obtained from the owner of a private or municipal storm sewer system, if such system is used for site discharges. If yes, attach additional conditions. If no, attach explanation and timeframe for obtaining permission.

Check one: Yes ☐ No ☐ NA ☐

Notification provided to the owner/operator of the area associated with activities covered by an additional discharge permit(s). Additional discharge permit is (check one): ☐ RGP ☐ DGP ☐ CGP ☐ MSGP ☐ Individual NPDES permit
☐ Other; if so, specify:

Check one: Yes ☐ No ☐ NA ☐

Signature:

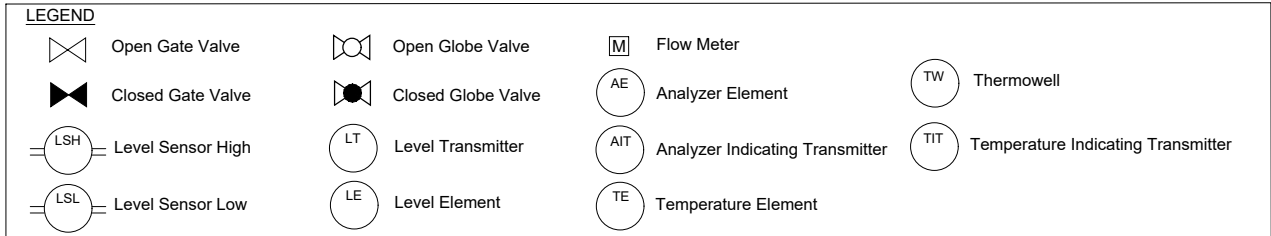


Date:

Print Name and Title:



SOUTH MEADOW POND,
CLINTON, MASSACHUSETTS



	
DESIGNED:	M. OSTROWSKI
DRAWN:	R. NEAR
CHECKED:	E. WILSON
CHECKED:	
APPROVED:	D. PODSEN
FILENAME FIGURE3.DWG	
BC PROJECT NUMBER 153260	
CLIENT PROJECT NUMBER	

SHEET NUMBER
OF

Table 1-1
Summary of 2014 Bulk Sediment and Elutriate Analytical Results
South Meadow Pond
Clinton, MA

Parameter	Bulk Sediment	Elutriate (Raw)	
	SAMPLE-1	SAMPLE-1 (2-gallon sub-sample)	SAMPLE-1 (8-gallon sub-sample)
	mg/kg	mg/L (except where noted)	
TSS	-	-	23,120
DO	-	-	0.4
pH (s.u.)	-	-	6.6
Temperature (Deg C)	-	-	19.6
Color (p.c.u.)	-	-	2
NH3-N	-	-	5.75
Volatile Organics			
Chloroethane	0.067U	0.0022	-
Metals			
Arsenic	8,200	5.6	21
Dissolved Arsenic	-	0.16	11
Barium	80	0.36	0.80
Dissolved Barium	-	0.038	0.056
Cadmium	9.7U	0.027	0.062J
Dissolved Cadmium	-	0.00089	0.0052J
Chromium	19U	0.01U	0.20U
Dissolved Chromium	-	0.01U	0.050U
Copper	39U	0.033	0.40U
Dissolved Copper	-	0.02U	0.10U
Iron	500,000	970 ^b	3500
Dissolved Iron	-	63.5 ^b	340
Lead	9.7U	0.068	-
Dissolved Lead	-	0.0025	-
Manganese	2,900	11	90
Dissolved Manganese	-	0.15	0.73
Mercury	0.02U	0.00020U	-
Dissoved Mercury	-	0.00020U	-
Selenium	39U	0.030	-
Dissolved Selenium	-	0.011	-
Silver	19U	0.0031	-
Dissolved Silver	-	.050U	-
Zinc	97U	0.24	-
Dissolved Zinc	-	0.0049	-

Notes:

^a - the sample for mercury was submitted 9/24/14

^b - analyzed by Brown and Caldwell via HACH

J - Estimated value below the lowest calibration point.

U - non-detect at reporting limit shown

Dashes indicate not applicable or not analyzed

VOCs and SVOCs were analyzed for in both bulk sediment and elutriate from the 2-gallon sub-sample). No compounds were detected except as noted.

See Appendices C-1 and C-2 for the list of compounds and full analytical laboratory reports for sediment and elutriate, respectively.

Table 1-2
Summary of 2014 Surface Water Sampling Analytical Results
South Meadow Pond
Clinton, MA

SAMPLE ID	POND SITE 1	POND SITE 2	POND SITE 3
SAMPLE LOCATION/SAMPLE DEPTH	Middle of South Meadow Pond/6.5 feet (Receiving water)	Middle of cove on South side of South Meadow Pond/0.5 feet (Source Water)	Western end of small pond forming western end of Coachlace Pond/0-1 inches
SAMPLING DATE	9/19/14	9/19/14	9/19/14
LAB SAMPLE ID	L1421979-1	L1421979-2	L1421979-3
Field Parameters			
pH (SU)	7.72	6.88	6.39
Temperature (°C)	16.55	19.84	17.06
DO (mg/L)	12.79	8.46	6.01
ORP	91.6	7.7	-23.3
Conductivity	0.216	0.319	0.508
Turbidity	8	8.2	38.1
General Chemistry			
Color, True	36	18	12
Alkalinity, Total	39.2	90	58
Total Suspended Solids	7.2	17	140
Nitrogen, Ammonia	<0.075	1.13	3.78
Total Metals (mg/l)			
Arsenic	0.029	0.148	0.877
Barium	0.011	0.048	0.035
Cadmium	<0.004	<0.004	<0.004
Chromium	<0.01	<0.010	<0.01
Copper	<0.010	<0.010	<0.010
Iron	1.8	21	61
Lead	<0.010	<0.010	<0.010
Manganese	1.17	7.56	3.56
Mercury	<0.0002	<0.0002	<0.0002
Selenium	<0.010	<0.010	<0.010
Silver	<0.007	<0.007	<0.007
Zinc	<0.050	<0.050	<0.050
Dissolved Metals (mg/l)			
Hardness	40	74	45
Arsenic	0.019	0.017	0.022
Barium	<0.010	0.027	0.025
Cadmium	<0.004	<0.004	<0.004
Chromium	<0.01	<0.010	<0.01
Copper	<0.010	<0.010	<0.010
Iron	0.71	0.42	5.2
Lead	<0.010	<0.010	<0.010
Manganese	1.04	5.19	3.53
Mercury	<0.0002	<0.0002	<0.0002
Selenium	<0.010	<0.010	<0.010
Silver	<0.007	<0.007	<0.007
Zinc	<0.050	<0.050	<0.050
Volatile Organic Compounds Detected by Method 8260C (ug/l)			
All VOCs	ND	ND	ND

Notes:

ND = Not Detected

< = Not detected, given value is laboratory reported detection limit.

TABLE 1-3
SUMMARY OF OCTOBER 2020 GROUNDWATER SAMPLING RESULTS
FIELD PARAMETERS AND INORGANICS
SOUTH MEADOW ROAD LANDFILL
CLINTON, MA

Location ID		Drinking Water Standards		MW-3A	MW-4A
		Value	Type	10/14/2020	
Sampling Date	Units			10/14/2020	
Field Indicator Parameters					
pH	SU	6.5 - 8.5	SMCL	5.26	6.28
Oxidation Reduction Potential	mV	--		-82.4	133.4
Temperature	°C	--		13.3	9.8
Turbidity	NTU	--		no data	414
Specific conductance	uS/cm	--		216	2900
Dissolved Oxygen	mg/L	--		1.08	2.84
Depth to Water	ft	--		5.73	5.08
Indicator Parameters					
Alkalinity (as CaCO3)	mg/L	--		28.7	80.9
Nitrate (as N)	mg/L	10	SMCL	< 0.100	< 0.100
Total dissolved solids (TDS)	mg/L	500	SMCL	140	220
Chloride	mg/L	250	SMCL	50	87
Calcium	mg/L	--		16.8	24.6
Sodium	mg/L	20	ORSG	24.8	34.2
Iron	mg/L	0.3	SMCL	< 0.050	< 0.050
Manganese	mg/L	0.05	SMCL	0.183	14.3
Sulfate	mg/L	250	SMCL	22	< 10
Chemical oxygen demand (COD)	mg/L	--		< 20	58
Inorganics (Dissolved)					
Arsenic	mg/L	0.01	MMCL	< 0.005	< 0.005
Barium	mg/L	2	MMCL	0.024	0.012
Cadmium	mg/L	0.005	MMCL	< 0.005	< 0.005
Chromium	mg/L	0.1	MMCL	< 0.010	< 0.010
Copper	mg/L	1.3	MMCL	< 0.010	< 0.010
Cyanide, total	mg/L	0.2	MMCL	< 0.005	0.008
Lead	mg/L	0.015	MMCL	< 0.010	< 0.010
Mercury	mg/L	0.002	MMCL	< 0.00020	< 0.00020
Silver	mg/L	0.1	SMCL	< 0.007	< 0.007
Selenium	mg/L	0.05	MMCL	< 0.010	< 0.010
Zinc	mg/L	5	SMCL	< 0.050	< 0.050
Top of Casing Reference Elevation				336.03	336.35
Groundwater Elevation				330.30	331.27

Notes:

< = Not detected, given value is the laboratory reported detection limit (RDL).

-- = Not applicable or not analyzed.

NM = Not Measured

MMCL = Massachusetts Maximum Contaminant Levels

SMCL = Secondary Maximum Contaminant Levels

ORSG = Office of Research and Standards Guidelines

Bold and highlighted text indicates exceedance of MMCL.

Bold text indicates exceedance of SMCL or ORSG.

Monitoring wells MW-3A and MW-4A were installed in July 2019

All elevations NGVD 1929

Table 2-1
Monitoring Parameters and Effluent Limits

Parameter	TBEL	WQBEL
Ammonia	Report mg/L	---
Chloride	Report µg/L	---
Total Residual Chlorine	0.2 mg/L	---
Total Suspended Solids	30 mg/L	---
Antimony	206 µg/L	---
Arsenic	---	29 µg/L
Cadmium	---	4 µg/L
Chromium III	323 µg/L	---
Chromium IV	323 µg/L	---
Copper	---	29 µg/L
Iron	---	1800 µg/L
Lead	---	10 µg/L
Mercury	---	0.2 µg/L
Nickel	1450 µg/L	---
Selenium	---	10 µg/L
Silver	---	7 µg/L
Zinc	---	50 mg/L
Cyanide	178 mg/L	---
Carbon Tetrachloride	---	1 µg/L
1,2 Dichlorobenzene	600 µg/L	---
1,3 Dichlorobenzene	320 µg/L	---
1,4 Dichlorobenzene	5 µg/L	---
1,1 Dichloroethane	70 µg/L	---
1,2 Dichloroethane	5 µg/L	---
1,1 Dichloroethylene	3.2 µg/L	---
1,1,1 Trichloroethane	200 µg/L	---
1,1,2 Trichloroethane	5 µg/L	---
Trichloroethylene	5 µg/L	---
cis-1,2 Dichloroethylene	70 µg/L	---
Vinyl Chloride	2 µg/L	---
Naphthalene	20 µg/L	---
Methyl-tert-Butyl Ether	70 µg/L	---
Tert-Amyl Methyl Ether	90 µg/L	---

Appendix B

Laboratory Data Reports

Groundwater Laboratory Results



ANALYTICAL REPORT

Lab Number:	L2044112
Client:	Brown & Caldwell 101 Industrial Park Road Suite 205 Taunton, MA 02780
ATTN:	Don Podsen
Phone:	(508) 963-2041
Project Name:	CLINTON LANDFILL
Project Number:	153260.103
Report Date:	10/22/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2044112-01	MW-1_20201014	WATER	CLINTON, MA	10/14/20 12:30	10/14/20
L2044112-02	LW-1A_20201014	WATER	CLINTON, MA	10/14/20 10:10	10/14/20
L2044112-03	MW-3A_20201014	WATER	CLINTON, MA	10/14/20 14:15	10/14/20
L2044112-04	MW-4A_20201014	WATER	CLINTON, MA	10/14/20 15:00	10/14/20
L2044112-05	MW-4R_20201014	WATER	CLINTON, MA	10/14/20 10:20	10/14/20
L2044112-06	LW-5A_20201014	WATER	CLINTON, MA	10/14/20 11:50	10/14/20
L2044112-07	DUP_2021014	WATER	CLINTON, MA	10/14/20 00:00	10/14/20
L2044112-08	SW-1_20201014	WATER	CLINTON, MA	10/14/20 11:30	10/14/20
L2044112-09	SW-3_20201014	WATER	CLINTON, MA	10/14/20 14:10	10/14/20
L2044112-10	SW-7_20201014	WATER	CLINTON, MA	10/14/20 13:45	10/14/20
L2044112-11	TRIP BLANK_20201014	WATER	CLINTON, MA	10/14/20 00:00	10/14/20

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

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: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Case Narrative (continued)

Total Metals

The WG1422486-4 Laboratory Duplicate RPD for sodium (28%), performed on L2044112-08, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Dissolved Metals

The WG1422481-3 MS recovery for iron (215%), performed on L2044112-02, does not apply because the sample concentrations is greater than four times the spike amounts added.

Nitrogen, Nitrate

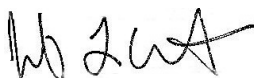
The WG1422253-4 MS recovery, performed on L2044112-03, is outside the acceptance criteria for nitrogen, nitrate (114%); however, the associated LCS recovery is within criteria. No further action was taken.

Chemical Oxygen Demand

WG1423764: A Laboratory Duplicate was not performed due to a laboratory oversight.

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:



Jennifer L Clements

Title: Technical Director/Representative

Date: 10/22/20

ORGANICS

VOLATILES

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-01
Client ID: MW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 12:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 15:38
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS****Lab ID:** L2044112-01**Date Collected:** 10/14/20 12:30**Client ID:** MW-1_20201014**Date Received:** 10/14/20**Sample Location:** CLINTON, MA**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-01
Client ID: MW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 12:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	95		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-02
Client ID: LW-1A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 16:04
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	1.2		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	0.83		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	1.8		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	30		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-02
Client ID: LW-1A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-02
Client ID: LW-1A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
-------------------------------------	----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	95		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-03
Client ID: MW-3A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:15
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 16:29
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	0.98		ug/l	0.75	--	1
Chloroform	2.9		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-03
Client ID: MW-3A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:15
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-03
Client ID: MW-3A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:15
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
-------------------------------------	----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	94		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-04
Client ID: MW-4A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 15:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 16:55
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	0.52		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-04
Client ID: MW-4A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 15:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	0.81		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	0.81		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-04
Client ID: MW-4A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 15:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	94		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-05
Client ID: MW-4R_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:20
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 17:20
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-05
Client ID: MW-4R_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:20
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-05
Client ID: MW-4R_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:20
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	96		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-06
Client ID: LW-5A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:50
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 17:46
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	17		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	0.50		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	3.5		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-06
Client ID: LW-5A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:50
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-06
Client ID: LW-5A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:50
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
-------------------------------------	----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	97		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-07
Client ID: DUP_2021014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 00:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 18:12
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS****Lab ID:** L2044112-07**Date Collected:** 10/14/20 00:00**Client ID:** DUP_2021014**Date Received:** 10/14/20**Sample Location:** CLINTON, MA**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-07
Client ID: DUP_2021014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 00:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	96		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-08
Client ID: SW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 18:37
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-08
Client ID: SW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-08
Client ID: SW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
-------------------------------------	----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	95		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-09
Client ID: SW-3_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 13:31
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-09
Client ID: SW-3_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-09
Client ID: SW-3_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
-------------------------------------	----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-10
Client ID: SW-7_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 13:45
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 13:53
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	1.2		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	1.2		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	0.57		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	5.7		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-10
Client ID: SW-7_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 13:45
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	1.7		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	1.7		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-10
Client ID: SW-7_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 13:45
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

Total TIC Compounds	1.45	J	ug/l	1
Difluorochloromethane	1.45	NJ	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-11
 Client ID: TRIP BLANK_20201014
 Sample Location: CLINTON, MA

Date Collected: 10/14/20 00:00
 Date Received: 10/14/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 10/15/20 14:15

Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-11
 Client ID: TRIP BLANK_20201014
 Sample Location: CLINTON, MA

Date Collected: 10/14/20 00:00
 Date Received: 10/14/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-11
 Client ID: TRIP BLANK_20201014
 Sample Location: CLINTON, MA

Date Collected: 10/14/20 00:00
 Date Received: 10/14/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

Total TIC Compounds	1.10	J	ug/l	1
Unknown	1.10	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	103		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/15/20 09:55
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-11 Batch: WG1422670-5					
Methylene chloride	ND		ug/l	3.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Chloroform	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	1.8	--
Dibromochloromethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
2-Chloroethylvinyl ether	ND		ug/l	10	--
Tetrachloroethene	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	2.5	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.5	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.5	--
Bromomethane	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/15/20 09:55
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-11 Batch: WG1422670-5					
1,2-Dichloroethene, Total	ND		ug/l	0.50	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	2.5	--
1,3-Dichlorobenzene	ND		ug/l	2.5	--
1,4-Dichlorobenzene	ND		ug/l	2.5	--
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	5.0	--
1,4-Dichlorobutane	ND		ug/l	5.0	--
Iodomethane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	5.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	5.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Ethyl methacrylate	ND		ug/l	5.0	--
Acrolein	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.5	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.5	--
1,2-Dibromoethane	ND		ug/l	2.0	--

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/15/20 09:55
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-11 Batch: WG1422670-5					
1,3-Dichloropropane	ND		ug/l	2.5	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	2.5	--
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--
Hexachlorobutadiene	ND		ug/l	0.50	--
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	2.5	--
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--
1,3,5-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Halothane	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	2.5	--
Methyl Acetate	ND		ug/l	10	--
Ethyl Acetate	ND		ug/l	10	--
Isopropyl Ether	ND		ug/l	2.0	--
Cyclohexane	ND		ug/l	10	--
Tert-Butyl Alcohol	ND		ug/l	10	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/15/20 09:55
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-11 Batch: WG1422670-5					
1,4-Dioxane	ND		ug/l	250	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	10	--
Methyl cyclohexane	ND		ug/l	10	--
p-Diethylbenzene	ND		ug/l	2.0	--
4-Ethyltoluene	ND		ug/l	2.0	--
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	--

Tentatively Identified Compounds

Total TIC Compounds	1.09	J	ug/l
Unknown	1.09	J	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/15/20 10:08
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1422693-5					
Methylene chloride	ND		ug/l	3.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Chloroform	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	1.8	--
Dibromochloromethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
2-Chloroethylvinyl ether	ND		ug/l	10	--
Tetrachloroethene	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	2.5	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.5	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.5	--
Bromomethane	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/15/20 10:08
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1422693-5					
1,2-Dichloroethene, Total	ND		ug/l	0.50	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	2.5	--
1,3-Dichlorobenzene	ND		ug/l	2.5	--
1,4-Dichlorobenzene	ND		ug/l	2.5	--
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	5.0	--
1,4-Dichlorobutane	ND		ug/l	5.0	--
Iodomethane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	5.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	5.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Ethyl methacrylate	ND		ug/l	5.0	--
Acrolein	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.5	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.5	--
1,2-Dibromoethane	ND		ug/l	2.0	--

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/15/20 10:08
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1422693-5					
1,3-Dichloropropane	ND		ug/l	2.5	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	2.5	--
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--
Hexachlorobutadiene	ND		ug/l	0.50	--
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	2.5	--
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--
1,3,5-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Halothane	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	2.5	--
Methyl Acetate	ND		ug/l	10	--
Ethyl Acetate	ND		ug/l	10	--
Isopropyl Ether	ND		ug/l	2.0	--
Cyclohexane	ND		ug/l	10	--
Tert-Butyl Alcohol	ND		ug/l	10	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/15/20 10:08
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1422693-5					
1,4-Dioxane	ND		ug/l	250	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	10	--
Methyl cyclohexane	ND		ug/l	10	--
p-Diethylbenzene	ND		ug/l	2.0	--
4-Ethyltoluene	ND		ug/l	2.0	--
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	--

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-11 Batch: WG1422670-3 WG1422670-4								
Methylene chloride	94		93		70-130	1		20
1,1-Dichloroethane	96		94		70-130	2		20
Chloroform	99		100		70-130	1		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	98		98		70-130	0		20
Dibromochloromethane	95		94		63-130	1		20
1,1,2-Trichloroethane	95		96		70-130	1		20
2-Chloroethylvinyl ether	92		90		70-130	2		20
Tetrachloroethene	68	Q	66	Q	70-130	3		20
Chlorobenzene	100		100		75-130	0		25
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	97		99		70-130	2		20
1,1,1-Trichloroethane	100		99		67-130	1		20
Bromodichloromethane	99		97		67-130	2		20
trans-1,3-Dichloropropene	94		92		70-130	2		20
cis-1,3-Dichloropropene	96		94		70-130	2		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	89		89		54-136	0		20
1,1,2,2-Tetrachloroethane	91		92		67-130	1		20
Benzene	100		100		70-130	0		25
Toluene	100		99		70-130	1		25
Ethylbenzene	100		100		70-130	0		20
Chloromethane	98		91		64-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-11 Batch: WG1422670-3 WG1422670-4								
Bromomethane	120		120		39-139	0		20
Vinyl chloride	100		97		55-140	3		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	92		91		61-145	1		25
trans-1,2-Dichloroethene	98		94		70-130	4		20
Trichloroethene	99		98		70-130	1		25
1,2-Dichlorobenzene	110		100		70-130	10		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	90		87		63-130	3		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	96		99		70-130	3		20
Dibromomethane	92		95		70-130	3		20
1,4-Dichlorobutane	91		90		70-130	1		20
Iodomethane	57	Q	58	Q	70-130	2		20
1,2,3-Trichloropropane	90		89		64-130	1		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	95		95		36-147	0		20
Acetone	88		88		58-148	0		20
Carbon disulfide	96		94		51-130	2		20
2-Butanone	65		75		63-138	14		20
Vinyl acetate	110		100		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-11 Batch: WG1422670-3 WG1422670-4								
4-Methyl-2-pentanone	78		76		59-130	3		20
2-Hexanone	77		77		57-130	0		20
Ethyl methacrylate	81		83		70-130	2		20
Acrolein	70		75		70-130	7		20
Acrylonitrile	75		73		70-130	3		20
Bromochloromethane	94		99		70-130	5		20
Tetrahydrofuran	90		90		58-130	0		20
2,2-Dichloropropane	100		97		63-133	3		20
1,2-Dibromoethane	94		94		70-130	0		20
1,3-Dichloropropane	94		95		70-130	1		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	110		100		70-130	10		20
n-Butylbenzene	110		100		53-136	10		20
sec-Butylbenzene	110		100		70-130	10		20
tert-Butylbenzene	100		96		70-130	4		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	110		100		70-130	10		20
1,2-Dibromo-3-chloropropane	81		81		41-144	0		20
Hexachlorobutadiene	98		99		63-130	1		20
Isopropylbenzene	110		100		70-130	10		20
p-Isopropyltoluene	110		100		70-130	10		20
Naphthalene	89		89		70-130	0		20
n-Propylbenzene	110		100		69-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-11 Batch: WG1422670-3 WG1422670-4								
1,2,3-Trichlorobenzene	99		96		70-130	3		20
1,2,4-Trichlorobenzene	100		98		70-130	2		20
1,3,5-Trimethylbenzene	110		100		64-130	10		20
1,3,5-Trichlorobenzene	110		100		70-130	10		20
1,2,4-Trimethylbenzene	110		100		70-130	10		20
trans-1,4-Dichloro-2-butene	85		85		70-130	0		20
Halothane	96		95		70-130	1		20
Ethyl ether	90		90		59-134	0		20
Methyl Acetate	78		81		70-130	4		20
Ethyl Acetate	83		84		70-130	1		20
Isopropyl Ether	95		98		70-130	3		20
Cyclohexane	91		90		70-130	1		20
Tert-Butyl Alcohol	68	Q	70		70-130	3		20
Ethyl-Tert-Butyl-Ether	93		89		70-130	4		20
Tertiary-Amyl Methyl Ether	91		92		66-130	1		20
1,4-Dioxane	90		90		56-162	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	96		99		70-130	3		20
Methyl cyclohexane	96		95		70-130	1		20
p-Diethylbenzene	110		100		70-130	10		20
4-Ethyltoluene	110		100		70-130	10		20
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CLINTON LANDFILL

Lab Number: L2044112

Project Number: 153260.103

Report Date: 10/22/20

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

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-11 Batch: WG1422670-3 WG1422670-4

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		97		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	102		99		70-130
Dibromofluoromethane	100		101		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1422693-3 WG1422693-4								
Methylene chloride	99		100		70-130	1		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	100		110		63-132	10		20
1,2-Dichloropropane	100		110		70-130	10		20
Dibromochloromethane	90		95		63-130	5		20
1,1,2-Trichloroethane	87		92		70-130	6		20
2-Chloroethylvinyl ether	72		68	Q	70-130	6		20
Tetrachloroethene	100		110		70-130	10		20
Chlorobenzene	100		110		75-130	10		25
Trichlorofluoromethane	100		110		62-150	10		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	100		110		67-130	10		20
Bromodichloromethane	99		100		67-130	1		20
trans-1,3-Dichloropropene	97		99		70-130	2		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	100		110		70-130	10		20
Bromoform	86		92		54-136	7		20
1,1,2,2-Tetrachloroethane	82		85		67-130	4		20
Benzene	100		110		70-130	10		25
Toluene	100		110		70-130	10		25
Ethylbenzene	100		110		70-130	10		20
Chloromethane	97		110		64-130	13		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1422693-3 WG1422693-4								
Bromomethane	50		64		39-139	25	Q	20
Vinyl chloride	97		100		55-140	3		20
Chloroethane	110		120		55-138	9		20
1,1-Dichloroethene	96		100		61-145	4		25
trans-1,2-Dichloroethene	100		110		70-130	10		20
Trichloroethene	100		110		70-130	10		25
1,2-Dichlorobenzene	99		110		70-130	11		20
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		110		70-130	10		20
Methyl tert butyl ether	94		96		63-130	2		20
p/m-Xylene	105		110		70-130	5		20
o-Xylene	100		110		70-130	10		20
cis-1,2-Dichloroethene	100		110		70-130	10		20
Dibromomethane	94		94		70-130	0		20
1,4-Dichlorobutane	93		99		70-130	6		20
Iodomethane	48	Q	73		70-130	41	Q	20
1,2,3-Trichloropropane	94		91		64-130	3		20
Styrene	100		110		70-130	10		20
Dichlorodifluoromethane	90		98		36-147	9		20
Acetone	97		96		58-148	1		20
Carbon disulfide	96		100		51-130	4		20
2-Butanone	85		96		63-138	12		20
Vinyl acetate	93		94		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1422693-3 WG1422693-4								
4-Methyl-2-pentanone	76		75		59-130	1		20
2-Hexanone	82		81		57-130	1		20
Ethyl methacrylate	81		82		70-130	1		20
Acrolein	70		65	Q	70-130	7		20
Acrylonitrile	91		94		70-130	3		20
Bromochloromethane	110		110		70-130	0		20
Tetrahydrofuran	89		86		58-130	3		20
2,2-Dichloropropane	110		120		63-133	9		20
1,2-Dibromoethane	88		91		70-130	3		20
1,3-Dichloropropane	93		97		70-130	4		20
1,1,1,2-Tetrachloroethane	100		110		64-130	10		20
Bromobenzene	100		110		70-130	10		20
n-Butylbenzene	96		110		53-136	14		20
sec-Butylbenzene	96		110		70-130	14		20
tert-Butylbenzene	98		110		70-130	12		20
o-Chlorotoluene	98		110		70-130	12		20
p-Chlorotoluene	100		110		70-130	10		20
1,2-Dibromo-3-chloropropane	71		73		41-144	3		20
Hexachlorobutadiene	94		110		63-130	16		20
Isopropylbenzene	98		110		70-130	12		20
p-Isopropyltoluene	97		110		70-130	13		20
Naphthalene	79		84		70-130	6		20
n-Propylbenzene	99		110		69-130	11		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1422693-3 WG1422693-4								
1,2,3-Trichlorobenzene	88		98		70-130	11		20
1,2,4-Trichlorobenzene	98		100		70-130	2		20
1,3,5-Trimethylbenzene	100		110		64-130	10		20
1,3,5-Trichlorobenzene	100		110		70-130	10		20
1,2,4-Trimethylbenzene	100		110		70-130	10		20
trans-1,4-Dichloro-2-butene	68	Q	69	Q	70-130	1		20
Halothane	96		100		70-130	4		20
Ethyl ether	96		98		59-134	2		20
Methyl Acetate	90		87		70-130	3		20
Ethyl Acetate	96		95		70-130	1		20
Isopropyl Ether	110		110		70-130	0		20
Cyclohexane	100		110		70-130	10		20
Tert-Butyl Alcohol	88		90		70-130	2		20
Ethyl-Tert-Butyl-Ether	100		110		70-130	10		20
Tertiary-Amyl Methyl Ether	94		95		66-130	1		20
1,4-Dioxane	84		94		56-162	11		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		110		70-130	10		20
Methyl cyclohexane	93		100		70-130	7		20
p-Diethylbenzene	96		110		70-130	14		20
4-Ethyltoluene	100		110		70-130	10		20
1,2,4,5-Tetramethylbenzene	97		110		70-130	13		20

Lab Control Sample Analysis**Batch Quality Control****Project Name:** CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20

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

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1422693-3 WG1422693-4

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		91		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	94		95		70-130
Dibromofluoromethane	97		96		70-130

SEMIVOLATILES

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-01
Client ID: MW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 12:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/21/20 18:06
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	36			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-02
Client ID: LW-1A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/21/20 18:43
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	4340		ng/l	142	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	31			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-03
Client ID: MW-3A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:15
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 12:06
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	333.		ng/l	144	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	34			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-04
Client ID: MW-4A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 15:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 08:23
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	5130		ng/l	144	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	36			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-05
Client ID: MW-4R_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:20
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 08:53
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	34			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-06
Client ID: LW-5A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:50
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 09:22
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	139	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	32			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-07
Client ID: DUP_2021014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 00:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 09:54
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	139	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	31			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-08
Client ID: SW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 10:25
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	139	--	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			43		15-110	

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-09
Client ID: SW-3_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 10:58
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	358.		ng/l	139	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	47			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-10
Client ID: SW-7_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 13:45
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 11:32
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	7180		ng/l	139	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	47			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 10/21/20 08:20
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-10 Batch: WG1423781-1					
1,4-Dioxane	ND		ng/l	150	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	28		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Lab Number: L2044112

Project Number: 153260.103

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG1423781-2 WG1423781-3								
1,4-Dioxane	96		97		40-140	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	30		30		15-110

METALS

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS****Lab ID:** L2044112-01**Date Collected:** 10/14/20 12:30**Client ID:** MW-1_20201014**Date Received:** 10/14/20**Sample Location:** CLINTON, MA**Field Prep:** Not Specified**Sample Depth:****Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Barium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Calcium, Dissolved	21.1		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Iron, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Manganese, Dissolved	0.014		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:32	EPA 7470A	1,7470A	EW
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Sodium, Dissolved	5.55		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-02

Date Collected: 10/14/20 10:10

Client ID: LW-1A_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	0.215		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Barium, Dissolved	0.039		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Calcium, Dissolved	37.6		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Iron, Dissolved	58.4		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Manganese, Dissolved	2.75		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:39	EPA 7470A	1,7470A	EW
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Sodium, Dissolved	74.1		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-03

Date Collected: 10/14/20 14:15

Client ID: MW-3A_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Barium, Dissolved	0.024		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Calcium, Dissolved	16.8		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Iron, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Manganese, Dissolved	0.183		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:46	EPA 7470A	1,7470A	EW
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Sodium, Dissolved	24.8		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-04

Date Collected: 10/14/20 15:00

Client ID: MW-4A_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Barium, Dissolved	0.012		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Calcium, Dissolved	24.6		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Iron, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Manganese, Dissolved	14.3		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:49	EPA 7470A	1,7470A	EW
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Sodium, Dissolved	34.2		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-05

Date Collected: 10/14/20 10:20

Client ID: MW-4R_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	0.019		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Barium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Calcium, Dissolved	19.0		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Iron, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Manganese, Dissolved	0.196		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:51	EPA 7470A	1,7470A	EW
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Sodium, Dissolved	11.3		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-06

Date Collected: 10/14/20 11:50

Client ID: LW-5A_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Barium, Dissolved	0.115		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Calcium, Dissolved	19.8		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Iron, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Manganese, Dissolved	0.069		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:53	EPA 7470A	1,7470A	EW
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Sodium, Dissolved	165		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-07

Date Collected: 10/14/20 00:00

Client ID: DUP_2021014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	0.006		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Barium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Calcium, Dissolved	21.4		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Iron, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Manganese, Dissolved	0.014		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:55	EPA 7470A	1,7470A	EW
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Sodium, Dissolved	5.47		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-08

Date Collected: 10/14/20 11:30

Client ID: SW-1_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	ND		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Barium, Total	0.011		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Cadmium, Total	ND		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Calcium, Total	10.6		mg/l	0.100	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Chromium, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Copper, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Iron, Total	0.309		mg/l	0.050	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Lead, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Manganese, Total	0.047		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Mercury, Total	ND		mg/l	0.00020	--	1	10/16/20 10:30	10/16/20 16:25	EPA 7470A	1,7470A	EW
Selenium, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Silver, Total	ND		mg/l	0.007	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Sodium, Total	28.7		mg/l	2.00	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Zinc, Total	ND		mg/l	0.050	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-09

Date Collected: 10/14/20 14:10

Client ID: SW-3_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.026		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Barium, Total	0.033		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Cadmium, Total	ND		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Calcium, Total	23.0		mg/l	0.100	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Chromium, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Copper, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Iron, Total	4.87		mg/l	0.050	--	1	10/16/20 08:14	10/20/20 22:18	EPA 3005A	1,6010D	BV
Lead, Total	0.016		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Manganese, Total	1.84		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Mercury, Total	ND		mg/l	0.00020	--	1	10/16/20 10:30	10/16/20 16:11	EPA 7470A	1,7470A	EW
Selenium, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Silver, Total	ND		mg/l	0.007	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Sodium, Total	33.4		mg/l	2.00	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Zinc, Total	ND		mg/l	0.050	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV



Project Name: CLINTON LANDFILL

Lab Number: L2044112

Project Number: 153260.103

Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-10

Date Collected: 10/14/20 13:45

Client ID: SW-7_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.440		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Barium, Total	0.022		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Cadmium, Total	ND		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Calcium, Total	28.3		mg/l	0.100	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Chromium, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Copper, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Iron, Total	53.9		mg/l	0.050	--	1	10/16/20 08:14	10/20/20 22:23	EPA 3005A	1,6010D	BV
Lead, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Manganese, Total	7.86		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Mercury, Total	ND		mg/l	0.00020	--	1	10/16/20 10:30	10/16/20 16:29	EPA 7470A	1,7470A	EW
Selenium, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Silver, Total	ND		mg/l	0.007	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Sodium, Total	34.3		mg/l	2.00	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Zinc, Total	ND		mg/l	0.050	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV



Project Name: CLINTON LANDFILL

Lab Number: L2044112

Project Number: 153260.103

Report Date: 10/22/20

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-07 Batch: WG1422481-1										
Arsenic, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Barium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Calcium, Dissolved	ND		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Iron, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Manganese, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Sodium, Dissolved	ND		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-07 Batch: WG1422482-1										
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:28	1,7470A	EW

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08-10 Batch: WG1422486-1										
Arsenic, Total	ND		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Barium, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Cadmium, Total	ND		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis Batch Quality Control

Calcium, Total	ND	mg/l	0.100	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Chromium, Total	ND	mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Copper, Total	ND	mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Iron, Total	ND	mg/l	0.050	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Lead, Total	ND	mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Manganese, Total	ND	mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Selenium, Total	ND	mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Silver, Total	ND	mg/l	0.007	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Sodium, Total	ND	mg/l	2.00	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Zinc, Total	ND	mg/l	0.050	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08-10 Batch: WG1422487-1										
Mercury, Total	ND		mg/l	0.00020	--	1	10/16/20 10:30	10/16/20 16:02	1,7470A	EW

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1422481-2								
Arsenic, Dissolved	108		-		80-120	-		
Barium, Dissolved	102		-		80-120	-		
Cadmium, Dissolved	110		-		80-120	-		
Calcium, Dissolved	104		-		80-120	-		
Chromium, Dissolved	103		-		80-120	-		
Copper, Dissolved	104		-		80-120	-		
Iron, Dissolved	99		-		80-120	-		
Lead, Dissolved	108		-		80-120	-		
Manganese, Dissolved	101		-		80-120	-		
Selenium, Dissolved	108		-		80-120	-		
Silver, Dissolved	105		-		80-120	-		
Sodium, Dissolved	107		-		80-120	-		
Zinc, Dissolved	110		-		80-120	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1422482-2								
Mercury, Dissolved	91		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-10 Batch: WG1422486-2					
Arsenic, Total	116	-	80-120	-	
Barium, Total	102	-	80-120	-	
Cadmium, Total	113	-	80-120	-	
Calcium, Total	103	-	80-120	-	
Chromium, Total	102	-	80-120	-	
Copper, Total	104	-	80-120	-	
Iron, Total	101	-	80-120	-	
Lead, Total	113	-	80-120	-	
Manganese, Total	99	-	80-120	-	
Selenium, Total	112	-	80-120	-	
Silver, Total	105	-	80-120	-	
Sodium, Total	106	-	80-120	-	
Zinc, Total	109	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 08-10 Batch: WG1422487-2					
Mercury, Total	104	-	80-120	-	

Matrix Spike Analysis **Batch Quality Control**

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1422481-3 QC Sample: L2044112-02 Client ID: LW-1A_20201014												
Arsenic, Dissolved	0.215	0.24	0.492	115		-	-		75-125	-		20
Barium, Dissolved	0.039	4	4.23	105		-	-		75-125	-		20
Cadmium, Dissolved	ND	0.102	0.114	112		-	-		75-125	-		20
Calcium, Dissolved	37.6	20	60.0	112		-	-		75-125	-		20
Chromium, Dissolved	ND	0.4	0.423	106		-	-		75-125	-		20
Copper, Dissolved	ND	0.5	0.523	105		-	-		75-125	-		20
Iron, Dissolved	58.4	2	62.7	215	Q	-	-		75-125	-		20
Lead, Dissolved	ND	1.02	1.10	108		-	-		75-125	-		20
Manganese, Dissolved	2.75	1	3.86	111		-	-		75-125	-		20
Selenium, Dissolved	ND	0.24	0.262	109		-	-		75-125	-		20
Silver, Dissolved	ND	0.1	0.108	108		-	-		75-125	-		20
Sodium, Dissolved	74.1	20	98.7	123		-	-		75-125	-		20
Zinc, Dissolved	ND	1	1.13	113		-	-		75-125	-		20

Dissolved Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1422482-3 QC Sample: L2044112-01 Client ID: MW-1_20201014

Mercury, Dissolved	ND	0.005	0.00460	92		-	-		75-125	-		20
--------------------	----	-------	---------	----	--	---	---	--	--------	---	--	----

Matrix Spike Analysis **Batch Quality Control**

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

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): 08-10 QC Batch ID: WG1422486-3 QC Sample: L2044112-08 Client ID: SW-1_20201014									
Arsenic, Total	ND	0.12	0.137	114	-	-	75-125	-	20
Barium, Total	0.011	2	2.02	100	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.056	109	-	-	75-125	-	20
Calcium, Total	10.6	10	20.0	94	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.204	102	-	-	75-125	-	20
Copper, Total	ND	0.25	0.264	106	-	-	75-125	-	20
Iron, Total	0.309	1	1.30	99	-	-	75-125	-	20
Lead, Total	ND	0.51	0.551	108	-	-	75-125	-	20
Manganese, Total	0.047	0.5	0.538	98	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.132	110	-	-	75-125	-	20
Silver, Total	ND	0.05	0.052	104	-	-	75-125	-	20
Sodium, Total	28.7	10	37.1	84	-	-	75-125	-	20
Zinc, Total	ND	0.5	0.544	109	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 08-10 QC Batch ID: WG1422487-3 QC Sample: L2044112-09 Client ID: SW-3_20201014									
Mercury, Total	ND	0.005	0.00501	100	-	-	75-125	-	20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1422481-4 QC Sample: L2044112-02 Client ID: LW-1A_20201014						
Arsenic, Dissolved	0.215	0.223	mg/l	4		20
Barium, Dissolved	0.039	0.040	mg/l	3		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Calcium, Dissolved	37.6	38.7	mg/l	3		20
Chromium, Dissolved	ND	ND	mg/l	NC		20
Copper, Dissolved	ND	ND	mg/l	NC		20
Iron, Dissolved	58.4	60.8	mg/l	4		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Manganese, Dissolved	2.75	2.84	mg/l	3		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Sodium, Dissolved	74.1	75.7	mg/l	2		20
Zinc, Dissolved	ND	ND	mg/l	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1422482-4 QC Sample: L2044112-01 Client ID: MW-1_20201014						
Mercury, Dissolved	ND	ND	mg/l	NC		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-10 QC Batch ID: WG1422486-4 QC Sample: L2044112-08 Client ID: SW-1_20201014					
Arsenic, Total	ND	ND	mg/l	NC	20
Barium, Total	0.011	0.011	mg/l	1	20
Cadmium, Total	ND	ND	mg/l	NC	20
Calcium, Total	10.6	10.8	mg/l	2	20
Chromium, Total	ND	ND	mg/l	NC	20
Copper, Total	ND	ND	mg/l	NC	20
Iron, Total	0.309	0.325	mg/l	5	20
Lead, Total	ND	ND	mg/l	NC	20
Manganese, Total	0.047	0.047	mg/l	0	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	28.7	38.1	mg/l	28	Q 20
Zinc, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 08-10 QC Batch ID: WG1422487-4 QC Sample: L2044112-09 Client ID: SW-3_20201014					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS & MISCELLANEOUS

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-01
Client ID: MW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 12:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	45.1		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	68.		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:59	1,9010C/9012B	AG
Chloride	19.		mg/l	1.0	--	1	-	10/15/20 08:25	1,9251	MR
Nitrogen, Nitrate	0.768		mg/l	0.100	--	1	-	10/15/20 08:55	121,4500NO3-F	MR
Sulfate	ND		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	ND		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:30	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-02
Client ID: LW-1A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	266.		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	420		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 16:00	1,9010C/9012B	AG
Chloride	120		mg/l	10	--	10	-	10/15/20 08:27	1,9251	MR
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	10/15/20 08:56	121,4500NO3-F	MR
Sulfate	18.		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	94.		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:30	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-03
Client ID: MW-3A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:15
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	28.7		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	140		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:45	1,9010C/9012B	AG
Chloride	50.		mg/l	1.0	--	1	-	10/15/20 08:29	1,9251	MR
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	10/15/20 09:01	121,4500NO3-F	MR
Sulfate	22.		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	ND		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:30	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-04
Client ID: MW-4A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 15:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	80.9		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	220		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	0.008		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:46	1,9010C/9012B	AG
Chloride	87.		mg/l	1.0	--	1	-	10/15/20 08:32	1,9251	MR
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	10/15/20 10:33	121,4500NO3-F	MR
Sulfate	ND		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	58.		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:30	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-05
Client ID: MW-4R_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:20
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	61.7		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	67.		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:47	1,9010C/9012B	AG
Chloride	12.		mg/l	1.0	--	1	-	10/15/20 08:32	1,9251	MR
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	10/15/20 09:06	121,4500NO3-F	MR
Sulfate	11.		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	ND		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:31	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-06
Client ID: LW-5A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:50
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	13.4		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	430		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:48	1,9010C/9012B	AG
Chloride	260		mg/l	10	--	10	-	10/15/20 08:57	1,9251	MR
Nitrogen, Nitrate	2.23		mg/l	0.100	--	1	-	10/15/20 09:08	121,4500NO3-F	MR
Sulfate	37.		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	35.		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:31	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-07
Client ID: DUP_2021014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 00:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	44.7		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	75.		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:49	1,9010C/9012B	AG
Chloride	18.		mg/l	1.0	--	1	-	10/15/20 08:58	1,9251	MR
Nitrogen, Nitrate	0.738		mg/l	0.100	--	1	-	10/15/20 09:09	121,4500NO3-F	MR
Sulfate	ND		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	35.		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:31	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-08
Client ID: SW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	16.5		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	140		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:50	1,9010C/9012B	AG
Chloride	54.		mg/l	1.0	--	1	-	10/15/20 08:35	1,9251	MR
Nitrogen, Nitrate	0.606		mg/l	0.100	--	1	-	10/15/20 09:10	121,4500NO3-F	MR
Sulfate	15.		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	37.		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:31	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-09
Client ID: SW-3_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	28.9		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	230		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:53	1,9010C/9012B	AG
Chloride	63.		mg/l	1.0	--	1	-	10/15/20 08:35	1,9251	MR
Nitrogen, Nitrate	8.49		mg/l	0.500	--	5	-	10/15/20 10:35	121,4500NO3-F	MR
Sulfate	33.		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	310		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:31	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-10
Client ID: SW-7_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 13:45
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	186.		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	220		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:54	1,9010C/9012B	AG
Chloride	68.		mg/l	1.0	--	1	-	10/15/20 08:59	1,9251	MR
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	10/15/20 10:37	121,4500NO3-F	MR
Sulfate	ND		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	33.		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:31	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

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): 01-10 Batch: WG1422253-1										
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	10/15/20 07:09	121,4500NO3-F	MR
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1422258-1										
Chloride	ND		mg/l	1.0	--	1	-	10/15/20 07:55	1,9251	MR
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1422293-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1422311-1										
Sulfate	ND		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1423764-1										
Chemical Oxygen Demand	ND		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:30	121,5220D	TL
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1423948-1										
Solids, Total Dissolved	ND		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1424110-1										
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:31	1,9010C/9012B	AG

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1422253-2								
Nitrogen, Nitrate	103		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1422258-2								
Chloride	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1422293-2								
Alkalinity, Total	102		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1422311-2								
Sulfate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1423764-2								
Chemical Oxygen Demand	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1423948-2								
Solids, Total Dissolved	85		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1424110-2 WG1424110-3								
Cyanide, Total	103		96		85-115	7		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

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): 01-10 QC Batch ID: WG1422253-4 QC Sample: L2044112-03 Client ID: MW-3A_20201014												
Nitrogen, Nitrate	ND	4	4.58	114	Q	-	-		83-113	-		17
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1422258-4 QC Sample: L2044112-03 Client ID: MW-3A_20201014												
Chloride	50	20	68	90		-	-		58-140	-		7
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1422293-4 QC Sample: L2044112-04 Client ID: MW-4A_20201014												
Alkalinity, Total	80.9	100	182	101		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1422311-4 QC Sample: L2044112-01 Client ID: MW-1_20201014												
Sulfate	ND	20	28	140		-	-		55-147	-		14
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1423764-3 QC Sample: L2044112-01 Client ID: MW-1_20201014												
Chemical Oxygen Demand	ND	238	250	105		-	-		84-120	-		12
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1424110-4 WG1424110-5 QC Sample: L2044112-01 Client ID: MW-1_20201014												
Cyanide, Total	ND	0.2	0.186	93		0.182	91		80-120	2		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1422253-3 QC Sample: L2044112-03 Client ID: MW-3A_20201014						
Nitrogen, Nitrate	ND	ND	mg/l	NC		17
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1422258-3 QC Sample: L2044112-03 Client ID: MW-3A_20201014						
Chloride	50	51	mg/l	2		7
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1422293-3 QC Sample: L2044112-03 Client ID: MW-3A_20201014						
Alkalinity, Total	28.7	28.4	mg CaCO3/L	1		10
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1422311-3 QC Sample: L2044112-01 Client ID: MW-1_20201014						
Sulfate	ND	ND	mg/l	NC		14
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1423948-3 QC Sample: L2044112-01 Client ID: MW-1_20201014						
Solids, Total Dissolved	68	65	mg/l	5		10

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Serial_No:10222014:34
Lab Number: L2044112
Report Date: 10/22/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2044112-01A	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-01B	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-01C	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-01D	Plastic 120ml H2SO4 preserved	C	<2	<2	4.8	Y	Absent		COD-5220(28)
L2044112-01E	Plastic 250ml unpreserved/No Headspace	C	NA		4.8	Y	Absent		ALK-T-2320(14)
L2044112-01F	Plastic 250ml unpreserved	C	7	7	4.8	Y	Absent		-
L2044112-01G	Plastic 250ml NaOH preserved	C	>12	>12	4.8	Y	Absent		TCN-9010(14)
L2044112-01H	Amber 500ml unpreserved	C	7	7	4.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-01I	Amber 500ml unpreserved	C	7	7	4.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-01J	Plastic 950ml unpreserved	C	7	7	4.8	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)
L2044112-01X	Plastic 120ml HNO3 preserved Filtrates	C	NA		4.8	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),NA-SI(180),AG-SI(180),AS-SI(180),CU-SI(180),MN-SI(180),CD-SI(180),CR-SI(180),SE-SI(180),ZN-SI(180),HG-S(28),CA-SI(180)
L2044112-02A	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-02B	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-02C	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-02D	Plastic 120ml H2SO4 preserved	B	<2	<2	5.7	Y	Absent		COD-5220(28)
L2044112-02E	Plastic 250ml unpreserved/No Headspace	B	NA		5.7	Y	Absent		ALK-T-2320(14)
L2044112-02F	Plastic 250ml unpreserved	B	7	7	5.7	Y	Absent		-
L2044112-02G	Plastic 250ml NaOH preserved	B	>12	>12	5.7	Y	Absent		TCN-9010(14)
L2044112-02H	Amber 500ml unpreserved	B	7	7	5.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Serial_No:10222014:34
Lab Number: L2044112
Report Date: 10/22/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2044112-02I	Amber 500ml unpreserved	B	7	7	5.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-02J	Plastic 950ml unpreserved	B	7	7	5.7	Y	Absent		SO4-9038(28),CL-9251(28),NO3-4500(2),TDS-2540(7)
L2044112-02X	Plastic 120ml HNO3 preserved Filtrates	B	NA		5.7	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),MN-SI(180),AS-SI(180),AG-SI(180),CU-SI(180),NA-SI(180),CD-SI(180),CR-SI(180),SE-SI(180),CA-SI(180),HG-S(28),ZN-SI(180)
L2044112-03A	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-03B	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-03C	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-03D	Plastic 120ml H2SO4 preserved	B	<2	<2	5.7	Y	Absent		COD-5220(28)
L2044112-03E	Plastic 250ml unpreserved/No Headspace	B	NA		5.7	Y	Absent		ALK-T-2320(14)
L2044112-03F	Plastic 250ml unpreserved	B	7	7	5.7	Y	Absent		-
L2044112-03G	Plastic 250ml NaOH preserved	B	>12	>12	5.7	Y	Absent		TCN-9010(14)
L2044112-03H	Amber 500ml unpreserved	B	7	7	5.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-03I	Amber 500ml unpreserved	B	7	7	5.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-03J	Plastic 950ml unpreserved	B	7	7	5.7	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)
L2044112-03X	Plastic 120ml HNO3 preserved Filtrates	B	NA		5.7	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),MN-SI(180),CU-SI(180),AG-SI(180),AS-SI(180),NA-SI(180),CD-SI(180),CR-SI(180),ZN-SI(180),SE-SI(180),CA-SI(180),HG-S(28)
L2044112-04A	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-04B	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-04C	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-04D	Plastic 120ml H2SO4 preserved	C	<2	<2	4.8	Y	Absent		COD-5220(28)
L2044112-04E	Plastic 250ml unpreserved/No Headspace	C	NA		4.8	Y	Absent		ALK-T-2320(14)
L2044112-04F	Plastic 250ml unpreserved	C	7	7	4.8	Y	Absent		-
L2044112-04G	Plastic 250ml NaOH preserved	C	>12	>12	4.8	Y	Absent		TCN-9010(14)
L2044112-04H	Amber 500ml unpreserved	C	7	7	4.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-04I	Amber 500ml unpreserved	C	7	7	4.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-04J	Plastic 950ml unpreserved	C	7	7	4.8	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Serial_No:10222014:34
Lab Number: L2044112
Report Date: 10/22/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2044112-04X	Plastic 120ml HNO3 preserved Filtrates	C	NA		4.8	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),MN-SI(180),NA-SI(180),AS-SI(180),AG-SI(180),CU-SI(180),CD-SI(180),CR-SI(180),ZN-SI(180),CA-SI(180),HG-S(28),SE-SI(180)
L2044112-05A	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-05B	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-05C	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-05D	Plastic 120ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		COD-5220(28)
L2044112-05E	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2044112-05F	Plastic 250ml unpreserved	A	7	7	3.4	Y	Absent		-
L2044112-05G	Plastic 250ml NaOH preserved	A	>12	>12	3.4	Y	Absent		TCN-9010(14)
L2044112-05H	Amber 500ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-05I	Amber 500ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-05J	Plastic 950ml unpreserved	A	7	7	3.4	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)
L2044112-05X	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.4	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),AS-SI(180),CU-SI(180),AG-SI(180),NA-SI(180),MN-SI(180),CD-SI(180),CR-SI(180),SE-SI(180),ZN-SI(180),CA-SI(180),HG-S(28)
L2044112-06A	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-06B	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-06C	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-06D	Plastic 120ml H2SO4 preserved	B	<2	<2	5.7	Y	Absent		COD-5220(28)
L2044112-06E	Plastic 250ml unpreserved/No Headspace	B	NA		5.7	Y	Absent		ALK-T-2320(14)
L2044112-06F	Plastic 250ml unpreserved	B	7	7	5.7	Y	Absent		-
L2044112-06G	Plastic 250ml NaOH preserved	B	>12	>12	5.7	Y	Absent		TCN-9010(14)
L2044112-06H	Amber 500ml unpreserved	B	7	7	5.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-06I	Amber 500ml unpreserved	B	7	7	5.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-06J	Plastic 950ml unpreserved	B	7	7	5.7	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Serial_No:10222014:34
Lab Number: L2044112
Report Date: 10/22/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2044112-06X	Plastic 120ml HNO3 preserved Filtrates	B	NA		5.7	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),NA-SI(180),AG-SI(180),AS-SI(180),MN-SI(180),CU-SI(180),CD-SI(180),CR-SI(180),HG-S(28),ZN-SI(180),CA-SI(180),SE-SI(180)
L2044112-07A	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-07B	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-07C	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-07D	Plastic 120ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		COD-5220(28)
L2044112-07E	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2044112-07F	Plastic 250ml unpreserved	A	7	7	3.4	Y	Absent		-
L2044112-07G	Plastic 250ml NaOH preserved	A	>12	>12	3.4	Y	Absent		TCN-9010(14)
L2044112-07H	Amber 500ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-07I	Amber 500ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-07J	Plastic 950ml unpreserved	A	7	7	3.4	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)
L2044112-07X	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.4	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),MN-SI(180),AS-SI(180),AG-SI(180),CU-SI(180),NA-SI(180),CD-SI(180),CR-SI(180),SE-SI(180),ZN-SI(180),HG-S(28),CA-SI(180)
L2044112-08A	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-08B	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-08C	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-08D	Plastic 120ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		COD-5220(28)
L2044112-08E	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2044112-08F	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-08G	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-08H	Plastic 250ml NaOH preserved	A	>12	>12	3.4	Y	Absent		TCN-9010(14)
L2044112-08I	Plastic 250ml HNO3 preserved	A	<2	<2	3.4	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CD-TI(180),CA-TI(180),NA-TI(180)
L2044112-08J	Plastic 500ml unpreserved	A	7	7	3.4	Y	Absent		SO4-9038(28),CL-9251(28),NO3-4500(2),TDS-2540(7)
L2044112-09A	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Serial_No: 10222014:34
Lab Number: L2044112
Report Date: 10/22/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2044112-09B	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-09C	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-09D	Plastic 120ml H2SO4 preserved	C	<2	<2	4.8	Y	Absent		COD-5220(28)
L2044112-09E	Plastic 250ml unpreserved/No Headspace	C	NA		4.8	Y	Absent		ALK-T-2320(14)
L2044112-09F	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-09G	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-09H	Plastic 250ml NaOH preserved	C	>12	>12	4.8	Y	Absent		TCN-9010(14)
L2044112-09I	Plastic 250ml HNO3 preserved	C	<2	<2	4.8	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),HG-T(28),FE-TI(180),MN-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2044112-09J	Plastic 500ml unpreserved	C	7	7	4.8	Y	Absent		SO4-9038(28),CL-9251(28),NO3-4500(2),TDS-2540(7)
L2044112-10A	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-10B	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-10C	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-10D	Plastic 120ml H2SO4 preserved	C	<2	<2	4.8	Y	Absent		COD-5220(28)
L2044112-10E	Plastic 250ml unpreserved/No Headspace	C	NA		4.8	Y	Absent		ALK-T-2320(14)
L2044112-10F	Amber 250ml unpreserved	C	7	7	4.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-10G	Amber 250ml unpreserved	C	7	7	4.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-10H	Plastic 250ml NaOH preserved	C	>12	>12	4.8	Y	Absent		TCN-9010(14)
L2044112-10I	Plastic 250ml HNO3 preserved	C	<2	<2	4.8	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),MN-TI(180),FE-TI(180),HG-T(28),NA-TI(180),CD-TI(180),CA-TI(180)
L2044112-10J	Plastic 500ml unpreserved	C	7	7	4.8	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)
L2044112-11A	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-11B	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

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.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
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.

Report Format: Data Usability Report



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Footnotes

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

Terms

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

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.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- 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. 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 reporting limit (RL) for the sample.
- 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.

Report Format: Data Usability Report



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Data Qualifiers

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

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 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.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 17

Published Date: 4/28/2020 9:42:21 AM

Page 1 of 1

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, Naphthalene**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.**EPA TO-12** Non-methane organics**EPA 3C** Fixed gases**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, SM4500CI-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.

PAGE 1 OF 2

Page 115 of 116

Sediment – 2-Gallon Sample Result



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Brown & Caldwell - Nashville
501 Great Circle Road, Suite 150
Nashville, TN 37228

Report Summary

Monday September 15, 2014

Report Number: L720416

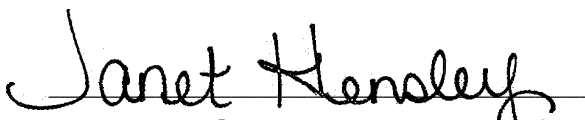
Samples Received: 09/08/14

Client Project: Clinton

Description: wastewater

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Janet Hensley , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BI0041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

September 15, 2014

Brown & Caldwell - Nashville
501 Great Circle Road, Suite 150
Nashville, TN 37228

Date Received : September 08, 2014
Description : Clinton
Sample ID : MUCK (SAMPLE-1)
Collected By : Charlie Gregory
Collection Date : 09/08/14 11:00

ESC Sample # : L720416-01

Site ID :

Project # : Clinton

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	0.0070	0.0030	0.010	mg/l	JQ	3500Cr	09/09/14	1
Arsenic	5.6	0.0064	0.020	mg/l		200.7	09/12/14	1
Arsenic, Dissolved	0.16	0.0064	0.020	mg/l		200.7	09/14/14	1
Barium	0.36	0.0010	0.0050	mg/l		200.7	09/12/14	1
Barium, Dissolved	0.038	0.0010	0.0050	mg/l		200.7	09/14/14	1
Cadmium	0.027	0.00070	0.0050	mg/l		200.7	09/12/14	1
Cadmium, Dissolved	0.00089	0.00070	0.0050	mg/l	J	200.7	09/14/14	1
Chromium	U	0.0018	0.010	mg/l		200.7	09/12/14	1
Chromium, Dissolved	U	0.0018	0.010	mg/l		200.7	09/14/14	1
Copper	0.033	0.0070	0.020	mg/l		200.7	09/12/14	1
Copper, Dissolved	U	0.0070	0.020	mg/l		200.7	09/14/14	1
Lead	0.068	0.0020	0.0050	mg/l		200.7	09/12/14	1
Lead, Dissolved	0.0025	0.0020	0.0050	mg/l	J	200.7	09/14/14	1
Manganese	11.	0.0020	0.010	mg/l		200.7	09/12/14	1
Manganese, Dissolved	0.15	0.0020	0.010	mg/l		200.7	09/15/14	1
Selenium	0.030	0.0076	0.020	mg/l		200.7	09/13/14	1
Selenium, Dissolved	0.011	0.0076	0.020	mg/l	J	200.7	09/14/14	1
Silver	0.0031	0.0027	0.010	mg/l	J	200.7	09/12/14	1
Silver, Dissolved	U	0.0027	0.010	mg/l		200.7	09/14/14	1
Zinc	0.24	0.0034	0.050	mg/l		200.7	09/12/14	1
Zinc, Dissolved	0.0049	0.0034	0.050	mg/l	J	200.7	09/14/14	1
TT0 Volatile Organics								
Acrolein	U	0.0089	0.050	mg/l		624	09/11/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		624	09/11/14	1
Benzene	U	0.00033	0.0010	mg/l		624	09/11/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		624	09/11/14	1
Bromoform	U	0.00047	0.0010	mg/l		624	09/11/14	1
Bromomethane	U	0.00087	0.0050	mg/l		624	09/11/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		624	09/11/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		624	09/11/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		624	09/11/14	1
Chloroethane	0.0022	0.00045	0.0050	mg/l	J	624	09/11/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		624	09/11/14	1
Chloroform	U	0.00032	0.0050	mg/l		624	09/11/14	1
Chloromethane	U	0.00028	0.0025	mg/l		624	09/11/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		624	09/11/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		624	09/11/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		624	09/11/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		624	09/11/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		624	09/11/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		624	09/11/14	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 09/15/14 12:52 Printed: 09/15/14 12:52
L720416-01 (SV625TT0) - Dilution due to matrix



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

September 15, 2014

Brown & Caldwell - Nashville
501 Great Circle Road, Suite 150
Nashville, TN 37228

Date Received : September 08, 2014
Description : Clinton
Sample ID : MUCK (SAMPLE-1)
Collected By : Charlie Gregory
Collection Date : 09/08/14 11:00

ESC Sample # : L720416-01

Site ID :

Project # : Clinton

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		624	09/11/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		624	09/11/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		624	09/11/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		624	09/11/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		624	09/11/14	1
Ethylbenzene	U	0.00038	0.0010	mg/l		624	09/11/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		624	09/11/14	1
1,1,2,2-Tetrachloroethane	U	0.00058	0.0010	mg/l		624	09/11/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		624	09/11/14	1
Toluene	U	0.00078	0.0050	mg/l		624	09/11/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		624	09/11/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		624	09/11/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		624	09/11/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		624	09/11/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		624	09/11/14	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		624	09/11/14	1
Dibromofluoromethane	102.			% Rec.		624	09/11/14	1
a,a,a-Trifluorotoluene	101.			% Rec.		624	09/11/14	1
4-Bromofluorobenzene	85.2			% Rec.		624	09/11/14	1
TTO Base/Neutral Extractables								
Acenaphthene	U	0.0012	0.0067	mg/l	0	625	09/12/14	6.65
Acenaphthylene	U	0.0014	0.0067	mg/l	0	625	09/12/14	6.65
Anthracene	U	0.0011	0.0067	mg/l	0	625	09/12/14	6.65
Benzidine	U	0.014	0.067	mg/l	L10	625	09/12/14	6.65
Benzo(a)anthracene	U	0.0012	0.0067	mg/l	0	625	09/12/14	6.65
Benzo(b)fluoranthene	U	0.0025	0.0067	mg/l	0	625	09/12/14	6.65
Benzo(k)fluoranthene	U	0.0018	0.0067	mg/l	0	625	09/12/14	6.65
Benzo(g,h,i)perylene	U	0.0025	0.0067	mg/l	0	625	09/12/14	6.65
Benzo(a)pyrene	U	0.0018	0.0067	mg/l	0	625	09/12/14	6.65
Bis(2-chloroethoxy)methane	U	0.0014	0.067	mg/l	0	625	09/12/14	6.65
Bis(2-chloroethyl)ether	U	0.0014	0.067	mg/l	0	625	09/12/14	6.65
Bis(2-chloroisopropyl)ether	U	0.0020	0.067	mg/l	0	625	09/12/14	6.65
4-Bromophenyl-phenylether	U	0.0012	0.067	mg/l	0	625	09/12/14	6.65
2-Chloronaphthalene	U	0.0014	0.0067	mg/l	0	625	09/12/14	6.65
4-Chlorophenyl-phenylether	U	0.0011	0.067	mg/l	0	625	09/12/14	6.65
Chrysene	U	0.00088	0.0067	mg/l	0	625	09/12/14	6.65
Dibenz(a,h)anthracene	U	0.0017	0.0067	mg/l	0	625	09/12/14	6.65
3,3-Dichlorobenzidine	U	0.011	0.067	mg/l	0	625	09/12/14	6.65
2,4-Dinitrotoluene	U	0.0014	0.067	mg/l	0	625	09/12/14	6.65
2,6-Dinitrotoluene	U	0.0095	0.067	mg/l	0	625	09/12/14	6.65
1,2-Diphenylhydrazine	U	0.0011	0.067	mg/l	0	625	09/12/14	6.65

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 09/15/14 12:52 Printed: 09/15/14 12:52
L720416-01 (SV625TTO) - Dilution due to matrix



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

September 15, 2014

Brown & Caldwell - Nashville
501 Great Circle Road, Suite 150
Nashville, TN 37228

Date Received : September 08, 2014
Description : Clinton

Sample ID : MUCK (SAMPLE-1)

Collected By : Charlie Gregory
Collection Date : 09/08/14 11:00

ESC Sample # : L720416-01

Site ID :

Project # : Clinton

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Fluoranthene	U	0.0023	0.0067	mg/l	0	625	09/12/14	6.65
Fluorene	U	0.0012	0.0067	mg/l	0	625	09/12/14	6.65
Hexachlorobenzene	U	0.0015	0.0067	mg/l	0	625	09/12/14	6.65
Hexachloro-1,3-butadiene	U	0.018	0.067	mg/l	0	625	09/12/14	6.65
Hexachlorocyclopentadiene	U	0.012	0.067	mg/l	0	625	09/12/14	6.65
Hexachloroethane	U	0.021	0.067	mg/l	0	625	09/12/14	6.65
Indeno(1,2,3-cd)pyrene	U	0.0022	0.0067	mg/l	0	625	09/12/14	6.65
Isophorone	U	0.0016	0.067	mg/l	0	625	09/12/14	6.65
Naphthalene	U	0.0067	0.0067	mg/l	0	625	09/12/14	6.65
Nitrobenzene	U	0.0013	0.067	mg/l	0	625	09/12/14	6.65
n-Nitrosodimethylamine	U	0.017	0.067	mg/l	0	625	09/12/14	6.65
n-Nitrosodiphenylamine	U	0.00091	0.067	mg/l	0	625	09/12/14	6.65
n-Nitrosodi-n-propylamine	U	0.0021	0.067	mg/l	0	625	09/12/14	6.65
Phenanthrene	U	0.0014	0.0067	mg/l	0	625	09/12/14	6.65
Benzylbutyl phthalate	U	0.0026	0.020	mg/l	0	625	09/12/14	6.65
Bis(2-ethylhexyl)phthalate	U	0.0033	0.020	mg/l	0	625	09/12/14	6.65
Di-n-butyl phthalate	U	0.0018	0.020	mg/l	0	625	09/12/14	6.65
Diethyl phthalate	U	0.0024	0.020	mg/l	0	625	09/12/14	6.65
Dimethyl phthalate	U	0.0023	0.020	mg/l	0	625	09/12/14	6.65
Di-n-octyl phthalate	U	0.0018	0.020	mg/l	0J3	625	09/12/14	6.65
Pyrene	U	0.0020	0.0067	mg/l	0	625	09/12/14	6.65
1,2,4-Trichlorobenzene	U	0.0023	0.067	mg/l	0	625	09/12/14	6.65
TT0 Acid Extractables								
4-Chloro-3-methylphenol	U	0.0015	0.067	mg/l	0	625	09/12/14	6.65
2-Chlorophenol	U	0.0013	0.067	mg/l	0	625	09/12/14	6.65
2,4-Dichlorophenol	U	0.0065	0.067	mg/l	0	625	09/12/14	6.65
2,4-Dimethylphenol	U	0.0089	0.067	mg/l	0	625	09/12/14	6.65
4,6-Dinitro-2-methylphenol	U	0.017	0.067	mg/l	0	625	09/12/14	6.65
2,4-Dinitrophenol	U	0.015	0.067	mg/l	0	625	09/12/14	6.65
2-Nitrophenol	U	0.0019	0.067	mg/l	0	625	09/12/14	6.65
4-Nitrophenol	U	0.018	0.067	mg/l	0	625	09/12/14	6.65
Pentachlorophenol	U	0.0027	0.067	mg/l	0	625	09/12/14	6.65
Phenol	U	0.0075	0.067	mg/l	0	625	09/12/14	6.65
2,4,6-Trichlorophenol	U	0.0018	0.067	mg/l	0	625	09/12/14	6.65
Surrogate Recovery								
2-Fluorophenol	56.7			% Rec.		625	09/12/14	6.65
Phenol-d5	38.8			% Rec.		625	09/12/14	6.65
Nitrobenzene-d5	70.1			% Rec.		625	09/12/14	6.65
2-Fluorobiphenyl	80.4			% Rec.		625	09/12/14	6.65
2,4,6-Tribromophenol	79.5			% Rec.		625	09/12/14	6.65
p-Terphenyl-d14	68.4			% Rec.		625	09/12/14	6.65

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 09/15/14 12:52 Printed: 09/15/14 12:52
L720416-01 (SV625TT0) - Dilution due to matrix

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L720416-01	WG742180	SAMP	Chloroethane	R2988011	J
	WG742155	SAMP	Acenaphthene	R2988631	0
	WG742155	SAMP	Acenaphthylene	R2988631	0
	WG742155	SAMP	Anthracene	R2988631	0
	WG742155	SAMP	Benzidine	R2988631	L10
	WG742155	SAMP	Benzo(a)anthracene	R2988631	0
	WG742155	SAMP	Benzo(b)fluoranthene	R2988631	0
	WG742155	SAMP	Benzo(k)fluoranthene	R2988631	0
	WG742155	SAMP	Benzo(g,h,i)perylene	R2988631	0
	WG742155	SAMP	Benzo(a)pyrene	R2988631	0
	WG742155	SAMP	Bis(2-chloroethoxy)methane	R2988631	0
	WG742155	SAMP	Bis(2-chloroethyl)ether	R2988631	0
	WG742155	SAMP	Bis(2-chloroisopropyl)ether	R2988631	0
	WG742155	SAMP	4-Bromophenyl-phenylether	R2988631	0
	WG742155	SAMP	2-Chloronaphthalene	R2988631	0
	WG742155	SAMP	4-Chlorophenyl-phenylether	R2988631	0
	WG742155	SAMP	Chrysene	R2988631	0
	WG742155	SAMP	Dibenz(a,h)anthracene	R2988631	0
	WG742155	SAMP	3,3-Dichlorobenzidine	R2988631	0
	WG742155	SAMP	2,4-Dinitrotoluene	R2988631	0
	WG742155	SAMP	2,6-Dinitrotoluene	R2988631	0
	WG742155	SAMP	1,2-Diphenylhydrazine	R2988631	0
	WG742155	SAMP	Fluoranthene	R2988631	0
	WG742155	SAMP	Fluorene	R2988631	0
	WG742155	SAMP	Hexachlorobenzene	R2988631	0
	WG742155	SAMP	Hexachloro-1,3-butadiene	R2988631	0
	WG742155	SAMP	Hexachlorocyclopentadiene	R2988631	0
	WG742155	SAMP	Hexachloroethane	R2988631	0
	WG742155	SAMP	Indeno(1,2,3-cd)pyrene	R2988631	0
	WG742155	SAMP	Isophorone	R2988631	0
	WG742155	SAMP	Naphthalene	R2988631	0
	WG742155	SAMP	Nitrobenzene	R2988631	0
	WG742155	SAMP	n-Nitrosodimethylamine	R2988631	0
	WG742155	SAMP	n-Nitrosodiphenylamine	R2988631	0
	WG742155	SAMP	n-Nitrosodi-n-propylamine	R2988631	0
	WG742155	SAMP	Phenanthrene	R2988631	0
	WG742155	SAMP	Benzylbutyl phthalate	R2988631	0
	WG742155	SAMP	Bis(2-ethylhexyl)phthalate	R2988631	0
	WG742155	SAMP	Di-n-butyl phthalate	R2988631	0
	WG742155	SAMP	Diethyl phthalate	R2988631	0
	WG742155	SAMP	Dimethyl phthalate	R2988631	0
	WG742155	SAMP	Di-n-octyl phthalate	R2988631	0J3
	WG742155	SAMP	Pyrene	R2988631	0
	WG742155	SAMP	1,2,4-Trichlorobenzene	R2988631	0
	WG742155	SAMP	4-Chloro-3-methylphenol	R2988631	0
	WG742155	SAMP	2-Chlorophenol	R2988631	0
	WG742155	SAMP	2,4-Dichlorophenol	R2988631	0
	WG742155	SAMP	2,4-Dimethylphenol	R2988631	0
	WG742155	SAMP	4,6-Dinitro-2-methylphenol	R2988631	0
	WG742155	SAMP	2,4-Dinitrophenol	R2988631	0
	WG742155	SAMP	2-Nitrophenol	R2988631	0
	WG742155	SAMP	4-Nitrophenol	R2988631	0
	WG742155	SAMP	Pentachlorophenol	R2988631	0
	WG742155	SAMP	Phenol	R2988631	0
	WG742155	SAMP	2,4,6-Trichlorophenol	R2988631	0
	WG742505	SAMP	Cadmium, Dissolved	R2989249	J
	WG742505	SAMP	Lead, Dissolved	R2989249	J
	WG742505	SAMP	Selenium, Dissolved	R2989249	J
	WG742241	SAMP	Silver	R2988869	J
	WG742505	SAMP	Zinc, Dissolved	R2989249	J
	WG741766	SAMP	Chromium, Hexavalent	R2987207	JQ

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
L1	(ESC) The associated batch LCS exceeded the upper control limit, which indicates a high bias; The sample analyte was "not detected" and is therefore unaffected.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
Q	(ESC) Sample held beyond the accepted holding time.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy** - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision** - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate** - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC** - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
09/15/14 at 12:52:53

TSR Signing Reports: 650
R5 - Desired TAT

Must have ESC project keys for all samples-don't use based on name, i.e, don't use BROWNA-MCCREADY. If there is not a project name that matches, leave blank. LC

Sample: L720416-01 Account: BROWNA Received: 09/08/14 15:30 Due Date: 09/15/14 00:00 RPT Date: 09/15/14 12:52
Removed V8260/SV8270 per LC. AV 9/9



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville

501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L720416

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

September 15, 2014

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Chromium, Hexavalent	< .01	mg/l			WG741766	09/09/14 14:15
1,1,1-Trichloroethane	< .0005	mg/l			WG742180	09/11/14 01:26
1,1,2,2-Tetrachloroethane	< .0005	mg/l			WG742180	09/11/14 01:26
1,1,2-Trichloroethane	< .0005	mg/l			WG742180	09/11/14 01:26
1,1-Dichloroethane	< .0005	mg/l			WG742180	09/11/14 01:26
1,1-Dichloroethene	< .0005	mg/l			WG742180	09/11/14 01:26
1,2-Dichlorobenzene	< .0005	mg/l			WG742180	09/11/14 01:26
1,2-Dichloroethane	< .0005	mg/l			WG742180	09/11/14 01:26
1,2-Dichloropropane	< .0005	mg/l			WG742180	09/11/14 01:26
1,3-Dichlorobenzene	< .0005	mg/l			WG742180	09/11/14 01:26
1,4-Dichlorobenzene	< .0005	mg/l			WG742180	09/11/14 01:26
2-Chloroethyl vinyl ether	< .0025	mg/l			WG742180	09/11/14 01:26
Acrolein	< .025	mg/l			WG742180	09/11/14 01:26
Acrylonitrile	< .0025	mg/l			WG742180	09/11/14 01:26
Benzene	< .0005	mg/l			WG742180	09/11/14 01:26
Bromodichloromethane	< .0005	mg/l			WG742180	09/11/14 01:26
Bromoform	< .0005	mg/l			WG742180	09/11/14 01:26
Bromomethane	< .0005	mg/l			WG742180	09/11/14 01:26
Carbon tetrachloride	< .0005	mg/l			WG742180	09/11/14 01:26
Chlorobenzene	< .0005	mg/l			WG742180	09/11/14 01:26
Chlorodibromomethane	< .0005	mg/l			WG742180	09/11/14 01:26
Chloroethane	< .0005	mg/l			WG742180	09/11/14 01:26
Chloroform	< .0005	mg/l			WG742180	09/11/14 01:26
Chloromethane	< .0005	mg/l			WG742180	09/11/14 01:26
cis-1,3-Dichloropropene	< .0005	mg/l			WG742180	09/11/14 01:26
Dichlorodifluoromethane	< .0005	mg/l			WG742180	09/11/14 01:26
Ethylbenzene	< .0005	mg/l			WG742180	09/11/14 01:26
Methylene Chloride	< .0025	mg/l			WG742180	09/11/14 01:26
Tetrachloroethene	< .0005	mg/l			WG742180	09/11/14 01:26
Toluene	< .0005	mg/l			WG742180	09/11/14 01:26
trans-1,2-Dichloroethene	< .0005	mg/l			WG742180	09/11/14 01:26
trans-1,3-Dichloropropene	< .0005	mg/l			WG742180	09/11/14 01:26
Trichloroethene	< .0005	mg/l			WG742180	09/11/14 01:26
Trichlorofluoromethane	< .0005	mg/l			WG742180	09/11/14 01:26
Vinyl chloride	< .0005	mg/l			WG742180	09/11/14 01:26
4-Bromofluorobenzene		% Rec.	92.00	71-126	WG742180	09/11/14 01:26
Dibromofluoromethane		% Rec.	101.0	78.3-121	WG742180	09/11/14 01:26
Toluene-d8		% Rec.	102.0	88.5-111	WG742180	09/11/14 01:26
a,a,a-Trifluorotoluene		% Rec.	101.0	85-114	WG742180	09/11/14 01:26
1,2,4-Trichlorobenzene	< .01	mg/l			WG742155	09/12/14 03:13
2,4,6-Trichlorophenol	< .01	mg/l			WG742155	09/12/14 03:13
2,4-Dichlorophenol	< .01	mg/l			WG742155	09/12/14 03:13
2,4-Dimethylphenol	< .01	mg/l			WG742155	09/12/14 03:13
2,4-Dinitrophenol	< .01	mg/l			WG742155	09/12/14 03:13
2,4-Dinitrotoluene	< .01	mg/l			WG742155	09/12/14 03:13
2,6-Dinitrotoluene	< .01	mg/l			WG742155	09/12/14 03:13
2-Chloronaphthalene	< .001	mg/l			WG742155	09/12/14 03:13
2-Chlorophenol	< .01	mg/l			WG742155	09/12/14 03:13
2-Nitrophenol	< .01	mg/l			WG742155	09/12/14 03:13
3,3-Dichlorobenzidine	< .01	mg/l			WG742155	09/12/14 03:13
4,6-Dinitro-2-methylphenol	< .01	mg/l			WG742155	09/12/14 03:13
4-Bromophenyl-phenylether	< .01	mg/l			WG742155	09/12/14 03:13
4-Chloro-3-methylphenol	< .01	mg/l			WG742155	09/12/14 03:13
4-Chlorophenyl-phenylether	< .01	mg/l			WG742155	09/12/14 03:13
4-Nitrophenol	< .01	mg/l			WG742155	09/12/14 03:13

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville

501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L720416

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

September 15, 2014

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Acenaphthene	< .001	mg/l			WG742155	09/12/14 03:13
Acenaphthylene	< .001	mg/l			WG742155	09/12/14 03:13
Anthracene	< .001	mg/l			WG742155	09/12/14 03:13
1,2-Diphenylhydrazine	< .01	mg/l			WG742155	09/12/14 03:13
Benzidine	< .05	mg/l			WG742155	09/12/14 03:13
Benzo(a)anthracene	< .001	mg/l			WG742155	09/12/14 03:13
Benzo(a)pyrene	< .001	mg/l			WG742155	09/12/14 03:13
Benzo(b)fluoranthene	< .001	mg/l			WG742155	09/12/14 03:13
Benzo(g,h,i)perylene	< .001	mg/l			WG742155	09/12/14 03:13
Benzo(k)fluoranthene	< .001	mg/l			WG742155	09/12/14 03:13
Benzylbutyl phthalate	< .003	mg/l			WG742155	09/12/14 03:13
Bis(2-chlorethoxy)methane	< .01	mg/l			WG742155	09/12/14 03:13
Bis(2-chloroethyl)ether	< .01	mg/l			WG742155	09/12/14 03:13
Bis(2-chloroisopropyl)ether	< .01	mg/l			WG742155	09/12/14 03:13
Bis(2-ethylhexyl)phthalate	< .003	mg/l			WG742155	09/12/14 03:13
Chrysene	< .001	mg/l			WG742155	09/12/14 03:13
Di-n-butyl phthalate	< .003	mg/l			WG742155	09/12/14 03:13
Di-n-octyl phthalate	< .003	mg/l			WG742155	09/12/14 03:13
Dibenz(a,h)anthracene	< .001	mg/l			WG742155	09/12/14 03:13
Diethyl phthalate	< .003	mg/l			WG742155	09/12/14 03:13
Dimethyl phthalate	< .003	mg/l			WG742155	09/12/14 03:13
Fluoranthene	< .001	mg/l			WG742155	09/12/14 03:13
Fluorene	< .001	mg/l			WG742155	09/12/14 03:13
Hexachloro-1,3-butadiene	< .01	mg/l			WG742155	09/12/14 03:13
Hexachlorobenzene	< .001	mg/l			WG742155	09/12/14 03:13
Hexachlorocyclopentadiene	< .01	mg/l			WG742155	09/12/14 03:13
Hexachloroethane	< .01	mg/l			WG742155	09/12/14 03:13
Indeno(1,2,3-cd)pyrene	< .001	mg/l			WG742155	09/12/14 03:13
Isophorone	< .01	mg/l			WG742155	09/12/14 03:13
n-Nitrosodi-n-propylamine	< .01	mg/l			WG742155	09/12/14 03:13
n-Nitrosodimethylamine	< .01	mg/l			WG742155	09/12/14 03:13
n-Nitrosodiphenylamine	< .01	mg/l			WG742155	09/12/14 03:13
Naphthalene	< .001	mg/l			WG742155	09/12/14 03:13
Nitrobenzene	< .01	mg/l			WG742155	09/12/14 03:13
Pentachlorophenol	< .001	mg/l			WG742155	09/12/14 03:13
Phenanthrene	< .001	mg/l			WG742155	09/12/14 03:13
Phenol	< .01	mg/l			WG742155	09/12/14 03:13
Pyrene	< .001	mg/l			WG742155	09/12/14 03:13
2,4,6-Tribromophenol		% Rec.	77.00	21.6-154	WG742155	09/12/14 03:13
2-Fluorobiphenyl		% Rec.	86.80	34.5-133	WG742155	09/12/14 03:13
2-Fluorophenol		% Rec.	53.10	10-74.1	WG742155	09/12/14 03:13
Nitrobenzene-d5		% Rec.	74.40	28.3-123	WG742155	09/12/14 03:13
Phenol-d5		% Rec.	37.80	10-63.2	WG742155	09/12/14 03:13
p-Terphenyl-d14		% Rec.	81.40	30.4-148	WG742155	09/12/14 03:13
Arsenic	< .02	mg/l			WG742241	09/12/14 21:58
Barium	< .005	mg/l			WG742241	09/12/14 21:58
Cadmium	< .005	mg/l			WG742241	09/12/14 21:58
Chromium	< .01	mg/l			WG742241	09/12/14 21:58
Copper	< .02	mg/l			WG742241	09/12/14 21:58
Lead	< .005	mg/l			WG742241	09/12/14 21:58
Manganese	< .01	mg/l			WG742241	09/12/14 21:58
Silver	< .01	mg/l			WG742241	09/12/14 21:58
Zinc	< .05	mg/l			WG742241	09/12/14 21:58
Selenium	< .02	mg/l			WG742241	09/13/14 19:02

Arsenic,Dissoolved < .02 mg/l WG742505 09/14/14 16:39

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville

501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L720416

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

September 15, 2014

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Barium, Dissolved	< .005	mg/l			WG742505	09/14/14 16:39
Cadmium, Dissolved	< .005	mg/l			WG742505	09/14/14 16:39
Chromium, Dissolved	< .01	mg/l			WG742505	09/14/14 16:39
Copper, Dissolved	< .02	mg/l			WG742505	09/14/14 16:39
Lead, Dissolved	< .005	mg/l			WG742505	09/14/14 16:39
Selenium, Dissolved	< .02	mg/l			WG742505	09/14/14 16:39
Silver, Dissolved	< .01	mg/l			WG742505	09/14/14 16:39
Zinc, Dissolved	< .05	mg/l			WG742505	09/14/14 16:39
Manganese, Dissolved	< .01	mg/l			WG742505	09/15/14 09:15

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Chromium, Hexavalent	mg/l	0.0	0.0	0.0	20	L720407-01	WG741766

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Chromium, Hexavalent	mg/l	.6	0.613	102.	85-115	WG741766
1,1,1-Trichloroethane	mg/l	.025	0.0262	105.	73.2-123	WG742180
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0260	104.	70.7-122	WG742180
1,1,2-Trichloroethane	mg/l	.025	0.0254	101.	77.7-118	WG742180
1,1-Dichloroethane	mg/l	.025	0.0270	108.	70.7-126	WG742180
1,1-Dichloroethene	mg/l	.025	0.0255	102.	67.8-129	WG742180
1,2-Dichlorobenzene	mg/l	.025	0.0257	103.	78.4-117	WG742180
1,2-Dichloroethane	mg/l	.025	0.0278	111.	68.8-124	WG742180
1,2-Dichloropropane	mg/l	.025	0.0280	112.	76.5-119	WG742180
1,3-Dichlorobenzene	mg/l	.025	0.0255	102.	70.8-128	WG742180
1,4-Dichlorobenzene	mg/l	.025	0.0255	102.	78.8-115	WG742180
2-Chloroethyl vinyl ether	mg/l	.125	0.142	113.	43.8-150	WG742180
Acrolein	mg/l	.125	0.123	98.0	10-190	WG742180
Acrylonitrile	mg/l	.125	0.148	118.	55.2-130	WG742180
Benzene	mg/l	.025	0.0263	105.	74.8-121	WG742180
Bromodichloromethane	mg/l	.025	0.0283	113.	75.1-116	WG742180
Bromoform	mg/l	.025	0.0279	112.	67.5-130	WG742180
Bromomethane	mg/l	.025	0.0222	88.7	49.9-162	WG742180
Carbon tetrachloride	mg/l	.025	0.0266	107.	70.2-123	WG742180
Chlorobenzene	mg/l	.025	0.0241	96.4	78.1-119	WG742180
Chlorodibromomethane	mg/l	.025	0.0267	107.	74-121	WG742180
Chloroethane	mg/l	.025	0.0256	102.	61.7-135	WG742180
Chloroform	mg/l	.025	0.0256	102.	76-121	WG742180
Chloromethane	mg/l	.025	0.0267	107.	61.5-129	WG742180
cis-1,3-Dichloropropene	mg/l	.025	0.0265	106.	78.2-120	WG742180
Dichlorodifluoromethane	mg/l	.025	0.0265	106.	54.8-135	WG742180
Ethylbenzene	mg/l	.025	0.0242	96.9	78.8-122	WG742180
Methylene Chloride	mg/l	.025	0.0245	97.9	70.3-120	WG742180
Tetrachloroethene	mg/l	.025	0.0245	97.9	72.6-126	WG742180
Toluene	mg/l	.025	0.0261	104.	79.7-116	WG742180
trans-1,2-Dichloroethene	mg/l	.025	0.0247	99.0	72.6-121	WG742180
trans-1,3-Dichloropropene	mg/l	.025	0.0277	111.	74.3-123	WG742180
Trichloroethene	mg/l	.025	0.0269	107.	77.7-118	WG742180
Trichlorofluoromethane	mg/l	.025	0.0269	108.	63.5-135	WG742180
Vinyl chloride	mg/l	.025	0.0265	106.	65.9-128	WG742180
4-Bromofluorobenzene				93.10	71-126	WG742180
Dibromofluoromethane				99.70	78.3-121	WG742180
Toluene-d8				102.0	88.5-111	WG742180
a,a,a-Trifluorotoluene				97.60	85-114	WG742180

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville

501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L720416

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

September 15, 2014

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
1,2,4-Trichlorobenzene	mg/l	.01	0.00833	83.3	26.6-109	WG742155
2,4,6-Trichlorophenol	mg/l	.01	0.00981	98.1	35.9-129	WG742155
2,4-Dichlorophenol	mg/l	.01	0.00963	96.3	39.6-121	WG742155
2,4-Dimethylphenol	mg/l	.01	0.00944	94.4	33.8-126	WG742155
2,4-Dinitrophenol	mg/l	.01	0.00821	82.1	10-108	WG742155
2,4-Dinitrotoluene	mg/l	.01	0.00950	95.0	42.3-143	WG742155
2,6-Dinitrotoluene	mg/l	.01	0.00939	93.9	41-139	WG742155
2-Chloronaphthalene	mg/l	.01	0.00904	90.4	35.1-123	WG742155
2-Chlorophenol	mg/l	.01	0.00825	82.5	31.2-103	WG742155
2-Nitrophenol	mg/l	.01	0.0104	104.	38.3-125	WG742155
3,3-Dichlorobenzidine	mg/l	.01	0.0101	101.	33.1-134	WG742155
4,6-Dinitro-2-methylphenol	mg/l	.01	0.0107	107.	28.2-134	WG742155
4-Bromophenyl-phenylether	mg/l	.01	0.00893	89.3	39-137	WG742155
4-Chloro-3-methylphenol	mg/l	.01	0.00990	99.0	34.6-130	WG742155
4-Chlorophenyl-phenylether	mg/l	.01	0.00892	89.2	37.3-130	WG742155
4-Nitrophenol	mg/l	.01	0.00516	51.6	10-65.4	WG742155
Acenaphthene	mg/l	.01	0.00902	90.2	39-128	WG742155
Acenaphthylene	mg/l	.01	0.00902	90.2	41-135	WG742155
Anthracene	mg/l	.01	0.00949	94.9	42.9-138	WG742155
1,2-Diphenylhydrazine	mg/l	.01	0.00892	89.2	37.2-129	WG742155
Benzidine	mg/l	.01	0.00895	89.5*	0-75.5	WG742155
Benzo(a)anthracene	mg/l	.01	0.00955	95.5	42.3-137	WG742155
Benzo(a)pyrene	mg/l	.01	0.00895	89.5	41.7-138	WG742155
Benzo(b)fluoranthene	mg/l	.01	0.00993	99.3	40.5-137	WG742155
Benzo(g,h,i)perylene	mg/l	.01	0.00984	98.4	38.8-137	WG742155
Benzo(k)fluoranthene	mg/l	.01	0.00960	96.0	41.5-140	WG742155
Benzylbutyl phthalate	mg/l	.01	0.00949	94.9	29.2-146	WG742155
Bis(2-chlorethoxy)methane	mg/l	.01	0.00840	84.0	36.7-123	WG742155
Bis(2-chloroethyl)ether	mg/l	.01	0.00758	75.8	29.8-114	WG742155
Bis(2-chloroisopropyl)ether	mg/l	.01	0.00853	85.3	33.6-115	WG742155
Bis(2-ethylhexyl)phthalate	mg/l	.01	0.00960	96.0	41.4-150	WG742155
Chrysene	mg/l	.01	0.00954	95.4	40.5-140	WG742155
Di-n-butyl phthalate	mg/l	.01	0.00922	92.2	33-151	WG742155
Di-n-octyl phthalate	mg/l	.01	0.0121	121.	39.8-146	WG742155
Dibenz(a,h)anthracene	mg/l	.01	0.00969	96.9	39.9-141	WG742155
Diethyl phthalate	mg/l	.01	0.00908	90.8	36-140	WG742155
Dimethyl phthalate	mg/l	.01	0.00909	90.9	23.4-138	WG742155
Fluoranthene	mg/l	.01	0.00932	93.2	41.4-141	WG742155
Fluorene	mg/l	.01	0.00927	92.7	39.9-132	WG742155
Hexachloro-1,3-butadiene	mg/l	.01	0.00803	80.3	24.9-121	WG742155
Hexachlorobenzene	mg/l	.01	0.00911	91.1	34.1-125	WG742155
Hexachlorocyclopentadiene	mg/l	.01	0.00647	64.7	13.5-122	WG742155
Hexachloroethane	mg/l	.01	0.00791	79.1	22.2-109	WG742155
Indeno(1,2,3-cd)pyrene	mg/l	.01	0.00988	98.8	41-140	WG742155
Isophorone	mg/l	.01	0.00927	92.7	30.5-109	WG742155
n-Nitrosodi-n-propylamine	mg/l	.01	0.00823	82.3	35.6-125	WG742155
n-Nitrosodimethylamine	mg/l	.01	0.00449	44.9	12.3-70.5	WG742155
n-Nitrosodiphenylamine	mg/l	.01	0.00914	91.4	41.1-134	WG742155
Naphthalene	mg/l	.01	0.00824	82.4	33-117	WG742155
Nitrobenzene	mg/l	.01	0.00890	89.0	34.4-121	WG742155
Pentachlorophenol	mg/l	.01	0.00928	92.8	17-117	WG742155
Phenanthrene	mg/l	.01	0.00929	92.9	41.4-134	WG742155
Phenol	mg/l	.01	0.00449	44.9	10-77.3	WG742155
Pyrene	mg/l	.01	0.00965	96.5	40.2-135	WG742155
2,4,6-Tribromophenol				86.40	21.6-154	WG742155
2-Fluorobiphenyl				87.80	34.5-133	WG742155
2-Fluorophenol				61.00	10-74.1	WG742155
Nitrobenzene-d5				87.50	28.3-123	WG742155
Phenol-d5				41.30	10-63.2	WG742155

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville

501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L720416

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

September 15, 2014

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
p-Terphenyl-d14				72.50	30.4-148	
Arsenic	mg/l	1	1.08	108.	85-115	WG742241
Barium	mg/l	1	1.08	108.	85-115	WG742241
Cadmium	mg/l	1	1.08	108.	85-115	WG742241
Chromium	mg/l	1	1.07	107.	85-115	WG742241
Copper	mg/l	1	1.03	103.	85-115	WG742241
Lead	mg/l	1	1.08	108.	85-115	WG742241
Manganese	mg/l	1	1.08	108.	85-115	WG742241
Silver	mg/l	1	1.06	106.	85-115	WG742241
Zinc	mg/l	1	1.07	107.	85-115	WG742241
Selenium	mg/l	1	1.01	101.	85-115	WG742241
Arsenic, Dissolved	mg/l	1	1.11	111.	85-115	WG742505
Barium, Dissolved	mg/l	1	1.07	107.	85-115	WG742505
Cadmium, Dissolved	mg/l	1	1.15	115.	85-115	WG742505
Chromium, Dissolved	mg/l	1	1.10	110.	85-115	WG742505
Copper, Dissolved	mg/l	1	1.08	108.	85-115	WG742505
Lead, Dissolved	mg/l	1	1.15	115.	85-115	WG742505
Selenium, Dissolved	mg/l	1	1.09	109.	85-115	WG742505
Silver, Dissolved	mg/l	1	1.13	113.	85-115	WG742505
Zinc, Dissolved	mg/l	1	1.09	109.	85-115	WG742505
Manganese, Dissolved	mg/l	1	1.09	109.	85-115	WG742505

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Chromium, Hexavalent	mg/l	0.613	0.613	102.	85-115	0.0	20	WG741766
1,1,1-Trichloroethane	mg/l	0.0263	0.0262	105.	73.2-123	0.440	20	WG742180
1,1,2,2-Tetrachloroethane	mg/l	0.0256	0.0260	102.	70.7-122	1.59	20	WG742180
1,1,2-Trichloroethane	mg/l	0.0257	0.0254	103.	77.7-118	1.23	20	WG742180
1,1-Dichloroethane	mg/l	0.0276	0.0270	110.	70.7-126	2.21	20	WG742180
1,1-Dichloroethene	mg/l	0.0258	0.0255	103.	67.8-129	1.02	20	WG742180
1,2-Dichlorobenzene	mg/l	0.0249	0.0257	99.0	78.4-117	3.41	20	WG742180
1,2-Dichloroethane	mg/l	0.0282	0.0278	113.	68.8-124	1.41	20	WG742180
1,2-Dichloropropane	mg/l	0.0280	0.0280	112.	76.5-119	0.200	20	WG742180
1,3-Dichlorobenzene	mg/l	0.0255	0.0255	102.	70.8-128	0.0700	20	WG742180
1,4-Dichlorobenzene	mg/l	0.0247	0.0255	99.0	78.8-115	3.35	20	WG742180
2-Chloroethyl vinyl ether	mg/l	0.140	0.142	112.	43.8-150	1.42	20	WG742180
Acrolein	mg/l	0.126	0.123	101.	10-190	2.86	28.1	WG742180
Acrylonitrile	mg/l	0.147	0.148	117.	55.2-130	0.490	20	WG742180
Benzene	mg/l	0.0266	0.0263	106.	74.8-121	1.24	20	WG742180
Bromodichloromethane	mg/l	0.0285	0.0283	114.	75.1-116	0.770	20	WG742180
Bromoform	mg/l	0.0267	0.0279	107.	67.5-130	4.27	20	WG742180
Bromomethane	mg/l	0.0223	0.0222	89.0	49.9-162	0.660	20	WG742180
Carbon tetrachloride	mg/l	0.0269	0.0266	107.	70.2-123	0.870	20	WG742180
Chlorobenzene	mg/l	0.0240	0.0241	96.0	78.1-119	0.600	20	WG742180
Chlorodibromomethane	mg/l	0.0263	0.0267	105.	74-121	1.53	20	WG742180
Chloroethane	mg/l	0.0239	0.0256	96.0	61.7-135	6.59	20	WG742180
Chloroform	mg/l	0.0260	0.0256	104.	76-121	1.75	20	WG742180
Chloromethane	mg/l	0.0266	0.0267	106.	61.5-129	0.530	20	WG742180
cis-1,3-Dichloropropene	mg/l	0.0268	0.0265	107.	78.2-120	1.02	20	WG742180
Dichlorodifluoromethane	mg/l	0.0276	0.0265	110.	54.8-135	4.06	20	WG742180
Ethylbenzene	mg/l	0.0241	0.0242	96.0	78.8-122	0.460	20	WG742180
Methylene Chloride	mg/l	0.0244	0.0245	98.0	70.3-120	0.200	20	WG742180
Tetrachloroethene	mg/l	0.0240	0.0245	96.0	72.6-126	1.88	20	WG742180
Toluene	mg/l	0.0261	0.0261	104.	79.7-116	0.0	20	WG742180

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville

501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L720416

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

September 15, 2014

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
trans-1,2-Dichloroethene	mg/l	0.0252	0.0247	101.	72.6-121	1.93	20	WG742180
trans-1,3-Dichloropropene	mg/l	0.0275	0.0277	110.	74.3-123	0.700	20	WG742180
Trichloroethene	mg/l	0.0261	0.0269	104.	77.7-118	2.94	20	WG742180
Trichlorofluoromethane	mg/l	0.0275	0.0269	110.	63.5-135	2.07	20	WG742180
Vinyl chloride	mg/l	0.0264	0.0265	106.	65.9-128	0.200	20	WG742180
4-Bromofluorobenzene				93.50	71-126			WG742180
Dibromofluoromethane				99.80	78.3-121			WG742180
Toluene-d8				103.0	88.5-111			WG742180
a,a,a-Trifluorotoluene				99.70	85-114			WG742180
1,2,4-Trichlorobenzene	mg/l	0.00819	0.00833	82.0	26.6-109	1.69	20	WG742155
2,4,6-Trichlorophenol	mg/l	0.00997	0.00981	100.	35.9-129	1.67	22.4	WG742155
2,4-Dichlorophenol	mg/l	0.00946	0.00963	95.0	39.6-121	1.77	20	WG742155
2,4-Dimethylphenol	mg/l	0.00927	0.00944	93.0	33.8-126	1.78	20	WG742155
2,4-Dinitrophenol	mg/l	0.00709	0.00821	71.0	10-108	14.5	40	WG742155
2,4-Dinitrotoluene	mg/l	0.00958	0.00950	96.0	42.3-143	0.880	20	WG742155
2,6-Dinitrotoluene	mg/l	0.00961	0.00939	96.0	41-139	2.32	20	WG742155
2-Chloronaphthalene	mg/l	0.00924	0.00904	92.0	35.1-123	2.19	20	WG742155
2-Chlorophenol	mg/l	0.00823	0.00825	82.0	31.2-103	0.340	20	WG742155
2-Nitrophenol	mg/l	0.0105	0.0104	105.	38.3-125	1.19	20	WG742155
3,3-Dichlorobenzidine	mg/l	0.00992	0.0101	99.0	33.1-134	2.30	20	WG742155
4,6-Dinitro-2-methylphenol	mg/l	0.0104	0.0107	104.	28.2-134	2.93	29.2	WG742155
4-Bromophenyl-phenylether	mg/l	0.00904	0.00893	90.0	39-137	1.21	20	WG742155
4-Chloro-3-methylphenol	mg/l	0.0100	0.00990	100.	34.6-130	1.10	20	WG742155
4-Chlorophenyl-phenylether	mg/l	0.00895	0.00892	89.0	37.3-130	0.320	20	WG742155
4-Nitrophenol	mg/l	0.00500	0.00516	50.0	10-65.4	3.20	33.6	WG742155
Acenaphthene	mg/l	0.00913	0.00902	91.0	39-128	1.12	20	WG742155
Acenaphthylene	mg/l	0.00893	0.00902	89.0	41-135	1.01	20	WG742155
Anthracene	mg/l	0.00945	0.00949	94.0	42.9-138	0.390	20	WG742155
1,2-Diphenylhydrazine	mg/l	0.00883	0.00892	88.0	37.2-129	0.940	20	WG742155
Benzydine	mg/l	0.00799	0.00895	80*	0-75.5	11.3	40	WG742155
Benzo(a)anthracene	mg/l	0.00938	0.00955	94.0	42.3-137	1.74	20	WG742155
Benzo(a)pyrene	mg/l	0.00883	0.00895	88.0	41.7-138	1.41	20	WG742155
Benzo(b)fluoranthene	mg/l	0.0100	0.00993	100.	40.5-137	1.15	20	WG742155
Benzo(g,h,i)perylene	mg/l	0.00977	0.00984	98.0	38.8-137	0.790	20	WG742155
Benzo(k)fluoranthene	mg/l	0.00919	0.00960	92.0	41.5-140	4.36	20	WG742155
Benzylbutyl phthalate	mg/l	0.00957	0.00949	96.0	29.2-146	0.850	20.7	WG742155
Bis(2-chloroethoxy)methane	mg/l	0.00834	0.00840	83.0	36.7-123	0.790	20	WG742155
Bis(2-chloroethyl)ether	mg/l	0.00782	0.00758	78.0	29.8-114	3.10	25.3	WG742155
Bis(2-chloroisopropyl)ether	mg/l	0.00841	0.00853	84.0	33.6-115	1.41	21.3	WG742155
Bis(2-ethylhexyl)phthalate	mg/l	0.00921	0.00960	92.0	41.4-150	4.07	20	WG742155
Chrysene	mg/l	0.00938	0.00954	94.0	40.5-140	1.73	20	WG742155
Di-n-butyl phthalate	mg/l	0.00925	0.00922	92.0	33-151	0.330	20	WG742155
Di-n-octyl phthalate	mg/l	0.00935	0.0121	94.0	39.8-146	25.9*	20	WG742155
Dibenz(a,h)anthracene	mg/l	0.00945	0.00969	94.0	39.9-141	2.49	20	WG742155
Diethyl phthalate	mg/l	0.00918	0.00908	92.0	36-140	1.07	20	WG742155
Dimethyl phthalate	mg/l	0.00898	0.00909	90.0	23.4-138	1.29	20.2	WG742155
Fluoranthene	mg/l	0.00945	0.00932	94.0	41.4-141	1.40	20	WG742155
Fluorene	mg/l	0.00941	0.00927	94.0	39.9-132	1.52	20	WG742155
Hexachloro-1,3-butadiene	mg/l	0.00818	0.00803	82.0	24.9-121	1.79	22	WG742155
Hexachlorobenzene	mg/l	0.00893	0.00911	89.0	34.1-125	1.99	20	WG742155
Hexachlorocyclopentadiene	mg/l	0.00650	0.00647	65.0	13.5-122	0.530	21.6	WG742155
Hexachloroethane	mg/l	0.00796	0.00791	80.0	22.2-109	0.620	25.8	WG742155
Indeno(1,2,3-cd)pyrene	mg/l	0.00978	0.00988	98.0	41-140	1.05	20	WG742155
Isophorone	mg/l	0.00907	0.00927	91.0	30.5-109	2.16	20	WG742155
n-Nitrosodi-n-propylamine	mg/l	0.00823	0.00823	82.0	35.6-125	0.0700	20	WG742155
n-Nitrosodimethylamine	mg/l	0.00455	0.00449	45.0	12.3-70.5	1.31	33	WG742155
n-Nitrosodiphenylamine	mg/l	0.00902	0.00914	90.0	41.1-134	1.24	20	WG742155

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville

501 Great Circle Road, Suite 150

Nashville, TN 37228

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

L720416

September 15, 2014

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Naphthalene	mg/l	0.00826	0.00824	82.0	33-117	0.290	20	WG742155
Nitrobenzene	mg/l	0.00880	0.00890	88.0	34.4-121	1.11	21.2	WG742155
Pentachlorophenol	mg/l	0.00918	0.00928	92.0	17-117	1.11	34.3	WG742155
Phenanthrene	mg/l	0.00935	0.00929	93.0	41.4-134	0.580	20	WG742155
Phenol	mg/l	0.00448	0.00449	45.0	10-77.3	0.410	24.6	WG742155
Pyrene	mg/l	0.00921	0.00965	92.0	40.2-135	4.61	20	WG742155
2,4,6-Tribromophenol				84.00	21.6-154			WG742155
2-Fluorobiphenyl				90.90	34.5-133			WG742155
2-Fluorophenol				60.30	10-74.1			WG742155
Nitrobenzene-d5				87.00	28.3-123			WG742155
Phenol-d5				41.20	10-63.2			WG742155
p-Terphenyl-d14				79.80	30.4-148			WG742155
Arsenic	mg/l	1.07	1.08	107.	85-115	1.00	20	WG742241
Barium	mg/l	1.07	1.08	106.	85-115	1.00	20	WG742241
Cadmium	mg/l	1.07	1.08	107.	85-115	1.00	20	WG742241
Chromium	mg/l	1.06	1.07	106.	85-115	1.00	20	WG742241
Copper	mg/l	1.02	1.03	102.	85-115	1.00	20	WG742241
Lead	mg/l	1.07	1.08	107.	85-115	1.00	20	WG742241
Manganese	mg/l	1.08	1.08	108.	85-115	1.00	20	WG742241
Silver	mg/l	1.04	1.06	104.	85-115	1.00	20	WG742241
Zinc	mg/l	1.05	1.07	105.	85-115	1.00	20	WG742241
Selenium	mg/l	1.01	1.01	101.	85-115	0.0	20	WG742241
Arsenic, Dissolved	mg/l	1.10	1.11	110.	85-115	1.00	20	WG742505
Barium, Dissolved	mg/l	1.06	1.07	106.	85-115	1.00	20	WG742505
Cadmium, Dissolved	mg/l	1.14	1.15	114.	85-115	1.00	20	WG742505
Chromium, Dissolved	mg/l	1.09	1.10	109.	85-115	1.00	20	WG742505
Copper, Dissolved	mg/l	1.07	1.08	107.	85-115	1.00	20	WG742505
Lead, Dissolved	mg/l	1.14	1.15	114.	85-115	1.00	20	WG742505
Selenium, Dissolved	mg/l	1.08	1.09	108.	85-115	1.00	20	WG742505
Silver, Dissolved	mg/l	1.13	1.13	112.	85-115	1.00	20	WG742505
Zinc, Dissolved	mg/l	1.08	1.09	108.	85-115	1.00	20	WG742505
Manganese, Dissolved	mg/l	1.12	1.09	112.	85-115	3.00	20	WG742505

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Chromium, Hexavalent	mg/l	0.510	0.0	.5	100.	85-115	L720407-01	WG741766
1,1,1-Trichloroethane	mg/l	0.0266	0.0	.025	110.	58.7-134	L719747-15	WG742180
1,1,2,2-Tetrachloroethane	mg/l	0.0305	0.0	.025	120.	56-132	L719747-15	WG742180
1,1,2-Trichloroethane	mg/l	0.0277	0.0	.025	110.	66.3-125	L719747-15	WG742180
1,1-Dichloroethane	mg/l	0.0276	0.0	.025	110.	58.5-132	L719747-15	WG742180
1,1-Dichloroethene	mg/l	0.0262	0.0	.025	100.	51.1-140	L719747-15	WG742180
1,2-Dichlorobenzene	mg/l	0.0260	0.0	.025	100.	68.2-123	L719747-15	WG742180
1,2-Dichloroethane	mg/l	0.0290	0.0	.025	120.	60-126	L719747-15	WG742180
1,2-Dichloropropane	mg/l	0.0278	0.0	.025	110.	64.2-123	L719747-15	WG742180
1,3-Dichlorobenzene	mg/l	0.0265	0.0	.025	110.	63.1-131	L719747-15	WG742180
1,4-Dichlorobenzene	mg/l	0.0258	0.0	.025	100.	68.6-123	L719747-15	WG742180
2-Chloroethyl vinyl ether	mg/l	0.000439	0.0	.125	0.350*	10-155	L719747-15	WG742180
Acrolein	mg/l	0.154	0.0	.125	120.	10-200	L719747-15	WG742180
Acrylonitrile	mg/l	0.172	0.0	.125	140.*	49.4-133	L719747-15	WG742180
Benzene	mg/l	0.0265	0.0	.025	110.	54.3-133	L719747-15	WG742180
Bromodichloromethane	mg/l	0.0285	0.0	.025	110.	63.9-121	L719747-15	WG742180
Bromoform	mg/l	0.0309	0.0	.025	120.	59.5-134	L719747-15	WG742180

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville

501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L720416

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

September 15, 2014

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Bromomethane	mg/l	0.0235	0.0	.025	94.0	41.7-155	L719747-15	WG742180
Carbon tetrachloride	mg/l	0.0270	0.0	.025	110.	55.7-134	L719747-15	WG742180
Chlorobenzene	mg/l	0.0251	0.000647	.025	98.0	67-125	L719747-15	WG742180
Chlorodibromomethane	mg/l	0.0284	0.0	.025	110.	64.3-125	L719747-15	WG742180
Chloroethane	mg/l	0.0251	0.0	.025	100.	51.5-136	L719747-15	WG742180
Chloroform	mg/l	0.0265	0.0	.025	110.	63-129	L719747-15	WG742180
Chloromethane	mg/l	0.0263	0.0	.025	100.	42.4-135	L719747-15	WG742180
cis-1,3-Dichloropropene	mg/l	0.0269	0.0	.025	110.	66.4-125	L719747-15	WG742180
Dichlorodifluoromethane	mg/l	0.0255	0.0	.025	100.	40.6-144	L719747-15	WG742180
Ethylbenzene	mg/l	0.0250	0.0	.025	100.	61.4-133	L719747-15	WG742180
Methylene Chloride	mg/l	0.0248	0.0	.025	99.0	58.1-122	L719747-15	WG742180
Tetrachloroethene	mg/l	0.0254	0.0	.025	100.	53-139	L719747-15	WG742180
Toluene	mg/l	0.0266	0.0	.025	110.	61.4-130	L719747-15	WG742180
trans-1,2-Dichloroethene	mg/l	0.0255	0.0	.025	100.	56.5-129	L719747-15	WG742180
trans-1,3-Dichloropropene	mg/l	0.0285	0.0	.025	110.	64.1-128	L719747-15	WG742180
Trichloroethene	mg/l	0.0255	0.0	.025	100.	44.1-149	L719747-15	WG742180
Trichlorofluoromethane	mg/l	0.0269	0.0	.025	110.	49.6-145	L719747-15	WG742180
Vinyl chloride	mg/l	0.0254	0.0	.025	100.	47.8-137	L719747-15	WG742180
4-Bromofluorobenzene					96.50	71-126		WG742180
Dibromofluoromethane					99.70	78.3-121		WG742180
Toluene-d8					102.0	88.5-111		WG742180
a,a,a-Trifluorotoluene					98.10	85-114		WG742180

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Chromium, Hexavalent	mg/l	0.511	0.510	102.	85-115	0.196	20	L720407-01	WG741766
1,1,1-Trichloroethane	mg/l	0.0262	0.0266	105.	58.7-134	1.39	20	L719747-15	WG742180
1,1,2,2-Tetrachloroethane	mg/l	0.0291	0.0305	116.	56-132	4.85	22.2	L719747-15	WG742180
1,1,2-Trichloroethane	mg/l	0.0255	0.0277	102.	66.3-125	8.50	20	L719747-15	WG742180
1,1-Dichloroethane	mg/l	0.0271	0.0276	108.	58.5-132	1.62	20	L719747-15	WG742180
1,1-Dichloroethene	mg/l	0.0255	0.0262	102.	51.1-140	2.42	20.2	L719747-15	WG742180
1,2-Dichlorobenzene	mg/l	0.0257	0.0260	103.	68.2-123	1.36	20	L719747-15	WG742180
1,2-Dichloroethane	mg/l	0.0284	0.0290	114.	60-126	2.12	20	L719747-15	WG742180
1,2-Dichloropropane	mg/l	0.0278	0.0278	111.	64.2-123	0.0300	20	L719747-15	WG742180
1,3-Dichlorobenzene	mg/l	0.0250	0.0265	99.9	63.1-131	5.77	20	L719747-15	WG742180
1,4-Dichlorobenzene	mg/l	0.0254	0.0258	102.	68.6-123	1.60	20	L719747-15	WG742180
2-Chloroethyl vinyl ether	mg/l	0.000383	0.000439	0.306*	10-155	13.6	20	L719747-15	WG742180
Acrolein	mg/l	0.155	0.154	124.	10-200	0.710	27.7	L719747-15	WG742180
Acrylonitrile	mg/l	0.168	0.172	134.*	49.4-133	2.59	25.3	L719747-15	WG742180
Benzene	mg/l	0.0264	0.0265	106.	54.3-133	0.450	20	L719747-15	WG742180
Bromodichloromethane	mg/l	0.0282	0.0285	113.	63.9-121	1.22	20	L719747-15	WG742180
Bromoform	mg/l	0.0281	0.0309	112.	59.5-134	9.27	20.5	L719747-15	WG742180
Bromomethane	mg/l	0.0229	0.0235	91.4	41.7-155	2.76	21.9	L719747-15	WG742180
Carbon tetrachloride	mg/l	0.0269	0.0270	108.	55.7-134	0.240	20	L719747-15	WG742180
Chlorobenzene	mg/l	0.0234	0.0251	91.2	67-125	6.81	20	L719747-15	WG742180
Chlorodibromomethane	mg/l	0.0268	0.0284	107.	64.3-125	5.86	20.8	L719747-15	WG742180
Chloroethane	mg/l	0.0248	0.0251	99.0	51.5-136	1.38	40	L719747-15	WG742180
Chloroform	mg/l	0.0258	0.0265	103.	63-129	2.90	20	L719747-15	WG742180
Chloromethane	mg/l	0.0257	0.0263	103.	42.4-135	2.12	20	L719747-15	WG742180
cis-1,3-Dichloropropene	mg/l	0.0264	0.0269	105.	66.4-125	1.93	20	L719747-15	WG742180
Dichlorodifluoromethane	mg/l	0.0243	0.0255	97.2	40.6-144	4.81	20.2	L719747-15	WG742180
Ethylbenzene	mg/l	0.0237	0.0250	94.7	61.4-133	5.51	20	L719747-15	WG742180
Methylene Chloride	mg/l	0.0240	0.0248	96.0	58.1-122	3.22	20	L719747-15	WG742180
Tetrachloroethene	mg/l	0.0236	0.0254	94.2	53-139	7.57	20	L719747-15	WG742180
Toluene	mg/l	0.0264	0.0266	106.	61.4-130	0.880	20	L719747-15	WG742180
trans-1,2-Dichloroethene	mg/l	0.0255	0.0255	102.	56.5-129	0.0400	20	L719747-15	WG742180

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville

501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L720416

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

September 15, 2014

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
trans-1,3-Dichloropropene	mg/l	0.0282	0.0285	113.	64.1-128	1.11	20	L719747-15	WG742180
Trichloroethene	mg/l	0.0256	0.0255	102.	44.1-149	0.270	20	L719747-15	WG742180
Trichlorofluoromethane	mg/l	0.0263	0.0269	105.	49.6-145	2.32	21.2	L719747-15	WG742180
Vinyl chloride	mg/l	0.0251	0.0254	100.	47.8-137	1.15	20	L719747-15	WG742180
4-Bromofluorobenzene				91.50	71-126				WG742180
Dibromofluoromethane				101.0	78.3-121				WG742180
Toluene-d8				101.0	88.5-111				WG742180
a,a,a-Trifluorotoluene				98.30	85-114				WG742180

Batch number /Run number / Sample number cross reference

WG741766: R2987207: L720416-01
WG742180: R2988011: L720416-01
WG742155: R2988631: L720416-01
WG742241: R2988869 R2989053: L720416-01
WG742505: R2989249 R2989467: L720416-01

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville

501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L720416

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

September 15, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.



ANALYTICAL REPORT

Lab Number:	L2044112
Client:	Brown & Caldwell 101 Industrial Park Road Suite 205 Taunton, MA 02780
ATTN:	Don Podsen
Phone:	(508) 963-2041
Project Name:	CLINTON LANDFILL
Project Number:	153260.103
Report Date:	10/22/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2044112-01	MW-1_20201014	WATER	CLINTON, MA	10/14/20 12:30	10/14/20
L2044112-02	LW-1A_20201014	WATER	CLINTON, MA	10/14/20 10:10	10/14/20
L2044112-03	MW-3A_20201014	WATER	CLINTON, MA	10/14/20 14:15	10/14/20
L2044112-04	MW-4A_20201014	WATER	CLINTON, MA	10/14/20 15:00	10/14/20
L2044112-05	MW-4R_20201014	WATER	CLINTON, MA	10/14/20 10:20	10/14/20
L2044112-06	LW-5A_20201014	WATER	CLINTON, MA	10/14/20 11:50	10/14/20
L2044112-07	DUP_2021014	WATER	CLINTON, MA	10/14/20 00:00	10/14/20
L2044112-08	SW-1_20201014	WATER	CLINTON, MA	10/14/20 11:30	10/14/20
L2044112-09	SW-3_20201014	WATER	CLINTON, MA	10/14/20 14:10	10/14/20
L2044112-10	SW-7_20201014	WATER	CLINTON, MA	10/14/20 13:45	10/14/20
L2044112-11	TRIP BLANK_20201014	WATER	CLINTON, MA	10/14/20 00:00	10/14/20

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

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: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Case Narrative (continued)

Total Metals

The WG1422486-4 Laboratory Duplicate RPD for sodium (28%), performed on L2044112-08, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Dissolved Metals

The WG1422481-3 MS recovery for iron (215%), performed on L2044112-02, does not apply because the sample concentrations is greater than four times the spike amounts added.

Nitrogen, Nitrate

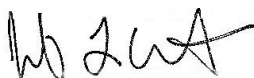
The WG1422253-4 MS recovery, performed on L2044112-03, is outside the acceptance criteria for nitrogen, nitrate (114%); however, the associated LCS recovery is within criteria. No further action was taken.

Chemical Oxygen Demand

WG1423764: A Laboratory Duplicate was not performed due to a laboratory oversight.

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:



Jennifer L Clements

Title: Technical Director/Representative

Date: 10/22/20

ORGANICS

VOLATILES

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-01
Client ID: MW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 12:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 15:38
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS****Lab ID:** L2044112-01**Date Collected:** 10/14/20 12:30**Client ID:** MW-1_20201014**Date Received:** 10/14/20**Sample Location:** CLINTON, MA**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-01
Client ID: MW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 12:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
-------------------------------------	----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	95		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-02
Client ID: LW-1A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 16:04
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	1.2		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	0.83		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	1.8		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	30		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-02
Client ID: LW-1A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-02
Client ID: LW-1A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
-------------------------------------	----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	95		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-03
Client ID: MW-3A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:15
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 16:29
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	0.98		ug/l	0.75	--	1
Chloroform	2.9		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-03
Client ID: MW-3A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:15
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-03
Client ID: MW-3A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:15
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	94		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-04
Client ID: MW-4A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 15:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 16:55
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	0.52		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-04
Client ID: MW-4A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 15:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	0.81		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	0.81		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-04
Client ID: MW-4A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 15:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	94		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-05
Client ID: MW-4R_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:20
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 17:20
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-05
Client ID: MW-4R_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:20
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-05
Client ID: MW-4R_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:20
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
-------------------------------------	----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	96		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-06
Client ID: LW-5A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:50
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 17:46
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	17		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	0.50		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	3.5		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-06
Client ID: LW-5A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:50
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-06
Client ID: LW-5A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:50
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
-------------------------------------	----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	97		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-07
Client ID: DUP_2021014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 00:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 18:12
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS****Lab ID:** L2044112-07**Date Collected:** 10/14/20 00:00**Client ID:** DUP_2021014**Date Received:** 10/14/20**Sample Location:** CLINTON, MA**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-07
Client ID: DUP_2021014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 00:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	96		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-08
Client ID: SW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 18:37
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-08
Client ID: SW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-08
Client ID: SW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	95		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-09
Client ID: SW-3_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 13:31
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-09
Client ID: SW-3_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-09
Client ID: SW-3_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
-------------------------------------	----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-10
Client ID: SW-7_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 13:45
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/15/20 13:53
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	1.2		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	1.2		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	0.57		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	5.7		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-10
Client ID: SW-7_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 13:45
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	1.7		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	1.7		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-10
Client ID: SW-7_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 13:45
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

Total TIC Compounds	1.45	J	ug/l	1
Difluorochloromethane	1.45	NJ	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-11
 Client ID: TRIP BLANK_20201014
 Sample Location: CLINTON, MA

Date Collected: 10/14/20 00:00
 Date Received: 10/14/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 10/15/20 14:15

Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-11
 Client ID: TRIP BLANK_20201014
 Sample Location: CLINTON, MA

Date Collected: 10/14/20 00:00
 Date Received: 10/14/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-11
 Client ID: TRIP BLANK_20201014
 Sample Location: CLINTON, MA

Date Collected: 10/14/20 00:00
 Date Received: 10/14/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1

Tentatively Identified Compounds

Total TIC Compounds	1.10	J	ug/l	1
Unknown	1.10	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	103		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/15/20 09:55
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-11 Batch: WG1422670-5					
Methylene chloride	ND		ug/l	3.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Chloroform	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	1.8	--
Dibromochloromethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
2-Chloroethylvinyl ether	ND		ug/l	10	--
Tetrachloroethene	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	2.5	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.5	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.5	--
Bromomethane	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/15/20 09:55
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-11 Batch: WG1422670-5					
1,2-Dichloroethene, Total	ND		ug/l	0.50	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	2.5	--
1,3-Dichlorobenzene	ND		ug/l	2.5	--
1,4-Dichlorobenzene	ND		ug/l	2.5	--
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	5.0	--
1,4-Dichlorobutane	ND		ug/l	5.0	--
Iodomethane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	5.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	5.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Ethyl methacrylate	ND		ug/l	5.0	--
Acrolein	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.5	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.5	--
1,2-Dibromoethane	ND		ug/l	2.0	--

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/15/20 09:55
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-11 Batch: WG1422670-5					
1,3-Dichloropropane	ND		ug/l	2.5	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	2.5	--
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--
Hexachlorobutadiene	ND		ug/l	0.50	--
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	2.5	--
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--
1,3,5-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Halothane	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	2.5	--
Methyl Acetate	ND		ug/l	10	--
Ethyl Acetate	ND		ug/l	10	--
Isopropyl Ether	ND		ug/l	2.0	--
Cyclohexane	ND		ug/l	10	--
Tert-Butyl Alcohol	ND		ug/l	10	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/15/20 09:55
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09-11 Batch: WG1422670-5					
1,4-Dioxane	ND		ug/l	250	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	10	--
Methyl cyclohexane	ND		ug/l	10	--
p-Diethylbenzene	ND		ug/l	2.0	--
4-Ethyltoluene	ND		ug/l	2.0	--
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	--

Tentatively Identified Compounds

Total TIC Compounds	1.09	J	ug/l
Unknown	1.09	J	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/15/20 10:08
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1422693-5					
Methylene chloride	ND		ug/l	3.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Chloroform	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	1.8	--
Dibromochloromethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
2-Chloroethylvinyl ether	ND		ug/l	10	--
Tetrachloroethene	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	2.5	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.5	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.5	--
Bromomethane	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/15/20 10:08
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1422693-5					
1,2-Dichloroethene, Total	ND		ug/l	0.50	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	2.5	--
1,3-Dichlorobenzene	ND		ug/l	2.5	--
1,4-Dichlorobenzene	ND		ug/l	2.5	--
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	5.0	--
1,4-Dichlorobutane	ND		ug/l	5.0	--
Iodomethane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	5.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	5.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Ethyl methacrylate	ND		ug/l	5.0	--
Acrolein	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.5	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.5	--
1,2-Dibromoethane	ND		ug/l	2.0	--

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/15/20 10:08
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1422693-5					
1,3-Dichloropropane	ND		ug/l	2.5	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	2.5	--
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--
Hexachlorobutadiene	ND		ug/l	0.50	--
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	2.5	--
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--
1,3,5-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Halothane	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	2.5	--
Methyl Acetate	ND		ug/l	10	--
Ethyl Acetate	ND		ug/l	10	--
Isopropyl Ether	ND		ug/l	2.0	--
Cyclohexane	ND		ug/l	10	--
Tert-Butyl Alcohol	ND		ug/l	10	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/15/20 10:08
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1422693-5					
1,4-Dioxane	ND		ug/l	250	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	10	--
Methyl cyclohexane	ND		ug/l	10	--
p-Diethylbenzene	ND		ug/l	2.0	--
4-Ethyltoluene	ND		ug/l	2.0	--
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	--

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-11 Batch: WG1422670-3 WG1422670-4								
Methylene chloride	94		93		70-130	1		20
1,1-Dichloroethane	96		94		70-130	2		20
Chloroform	99		100		70-130	1		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	98		98		70-130	0		20
Dibromochloromethane	95		94		63-130	1		20
1,1,2-Trichloroethane	95		96		70-130	1		20
2-Chloroethylvinyl ether	92		90		70-130	2		20
Tetrachloroethene	68	Q	66	Q	70-130	3		20
Chlorobenzene	100		100		75-130	0		25
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	97		99		70-130	2		20
1,1,1-Trichloroethane	100		99		67-130	1		20
Bromodichloromethane	99		97		67-130	2		20
trans-1,3-Dichloropropene	94		92		70-130	2		20
cis-1,3-Dichloropropene	96		94		70-130	2		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	89		89		54-136	0		20
1,1,2,2-Tetrachloroethane	91		92		67-130	1		20
Benzene	100		100		70-130	0		25
Toluene	100		99		70-130	1		25
Ethylbenzene	100		100		70-130	0		20
Chloromethane	98		91		64-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-11 Batch: WG1422670-3 WG1422670-4								
Bromomethane	120		120		39-139	0		20
Vinyl chloride	100		97		55-140	3		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	92		91		61-145	1		25
trans-1,2-Dichloroethene	98		94		70-130	4		20
Trichloroethene	99		98		70-130	1		25
1,2-Dichlorobenzene	110		100		70-130	10		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	90		87		63-130	3		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	96		99		70-130	3		20
Dibromomethane	92		95		70-130	3		20
1,4-Dichlorobutane	91		90		70-130	1		20
Iodomethane	57	Q	58	Q	70-130	2		20
1,2,3-Trichloropropane	90		89		64-130	1		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	95		95		36-147	0		20
Acetone	88		88		58-148	0		20
Carbon disulfide	96		94		51-130	2		20
2-Butanone	65		75		63-138	14		20
Vinyl acetate	110		100		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-11 Batch: WG1422670-3 WG1422670-4								
4-Methyl-2-pentanone	78		76		59-130	3		20
2-Hexanone	77		77		57-130	0		20
Ethyl methacrylate	81		83		70-130	2		20
Acrolein	70		75		70-130	7		20
Acrylonitrile	75		73		70-130	3		20
Bromochloromethane	94		99		70-130	5		20
Tetrahydrofuran	90		90		58-130	0		20
2,2-Dichloropropane	100		97		63-133	3		20
1,2-Dibromoethane	94		94		70-130	0		20
1,3-Dichloropropane	94		95		70-130	1		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	110		100		70-130	10		20
n-Butylbenzene	110		100		53-136	10		20
sec-Butylbenzene	110		100		70-130	10		20
tert-Butylbenzene	100		96		70-130	4		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	110		100		70-130	10		20
1,2-Dibromo-3-chloropropane	81		81		41-144	0		20
Hexachlorobutadiene	98		99		63-130	1		20
Isopropylbenzene	110		100		70-130	10		20
p-Isopropyltoluene	110		100		70-130	10		20
Naphthalene	89		89		70-130	0		20
n-Propylbenzene	110		100		69-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-11 Batch: WG1422670-3 WG1422670-4								
1,2,3-Trichlorobenzene	99		96		70-130	3		20
1,2,4-Trichlorobenzene	100		98		70-130	2		20
1,3,5-Trimethylbenzene	110		100		64-130	10		20
1,3,5-Trichlorobenzene	110		100		70-130	10		20
1,2,4-Trimethylbenzene	110		100		70-130	10		20
trans-1,4-Dichloro-2-butene	85		85		70-130	0		20
Halothane	96		95		70-130	1		20
Ethyl ether	90		90		59-134	0		20
Methyl Acetate	78		81		70-130	4		20
Ethyl Acetate	83		84		70-130	1		20
Isopropyl Ether	95		98		70-130	3		20
Cyclohexane	91		90		70-130	1		20
Tert-Butyl Alcohol	68	Q	70		70-130	3		20
Ethyl-Tert-Butyl-Ether	93		89		70-130	4		20
Tertiary-Amyl Methyl Ether	91		92		66-130	1		20
1,4-Dioxane	90		90		56-162	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	96		99		70-130	3		20
Methyl cyclohexane	96		95		70-130	1		20
p-Diethylbenzene	110		100		70-130	10		20
4-Ethyltoluene	110		100		70-130	10		20
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CLINTON LANDFILL

Lab Number: L2044112

Project Number: 153260.103

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09-11 Batch: WG1422670-3 WG1422670-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		97		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	102		99		70-130
Dibromofluoromethane	100		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1422693-3 WG1422693-4								
Methylene chloride	99		100		70-130	1		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	100		110		63-132	10		20
1,2-Dichloropropane	100		110		70-130	10		20
Dibromochloromethane	90		95		63-130	5		20
1,1,2-Trichloroethane	87		92		70-130	6		20
2-Chloroethylvinyl ether	72		68	Q	70-130	6		20
Tetrachloroethene	100		110		70-130	10		20
Chlorobenzene	100		110		75-130	10		25
Trichlorofluoromethane	100		110		62-150	10		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	100		110		67-130	10		20
Bromodichloromethane	99		100		67-130	1		20
trans-1,3-Dichloropropene	97		99		70-130	2		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	100		110		70-130	10		20
Bromoform	86		92		54-136	7		20
1,1,2,2-Tetrachloroethane	82		85		67-130	4		20
Benzene	100		110		70-130	10		25
Toluene	100		110		70-130	10		25
Ethylbenzene	100		110		70-130	10		20
Chloromethane	97		110		64-130	13		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1422693-3 WG1422693-4								
Bromomethane	50		64		39-139	25	Q	20
Vinyl chloride	97		100		55-140	3		20
Chloroethane	110		120		55-138	9		20
1,1-Dichloroethene	96		100		61-145	4		25
trans-1,2-Dichloroethene	100		110		70-130	10		20
Trichloroethene	100		110		70-130	10		25
1,2-Dichlorobenzene	99		110		70-130	11		20
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		110		70-130	10		20
Methyl tert butyl ether	94		96		63-130	2		20
p/m-Xylene	105		110		70-130	5		20
o-Xylene	100		110		70-130	10		20
cis-1,2-Dichloroethene	100		110		70-130	10		20
Dibromomethane	94		94		70-130	0		20
1,4-Dichlorobutane	93		99		70-130	6		20
Iodomethane	48	Q	73		70-130	41	Q	20
1,2,3-Trichloropropane	94		91		64-130	3		20
Styrene	100		110		70-130	10		20
Dichlorodifluoromethane	90		98		36-147	9		20
Acetone	97		96		58-148	1		20
Carbon disulfide	96		100		51-130	4		20
2-Butanone	85		96		63-138	12		20
Vinyl acetate	93		94		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1422693-3 WG1422693-4								
4-Methyl-2-pentanone	76		75		59-130	1		20
2-Hexanone	82		81		57-130	1		20
Ethyl methacrylate	81		82		70-130	1		20
Acrolein	70		65	Q	70-130	7		20
Acrylonitrile	91		94		70-130	3		20
Bromochloromethane	110		110		70-130	0		20
Tetrahydrofuran	89		86		58-130	3		20
2,2-Dichloropropane	110		120		63-133	9		20
1,2-Dibromoethane	88		91		70-130	3		20
1,3-Dichloropropane	93		97		70-130	4		20
1,1,1,2-Tetrachloroethane	100		110		64-130	10		20
Bromobenzene	100		110		70-130	10		20
n-Butylbenzene	96		110		53-136	14		20
sec-Butylbenzene	96		110		70-130	14		20
tert-Butylbenzene	98		110		70-130	12		20
o-Chlorotoluene	98		110		70-130	12		20
p-Chlorotoluene	100		110		70-130	10		20
1,2-Dibromo-3-chloropropane	71		73		41-144	3		20
Hexachlorobutadiene	94		110		63-130	16		20
Isopropylbenzene	98		110		70-130	12		20
p-Isopropyltoluene	97		110		70-130	13		20
Naphthalene	79		84		70-130	6		20
n-Propylbenzene	99		110		69-130	11		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1422693-3 WG1422693-4								
1,2,3-Trichlorobenzene	88		98		70-130	11		20
1,2,4-Trichlorobenzene	98		100		70-130	2		20
1,3,5-Trimethylbenzene	100		110		64-130	10		20
1,3,5-Trichlorobenzene	100		110		70-130	10		20
1,2,4-Trimethylbenzene	100		110		70-130	10		20
trans-1,4-Dichloro-2-butene	68	Q	69	Q	70-130	1		20
Halothane	96		100		70-130	4		20
Ethyl ether	96		98		59-134	2		20
Methyl Acetate	90		87		70-130	3		20
Ethyl Acetate	96		95		70-130	1		20
Isopropyl Ether	110		110		70-130	0		20
Cyclohexane	100		110		70-130	10		20
Tert-Butyl Alcohol	88		90		70-130	2		20
Ethyl-Tert-Butyl-Ether	100		110		70-130	10		20
Tertiary-Amyl Methyl Ether	94		95		66-130	1		20
1,4-Dioxane	84		94		56-162	11		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		110		70-130	10		20
Methyl cyclohexane	93		100		70-130	7		20
p-Diethylbenzene	96		110		70-130	14		20
4-Ethyltoluene	100		110		70-130	10		20
1,2,4,5-Tetramethylbenzene	97		110		70-130	13		20

Lab Control Sample Analysis**Batch Quality Control****Project Name:** CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20

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

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1422693-3 WG1422693-4

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		91		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	94		95		70-130
Dibromofluoromethane	97		96		70-130

SEMIVOLATILES

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-01
Client ID: MW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 12:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/21/20 18:06
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	36			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-02
Client ID: LW-1A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/21/20 18:43
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	4340		ng/l	142	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	31			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-03
Client ID: MW-3A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:15
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 12:06
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	333.		ng/l	144	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	34			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-04
Client ID: MW-4A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 15:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 08:23
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	5130		ng/l	144	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	36			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-05
Client ID: MW-4R_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:20
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 08:53
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	--	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			34		15-110	

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-06
Client ID: LW-5A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:50
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 09:22
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	139	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	32			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-07
Client ID: DUP_2021014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 00:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 09:54
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	139	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	31			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-08
Client ID: SW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 10:25
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	139	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	43			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-09
Client ID: SW-3_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 10:58
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	358.		ng/l	139	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	47			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-10
Client ID: SW-7_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 13:45
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/22/20 11:32
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	7180		ng/l	139	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	47			15-110		

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 10/21/20 08:20
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 10/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-10 Batch: WG1423781-1					
1,4-Dioxane	ND		ng/l	150	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	28		15-110

Lab Control Sample Analysis Batch Quality Control

Project Name: CLINTON LANDFILL

Lab Number: L2044112

Project Number: 153260.103

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-10 Batch: WG1423781-2 WG1423781-3								
1,4-Dioxane	96		97		40-140	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	30		30		15-110

METALS

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-01

Date Collected: 10/14/20 12:30

Client ID: MW-1_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Barium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Calcium, Dissolved	21.1		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Iron, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Manganese, Dissolved	0.014		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:32	EPA 7470A	1,7470A	EW
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Sodium, Dissolved	5.55		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:45	EPA 3005A	1,6010D	PS



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-02

Date Collected: 10/14/20 10:10

Client ID: LW-1A_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	0.215		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Barium, Dissolved	0.039		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Calcium, Dissolved	37.6		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Iron, Dissolved	58.4		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Manganese, Dissolved	2.75		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:39	EPA 7470A	1,7470A	EW
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Sodium, Dissolved	74.1		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:26	EPA 3005A	1,6010D	PS



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-03

Date Collected: 10/14/20 14:15

Client ID: MW-3A_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Barium, Dissolved	0.024		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Calcium, Dissolved	16.8		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Iron, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Manganese, Dissolved	0.183		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:46	EPA 7470A	1,7470A	EW
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Sodium, Dissolved	24.8		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:49	EPA 3005A	1,6010D	PS



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-04

Date Collected: 10/14/20 15:00

Client ID: MW-4A_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Barium, Dissolved	0.012		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Calcium, Dissolved	24.6		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Iron, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Manganese, Dissolved	14.3		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:49	EPA 7470A	1,7470A	EW
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Sodium, Dissolved	34.2		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:54	EPA 3005A	1,6010D	PS



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-05

Date Collected: 10/14/20 10:20

Client ID: MW-4R_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	0.019		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Barium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Calcium, Dissolved	19.0		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Iron, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Manganese, Dissolved	0.196		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:51	EPA 7470A	1,7470A	EW
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Sodium, Dissolved	11.3		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:59	EPA 3005A	1,6010D	PS



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-06

Date Collected: 10/14/20 11:50

Client ID: LW-5A_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Barium, Dissolved	0.115		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Calcium, Dissolved	19.8		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Iron, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Manganese, Dissolved	0.069		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:53	EPA 7470A	1,7470A	EW
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Sodium, Dissolved	165		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 17:04	EPA 3005A	1,6010D	PS



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-07

Date Collected: 10/14/20 00:00

Client ID: DUP_2021014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	0.006		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Barium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Calcium, Dissolved	21.4		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Iron, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Manganese, Dissolved	0.014		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:55	EPA 7470A	1,7470A	EW
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Sodium, Dissolved	5.47		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 17:09	EPA 3005A	1,6010D	PS



Project Name: CLINTON LANDFILL

Lab Number: L2044112

Project Number: 153260.103

Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-08

Date Collected: 10/14/20 11:30

Client ID: SW-1_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	ND		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Barium, Total	0.011		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Cadmium, Total	ND		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Calcium, Total	10.6		mg/l	0.100	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Chromium, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Copper, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Iron, Total	0.309		mg/l	0.050	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Lead, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Manganese, Total	0.047		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Mercury, Total	ND		mg/l	0.00020	--	1	10/16/20 10:30	10/16/20 16:25	EPA 7470A	1,7470A	EW
Selenium, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Silver, Total	ND		mg/l	0.007	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Sodium, Total	28.7		mg/l	2.00	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD
Zinc, Total	ND		mg/l	0.050	--	1	10/16/20 08:14	10/20/20 14:23	EPA 3005A	1,6010D	GD



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-09

Date Collected: 10/14/20 14:10

Client ID: SW-3_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.026		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Barium, Total	0.033		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Cadmium, Total	ND		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Calcium, Total	23.0		mg/l	0.100	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Chromium, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Copper, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Iron, Total	4.87		mg/l	0.050	--	1	10/16/20 08:14	10/20/20 22:18	EPA 3005A	1,6010D	BV
Lead, Total	0.016		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Manganese, Total	1.84		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Mercury, Total	ND		mg/l	0.00020	--	1	10/16/20 10:30	10/16/20 16:11	EPA 7470A	1,7470A	EW
Selenium, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Silver, Total	ND		mg/l	0.007	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Sodium, Total	33.4		mg/l	2.00	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV
Zinc, Total	ND		mg/l	0.050	--	1	10/16/20 08:14	10/20/20 20:59	EPA 3005A	1,6010D	BV



Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**SAMPLE RESULTS**

Lab ID: L2044112-10

Date Collected: 10/14/20 13:45

Client ID: SW-7_20201014

Date Received: 10/14/20

Sample Location: CLINTON, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.440		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Barium, Total	0.022		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Cadmium, Total	ND		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Calcium, Total	28.3		mg/l	0.100	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Chromium, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Copper, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Iron, Total	53.9		mg/l	0.050	--	1	10/16/20 08:14	10/20/20 22:23	EPA 3005A	1,6010D	BV
Lead, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Manganese, Total	7.86		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Mercury, Total	ND		mg/l	0.00020	--	1	10/16/20 10:30	10/16/20 16:29	EPA 7470A	1,7470A	EW
Selenium, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Silver, Total	ND		mg/l	0.007	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Sodium, Total	34.3		mg/l	2.00	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV
Zinc, Total	ND		mg/l	0.050	--	1	10/16/20 08:14	10/20/20 21:04	EPA 3005A	1,6010D	BV



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-07 Batch: WG1422481-1										
Arsenic, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Barium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Cadmium, Dissolved	ND		mg/l	0.005	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Calcium, Dissolved	ND		mg/l	0.100	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Chromium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Copper, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Iron, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Lead, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Manganese, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Selenium, Dissolved	ND		mg/l	0.010	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Silver, Dissolved	ND		mg/l	0.007	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Sodium, Dissolved	ND		mg/l	2.00	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS
Zinc, Dissolved	ND		mg/l	0.050	--	1	10/19/20 09:46	10/21/20 15:16	1,6010D	PS

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-07 Batch: WG1422482-1										
Mercury, Dissolved	ND		mg/l	0.00020	--	1	10/19/20 09:53	10/20/20 12:28	1,7470A	EW

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08-10 Batch: WG1422486-1										
Arsenic, Total	ND		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Barium, Total	ND		mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Cadmium, Total	ND		mg/l	0.005	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD



Project Name: CLINTON LANDFILL

Lab Number: L2044112

Project Number: 153260.103

Report Date: 10/22/20

Method Blank Analysis Batch Quality Control

Calcium, Total	ND	mg/l	0.100	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Chromium, Total	ND	mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Copper, Total	ND	mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Iron, Total	ND	mg/l	0.050	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Lead, Total	ND	mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Manganese, Total	ND	mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Selenium, Total	ND	mg/l	0.010	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Silver, Total	ND	mg/l	0.007	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Sodium, Total	ND	mg/l	2.00	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD
Zinc, Total	ND	mg/l	0.050	--	1	10/16/20 08:14	10/20/20 14:09	1,6010D	GD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08-10 Batch: WG1422487-1										
Mercury, Total	ND		mg/l	0.00020	--	1	10/16/20 10:30	10/16/20 16:02	1,7470A	EW

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1422481-2								
Arsenic, Dissolved	108		-		80-120	-		
Barium, Dissolved	102		-		80-120	-		
Cadmium, Dissolved	110		-		80-120	-		
Calcium, Dissolved	104		-		80-120	-		
Chromium, Dissolved	103		-		80-120	-		
Copper, Dissolved	104		-		80-120	-		
Iron, Dissolved	99		-		80-120	-		
Lead, Dissolved	108		-		80-120	-		
Manganese, Dissolved	101		-		80-120	-		
Selenium, Dissolved	108		-		80-120	-		
Silver, Dissolved	105		-		80-120	-		
Sodium, Dissolved	107		-		80-120	-		
Zinc, Dissolved	110		-		80-120	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1422482-2								
Mercury, Dissolved	91		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-10 Batch: WG1422486-2					
Arsenic, Total	116	-	80-120	-	
Barium, Total	102	-	80-120	-	
Cadmium, Total	113	-	80-120	-	
Calcium, Total	103	-	80-120	-	
Chromium, Total	102	-	80-120	-	
Copper, Total	104	-	80-120	-	
Iron, Total	101	-	80-120	-	
Lead, Total	113	-	80-120	-	
Manganese, Total	99	-	80-120	-	
Selenium, Total	112	-	80-120	-	
Silver, Total	105	-	80-120	-	
Sodium, Total	106	-	80-120	-	
Zinc, Total	109	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 08-10 Batch: WG1422487-2					
Mercury, Total	104	-	80-120	-	

Matrix Spike Analysis **Batch Quality Control**

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1422481-3 QC Sample: L2044112-02 Client ID: LW-1A_20201014												
Arsenic, Dissolved	0.215	0.24	0.492	115		-	-		75-125	-		20
Barium, Dissolved	0.039	4	4.23	105		-	-		75-125	-		20
Cadmium, Dissolved	ND	0.102	0.114	112		-	-		75-125	-		20
Calcium, Dissolved	37.6	20	60.0	112		-	-		75-125	-		20
Chromium, Dissolved	ND	0.4	0.423	106		-	-		75-125	-		20
Copper, Dissolved	ND	0.5	0.523	105		-	-		75-125	-		20
Iron, Dissolved	58.4	2	62.7	215	Q	-	-		75-125	-		20
Lead, Dissolved	ND	1.02	1.10	108		-	-		75-125	-		20
Manganese, Dissolved	2.75	1	3.86	111		-	-		75-125	-		20
Selenium, Dissolved	ND	0.24	0.262	109		-	-		75-125	-		20
Silver, Dissolved	ND	0.1	0.108	108		-	-		75-125	-		20
Sodium, Dissolved	74.1	20	98.7	123		-	-		75-125	-		20
Zinc, Dissolved	ND	1	1.13	113		-	-		75-125	-		20

Dissolved Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1422482-3 QC Sample: L2044112-01 Client ID: MW-1_20201014

Mercury, Dissolved	ND	0.005	0.00460	92		-	-		75-125	-		20
--------------------	----	-------	---------	----	--	---	---	--	--------	---	--	----

Matrix Spike Analysis **Batch Quality Control**

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

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): 08-10 QC Batch ID: WG1422486-3 QC Sample: L2044112-08 Client ID: SW-1_20201014									
Arsenic, Total	ND	0.12	0.137	114	-	-	75-125	-	20
Barium, Total	0.011	2	2.02	100	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.056	109	-	-	75-125	-	20
Calcium, Total	10.6	10	20.0	94	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.204	102	-	-	75-125	-	20
Copper, Total	ND	0.25	0.264	106	-	-	75-125	-	20
Iron, Total	0.309	1	1.30	99	-	-	75-125	-	20
Lead, Total	ND	0.51	0.551	108	-	-	75-125	-	20
Manganese, Total	0.047	0.5	0.538	98	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.132	110	-	-	75-125	-	20
Silver, Total	ND	0.05	0.052	104	-	-	75-125	-	20
Sodium, Total	28.7	10	37.1	84	-	-	75-125	-	20
Zinc, Total	ND	0.5	0.544	109	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 08-10 QC Batch ID: WG1422487-3 QC Sample: L2044112-09 Client ID: SW-3_20201014									
Mercury, Total	ND	0.005	0.00501	100	-	-	75-125	-	20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1422481-4 QC Sample: L2044112-02 Client ID: LW-1A_20201014						
Arsenic, Dissolved	0.215	0.223	mg/l	4		20
Barium, Dissolved	0.039	0.040	mg/l	3		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Calcium, Dissolved	37.6	38.7	mg/l	3		20
Chromium, Dissolved	ND	ND	mg/l	NC		20
Copper, Dissolved	ND	ND	mg/l	NC		20
Iron, Dissolved	58.4	60.8	mg/l	4		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Manganese, Dissolved	2.75	2.84	mg/l	3		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Sodium, Dissolved	74.1	75.7	mg/l	2		20
Zinc, Dissolved	ND	ND	mg/l	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1422482-4 QC Sample: L2044112-01 Client ID: MW-1_20201014						
Mercury, Dissolved	ND	ND	mg/l	NC		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-10 QC Batch ID: WG1422486-4 QC Sample: L2044112-08 Client ID: SW-1_20201014					
Arsenic, Total	ND	ND	mg/l	NC	20
Barium, Total	0.011	0.011	mg/l	1	20
Cadmium, Total	ND	ND	mg/l	NC	20
Calcium, Total	10.6	10.8	mg/l	2	20
Chromium, Total	ND	ND	mg/l	NC	20
Copper, Total	ND	ND	mg/l	NC	20
Iron, Total	0.309	0.325	mg/l	5	20
Lead, Total	ND	ND	mg/l	NC	20
Manganese, Total	0.047	0.047	mg/l	0	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	28.7	38.1	mg/l	28	Q 20
Zinc, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 08-10 QC Batch ID: WG1422487-4 QC Sample: L2044112-09 Client ID: SW-3_20201014					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS & MISCELLANEOUS

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-01
Client ID: MW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 12:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	45.1		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	68.		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:59	1,9010C/9012B	AG
Chloride	19.		mg/l	1.0	--	1	-	10/15/20 08:25	1,9251	MR
Nitrogen, Nitrate	0.768		mg/l	0.100	--	1	-	10/15/20 08:55	121,4500NO3-F	MR
Sulfate	ND		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	ND		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:30	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-02
Client ID: LW-1A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	266.		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	420		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 16:00	1,9010C/9012B	AG
Chloride	120		mg/l	10	--	10	-	10/15/20 08:27	1,9251	MR
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	10/15/20 08:56	121,4500NO3-F	MR
Sulfate	18.		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	94.		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:30	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-03
Client ID: MW-3A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:15
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	28.7		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	140		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:45	1,9010C/9012B	AG
Chloride	50.		mg/l	1.0	--	1	-	10/15/20 08:29	1,9251	MR
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	10/15/20 09:01	121,4500NO3-F	MR
Sulfate	22.		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	ND		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:30	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-04
Client ID: MW-4A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 15:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	80.9		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	220		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	0.008		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:46	1,9010C/9012B	AG
Chloride	87.		mg/l	1.0	--	1	-	10/15/20 08:32	1,9251	MR
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	10/15/20 10:33	121,4500NO3-F	MR
Sulfate	ND		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	58.		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:30	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-05
Client ID: MW-4R_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 10:20
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	61.7		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	67.		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:47	1,9010C/9012B	AG
Chloride	12.		mg/l	1.0	--	1	-	10/15/20 08:32	1,9251	MR
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	10/15/20 09:06	121,4500NO3-F	MR
Sulfate	11.		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	ND		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:31	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-06
Client ID: LW-5A_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:50
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	13.4		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	430		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:48	1,9010C/9012B	AG
Chloride	260		mg/l	10	--	10	-	10/15/20 08:57	1,9251	MR
Nitrogen, Nitrate	2.23		mg/l	0.100	--	1	-	10/15/20 09:08	121,4500NO3-F	MR
Sulfate	37.		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	35.		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:31	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-07
Client ID: DUP_2021014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 00:00
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	44.7		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	75.		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:49	1,9010C/9012B	AG
Chloride	18.		mg/l	1.0	--	1	-	10/15/20 08:58	1,9251	MR
Nitrogen, Nitrate	0.738		mg/l	0.100	--	1	-	10/15/20 09:09	121,4500NO3-F	MR
Sulfate	ND		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	35.		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:31	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-08
Client ID: SW-1_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 11:30
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	16.5		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	140		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:50	1,9010C/9012B	AG
Chloride	54.		mg/l	1.0	--	1	-	10/15/20 08:35	1,9251	MR
Nitrogen, Nitrate	0.606		mg/l	0.100	--	1	-	10/15/20 09:10	121,4500NO3-F	MR
Sulfate	15.		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	37.		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:31	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-09
Client ID: SW-3_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 14:10
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	28.9		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	230		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:53	1,9010C/9012B	AG
Chloride	63.		mg/l	1.0	--	1	-	10/15/20 08:35	1,9251	MR
Nitrogen, Nitrate	8.49		mg/l	0.500	--	5	-	10/15/20 10:35	121,4500NO3-F	MR
Sulfate	33.		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	310		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:31	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

SAMPLE RESULTS

Lab ID: L2044112-10
Client ID: SW-7_20201014
Sample Location: CLINTON, MA

Date Collected: 10/14/20 13:45
Date Received: 10/14/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	186.		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
Solids, Total Dissolved	220		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:54	1,9010C/9012B	AG
Chloride	68.		mg/l	1.0	--	1	-	10/15/20 08:59	1,9251	MR
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	10/15/20 10:37	121,4500NO3-F	MR
Sulfate	ND		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
Chemical Oxygen Demand	33.		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:31	121,5220D	TL



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

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): 01-10 Batch: WG1422253-1										
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	10/15/20 07:09	121,4500NO3-F	MR
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1422258-1										
Chloride	ND		mg/l	1.0	--	1	-	10/15/20 07:55	1,9251	MR
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1422293-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	10/15/20 07:18	121,2320B	BR
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1422311-1										
Sulfate	ND		mg/l	10	--	1	10/15/20 09:44	10/15/20 09:44	1,9038	JB
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1423764-1										
Chemical Oxygen Demand	ND		mg/l	20	--	1	10/19/20 17:10	10/19/20 19:30	121,5220D	TL
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1423948-1										
Solids, Total Dissolved	ND		mg/l	10	--	1	-	10/20/20 08:50	121,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1424110-1										
Cyanide, Total	ND		mg/l	0.005	--	1	10/20/20 11:20	10/20/20 15:31	1,9010C/9012B	AG

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON LANDFILL

Project Number: 153260.103

Lab Number: L2044112

Report Date: 10/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1422253-2								
Nitrogen, Nitrate	103		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1422258-2								
Chloride	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1422293-2								
Alkalinity, Total	102		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1422311-2								
Sulfate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1423764-2								
Chemical Oxygen Demand	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1423948-2								
Solids, Total Dissolved	85		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1424110-2 WG1424110-3								
Cyanide, Total	103		96		85-115	7		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

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): 01-10 QC Batch ID: WG1422253-4 QC Sample: L2044112-03 Client ID: MW-3A_20201014												
Nitrogen, Nitrate	ND	4	4.58	114	Q	-	-		83-113	-		17
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1422258-4 QC Sample: L2044112-03 Client ID: MW-3A_20201014												
Chloride	50	20	68	90		-	-		58-140	-		7
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1422293-4 QC Sample: L2044112-04 Client ID: MW-4A_20201014												
Alkalinity, Total	80.9	100	182	101		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1422311-4 QC Sample: L2044112-01 Client ID: MW-1_20201014												
Sulfate	ND	20	28	140		-	-		55-147	-		14
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1423764-3 QC Sample: L2044112-01 Client ID: MW-1_20201014												
Chemical Oxygen Demand	ND	238	250	105		-	-		84-120	-		12
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1424110-4 WG1424110-5 QC Sample: L2044112-01 Client ID: MW-1_20201014												
Cyanide, Total	ND	0.2	0.186	93		0.182	91		80-120	2		20

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L2044112
Report Date: 10/22/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-10	QC Batch ID: WG1422253-3	QC Sample: L2044112-03	Client ID: MW-3A_20201014		
Nitrogen, Nitrate	ND	ND	mg/l	NC		17
General Chemistry - Westborough Lab	Associated sample(s): 01-10	QC Batch ID: WG1422258-3	QC Sample: L2044112-03	Client ID: MW-3A_20201014		
Chloride	50	51	mg/l	2		7
General Chemistry - Westborough Lab	Associated sample(s): 01-10	QC Batch ID: WG1422293-3	QC Sample: L2044112-03	Client ID: MW-3A_20201014		
Alkalinity, Total	28.7	28.4	mg CaCO3/L	1		10
General Chemistry - Westborough Lab	Associated sample(s): 01-10	QC Batch ID: WG1422311-3	QC Sample: L2044112-01	Client ID: MW-1_20201014		
Sulfate	ND	ND	mg/l	NC		14
General Chemistry - Westborough Lab	Associated sample(s): 01-10	QC Batch ID: WG1423948-3	QC Sample: L2044112-01	Client ID: MW-1_20201014		
Solids, Total Dissolved	68	65	mg/l	5		10

Project Name: CLINTON LANDFILL**Lab Number:** L2044112**Project Number:** 153260.103**Report Date:** 10/22/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

B Absent

C Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2044112-01A	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-01B	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-01C	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-01D	Plastic 120ml H2SO4 preserved	C	<2	<2	4.8	Y	Absent		COD-5220(28)
L2044112-01E	Plastic 250ml unpreserved/No Headspace	C	NA		4.8	Y	Absent		ALK-T-2320(14)
L2044112-01F	Plastic 250ml unpreserved	C	7	7	4.8	Y	Absent		-
L2044112-01G	Plastic 250ml NaOH preserved	C	>12	>12	4.8	Y	Absent		TCN-9010(14)
L2044112-01H	Amber 500ml unpreserved	C	7	7	4.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-01I	Amber 500ml unpreserved	C	7	7	4.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-01J	Plastic 950ml unpreserved	C	7	7	4.8	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)
L2044112-01X	Plastic 120ml HNO3 preserved Filtrates	C	NA		4.8	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),NA-SI(180),AG-SI(180),AS-SI(180),CU-SI(180),MN-SI(180),CD-SI(180),CR-SI(180),SE-SI(180),ZN-SI(180),HG-S(28),CA-SI(180)
L2044112-02A	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-02B	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-02C	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-02D	Plastic 120ml H2SO4 preserved	B	<2	<2	5.7	Y	Absent		COD-5220(28)
L2044112-02E	Plastic 250ml unpreserved/No Headspace	B	NA		5.7	Y	Absent		ALK-T-2320(14)
L2044112-02F	Plastic 250ml unpreserved	B	7	7	5.7	Y	Absent		-
L2044112-02G	Plastic 250ml NaOH preserved	B	>12	>12	5.7	Y	Absent		TCN-9010(14)
L2044112-02H	Amber 500ml unpreserved	B	7	7	5.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Serial_No:10222014:34
Lab Number: L2044112
Report Date: 10/22/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2044112-02I	Amber 500ml unpreserved	B	7	7	5.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-02J	Plastic 950ml unpreserved	B	7	7	5.7	Y	Absent		SO4-9038(28),CL-9251(28),NO3-4500(2),TDS-2540(7)
L2044112-02X	Plastic 120ml HNO3 preserved Filtrates	B	NA		5.7	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),MN-SI(180),AS-SI(180),AG-SI(180),CU-SI(180),NA-SI(180),CD-SI(180),CR-SI(180),SE-SI(180),CA-SI(180),HG-S(28),ZN-SI(180)
L2044112-03A	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-03B	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-03C	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-03D	Plastic 120ml H2SO4 preserved	B	<2	<2	5.7	Y	Absent		COD-5220(28)
L2044112-03E	Plastic 250ml unpreserved/No Headspace	B	NA		5.7	Y	Absent		ALK-T-2320(14)
L2044112-03F	Plastic 250ml unpreserved	B	7	7	5.7	Y	Absent		-
L2044112-03G	Plastic 250ml NaOH preserved	B	>12	>12	5.7	Y	Absent		TCN-9010(14)
L2044112-03H	Amber 500ml unpreserved	B	7	7	5.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-03I	Amber 500ml unpreserved	B	7	7	5.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-03J	Plastic 950ml unpreserved	B	7	7	5.7	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)
L2044112-03X	Plastic 120ml HNO3 preserved Filtrates	B	NA		5.7	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),MN-SI(180),CU-SI(180),AG-SI(180),AS-SI(180),NA-SI(180),CD-SI(180),CR-SI(180),ZN-SI(180),SE-SI(180),CA-SI(180),HG-S(28)
L2044112-04A	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-04B	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-04C	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-04D	Plastic 120ml H2SO4 preserved	C	<2	<2	4.8	Y	Absent		COD-5220(28)
L2044112-04E	Plastic 250ml unpreserved/No Headspace	C	NA		4.8	Y	Absent		ALK-T-2320(14)
L2044112-04F	Plastic 250ml unpreserved	C	7	7	4.8	Y	Absent		-
L2044112-04G	Plastic 250ml NaOH preserved	C	>12	>12	4.8	Y	Absent		TCN-9010(14)
L2044112-04H	Amber 500ml unpreserved	C	7	7	4.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-04I	Amber 500ml unpreserved	C	7	7	4.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-04J	Plastic 950ml unpreserved	C	7	7	4.8	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Serial_No:10222014:34
Lab Number: L2044112
Report Date: 10/22/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2044112-04X	Plastic 120ml HNO3 preserved Filtrates	C	NA		4.8	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),MN-SI(180),NA-SI(180),AS-SI(180),AG-SI(180),CU-SI(180),CD-SI(180),CR-SI(180),ZN-SI(180),CA-SI(180),HG-S(28),SE-SI(180)
L2044112-05A	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-05B	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-05C	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-05D	Plastic 120ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		COD-5220(28)
L2044112-05E	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2044112-05F	Plastic 250ml unpreserved	A	7	7	3.4	Y	Absent		-
L2044112-05G	Plastic 250ml NaOH preserved	A	>12	>12	3.4	Y	Absent		TCN-9010(14)
L2044112-05H	Amber 500ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-05I	Amber 500ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-05J	Plastic 950ml unpreserved	A	7	7	3.4	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)
L2044112-05X	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.4	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),AS-SI(180),CU-SI(180),AG-SI(180),NA-SI(180),MN-SI(180),CD-SI(180),CR-SI(180),SE-SI(180),ZN-SI(180),CA-SI(180),HG-S(28)
L2044112-06A	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-06B	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-06C	Vial HCl preserved	B	NA		5.7	Y	Absent		8260(14)
L2044112-06D	Plastic 120ml H2SO4 preserved	B	<2	<2	5.7	Y	Absent		COD-5220(28)
L2044112-06E	Plastic 250ml unpreserved/No Headspace	B	NA		5.7	Y	Absent		ALK-T-2320(14)
L2044112-06F	Plastic 250ml unpreserved	B	7	7	5.7	Y	Absent		-
L2044112-06G	Plastic 250ml NaOH preserved	B	>12	>12	5.7	Y	Absent		TCN-9010(14)
L2044112-06H	Amber 500ml unpreserved	B	7	7	5.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-06I	Amber 500ml unpreserved	B	7	7	5.7	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-06J	Plastic 950ml unpreserved	B	7	7	5.7	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Serial_No:10222014:34
Lab Number: L2044112
Report Date: 10/22/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2044112-06X	Plastic 120ml HNO3 preserved Filtrates	B	NA		5.7	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),NA-SI(180),AG-SI(180),AS-SI(180),MN-SI(180),CU-SI(180),CD-SI(180),CR-SI(180),HG-S(28),ZN-SI(180),CA-SI(180),SE-SI(180)
L2044112-07A	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-07B	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-07C	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-07D	Plastic 120ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		COD-5220(28)
L2044112-07E	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2044112-07F	Plastic 250ml unpreserved	A	7	7	3.4	Y	Absent		-
L2044112-07G	Plastic 250ml NaOH preserved	A	>12	>12	3.4	Y	Absent		TCN-9010(14)
L2044112-07H	Amber 500ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-07I	Amber 500ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-07J	Plastic 950ml unpreserved	A	7	7	3.4	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)
L2044112-07X	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.4	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),MN-SI(180),AS-SI(180),AG-SI(180),CU-SI(180),NA-SI(180),CD-SI(180),CR-SI(180),SE-SI(180),ZN-SI(180),HG-S(28),CA-SI(180)
L2044112-08A	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-08B	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-08C	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-08D	Plastic 120ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		COD-5220(28)
L2044112-08E	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2044112-08F	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-08G	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-08H	Plastic 250ml NaOH preserved	A	>12	>12	3.4	Y	Absent		TCN-9010(14)
L2044112-08I	Plastic 250ml HNO3 preserved	A	<2	<2	3.4	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CD-TI(180),CA-TI(180),NA-TI(180)
L2044112-08J	Plastic 500ml unpreserved	A	7	7	3.4	Y	Absent		SO4-9038(28),CL-9251(28),NO3-4500(2),TDS-2540(7)
L2044112-09A	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Serial_No: 10222014:34
Lab Number: L2044112
Report Date: 10/22/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2044112-09B	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-09C	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-09D	Plastic 120ml H2SO4 preserved	C	<2	<2	4.8	Y	Absent		COD-5220(28)
L2044112-09E	Plastic 250ml unpreserved/No Headspace	C	NA		4.8	Y	Absent		ALK-T-2320(14)
L2044112-09F	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-09G	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-09H	Plastic 250ml NaOH preserved	C	>12	>12	4.8	Y	Absent		TCN-9010(14)
L2044112-09I	Plastic 250ml HNO3 preserved	C	<2	<2	4.8	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),HG-T(28),FE-TI(180),MN-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2044112-09J	Plastic 500ml unpreserved	C	7	7	4.8	Y	Absent		SO4-9038(28),CL-9251(28),NO3-4500(2),TDS-2540(7)
L2044112-10A	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-10B	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-10C	Vial HCl preserved	C	NA		4.8	Y	Absent		8260(14)
L2044112-10D	Plastic 120ml H2SO4 preserved	C	<2	<2	4.8	Y	Absent		COD-5220(28)
L2044112-10E	Plastic 250ml unpreserved/No Headspace	C	NA		4.8	Y	Absent		ALK-T-2320(14)
L2044112-10F	Amber 250ml unpreserved	C	7	7	4.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-10G	Amber 250ml unpreserved	C	7	7	4.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2044112-10H	Plastic 250ml NaOH preserved	C	>12	>12	4.8	Y	Absent		TCN-9010(14)
L2044112-10I	Plastic 250ml HNO3 preserved	C	<2	<2	4.8	Y	Absent		BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),MN-TI(180),FE-TI(180),HG-T(28),NA-TI(180),CD-TI(180),CA-TI(180)
L2044112-10J	Plastic 500ml unpreserved	C	7	7	4.8	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)
L2044112-11A	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)
L2044112-11B	Vial HCl preserved	A	NA		3.4	Y	Absent		8260(14)

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

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.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
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.

Report Format: Data Usability Report



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Footnotes

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

Terms

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

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.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- 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. 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 reporting limit (RL) for the sample.
- 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.

Report Format: Data Usability Report



Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

Data Qualifiers

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

Project Name: CLINTON LANDFILL
Project Number: 153260.103

Lab Number: L2044112
Report Date: 10/22/20

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 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.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 17

Published Date: 4/28/2020 9:42:21 AM

Page 1 of 1

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, Naphthalene**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.

EPA TO-12 Non-methane organics**EPA 3C** Fixed gases**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, SM4500CI-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.

CHAIN OF CUSTODY PAGE 1 OF 2						Date Rec'd in Lab: <u>10/14/20</u> Report Information ☐ FAX ☒ EMAIL ☒ ADEx ☐ Add'l Deliverables ALPHA Job #: <u>L244112</u> Billing Information ☒ Same as Client info PO #: 153260.103																		
Project Information						Regulatory Requirements/Report Limits																		
Westborough, MA Mansfield, MA TEL: 508-898-9220 TEL: 508-822-9300 FAX: 508-898-9193 FAX: 508-822-3286						Project Name: Clinton Landfill Project Location: Clinton, MA Project #: 153260.103 Project Manager: Don Podsen ALPHA Quote #:						State/Fed Program Criteria												
Client Information						Turn-Around Time						ANALYSIS				SAMPLE HANDLING		TOTAL # BOTTLES						
Client: Brown and Caldwell Address: 101 Industrial Park Road Ste 205 Taunton, MA 02780 Phone: (978) 983-2041 Fax: Email: DPodsen@brwnclad.com ☒ These samples have been Previously analyzed by Alpha Other Project Specific Requirements/Comments/Detection Limits: Send results to the email listed above as well as SChapin@brwnclad.com.						☒ Standard ☐ Rush (ONLY IF PRE-APPROVED) Due Date: Time:																		
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection		Sample Matrix		Sampler's Initials												Sample Specific Comments				
				Date	Time																			
<u>44/12-01</u>		<u>MW-1_20201014</u>		<u>10/14/20</u>	<u>1230</u>	<u>GW</u>		<u>ACB</u>		☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	☐		10
<u>02</u>		<u>LW-1A_20201014</u>		<u>10/14/20</u>	<u>1010</u>	<u>GW</u>		<u>TPK</u>		☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	☐		10
		<u>LW-2_202010</u>				<u>GW</u>		<u>TPK</u>		☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	☐		10
<u>03</u>		<u>MW-3A_20201014</u>		<u>10/14/20</u>	<u>1415</u>	<u>GW</u>		<u>TPK</u>		☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	☐		10
<u>04</u>		<u>MW-4A_20201014</u>		<u>10/14/20</u>	<u>1500</u>	<u>GW</u>		<u>ACB</u>		☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	☐		10
<u>05</u>		<u>MW-4R_20201014</u>		<u>10/14/20</u>	<u>1020</u>	<u>GW</u>		<u>ACB</u>		☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	☐		10
<u>06</u>		<u>LW-5A_20201014</u>		<u>10/14/20</u>	<u>1150</u>	<u>GW</u>		<u>TPK</u>		☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	☐		10
<u>07</u>		<u>DUP_20201014</u>		<u>10/14/20</u>	<u>9999</u>	<u>GW</u>		<u>ACB</u>		☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	☐		10
<u>08</u>		<u>SW-1_20201014</u>		<u>10/14/20</u>	<u>1130</u>	<u>SW</u>		<u>ACB</u>		☐	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		10
<u>09</u>		<u>SW-3_20201014</u>		<u>10/14/20</u>	<u>1410</u>	<u>SW</u>		<u>ACB</u>		☐	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		10
										Container Type Preservative														
Relinquished By: <u>[Signature]</u> Date/Time: <u>10/14/20 @ 10:14/20/10120</u>										Received By: <u>[Signature]</u> Date/Time: <u>10/14/20 15:35</u>														

FORM NO: 01-01(1-11)

(rev. 5-JAN-12)

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

Sediment – 8-Gallon Sample Result



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Charlie Gregory
Brown & Caldwell - Nashville
501 Great Circle Road, Suite 150
Nashville, TN 37228

Report Summary

Tuesday October 14, 2014

Report Number: L726980

Samples Received: 10/10/14

Client Project: Clinton

Description: wastewater

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Linda Cashman , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Charlie Gregory
Brown & Caldwell - Nashville
501 Great Circle Road, Suite 150
Nashville, TN 37228

October 14, 2014

Date Received : October 10, 2014
Description : wastewater

Sample ID : RAW (SAMPLE-2)

Collected By :
Collection Date : 10/09/14 12:00

ESC Sample # : L726980-01

Site ID :

Project # : Clinton

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	21.	0.13	0.40	mg/l		200.7	10/13/14	20
Arsenic, Dissolved	11.	0.032	0.10	mg/l		200.7	10/13/14	5
Barium	0.80	0.020	0.10	mg/l		200.7	10/13/14	20
Barium, Dissolved	0.056	0.0050	0.025	mg/l		200.7	10/13/14	5
Cadmium	0.062	0.014	0.10	mg/l	J	200.7	10/13/14	20
Cadmium, Dissolved	0.0052	0.0035	0.025	mg/l	J	200.7	10/13/14	5
Chromium	U	0.036	0.20	mg/l		200.7	10/13/14	20
Chromium, Dissolved	U	0.0090	0.050	mg/l		200.7	10/13/14	5
Copper	U	0.14	0.40	mg/l		200.7	10/13/14	20
Copper, Dissolved	U	0.035	0.10	mg/l		200.7	10/13/14	5
Iron	3500	0.56	2.0	mg/l		200.7	10/13/14	20
Iron, Dissolved	340	0.14	0.50	mg/l		200.7	10/13/14	5
Manganese	90.	0.040	0.20	mg/l		200.7	10/13/14	20
Manganese, Dissolved	0.73	0.010	0.050	mg/l		200.7	10/13/14	5

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 10/14/14 08:10 Printed: 10/14/14 08:11

L726980-01 (ICP METALS) - Diluted due to color.

L726980-01 (ICP METALS) - Diluted due to sample color. Iron high.

Surface Water Laboratory Results



ANALYTICAL REPORT

Lab Number:	L1421979
Client:	Brown & Caldwell One Tech Drive Suite 310 Andover, MA 01810
ATTN:	Don Podsen
Phone:	(978) 794-0336
Project Name:	CLINTON POND
Project Number:	133026
Report Date:	09/29/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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



Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1421979-01	POND_SITE_1_20140919	WATER	CLINTON, MA	09/19/14 10:45	09/19/14
L1421979-02	POND_SITE_2_20140919	WATER	CLINTON, MA	09/19/14 12:00	09/19/14
L1421979-03	POND_SITE_3_20140919	WATER	CLINTON, MA	09/19/14 13:35	09/19/14
L1421979-04	TRIP BLANK	WATER	CLINTON, MA	09/19/14 00:00	09/19/14

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

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 all of the requirements of NELAC, for all NELAC accredited parameters. 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. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

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

HOLD POLICY

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

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

Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

A Trip Blank was received in the laboratory but not listed on the Chain of Custody. At the client's request, the Trip Blank was not analyzed.

Volatile Organics

In reference to question H:

The initial calibration, associated with L1421979-01 through -03, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.00359), as well as the average response factor for 1,4-dioxane. In addition, a quadratic fit was utilized for acetone.

The continuing calibration standard, associated with L1421979-01 through -03, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

Dissolved Metals

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

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:



Cristin Walker

Title: Technical Director/Representative

Date: 09/29/14

ORGANICS

VOLATILES

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-01
 Client ID: POND_SITE_1_20140919
 Sample Location: CLINTON, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 09/26/14 15:25
 Analyst: MS

Date Collected: 09/19/14 10:45
 Date Received: 09/19/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-01

Date Collected: 09/19/14 10:45

Client ID: POND_SITE_1_20140919

Date Received: 09/19/14

Sample Location: CLINTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-01

Date Collected: 09/19/14 10:45

Client ID: POND_SITE_1_20140919

Date Received: 09/19/14

Sample Location: CLINTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	116		70-130

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-02
 Client ID: POND_SITE_2_20140919
 Sample Location: CLINTON, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 09/26/14 15:58
 Analyst: MS

Date Collected: 09/19/14 12:00
 Date Received: 09/19/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-02

Date Collected: 09/19/14 12:00

Client ID: POND_SITE_2_20140919

Date Received: 09/19/14

Sample Location: CLINTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-02

Date Collected: 09/19/14 12:00

Client ID: POND_SITE_2_20140919

Date Received: 09/19/14

Sample Location: CLINTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	118		70-130

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-03
 Client ID: POND_SITE_3_20140919
 Sample Location: CLINTON, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 09/26/14 16:32
 Analyst: MS

Date Collected: 09/19/14 13:35
 Date Received: 09/19/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-03

Date Collected: 09/19/14 13:35

Client ID: POND_SITE_3_20140919

Date Received: 09/19/14

Sample Location: CLINTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-03

Date Collected: 09/19/14 13:35

Client ID: POND_SITE_3_20140919

Date Received: 09/19/14

Sample Location: CLINTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	118		70-130

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/26/14 11:36
 Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG726019-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/26/14 11:36
 Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG726019-3					
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylene (Total)	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene (total)	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/26/14 11:36
 Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG726019-3					
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	118		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG726019-1 WG726019-2								
Methylene chloride	93		93		70-130	0		20
1,1-Dichloroethane	83		84		70-130	1		20
Chloroform	101		100		70-130	1		20
Carbon tetrachloride	99		100		70-130	1		20
1,2-Dichloropropane	71		72		70-130	1		20
Dibromochloromethane	91		93		70-130	2		20
1,1,2-Trichloroethane	90		90		70-130	0		20
Tetrachloroethene	96		96		70-130	0		20
Chlorobenzene	98		99		70-130	1		20
Trichlorofluoromethane	100		103		70-130	3		20
1,2-Dichloroethane	92		93		70-130	1		20
1,1,1-Trichloroethane	100		102		70-130	2		20
Bromodichloromethane	100		104		70-130	4		20
trans-1,3-Dichloropropene	86		88		70-130	2		20
cis-1,3-Dichloropropene	90		93		70-130	3		20
1,1-Dichloropropene	91		94		70-130	3		20
Bromoform	84		85		70-130	1		20
1,1,2,2-Tetrachloroethane	88		90		70-130	2		20
Benzene	94		96		70-130	2		20
Toluene	92		93		70-130	1		20
Ethylbenzene	95		96		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG726019-1 WG726019-2								
Chloromethane	55	Q	57	Q	70-130	4		20
Bromomethane	51	Q	55	Q	70-130	8		20
Vinyl chloride	67	Q	70		70-130	4		20
Chloroethane	80		82		70-130	2		20
1,1-Dichloroethene	95		99		70-130	4		20
trans-1,2-Dichloroethene	95		95		70-130	0		20
Trichloroethene	102		105		70-130	3		20
1,2-Dichlorobenzene	96		98		70-130	2		20
1,3-Dichlorobenzene	96		99		70-130	3		20
1,4-Dichlorobenzene	93		96		70-130	3		20
Methyl tert butyl ether	91		93		70-130	2		20
p/m-Xylene	97		98		70-130	1		20
o-Xylene	93		95		70-130	2		20
cis-1,2-Dichloroethene	99		100		70-130	1		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	87		90		70-130	3		20
Styrene	94		95		70-130	1		20
Dichlorodifluoromethane	72		73		70-130	1		20
Acetone	100		95		70-130	5		20
Carbon disulfide	69	Q	70		70-130	1		20
2-Butanone	104		109		70-130	5		20

Lab Control Sample Analysis Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG726019-1 WG726019-2								
4-Methyl-2-pentanone	75		73		70-130	3		20
2-Hexanone	79		83		70-130	5		20
Bromochloromethane	105		108		70-130	3		20
Tetrahydrofuran	75		78		70-130	4		20
2,2-Dichloropropane	96		99		70-130	3		20
1,2-Dibromoethane	93		95		70-130	2		20
1,3-Dichloropropane	90		93		70-130	3		20
1,1,1,2-Tetrachloroethane	88		92		70-130	4		20
Bromobenzene	94		94		70-130	0		20
n-Butylbenzene	94		97		70-130	3		20
sec-Butylbenzene	91		94		70-130	3		20
tert-Butylbenzene	93		94		70-130	1		20
o-Chlorotoluene	92		95		70-130	3		20
p-Chlorotoluene	94		96		70-130	2		20
1,2-Dibromo-3-chloropropane	85		92		70-130	8		20
Hexachlorobutadiene	98		99		70-130	1		20
Isopropylbenzene	101		103		70-130	2		20
p-Isopropyltoluene	93		97		70-130	4		20
Naphthalene	74		78		70-130	5		20
n-Propylbenzene	92		94		70-130	2		20
1,2,3-Trichlorobenzene	81		82		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG726019-1 WG726019-2								
1,2,4-Trichlorobenzene	87		91		70-130	4		20
1,3,5-Trimethylbenzene	91		93		70-130	2		20
1,2,4-Trimethylbenzene	94		95		70-130	1		20
Ethyl ether	102		104		70-130	2		20
Isopropyl Ether	66	Q	67	Q	70-130	2		20
Ethyl-Tert-Butyl-Ether	69	Q	70		70-130	1		20
Tertiary-Amyl Methyl Ether	85		88		70-130	3		20
1,4-Dioxane	102		105		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		93		70-130
Toluene-d8	96		97		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	105		104		70-130

METALS

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-01
 Client ID: POND_SITE_1_20140919
 Sample Location: CLINTON, MA
 Matrix: Water

Date Collected: 09/19/14 10:45
 Date Received: 09/19/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
-----------	--------	-----------	-------	----	-----	-----------------	---------------	---------------	-------------	-------------------	---------

Total Hardness by SM 2340B - Westborough Lab

Hardness	40.		mg/l	0.66	NA	1	09/25/14 14:24	09/26/14 09:20	EPA 3005A	1,6010C	MG
----------	-----	--	------	------	----	---	----------------	----------------	-----------	---------	----

MCP Total Metals - Westborough Lab

Arsenic, Total	0.028		mg/l	0.005	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Barium, Total	0.011		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Cadmium, Total	ND		mg/l	0.004	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Chromium, Total	ND		mg/l	0.01	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Copper, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Iron, Total	1.8		mg/l	0.05	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Lead, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Manganese, Total	1.17		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Mercury, Total	ND		mg/l	0.0002	--	1	09/22/14 11:05	09/22/14 19:58	EPA 7470A	97,7470A	AK
Selenium, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Silver, Total	ND		mg/l	0.007	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Zinc, Total	ND		mg/l	0.050	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT

MCP Dissolved Metals - Westborough Lab

Arsenic, Dissolved	0.019		mg/l	0.005	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Barium, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Cadmium, Dissolved	ND		mg/l	0.004	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Chromium, Dissolved	ND		mg/l	0.01	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Copper, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Iron, Dissolved	0.71		mg/l	0.05	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Lead, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Manganese, Dissolved	1.04		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Mercury, Dissolved	ND		mg/l	0.0002	--	1	09/25/14 11:53	09/25/14 18:49	EPA 7470A	97,7470A	AK
Selenium, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Silver, Dissolved	ND		mg/l	0.007	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Zinc, Dissolved	ND		mg/l	0.050	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC



Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-02
 Client ID: POND_SITE_2_20140919
 Sample Location: CLINTON, MA
 Matrix: Water

Date Collected: 09/19/14 12:00
 Date Received: 09/19/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
-----------	--------	-----------	-------	----	-----	-----------------	---------------	---------------	-------------	-------------------	---------

Total Hardness by SM 2340B - Westborough Lab

Hardness	74.		mg/l	0.66	NA	1	09/25/14 14:24	09/26/14 09:38	EPA 3005A	1,6010C	MG
----------	-----	--	------	------	----	---	----------------	----------------	-----------	---------	----

MCP Total Metals - Westborough Lab

Arsenic, Total	0.148		mg/l	0.005	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Barium, Total	0.048		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Cadmium, Total	ND		mg/l	0.004	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Chromium, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Copper, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Iron, Total	21		mg/l	0.05	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Lead, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Manganese, Total	7.56		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Mercury, Total	ND		mg/l	0.0002	--	1	09/22/14 11:05	09/22/14 20:00	EPA 7470A	97,7470A	AK
Selenium, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Silver, Total	ND		mg/l	0.007	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Zinc, Total	ND		mg/l	0.050	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT

MCP Dissolved Metals - Westborough Lab

Arsenic, Dissolved	0.017		mg/l	0.005	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Barium, Dissolved	0.027		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Cadmium, Dissolved	ND		mg/l	0.004	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Chromium, Dissolved	ND		mg/l	0.0100	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Copper, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Iron, Dissolved	0.42		mg/l	0.05	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Lead, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Manganese, Dissolved	5.19		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Mercury, Dissolved	ND		mg/l	0.0002	--	1	09/25/14 11:53	09/25/14 18:52	EPA 7470A	97,7470A	AK
Selenium, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Silver, Dissolved	ND		mg/l	0.007	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Zinc, Dissolved	ND		mg/l	0.050	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC



Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-03
 Client ID: POND_SITE_3_20140919
 Sample Location: CLINTON, MA
 Matrix: Water

Date Collected: 09/19/14 13:35
 Date Received: 09/19/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
-----------	--------	-----------	-------	----	-----	-----------------	---------------	---------------	-------------	-------------------	---------

Total Hardness by SM 2340B - Westborough Lab

Hardness	45.		mg/l	0.66	NA	1	09/25/14 14:24	09/26/14 09:42	EPA 3005A	1,6010C	MG
----------	-----	--	------	------	----	---	----------------	----------------	-----------	---------	----

MCP Total Metals - Westborough Lab

Arsenic, Total	0.877		mg/l	0.005	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Barium, Total	0.035		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Cadmium, Total	ND		mg/l	0.004	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Chromium, Total	ND		mg/l	0.01	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Copper, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Iron, Total	61		mg/l	0.05	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Lead, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Manganese, Total	3.56		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Mercury, Total	ND		mg/l	0.0002	--	1	09/22/14 11:05	09/22/14 20:02	EPA 7470A	97,7470A	AK
Selenium, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Silver, Total	ND		mg/l	0.007	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Zinc, Total	ND		mg/l	0.050	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT

MCP Dissolved Metals - Westborough Lab

Arsenic, Dissolved	0.022		mg/l	0.005	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Barium, Dissolved	0.025		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Cadmium, Dissolved	ND		mg/l	0.004	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Chromium, Dissolved	ND		mg/l	0.01	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Copper, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Iron, Dissolved	5.2		mg/l	0.05	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Lead, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Manganese, Dissolved	3.53		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Mercury, Dissolved	ND		mg/l	0.0002	--	1	09/25/14 11:53	09/25/14 18:54	EPA 7470A	97,7470A	AK
Selenium, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Silver, Dissolved	ND		mg/l	0.007	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Zinc, Dissolved	ND		mg/l	0.050	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC



Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG724039-1										
Mercury, Total	ND		mg/l	0.0002	--	1	09/22/14 11:05	09/22/14 19:49	97,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01-03 Batch: WG725232-1										
Mercury, Dissolved	ND		mg/l	0.0002	--	1	09/25/14 11:53	09/25/14 18:43	97,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-03 Batch: WG725310-1										
Hardness	ND		mg/l	0.66	NA	1	09/25/14 14:24	09/26/14 09:12	1,6010C	MG

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01-03 Batch: WG725668-1										
Arsenic, Dissolved	ND		mg/l	0.005	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Barium, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Cadmium, Dissolved	ND		mg/l	0.004	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Chromium, Dissolved	ND		mg/l	0.01	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Copper, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Iron, Dissolved	ND		mg/l	0.05	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC



Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

Method Blank Analysis Batch Quality Control

Lead, Dissolved	ND	mg/l	0.010	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Manganese, Dissolved	ND	mg/l	0.010	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Selenium, Dissolved	ND	mg/l	0.010	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Silver, Dissolved	ND	mg/l	0.007	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Zinc, Dissolved	ND	mg/l	0.050	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC

Prep Information

Digestion Method: NA

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG726160-1									
Arsenic, Total	ND	mg/l	0.005	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Barium, Total	ND	mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Cadmium, Total	ND	mg/l	0.004	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Chromium, Total	ND	mg/l	0.01	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Copper, Total	ND	mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Iron, Total	ND	mg/l	0.05	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Lead, Total	ND	mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Manganese, Total	ND	mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Selenium, Total	ND	mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Silver, Total	ND	mg/l	0.007	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Zinc, Total	ND	mg/l	0.050	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG724039-2 WG724039-3								
Mercury, Total	107		102		80-120	5		20
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG725232-2 WG725232-3								
Mercury, Dissolved	95		96		80-120	1		20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-03 Batch: WG725310-2								
Hardness	103		-		80-120	-		
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG725668-2 WG725668-3								
Arsenic, Dissolved	105		105		80-120	0		20
Barium, Dissolved	98		98		80-120	0		20
Cadmium, Dissolved	104		104		80-120	0		20
Chromium, Dissolved	95		95		80-120	0		20
Copper, Dissolved	96		95		80-120	1		20
Iron, Dissolved	100		100		80-120	0		20
Lead, Dissolved	100		100		80-120	0		20
Manganese, Dissolved	101		100		80-120	1		20
Selenium, Dissolved	107		107		80-120	0		20
Silver, Dissolved	95		96		80-120	1		20
Zinc, Dissolved	100		100		80-120	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG726160-2					
Arsenic, Total	110	-	80-120	-	20
Barium, Total	102	-	80-120	-	20
Cadmium, Total	110	-	80-120	-	20
Chromium, Total	100	-	80-120	-	20
Copper, Total	103	-	80-120	-	20
Iron, Total	100	-	80-120	-	20
Lead, Total	107	-	80-120	-	20
Manganese, Total	99	-	80-120	-	20
Selenium, Total	112	-	80-120	-	20
Silver, Total	103	-	80-120	-	20
Zinc, Total	104	-	80-120	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG725310-4 QC Sample: L1400009-91 Client ID: MS Sample												
Hardness	40	66.2	100	91		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG725310-3 QC Sample: L1400009-91 Client ID: DUP Sample						
Hardness	40	40	mg/l	0		20
MCP Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG726160-3 QC Sample: L1421979-01 Client ID: POND_SITE_1_20140919						
Arsenic, Total	0.028	0.030	mg/l	4		20
Barium, Total	0.011	0.012	mg/l	1		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	ND	ND	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Iron, Total	1.8	1.8	mg/l	0		20
Lead, Total	ND	ND	mg/l	NC		20
Manganese, Total	1.17	1.19	mg/l	2		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-01

Client ID: POND_SITE_1_20140919

Sample Location: CLINTON, MA

Matrix: Water

Date Collected: 09/19/14 10:45

Date Received: 09/19/14

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, True	36		A.P.C.U.	5.0	--	1	-	09/19/14 19:57	30,2120B	MR
Alkalinity, Total	39.2		mg CaCO3/L	2.00	NA	1	-	09/22/14 09:24	30,2320B	SG
Solids, Total Suspended	7.2		mg/l	5.0	NA	1	-	09/25/14 14:25	30,2540D	DW
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	09/20/14 16:00	09/22/14 20:48	30,4500NH3-BH	AT



Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-02
 Client ID: POND_SITE_2_20140919
 Sample Location: CLINTON, MA
 Matrix: Water

Date Collected: 09/19/14 12:00
 Date Received: 09/19/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, True	18		A.P.C.U.	5.0	--	1	-	09/19/14 19:57	30,2120B	MR
Alkalinity, Total	90.0		mg CaCO3/L	2.00	NA	1	-	09/22/14 09:24	30,2320B	SG
Solids, Total Suspended	17.		mg/l	5.0	NA	1	-	09/25/14 14:25	30,2540D	DW
Nitrogen, Ammonia	1.13		mg/l	0.075	--	1	09/20/14 16:00	09/22/14 20:49	30,4500NH3-BH	AT



Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-03

Client ID: POND_SITE_3_20140919

Sample Location: CLINTON, MA

Matrix: Water

Date Collected: 09/19/14 13:35

Date Received: 09/19/14

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, True	12		A.P.C.U.	5.0	--	1	-	09/19/14 19:57	30,2120B	MR
Alkalinity, Total	58.0		mg CaCO3/L	2.00	NA	1	-	09/22/14 09:24	30,2320B	SG
Solids, Total Suspended	140		mg/l	15	NA	3	-	09/25/14 14:20	30,2540D	DW
Nitrogen, Ammonia	3.78		mg/l	0.075	--	1	09/20/14 16:00	09/22/14 20:50	30,4500NH3-BH	AT



Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

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: WG723847-1										
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	09/20/14 16:00	09/22/14 20:45	30,4500NH3-BH	AT
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG724104-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	09/22/14 09:24	30,2320B	SG
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG725138-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	09/25/14 14:25	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG725142-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	09/25/14 14:20	30,2540D	DW

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG723847-2								
Nitrogen, Ammonia	89		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG724104-3								
Alkalinity, Total	104		-		90-110	-		10

Matrix Spike Analysis

Batch Quality Control

Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

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: WG723847-4 QC Sample: L1421953-08 Client ID: MS Sample												
Nitrogen, Ammonia	0.127	4	4.14	100		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG724104-4 QC Sample: L1421901-02 Client ID: MS Sample												
Alkalinity, Total	27.8	100	131	103		-	-		86-116	-		10

Lab Duplicate Analysis

Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG723717-1 QC Sample: L1421979-01 Client ID: POND_SITE_1_20140919						
Color, True	36	36	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG723847-3 QC Sample: L1421953-08 Client ID: DUP Sample						
Nitrogen, Ammonia	0.127	0.126	mg/l	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG724104-2 QC Sample: L1421901-02 Client ID: DUP Sample						
Alkalinity, Total	27.8	27.8	mg CaCO3/L	0		10
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG725138-2 QC Sample: L1422286-01 Client ID: DUP Sample						
Solids, Total Suspended	390	370	mg/l	5		29
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG725142-2 QC Sample: L1421979-03 Client ID: POND_SITE_3_20140919						
Solids, Total Suspended	140	150	mg/l	7		29

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1421979-01A	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-01B	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-01C	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-01D	Plastic 250ml unpreserved	A	N/A	3.8	Y	Absent	ALK-T-2320(14)
L1421979-01E	Plastic 250ml H2SO4 preserved	A	<2	3.8	Y	Absent	NH3-4500(28)
L1421979-01F	Plastic 500ml unpreserved	A	8	3.8	Y	Absent	FILTER-MET(1)
L1421979-01G	Plastic 250ml HNO3 preserved	A	<2	3.8	Y	Absent	MCP-CR-6010T-10(180),MCP-FE-6010T-10(180),MCP-MN-6010T-10(180),MCP-7470T-10(28),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-CU-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180),HARDT(180),MCP-PB-6010T-10(180)
L1421979-01H	Amber 250ml unpreserved	A	8	3.8	Y	Absent	COLOR-T-2120(2)
L1421979-01I	Plastic 1000ml unpreserved	A	8	3.8	Y	Absent	TSS-2540(7)
L1421979-01X	Plastic 250ml HNO3 preserved spl	A	<2	3.8	Y	Absent	MCP-CD-6010S-10(180),MCP-FE-6010S-10(180),MCP-7470S-10(28),MCP-AG-6010S-10(180),MCP-ZN-6010S-10(180),MCP-AS-6010S-10(180),MCP-CR-6010S-10(180),MCP-BA-6010S-10(180),MCP-MN-6010S-10(180),MCP-PB-6010S-10(180),MCP-CU-6010S-10(180),MCP-SE-6010S-10(180)
L1421979-02A	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-02B	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-02C	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-02D	Plastic 250ml unpreserved	A	N/A	3.8	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days



Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1421979-02E	Plastic 250ml H2SO4 preserved	A	<2	3.8	Y	Absent	NH3-4500(28)
L1421979-02F	Plastic 500ml unpreserved	A	8	3.8	Y	Absent	FILTER-MET(1)
L1421979-02G	Plastic 250ml HNO3 preserved	A	<2	3.8	Y	Absent	MCP-CR-6010T-10(180),MCP-FE-6010T-10(180),MCP-MN-6010T-10(180),MCP-7470T-10(28),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-CU-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),HARDT(180),MCP-PB-6010T-10(180)
L1421979-02H	Amber 250ml unpreserved	A	8	3.8	Y	Absent	COLOR-T-2120(2)
L1421979-02I	Plastic 1000ml unpreserved	A	8	3.8	Y	Absent	TSS-2540(7)
L1421979-02X	Plastic 250ml HNO3 preserved spl	A	<2	3.8	Y	Absent	MCP-CD-6010S-10(180),MCP-FE-6010S-10(180),MCP-7470S-10(28),MCP-AG-6010S-10(180),MCP-ZN-6010S-10(180),MCP-AS-6010S-10(180),MCP-CR-6010S-10(180),MCP-BA-6010S-10(180),MCP-MN-6010S-10(180),MCP-PB-6010S-10(180),MCP-CU-6010S-10(180),MCP-SE-6010S-10(180)
L1421979-03A	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-03B	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-03C	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-03D	Plastic 250ml unpreserved	A	N/A	3.8	Y	Absent	ALK-T-2320(14)
L1421979-03E	Plastic 250ml H2SO4 preserved	A	<2	3.8	Y	Absent	NH3-4500(28)
L1421979-03F	Plastic 500ml unpreserved	A	8	3.8	Y	Absent	FILTER-MET(1)
L1421979-03G	Plastic 250ml HNO3 preserved	A	<2	3.8	Y	Absent	MCP-CR-6010T-10(180),MCP-FE-6010T-10(180),MCP-MN-6010T-10(180),MCP-7470T-10(28),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-CU-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),HARDT(180),MCP-PB-6010T-10(180)
L1421979-03H	Amber 250ml unpreserved	A	8	3.8	Y	Absent	COLOR-T-2120(2)
L1421979-03I	Plastic 1000ml unpreserved	A	8	3.8	Y	Absent	TSS-2540(7)

*Values in parentheses indicate holding time in days



Project Name: CLINTON POND**Project Number:** 133026**Lab Number:** L1421979**Report Date:** 09/29/14**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1421979-03X	Plastic 250ml HNO3 preserved spl	A	<2	3.8	Y	Absent	MCP-CD-6010S-10(180),MCP-FE-6010S-10(180),MCP-7470S-10(28),MCP-AG-6010S-10(180),MCP-ZN-6010S-10(180),MCP-AS-6010S-10(180),MCP-CR-6010S-10(180),MCP-BA-6010S-10(180),MCP-MN-6010S-10(180),MCP-PB-6010S-10(180),MCP-CU-6010S-10(180),MCP-SE-6010S-10(180)
L1421979-04A	Vial HCl preserved	A	N/A	3.8	Y	Absent	HOLD-8260(14)

Container Comments

L1421979-01G

L1421979-01X

L1421979-02G

L1421979-02X

L1421979-03G

L1421979-03X

*Values in parentheses indicate holding time in days

Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
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.

Footnotes

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

Terms

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.

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.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

Data Qualifiers

- G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

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

Last revised April 15, 2014

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

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

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.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: 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, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,

SM426C, SM4500NH₃-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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: SVOC (Acid/Base/Neutral Extractables); **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

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

7A
Volatile Organics CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1421979

Instrument ID: Jack.i Calibration Date: 26-SEP-2014 Time: 09:58

Lab File ID: 0926A04 Init. Calib. Date(s): 03-AUG-2 03-AUG-2

Sample No: wg725-1,31,10 Init. Calib. Times : 11:07 15:59

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.75161	.54304	.1	-28	20	F
chloromethane	1.1523	.63799	.1	-45	20	F
vinyl chloride	.91863	.61447	.1	-33	20	F
bromomethane	.43671	.22185	.1	-49	20	F
chloroethane	.48637	.38987	.1	-20	20	
trichlorofluoromethane	.88516	.88961	.1	1	20	
ethyl ether	.25228	.25709	.05	2	20	
1,1,-dichloroethene	.56308	.5361	.1	-5	20	
carbon disulfide	1.8507	1.2808	.1	-31	20	F
methylene chloride	.65793	.61242	.1	-7	20	
acetone	100	100	.1	0	20	
trans-1,2-dichloroethene	.64047	.60622	.1	-5	20	
methyl tert butyl ether	1.1286	1.0270	.1	-9	20	
Diisopropyl Ether	2.3399	1.5462	.01	-34	20	F
1,1-dichloroethane	1.3635	1.1346	.2	-17	20	
Ethyl-Tert-Butyl-Ether	1.8892	1.2971	.05	-31	20	F
cis-1,2-dichloroethene	.7148	.70684	.1	-1	20	
2,2-dichloropropane	.96857	.92894	.05	-4	20	
bromochloromethane	.31684	.33384	.05	5	20	
chloroform	1.1299	1.1426	.2	1	20	
carbontetrachloride	.89165	.88442	.1	-1	20	
tetrahydrofuran	.13642	.10292	.05	-25	20	F
1,1,1-trichloroethane	1.0050	1.0022	.1	0	20	
1,1-dichloropropene	.93156	.84386	.05	-9	20	
2-butanone	.16636	.1734	.1	4	20	
benzene	2.6452	2.4937	.5	-6	20	
Tertiary-Amyl Methyl Ether	1.2966	1.1079	.05	-15	20	
1,2-dichloroethane	.77061	.713	.1	-7	20	
trichloroethene	.65087	.6635	.2	2	20	
dibromomethane	.31887	.31816	.05	0	20	
1,2-dichloropropane	.83511	.59474	.1	-29	20	F
bromodichloromethane	.58628	.58941	.2	1	20	
1,4-dioxane	.00355	.00361	.05	2	20	F
cis-1,3-dichloropropene	1.0059	.91061	.2	-9	20	
toluene	2.0009	1.8419	.4	-8	20	
tetrachloroethene	.94434	.90806	.2	-4	20	
4-methyl-2-pentanone	.14057	.10601	.1	-25	20	F
trans-1,3-dichloropropene	.90802	.78478	.1	-14	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1421979

Instrument ID: Jack.i Calibration Date: 26-SEP-2014 Time: 09:58

Lab File ID: 0926A04 Init. Calib. Date(s): 03-AUG-2 03-AUG-2

Sample No: wg725-1,31,10 Init. Calib. Times : 11:07 15:59

Compound	RRF	RRF	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,1,2-trichloroethane	.41759	.37478	.1	-10	20
chlorodibromomethane	.64219	.58444	.1	-9	20
1,3-dichloropropane	.88518	.79972	.05	-10	20
1,2-dibromoethane	.51863	.48323	.1	-7	20
2-hexanone	.27879	.22035	.1	-21	20
chlorobenzene	2.3036	2.2471	.5	-2	20
ethyl benzene	4.0078	3.8184	.1	-5	20
1,1,1,2-tetrachloroethane	.77667	.68756	.05	-11	20
p/m xylene	1.6172	1.5741	.1	-3	20
o xylene	1.5645	1.4484	.3	-7	20
bromoform	.6713	.56128	.1	-16	20
styrene	2.5409	2.4015	.3	-5	20
isopropylbenzene	7.728	7.7863	.1	1	20
bromobenzene	1.7568	1.6494	.05	-6	20
n-propylbenzene	8.3252	7.6804	.05	-8	20
1,1,2,2,-tetrachloroethane	.92828	.81517	.3	-12	20
2-chlorotoluene	5.3652	4.9546	.05	-8	20
1,2,3-trichloropropane	.77242	.67367	.05	-13	20
1,3,5-trimethylbenzene	5.9812	5.4456	.05	-9	20
4-chlorotoluene	4.8637	4.5634	.05	-6	20
tert-butylbenzene	5.4063	5.0084	.05	-7	20
1,2,4-trimethylbenzene	6.0207	5.6294	.05	-6	20
sec-butylbenzene	7.7906	7.119	.01	-9	20
p-isopropyltoluene	6.6817	6.1879	.05	-7	20
1,3-dichlorobenzene	3.3739	3.2374	.6	-4	20
1,4-dichlorobenzene	3.3819	3.1393	.5	-7	20
n-butylbenzene	5.3321	5.0295	.05	-6	20
1,2-dichlorobenzene	2.9804	2.8535	.4	-4	20
1,2-dibromo-3-chloropropane	.15524	.13183	.05	-15	20
1,2,4-trichlorobenzene	1.6421	1.4266	.2	-13	20
hexachlorobutadiene	.69636	.68082	.05	-2	20
naphthalene	3.0772	2.2882	.05	-26	20
1,2,3-trichlorobenzene	1.2804	1.0406	.05	-19	20
=====	=====	=====	=====	=====	=====
dibromofluoromethane	.26525	.27937	.05	5	20
1,2-dichloroethane-d4	.28919	.26322	.05	-9	20
toluene-d8	1.2392	1.1884	.01	-4	20
4-bromofluorobenzene	.86874	.81998	.05	-6	20

F

F

FORM VII MCP-8260-10

Sediment Bulk Laboratory Results



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Asher Benedict
Brown & Caldwell - Nashville
501 Great Circle Road, Suite 150
Nashville, TN 37228

Report Summary

Wednesday October 08, 2014

Report Number: L725224

Samples Received: 10/02/14

Client Project: Clinton-133026

Description: sediment

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Linda Cashman, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BI0041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Asher Benedict
Brown & Caldwell - Nashville
501 Great Circle Road, Suite 150
Nashville, TN 37228

October 08, 2014

Date Received : October 02, 2014
Description : sediment
Sample ID : DRY SEDIMENT-METALS (SAMPLE-1)
Collected By :
Collection Date : 10/01/14 12:00

ESC Sample # : L725224-01

Site ID :

Project # : Clinton-133026

Parameter	W.Result	RDL	D.Result	RDL	Units	Method	Date
Total Solids	51.4	0.100	51.4		%	2540 G-2	10/05/14
Mercury	BDL	0.020	BDL	0.020	mg/kg	7471	10/03/14
Arsenic	4200	20.	8200	39.	mg/kg	6010B	10/07/14
Barium	41.	5.0	80.	9.7	mg/kg	6010B	10/07/14
Cadmium	BDL	5.0	BDL	9.7	mg/kg	6010B	10/07/14
Chromium	BDL	10.	BDL	19.	mg/kg	6010B	10/07/14
Copper	BDL	20.	BDL	39.	mg/kg	6010B	10/07/14
Iron	260000	100	500000	190	mg/kg	6010B	10/07/14
Lead	BDL	5.0	BDL	9.7	mg/kg	6010B	10/07/14
Manganese	1500	10.	2900	19.	mg/kg	6010B	10/07/14
Selenium	BDL	20.	BDL	39.	mg/kg	6010B	10/07/14
Silver	BDL	10.	BDL	19.	mg/kg	6010B	10/07/14
Zinc	BDL	50.	BDL	97.	mg/kg	6010B	10/07/14

BDL - Below Detection Limit

RDL - Detection Limit- Estimated Quantitation Limit(EQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 10/08/14 09:15 Printed: 10/08/14 09:15



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Asher Benedict
Brown & Caldwell - Nashville
501 Great Circle Road, Suite 150
Nashville, TN 37228

October 08, 2014

Date Received : October 02, 2014
Description : sediment

ESC Sample # : L725224-02

Sample ID : DRY SEDIMENT-VOCS (SAMPLE-1)

Site ID :

Collected By :
Collection Date : 10/01/14 12:00

Project # : Clinton-133026

Parameter	W.Result	RDL	D.Result	RDL	Units	Method	Date
Total Solids	37.3	0.100	37.3		%	2540 G-2	10/05/14
Volatile Organics							
Acetone	BDL	0.25	BDL	0.67	mg/kg	8260B	10/07/14
Acrylonitrile	BDL	0.050	BDL	0.13	mg/kg	8260B	10/07/14
Benzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Bromobenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Bromodichloromethane	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Bromoform	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Bromomethane	BDL	0.025	BDL	0.067	mg/kg	8260B	10/07/14
n-Butylbenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
sec-Butylbenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
tert-Butylbenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Carbon tetrachloride	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Chlorobenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Chlorodibromomethane	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Chloroethane	BDL	0.025	BDL	0.067	mg/kg	8260B	10/07/14
2-Chloroethyl vinyl ether	BDL	0.25	BDL	0.67	mg/kg	8260B	10/07/14
Chloroform	BDL	0.025	BDL	0.067	mg/kg	8260B	10/07/14
Chloromethane	BDL	0.013	BDL	0.034	mg/kg	8260B	10/07/14
2-Chlorotoluene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
4-Chlorotoluene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,2-Dibromo-3-Chloropropane	BDL	0.025	BDL	0.067	mg/kg	8260B	10/07/14
1,2-Dibromoethane	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Dibromomethane	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,2-Dichlorobenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,3-Dichlorobenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,4-Dichlorobenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Dichlorodifluoromethane	BDL	0.025	BDL	0.067	mg/kg	8260B	10/07/14
1,1-Dichloroethane	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,2-Dichloroethane	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,1-Dichloroethene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
cis-1,2-Dichloroethene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
trans-1,2-Dichloroethene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,2-Dichloropropane	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,1-Dichloropropene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,3-Dichloropropane	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
cis-1,3-Dichloropropene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
trans-1,3-Dichloropropene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
2,2-Dichloropropane	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Di-isopropyl ether	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Ethylbenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Hexachloro-1,3-butadiene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Isopropylbenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
p-Isopropyltoluene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14

BDL - Below Detection Limit

RDL - Detection Limit- Estimated Quantitation Limit(EQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Asher Benedict
Brown & Caldwell - Nashville
501 Great Circle Road, Suite 150
Nashville, TN 37228

October 08, 2014

Date Received : October 02, 2014
Description : sediment
Sample ID : DRY SEDIMENT-VOCS (SAMPLE-1)
Collected By :
Collection Date : 10/01/14 12:00

ESC Sample # : L725224-02

Site ID :

Project # : Clinton-133026

Parameter	W.Result	RDL	D.Result	RDL	Units	Method	Date
2-Butanone (MEK)	BDL	0.050	BDL	0.13	mg/kg	8260B	10/07/14
Methylene Chloride	BDL	0.025	BDL	0.067	mg/kg	8260B	10/07/14
4-Methyl-2-pentanone (MIBK)	BDL	0.050	BDL	0.13	mg/kg	8260B	10/07/14
Methyl tert-butyl ether	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Naphthalene	BDL	0.025	BDL	0.067	mg/kg	8260B	10/07/14
n-Propylbenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Styrene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,1,1,2-Tetrachloroethane	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,1,2,2-Tetrachloroethane	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,1,2-Trichlorotrifluoroethane	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Tetrachloroethene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Toluene	BDL	0.025	BDL	0.067	mg/kg	8260B	10/07/14
1,2,3-Trichlorobenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,2,4-Trichlorobenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,1,1-Trichloroethane	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,1,2-Trichloroethane	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Trichloroethene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Trichlorofluoromethane	BDL	0.025	BDL	0.067	mg/kg	8260B	10/07/14
1,2,3-Trichloropropane	BDL	0.013	BDL	0.034	mg/kg	8260B	10/07/14
1,2,4-Trimethylbenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,2,3-Trimethylbenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Vinyl chloride	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
1,3,5-Trimethylbenzene	BDL	0.0050	BDL	0.013	mg/kg	8260B	10/07/14
Xylenes, Total	BDL	0.015	BDL	0.040	mg/kg	8260B	10/07/14
Surrogate Recovery							
Toluene-d8	98.7		98.7		% Rec.	8260B	10/07/14
Dibromofluoromethane	92.8		92.8		% Rec.	8260B	10/07/14
4-Bromofluorobenzene	88.7		88.7		% Rec.	8260B	10/07/14

BDL - Below Detection Limit

RDL - Detection Limit- Estimated Quantitation Limit(EQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 10/08/14 09:15 Printed: 10/08/14 09:15



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Asher Benedict
Brown & Caldwell - Nashville
501 Great Circle Road, Suite 150
Nashville, TN 37228

October 08, 2014

Date Received : October 02, 2014
Description : sediment

ESC Sample # : L725224-03

Sample ID : DRY SEDIMENT-SVOCs (SAMPLE-1)

Site ID :

Collected By :
Collection Date : 10/01/14 12:00

Project # : Clinton-133026

Parameter	W.Result	RDL	D.Result	RDL	Units	Method	Date
Total Solids	48.5	0.100	48.5		%	2540 G-2	10/05/14
Base/Neutral Extractables							
Acenaphthene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
Acenaphthylene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
Anthracene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
Benzidine	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Benzo(a)anthracene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
Benzo(b)fluoranthene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
Benzo(k)fluoranthene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
Benzo(g,h,i)perylene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
Benzo(a)pyrene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
Bis(2-chlorethoxy)methane	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Bis(2-chloroethyl)ether	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Bis(2-chloroisopropyl)ether	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
4-Bromophenyl-phenylether	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
2-Chloronaphthalene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
4-Chlorophenyl-phenylether	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Chrysene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
Dibenz(a,h)anthracene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
3,3-Dichlorobenzidine	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
2,4-Dinitrotoluene	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
2,6-Dinitrotoluene	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Fluoranthene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
Fluorene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
Hexachlorobenzene	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Hexachloro-1,3-butadiene	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Hexachlorocyclopentadiene	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Hexachloroethane	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Indeno(1,2,3-cd)pyrene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
Isophorone	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Naphthalene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
Nitrobenzene	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
n-Nitrosodimethylamine	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
n-Nitrosodiphenylamine	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
n-Nitrosodi-n-propylamine	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Phenanthrene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
Benzylbutyl phthalate	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Bis(2-ethylhexyl)phthalate	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Di-n-butyl phthalate	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Diethyl phthalate	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Dimethyl phthalate	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Di-n-octyl phthalate	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Pyrene	BDL	0.066	BDL	0.14	mg/kg	8270C	10/06/14
1,2,4-Trichlorobenzene	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14

BDL - Below Detection Limit

RDL - Detection Limit- Estimated Quantitation Limit(EQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Asher Benedict
Brown & Caldwell - Nashville
501 Great Circle Road, Suite 150
Nashville, TN 37228

October 08, 2014

Date Received : October 02, 2014
Description : sediment
Sample ID : DRY SEDIMENT-SVOCS (SAMPLE-1)
Collected By :
Collection Date : 10/01/14 12:00

ESC Sample # : L725224-03

Site ID :

Project # : Clinton-133026

Parameter	W.Result	RDL	D.Result	RDL	Units	Method	Date
Acid Extractables							
4-Chloro-3-methylphenol	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
2-Chlorophenol	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
2,4-Dichlorophenol	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
2,4-Dimethylphenol	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
4,6-Dinitro-2-methylphenol	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
2,4-Dinitrophenol	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
2-Nitrophenol	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
4-Nitrophenol	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Pentachlorophenol	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Phenol	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
2,4,6-Trichlorophenol	BDL	0.67	BDL	1.4	mg/kg	8270C	10/06/14
Surrogate Recovery							
2-Fluorophenol	47.0		47.0		% Rec.	8270C	10/06/14
Phenol-d5	43.5		43.5		% Rec.	8270C	10/06/14
Nitrobenzene-d5	23.6		23.6		% Rec.	8270C	10/06/14
2-Fluorobiphenyl	44.9		44.9		% Rec.	8270C	10/06/14
2,4,6-Tribromophenol	54.2		54.2		% Rec.	8270C	10/06/14
p-Terphenyl-d14	29.3		29.3		% Rec.	8270C	10/06/14

BDL - Below Detection Limit

RDL - Detection Limit- Estimated Quantitation Limit(EQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 10/08/14 09:15 Printed: 10/08/14 09:15

Summary of Remarks For Samples Printed
10/08/14 at 09:15:39

TSR Signing Reports: 650
R5 - Desired TAT

Must have ESC project keys for all samples-don't use based on name, i.e, don't use BROWNCA-MCCREADY. If there is not a project name that matches, leave blank. LC

Sample: L725224-01 Account: BROWNCA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/08/14 09:15

Sample: L725224-02 Account: BROWNCA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/08/14 09:15

Sample: L725224-03 Account: BROWNCA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/08/14 09:15



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville
Asher Benedict
501 Great Circle Road, Suite 150

Nashville, TN 37228

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

October 08, 2014

L725224

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Total Solids	< .1	%			WG746703	10/05/14 16:14
Mercury	< .02	mg/kg			WG746463	10/03/14 17:28
1,2,4-Trichlorobenzene	< .333	mg/kg			WG746665	10/04/14 18:36
2,4,6-Trichlorophenol	< .333	mg/kg			WG746665	10/04/14 18:36
2,4-Dichlorophenol	< .333	mg/kg			WG746665	10/04/14 18:36
2,4-Dimethylphenol	< .333	mg/kg			WG746665	10/04/14 18:36
2,4-Dinitrophenol	< .333	mg/kg			WG746665	10/04/14 18:36
2,4-Dinitrotoluene	< .333	mg/kg			WG746665	10/04/14 18:36
2,6-Dinitrotoluene	< .333	mg/kg			WG746665	10/04/14 18:36
2-Chloronaphthalene	< .033	mg/kg			WG746665	10/04/14 18:36
2-Chlorophenol	< .333	mg/kg			WG746665	10/04/14 18:36
2-Nitrophenol	< .333	mg/kg			WG746665	10/04/14 18:36
3,3-Dichlorobenzidine	< .333	mg/kg			WG746665	10/04/14 18:36
4,6-Dinitro-2-methylphenol	< .333	mg/kg			WG746665	10/04/14 18:36
4-Bromophenyl-phenylether	< .333	mg/kg			WG746665	10/04/14 18:36
4-Chloro-3-methylphenol	< .333	mg/kg			WG746665	10/04/14 18:36
4-Chlorophenyl-phenylether	< .333	mg/kg			WG746665	10/04/14 18:36
4-Nitrophenol	< .333	mg/kg			WG746665	10/04/14 18:36
Acenaphthene	< .033	mg/kg			WG746665	10/04/14 18:36
Acenaphthylene	< .033	mg/kg			WG746665	10/04/14 18:36
Anthracene	< .033	mg/kg			WG746665	10/04/14 18:36
Benzidine	< .333	mg/kg			WG746665	10/04/14 18:36
Benzo(a)anthracene	< .033	mg/kg			WG746665	10/04/14 18:36
Benzo(a)pyrene	< .033	mg/kg			WG746665	10/04/14 18:36
Benzo(b)fluoranthene	< .033	mg/kg			WG746665	10/04/14 18:36
Benzo(g,h,i)perylene	< .033	mg/kg			WG746665	10/04/14 18:36
Benzo(k)fluoranthene	< .033	mg/kg			WG746665	10/04/14 18:36
Benzylbutyl phthalate	< .333	mg/kg			WG746665	10/04/14 18:36
Bis(2-chlorethoxy)methane	< .333	mg/kg			WG746665	10/04/14 18:36
Bis(2-chloroethyl)ether	< .333	mg/kg			WG746665	10/04/14 18:36
Bis(2-chloroisopropyl)ether	< .333	mg/kg			WG746665	10/04/14 18:36
Bis(2-ethylhexyl)phthalate	< .333	mg/kg			WG746665	10/04/14 18:36
Chrysene	< .033	mg/kg			WG746665	10/04/14 18:36
Di-n-butyl phthalate	< .333	mg/kg			WG746665	10/04/14 18:36
Di-n-octyl phthalate	< .333	mg/kg			WG746665	10/04/14 18:36
Dibenz(a,h)anthracene	< .033	mg/kg			WG746665	10/04/14 18:36
Diethyl phthalate	< .333	mg/kg			WG746665	10/04/14 18:36
Dimethyl phthalate	< .333	mg/kg			WG746665	10/04/14 18:36
Fluoranthene	< .033	mg/kg			WG746665	10/04/14 18:36
Fluorene	< .033	mg/kg			WG746665	10/04/14 18:36
Hexachloro-1,3-butadiene	< .333	mg/kg			WG746665	10/04/14 18:36
Hexachlorobenzene	< .333	mg/kg			WG746665	10/04/14 18:36
Hexachlorocyclopentadiene	< .333	mg/kg			WG746665	10/04/14 18:36
Hexachloroethane	< .333	mg/kg			WG746665	10/04/14 18:36
Indeno(1,2,3-cd)pyrene	< .033	mg/kg			WG746665	10/04/14 18:36
Isophorone	< .333	mg/kg			WG746665	10/04/14 18:36
n-Nitrosodi-n-propylamine	< .333	mg/kg			WG746665	10/04/14 18:36
n-Nitrosodimethylamine	< .333	mg/kg			WG746665	10/04/14 18:36
n-Nitrosodiphenylamine	< .333	mg/kg			WG746665	10/04/14 18:36
Naphthalene	< .033	mg/kg			WG746665	10/04/14 18:36
Nitrobenzene	< .333	mg/kg			WG746665	10/04/14 18:36
Pentachlorophenol	< .333	mg/kg			WG746665	10/04/14 18:36
Phenanthrene	< .033	mg/kg			WG746665	10/04/14 18:36
Phenol	< .333	mg/kg			WG746665	10/04/14 18:36
Pyrene	< .033	mg/kg			WG746665	10/04/14 18:36

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville
Asher Benedict
501 Great Circle Road, Suite 150

Nashville, TN 37228

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

October 08, 2014

L725224

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
2,4,6-Tribromophenol		% Rec.	55.60	21.6-142		10/04/14 18:36
2-Fluorobiphenyl		% Rec.	64.00	34.9-129		10/04/14 18:36
2-Fluorophenol		% Rec.	58.10	21.1-116		10/04/14 18:36
Nitrobenzene-d5		% Rec.	56.00	21.9-129		10/04/14 18:36
Phenol-d5		% Rec.	60.70	26.3-121		10/04/14 18:36
p-Terphenyl-d14		% Rec.	56.00	21.5-128		10/04/14 18:36
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG747096	10/07/14 01:02
1,1,1-Trichloroethane	< .001	mg/kg			WG747096	10/07/14 01:02
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG747096	10/07/14 01:02
1,1,2-Trichloroethane	< .001	mg/kg			WG747096	10/07/14 01:02
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG747096	10/07/14 01:02
1,1-Dichloroethane	< .001	mg/kg			WG747096	10/07/14 01:02
1,1-Dichloroethene	< .001	mg/kg			WG747096	10/07/14 01:02
1,1-Dichloropropene	< .001	mg/kg			WG747096	10/07/14 01:02
1,2,3-Trichlorobenzene	< .001	mg/kg			WG747096	10/07/14 01:02
1,2,3-Trichloropropane	< .0025	mg/kg			WG747096	10/07/14 01:02
1,2,3-Trimethylbenzene	< .001	mg/kg			WG747096	10/07/14 01:02
1,2,4-Trichlorobenzene	< .001	mg/kg			WG747096	10/07/14 01:02
1,2,4-Trimethylbenzene	< .001	mg/kg			WG747096	10/07/14 01:02
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG747096	10/07/14 01:02
1,2-Dibromoethane	< .001	mg/kg			WG747096	10/07/14 01:02
1,2-Dichlorobenzene	< .001	mg/kg			WG747096	10/07/14 01:02
1,2-Dichloroethane	< .001	mg/kg			WG747096	10/07/14 01:02
1,2-Dichloropropane	< .001	mg/kg			WG747096	10/07/14 01:02
1,3,5-Trimethylbenzene	< .001	mg/kg			WG747096	10/07/14 01:02
1,3-Dichlorobenzene	< .001	mg/kg			WG747096	10/07/14 01:02
1,3-Dichloropropane	< .001	mg/kg			WG747096	10/07/14 01:02
1,4-Dichlorobenzene	< .001	mg/kg			WG747096	10/07/14 01:02
2,2-Dichloropropane	< .001	mg/kg			WG747096	10/07/14 01:02
2-Butanone (MEK)	< .01	mg/kg			WG747096	10/07/14 01:02
2-Chloroethyl vinyl ether	< .05	mg/kg			WG747096	10/07/14 01:02
2-Chlorotoluene	< .001	mg/kg			WG747096	10/07/14 01:02
4-Chlorotoluene	< .001	mg/kg			WG747096	10/07/14 01:02
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG747096	10/07/14 01:02
Acetone	< .05	mg/kg			WG747096	10/07/14 01:02
Acrylonitrile	< .01	mg/kg			WG747096	10/07/14 01:02
Benzene	< .001	mg/kg			WG747096	10/07/14 01:02
Bromobenzene	< .001	mg/kg			WG747096	10/07/14 01:02
Bromodichloromethane	< .001	mg/kg			WG747096	10/07/14 01:02
Bromoform	< .001	mg/kg			WG747096	10/07/14 01:02
Bromomethane	< .005	mg/kg			WG747096	10/07/14 01:02
Carbon tetrachloride	< .001	mg/kg			WG747096	10/07/14 01:02
Chlorobenzene	< .001	mg/kg			WG747096	10/07/14 01:02
Chlorodibromomethane	< .001	mg/kg			WG747096	10/07/14 01:02
Chloroethane	< .005	mg/kg			WG747096	10/07/14 01:02
Chloroform	< .005	mg/kg			WG747096	10/07/14 01:02
Chloromethane	< .0025	mg/kg			WG747096	10/07/14 01:02
cis-1,2-Dichloroethene	< .001	mg/kg			WG747096	10/07/14 01:02
cis-1,3-Dichloropropene	< .001	mg/kg			WG747096	10/07/14 01:02
Di-isopropyl ether	< .001	mg/kg			WG747096	10/07/14 01:02
Dibromomethane	< .001	mg/kg			WG747096	10/07/14 01:02
Dichlorodifluoromethane	< .005	mg/kg			WG747096	10/07/14 01:02
Ethylbenzene	< .001	mg/kg			WG747096	10/07/14 01:02
Hexachloro-1,3-butadiene	< .001	mg/kg			WG747096	10/07/14 01:02
Isopropylbenzene	< .001	mg/kg			WG747096	10/07/14 01:02
Methyl tert-butyl ether	< .001	mg/kg			WG747096	10/07/14 01:02
Methylene Chloride	< .005	mg/kg			WG747096	10/07/14 01:02
n-Butylbenzene	< .001	mg/kg			WG747096	10/07/14 01:02
n-Propylbenzene	< .001	mg/kg			WG747096	10/07/14 01:02

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville
Asher Benedict
501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L725224

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

October 08, 2014

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Naphthalene	< .005	mg/kg			WG747096	10/07/14 01:02
p-Isopropyltoluene	< .001	mg/kg			WG747096	10/07/14 01:02
sec-Butylbenzene	< .001	mg/kg			WG747096	10/07/14 01:02
Styrene	< .001	mg/kg			WG747096	10/07/14 01:02
tert-Butylbenzene	< .001	mg/kg			WG747096	10/07/14 01:02
Tetrachloroethene	< .001	mg/kg			WG747096	10/07/14 01:02
Toluene	< .005	mg/kg			WG747096	10/07/14 01:02
trans-1,2-Dichloroethene	< .001	mg/kg			WG747096	10/07/14 01:02
trans-1,3-Dichloropropene	< .001	mg/kg			WG747096	10/07/14 01:02
Trichloroethene	< .001	mg/kg			WG747096	10/07/14 01:02
Trichlorofluoromethane	< .005	mg/kg			WG747096	10/07/14 01:02
Vinyl chloride	< .001	mg/kg			WG747096	10/07/14 01:02
Xylenes, Total	< .003	mg/kg			WG747096	10/07/14 01:02
4-Bromofluorobenzene		% Rec.	87.80	71-126	WG747096	10/07/14 01:02
Dibromofluoromethane		% Rec.	96.70	78.3-121	WG747096	10/07/14 01:02
Toluene-d8		% Rec.	98.80	88.5-111	WG747096	10/07/14 01:02
Arsenic	< 2	mg/kg			WG746726	10/07/14 16:43
Barium	< .5	mg/kg			WG746726	10/07/14 16:43
Cadmium	< .5	mg/kg			WG746726	10/07/14 16:43
Chromium	< 1	mg/kg			WG746726	10/07/14 16:43
Copper	< 2	mg/kg			WG746726	10/07/14 16:43
Iron	< 10	mg/kg			WG746726	10/07/14 16:43
Lead	< .5	mg/kg			WG746726	10/07/14 16:43
Manganese	< 1	mg/kg			WG746726	10/07/14 16:43
Selenium	< 2	mg/kg			WG746726	10/07/14 16:43
Silver	< 1	mg/kg			WG746726	10/07/14 16:43
Zinc	< 5	mg/kg			WG746726	10/07/14 16:43

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Total Solids	%	48.7	48.5	0.492	5	L725224-03	WG746703

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Total Solids	%	50	50.0	100.	85-115	WG746703
Mercury	mg/kg	12.4	13.1	105.	71.6-128	WG746463
1,2,4-Trichlorobenzene	mg/kg	.333	0.196	58.8	39.8-100	WG746665
2,4,6-Trichlorophenol	mg/kg	.333	0.212	63.6	44.4-108	WG746665
2,4-Dichlorophenol	mg/kg	.333	0.226	67.8	46.2-109	WG746665
2,4-Dimethylphenol	mg/kg	.333	0.206	61.8	42.2-110	WG746665
2,4-Dinitrophenol	mg/kg	.333	0.171	51.4	10-105	WG746665
2,4-Dinitrotoluene	mg/kg	.333	0.219	65.8	53-112	WG746665
2,6-Dinitrotoluene	mg/kg	.333	0.214	64.1	51.6-110	WG746665
2-Chloronaphthalene	mg/kg	.333	0.218	65.5	47.1-105	WG746665
2-Chlorophenol	mg/kg	.333	0.194	58.3	40.8-103	WG746665
2-Nitrophenol	mg/kg	.333	0.210	63.1	44.2-113	WG746665
3,3-Dichlorobenzidine	mg/kg	.333	0.169	50.7	21-101	WG746665
4,6-Dinitro-2-methylphenol	mg/kg	.333	0.202	60.8	23.1-119	WG746665
4-Bromophenyl-phenylether	mg/kg	.333	0.220	66.1	51.4-110	WG746665
4-Chloro-3-methylphenol	mg/kg	.333	0.237	71.1	51.1-113	WG746665
4-Chlorophenyl-phenylether	mg/kg	.333	0.217	65.2	48.1-108	WG746665

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville
Asher Benedict
501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L725224

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

October 08, 2014

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
4-Nitrophenol	mg/kg	.333	0.204	61.2	34.8-109	WG746665
Acenaphthene	mg/kg	.333	0.208	62.4	48.9-107	WG746665
Acenaphthylene	mg/kg	.333	0.222	66.7	49.2-111	WG746665
Anthracene	mg/kg	.333	0.220	66.0	52-112	WG746665
Benzidine	mg/kg	.333	0.0686	20.6	0-48	WG746665
Benzo(a)anthracene	mg/kg	.333	0.221	66.3	52.3-106	WG746665
Benzo(a)pyrene	mg/kg	.333	0.211	63.3	51.9-106	WG746665
Benzo(b)fluoranthene	mg/kg	.333	0.226	67.8	51.3-106	WG746665
Benzo(g,h,i)perylene	mg/kg	.333	0.214	64.3	45.8-108	WG746665
Benzo(k)fluoranthene	mg/kg	.333	0.203	60.8	52.9-107	WG746665
Benzylbutyl phthalate	mg/kg	.333	0.195	58.5	47.5-115	WG746665
Bis(2-chloroethoxy)methane	mg/kg	.333	0.197	59.1	44.9-108	WG746665
Bis(2-chloroethyl)ether	mg/kg	.333	0.173	52.0	32.5-112	WG746665
Bis(2-chloroisopropyl)ether	mg/kg	.333	0.194	58.3	40.4-99	WG746665
Bis(2-ethylhexyl)phthalate	mg/kg	.333	0.196	59.0	48.1-116	WG746665
Chrysene	mg/kg	.333	0.213	63.8	54.4-110	WG746665
Di-n-butyl phthalate	mg/kg	.333	0.210	63.1	49.7-113	WG746665
Di-n-octyl phthalate	mg/kg	.333	0.213	64.1	49.6-112	WG746665
Dibenz(a,h)anthracene	mg/kg	.333	0.226	67.8	45.7-111	WG746665
Diethyl phthalate	mg/kg	.333	0.221	66.3	52-112	WG746665
Dimethyl phthalate	mg/kg	.333	0.224	67.2	51.4-108	WG746665
Fluoranthene	mg/kg	.333	0.229	68.9	53.7-110	WG746665
Fluorene	mg/kg	.333	0.212	63.8	51.1-109	WG746665
Hexachloro-1,3-butadiene	mg/kg	.333	0.199	59.8	41.5-112	WG746665
Hexachlorobenzene	mg/kg	.333	0.223	66.9	43.2-104	WG746665
Hexachlorocyclopentadiene	mg/kg	.333	0.147	44.2	13.5-123	WG746665
Hexachloroethane	mg/kg	.333	0.191	57.5	36.2-103	WG746665
Indeno(1,2,3-cd)pyrene	mg/kg	.333	0.214	64.2	47.5-109	WG746665
Isophorone	mg/kg	.333	0.230	69.0	28.8-104	WG746665
n-Nitrosodi-n-propylamine	mg/kg	.333	0.212	63.7	43.3-109	WG746665
n-Nitrosodimethylamine	mg/kg	.333	0.177	53.2	18.1-122	WG746665
n-Nitrosodiphenylamine	mg/kg	.333	0.207	62.1	48.8-107	WG746665
Naphthalene	mg/kg	.333	0.192	57.5	43.4-103	WG746665
Nitrobenzene	mg/kg	.333	0.186	56.0	40.7-109	WG746665
Pentachlorophenol	mg/kg	.333	0.198	59.4	16.2-102	WG746665
Phenanthrene	mg/kg	.333	0.210	63.0	51.6-107	WG746665
Phenol	mg/kg	.333	0.205	61.7	41.5-106	WG746665
Pyrene	mg/kg	.333	0.193	58.1	47.1-108	WG746665
2,4,6-Tribromophenol				66.10	21.6-142	WG746665
2-Fluorobiphenyl				61.90	34.9-129	WG746665
2-Fluorophenol				54.90	21.1-116	WG746665
Nitrobenzene-d5				57.70	21.9-129	WG746665
Phenol-d5				60.10	26.3-121	WG746665
p-Terphenyl-d14				50.20	21.5-128	WG746665
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0241	96.3	72.9-124	WG747096
1,1,1-Trichloroethane	mg/kg	.025	0.0228	91.3	73.7-124	WG747096
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0276	111.	69.4-122	WG747096
1,1,2-Trichloroethane	mg/kg	.025	0.0258	103.	79.1-118	WG747096
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0236	94.4	70-146	WG747096
1,1-Dichloroethane	mg/kg	.025	0.0238	95.0	75-124	WG747096
1,1-Dichloroethene	mg/kg	.025	0.0214	85.7	70.4-129	WG747096
1,1-Dichloropropene	mg/kg	.025	0.0237	94.7	74.9-124	WG747096
1,2,3-Trichlorobenzene	mg/kg	.025	0.0267	107.	69.3-131	WG747096
1,2,3-Trichloropropane	mg/kg	.025	0.0278	111.	71.4-123	WG747096
1,2,3-Trimethylbenzene	mg/kg	.025	0.0239	95.8	73.6-113	WG747096
1,2,4-Trichlorobenzene	mg/kg	.025	0.0279	112.	71.9-137	WG747096
1,2,4-Trimethylbenzene	mg/kg	.025	0.0252	101.	75.5-122	WG747096

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville
Asher Benedict
501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L725224

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

October 08, 2014

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0282	113.	62.8-133	WG747096
1,2-Dibromoethane	mg/kg	.025	0.0263	105.	78.6-120	WG747096
1,2-Dichlorobenzene	mg/kg	.025	0.0250	100.	78.3-118	WG747096
1,2-Dichloroethane	mg/kg	.025	0.0221	88.3	70.1-124	WG747096
1,2-Dichloropropane	mg/kg	.025	0.0272	109.	77.9-119	WG747096
1,3,5-Trimethylbenzene	mg/kg	.025	0.0256	103.	75.9-124	WG747096
1,3-Dichlorobenzene	mg/kg	.025	0.0263	105.	72-126	WG747096
1,3-Dichloropropane	mg/kg	.025	0.0254	101.	79.1-117	WG747096
1,4-Dichlorobenzene	mg/kg	.025	0.0261	104.	78.3-117	WG747096
2,2-Dichloropropane	mg/kg	.025	0.0245	98.2	61.3-136	WG747096
2-Butanone (MEK)	mg/kg	.125	0.144	115.	53.7-153	WG747096
2-Chloroethyl vinyl ether	mg/kg	.125	0.132	106.	37.7-157	WG747096
2-Chlorotoluene	mg/kg	.025	0.0248	99.1	75.6-121	WG747096
4-Chlorotoluene	mg/kg	.025	0.0252	101.	77.3-120	WG747096
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.152	122.	70.4-137	WG747096
Acetone	mg/kg	.125	0.139	111.	35.1-175	WG747096
Acrylonitrile	mg/kg	.125	0.155	124.	56.4-128	WG747096
Benzene	mg/kg	.025	0.0248	99.2	77.1-121	WG747096
Bromobenzene	mg/kg	.025	0.0241	96.3	78.2-115	WG747096
Bromodichloromethane	mg/kg	.025	0.0230	92.0	74.9-115	WG747096
Bromoform	mg/kg	.025	0.0283	113.	65.9-132	WG747096
Bromomethane	mg/kg	.025	0.0298	119.	48.7-165	WG747096
Carbon tetrachloride	mg/kg	.025	0.0236	94.2	70-124	WG747096
Chlorobenzene	mg/kg	.025	0.0251	100.	79.1-119	WG747096
Chlorodibromomethane	mg/kg	.025	0.0256	102.	73.5-121	WG747096
Chloroethane	mg/kg	.025	0.0273	109.	66.2-132	WG747096
Chloroform	mg/kg	.025	0.0227	90.8	76.7-122	WG747096
Chloromethane	mg/kg	.025	0.0280	112.	63.4-131	WG747096
cis-1,2-Dichloroethene	mg/kg	.025	0.0249	99.6	78.2-119	WG747096
cis-1,3-Dichloropropene	mg/kg	.025	0.0260	104.	79.6-120	WG747096
Di-isopropyl ether	mg/kg	.025	0.0255	102.	70.4-133	WG747096
Dibromomethane	mg/kg	.025	0.0253	101.	79.4-120	WG747096
Dichlorodifluoromethane	mg/kg	.025	0.0232	92.9	57.1-137	WG747096
Ethylbenzene	mg/kg	.025	0.0257	103.	79.7-122	WG747096
Hexachloro-1,3-butadiene	mg/kg	.025	0.0261	104.	68.2-123	WG747096
Isopropylbenzene	mg/kg	.025	0.0249	99.4	80-135	WG747096
Methyl tert-butyl ether	mg/kg	.025	0.0249	99.4	73-129	WG747096
Methylene Chloride	mg/kg	.025	0.0234	93.4	72.6-120	WG747096
n-Butylbenzene	mg/kg	.025	0.0264	106.	77.5-126	WG747096
n-Propylbenzene	mg/kg	.025	0.0253	101.	77.9-123	WG747096
Naphthalene	mg/kg	.025	0.0280	112.	69.8-128	WG747096
p-Isopropyltoluene	mg/kg	.025	0.0260	104.	75.8-129	WG747096
sec-Butylbenzene	mg/kg	.025	0.0249	99.5	75.8-126	WG747096
Styrene	mg/kg	.025	0.0262	105.	82.4-126	WG747096
tert-Butylbenzene	mg/kg	.025	0.0249	99.7	76.4-126	WG747096
Tetrachloroethene	mg/kg	.025	0.0272	109.	73.9-125	WG747096
Toluene	mg/kg	.025	0.0257	103.	79.7-118	WG747096
trans-1,2-Dichloroethene	mg/kg	.025	0.0237	94.9	73.8-122	WG747096
trans-1,3-Dichloropropene	mg/kg	.025	0.0278	111.	75.9-124	WG747096
Trichloroethene	mg/kg	.025	0.0253	101.	77.9-118	WG747096
Trichlorofluoromethane	mg/kg	.025	0.0231	92.3	67.7-131	WG747096
Vinyl chloride	mg/kg	.025	0.0264	106.	66.7-130	WG747096
Xylenes, Total	mg/kg	.075	0.0767	102.	78.8-121	WG747096
4-Bromofluorobenzene				93.50	71-126	WG747096
Dibromofluoromethane				94.10	78.3-121	WG747096
Toluene-d8				101.0	88.5-111	WG747096
Arsenic	mg/kg	237	251.	106.	83.1-117	WG746726

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville
Asher Benedict
501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L725224

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

October 08, 2014

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Barium	mg/kg	252	265.	105.	84.1-116	WG746726
Cadmium	mg/kg	191	199.	104.	83.2-117	WG746726
Chromium	mg/kg	128	134.	104.	81.3-118	WG746726
Copper	mg/kg	123	128.	104.	83.7-116	WG746726
Iron	mg/kg	13100	13700	105.	50.8-150	WG746726
Lead	mg/kg	103	109.	105.	83.1-117	WG746726
Manganese	mg/kg	333	351.	105.	82.3-117	WG746726
Selenium	mg/kg	110	115.	104.	78.7-122	WG746726
Silver	mg/kg	47.3	46.8	99.0	66.2-134	WG746726
Zinc	mg/kg	183	194.	106.	82-118	WG746726

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Mercury	mg/kg	13.0	13.1	105.	71.6-128	0.0	20	WG746463
1,2,4-Trichlorobenzene	mg/kg	0.205	0.196	62.0	39.8-100	4.77	20	WG746665
2,4,6-Trichlorophenol	mg/kg	0.207	0.212	62.0	44.4-108	2.07	20	WG746665
2,4-Dichlorophenol	mg/kg	0.224	0.226	67.0	46.2-109	0.640	20	WG746665
2,4-Dimethylphenol	mg/kg	0.206	0.206	62.0	42.2-110	0.0200	20	WG746665
2,4-Dinitrophenol	mg/kg	0.168	0.171	50.0	10-105	1.85	36.5	WG746665
2,4-Dinitrotoluene	mg/kg	0.224	0.219	67.0	53-112	2.14	20	WG746665
2,6-Dinitrotoluene	mg/kg	0.213	0.214	64.0	51.6-110	0.0400	20	WG746665
2-Chloronaphthalene	mg/kg	0.211	0.218	63.0	47.1-105	3.23	20	WG746665
2-Chlorophenol	mg/kg	0.205	0.194	61.0	40.8-103	5.23	20	WG746665
2-Nitrophenol	mg/kg	0.210	0.210	63.0	44.2-113	0.110	20.9	WG746665
3,3-Dichlorobenzidine	mg/kg	0.156	0.169	47.0	21-101	8.03	22	WG746665
4,6-Dinitro-2-methylphenol	mg/kg	0.207	0.202	62.0	23.1-119	2.12	23.7	WG746665
4-Bromophenyl-phenylether	mg/kg	0.215	0.220	64.0	51.4-110	2.53	20	WG746665
4-Chloro-3-methylphenol	mg/kg	0.230	0.237	69.0	51.1-113	3.04	20	WG746665
4-Chlorophenyl-phenylether	mg/kg	0.205	0.217	62.0	48.1-108	5.62	20	WG746665
4-Nitrophenol	mg/kg	0.189	0.204	57.0	34.8-109	7.31	20	WG746665
Acenaphthene	mg/kg	0.203	0.208	61.0	48.9-107	2.10	20	WG746665
Acenaphthylene	mg/kg	0.217	0.222	65.0	49.2-111	2.24	20	WG746665
Anthracene	mg/kg	0.209	0.220	63.0	52-112	4.95	20	WG746665
Benidine	mg/kg	0.0671	0.0686	20.0	0-48	2.33	40	WG746665
Benzo(a)anthracene	mg/kg	0.219	0.221	66.0	52.3-106	0.810	20	WG746665
Benzo(a)pyrene	mg/kg	0.210	0.211	63.0	51.9-106	0.480	20	WG746665
Benzo(b)fluoranthene	mg/kg	0.215	0.226	65.0	51.3-106	4.80	20	WG746665
Benzo(g,h,i)perylene	mg/kg	0.215	0.214	64.0	45.8-108	0.380	20	WG746665
Benzo(k)fluoranthene	mg/kg	0.214	0.203	64.0	52.9-107	5.56	20	WG746665
Benzylbutyl phthalate	mg/kg	0.199	0.195	60.0	47.5-115	2.01	20	WG746665
Bis(2-chlorethoxy)methane	mg/kg	0.197	0.197	59.0	44.9-108	0.270	20	WG746665
Bis(2-chloroethyl)ether	mg/kg	0.183	0.173	55.0	32.5-112	5.26	26	WG746665
Bis(2-chloroisopropyl)ether	mg/kg	0.212	0.194	64.0	40.4-99	8.70	20.7	WG746665
Bis(2-ethylhexyl)phthalate	mg/kg	0.200	0.196	60.0	48.1-116	1.98	20.5	WG746665
Chrysene	mg/kg	0.214	0.213	64.0	54.4-110	0.450	20	WG746665
Di-n-butyl phthalate	mg/kg	0.211	0.210	63.0	49.7-113	0.470	20	WG746665
Di-n-octyl phthalate	mg/kg	0.218	0.213	65.0	49.6-112	1.96	22	WG746665
Dibenz(a,h)anthracene	mg/kg	0.224	0.226	67.0	45.7-111	0.790	20	WG746665
Diethyl phthalate	mg/kg	0.217	0.221	65.0	52-112	1.88	20	WG746665
Dimethyl phthalate	mg/kg	0.224	0.224	67.0	51.4-108	0.0500	20	WG746665
Fluoranthene	mg/kg	0.221	0.229	66.0	53.7-110	3.60	20	WG746665
Fluorene	mg/kg	0.213	0.212	64.0	51.1-109	0.0100	20	WG746665
Hexachloro-1,3-butadiene	mg/kg	0.208	0.199	62.0	41.5-112	4.36	20	WG746665
Hexachlorobenzene	mg/kg	0.221	0.223	66.0	43.2-104	0.840	20.1	WG746665
Hexachlorocyclopentadiene	mg/kg	0.146	0.147	44.0	13.5-123	0.850	20.7	WG746665
Hexachloroethane	mg/kg	0.203	0.191	61.0	36.2-103	6.04	22.7	WG746665

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville
Asher Benedict
501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L725224

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

October 08, 2014

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Indeno(1,2,3-cd)pyrene	mg/kg	0.212	0.214	64.0	47.5-109	1.03	20	WG746665
Isophorone	mg/kg	0.227	0.230	68.0	28.8-104	1.16	20	WG746665
n-Nitrosodi-n-propylamine	mg/kg	0.212	0.212	64.0	43.3-109	0.110	20	WG746665
n-Nitrosodimethylamine	mg/kg	0.189	0.177	57.0	18.1-122	6.67	23.5	WG746665
n-Nitrosodiphenylamine	mg/kg	0.202	0.207	61.0	48.8-107	2.22	20	WG746665
Naphthalene	mg/kg	0.194	0.192	58.0	43.4-103	1.17	20	WG746665
Nitrobenzene	mg/kg	0.197	0.186	59.0	40.7-109	5.41	21	WG746665
Pentachlorophenol	mg/kg	0.188	0.198	56.0	16.2-102	5.00	22.9	WG746665
Phenanthrene	mg/kg	0.204	0.210	61.0	51.6-107	2.54	20	WG746665
Phenol	mg/kg	0.209	0.205	63.0	41.5-106	1.52	20	WG746665
Pyrene	mg/kg	0.195	0.193	58.0	47.1-108	0.740	20	WG746665
2,4,6-Tribromophenol				63.20	21.6-142			WG746665
2-Fluorobiphenyl				61.00	34.9-129			WG746665
2-Fluorophenol				60.30	21.1-116			WG746665
Nitrobenzene-d5				58.70	21.9-129			WG746665
Phenol-d5				60.40	26.3-121			WG746665
p-Terphenyl-d14				50.80	21.5-128			WG746665
1,1,1,2-Tetrachloroethane	mg/kg	0.0242	0.0241	97.0	72.9-124	0.460	20	WG747096
1,1,1-Trichloroethane	mg/kg	0.0228	0.0228	91.0	73.7-124	0.0800	20	WG747096
1,1,2,2-Tetrachloroethane	mg/kg	0.0261	0.0276	104.	69.4-122	5.69	20	WG747096
1,1,2-Trichloroethane	mg/kg	0.0248	0.0258	99.0	79.1-118	4.22	20	WG747096
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0234	0.0236	94.0	70-146	0.740	20	WG747096
1,1-Dichloroethane	mg/kg	0.0239	0.0238	96.0	75-124	0.590	20	WG747096
1,1-Dichloroethene	mg/kg	0.0219	0.0214	88.0	70.4-129	2.21	20	WG747096
1,1-Dichloropropene	mg/kg	0.0236	0.0237	94.0	74.9-124	0.160	20	WG747096
1,2,3-Trichlorobenzene	mg/kg	0.0265	0.0267	106.	69.3-131	0.900	20	WG747096
1,2,3-Trichloropropane	mg/kg	0.0264	0.0278	105.	71.4-123	5.44	20	WG747096
1,2,3-Trimethylbenzene	mg/kg	0.0241	0.0239	96.0	73.6-113	0.680	20	WG747096
1,2,4-Trichlorobenzene	mg/kg	0.0268	0.0279	107.	71.9-137	3.88	20	WG747096
1,2,4-Trimethylbenzene	mg/kg	0.0253	0.0252	101.	75.5-122	0.440	20	WG747096
1,2-Dibromo-3-Chloropropane	mg/kg	0.0254	0.0282	101.	62.8-133	10.5	20	WG747096
1,2-Dibromoethane	mg/kg	0.0252	0.0263	101.	78.6-120	4.29	20	WG747096
1,2-Dichlorobenzene	mg/kg	0.0246	0.0250	98.0	78.3-118	1.83	20	WG747096
1,2-Dichloroethane	mg/kg	0.0215	0.0221	86.0	70.1-124	2.46	20	WG747096
1,2-Dichloropropane	mg/kg	0.0283	0.0272	113.	77.9-119	3.68	20	WG747096
1,3,5-Trimethylbenzene	mg/kg	0.0256	0.0256	102.	75.9-124	0.0	20	WG747096
1,3-Dichlorobenzene	mg/kg	0.0273	0.0263	109.	72-126	3.68	20	WG747096
1,3-Dichloropropane	mg/kg	0.0250	0.0254	100.	79.1-117	1.35	20	WG747096
1,4-Dichlorobenzene	mg/kg	0.0255	0.0261	102.	78.3-117	2.34	20	WG747096
2,2-Dichloropropane	mg/kg	0.0238	0.0245	95.0	61.3-136	3.02	20	WG747096
2-Butanone (MEK)	mg/kg	0.129	0.144	104.	53.7-153	10.6	21.2	WG747096
2-Chloroethyl vinyl ether	mg/kg	0.130	0.132	104.	37.7-157	1.79	20	WG747096
2-Chlorotoluene	mg/kg	0.0250	0.0248	100.	75.6-121	0.820	20	WG747096
4-Chlorotoluene	mg/kg	0.0254	0.0252	101.	77.3-120	0.840	20	WG747096
4-Methyl-2-pentanone (MIBK)	mg/kg	0.140	0.152	112.	70.4-137	8.07	20	WG747096
Acetone	mg/kg	0.123	0.139	99.0	35.1-175	12.2	26.1	WG747096
Acrylonitrile	mg/kg	0.140	0.155	112.	56.4-128	10.2	20	WG747096
Benzene	mg/kg	0.0249	0.0248	99.0	77.1-121	0.250	20	WG747096
Bromobenzene	mg/kg	0.0242	0.0241	97.0	78.2-115	0.380	20	WG747096
Bromodichloromethane	mg/kg	0.0234	0.0230	94.0	74.9-115	1.84	20	WG747096
Bromoform	mg/kg	0.0268	0.0283	107.	65.9-132	5.36	20	WG747096
Bromomethane	mg/kg	0.0300	0.0298	120.	48.7-165	0.510	20	WG747096
Carbon tetrachloride	mg/kg	0.0237	0.0236	95.0	70-124	0.450	20	WG747096
Chlorobenzene	mg/kg	0.0248	0.0251	99.0	79.1-119	1.16	20	WG747096
Chlorodibromomethane	mg/kg	0.0252	0.0256	101.	73.5-121	1.65	20	WG747096
Chloroethane	mg/kg	0.0269	0.0273	108.	66.2-132	1.35	20	WG747096
Chloroform	mg/kg	0.0223	0.0227	89.0	76.7-122	1.74	20	WG747096

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville
Asher Benedict
501 Great Circle Road, Suite 150

Nashville, TN 37228

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

L725224

October 08, 2014

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Chloromethane	mg/kg	0.0281	0.0280	112.	63.4-131	0.460	20	WG747096
cis-1,2-Dichloroethene	mg/kg	0.0245	0.0249	98.0	78.2-119	1.50	20	WG747096
cis-1,3-Dichloropropene	mg/kg	0.0267	0.0260	107.	79.6-120	2.74	20	WG747096
Di-isopropyl ether	mg/kg	0.0253	0.0255	101.	70.4-133	0.490	20	WG747096
Dibromomethane	mg/kg	0.0249	0.0253	100.	79.4-120	1.71	20	WG747096
Dichlorodifluoromethane	mg/kg	0.0235	0.0232	94.0	57.1-137	1.15	20	WG747096
Ethylbenzene	mg/kg	0.0258	0.0257	103.	79.7-122	0.700	20	WG747096
Hexachloro-1,3-butadiene	mg/kg	0.0256	0.0261	102.	68.2-123	1.71	20	WG747096
Isopropylbenzene	mg/kg	0.0250	0.0249	100.	80-135	0.460	20	WG747096
Methyl tert-butyl ether	mg/kg	0.0238	0.0249	95.0	73-129	4.31	20	WG747096
Methylene Chloride	mg/kg	0.0226	0.0234	90.0	72.6-120	3.42	20	WG747096
n-Butylbenzene	mg/kg	0.0260	0.0264	104.	77.5-126	1.65	20	WG747096
n-Propylbenzene	mg/kg	0.0253	0.0253	101.	77.9-123	0.130	20	WG747096
Naphthalene	mg/kg	0.0260	0.0280	104.	69.8-128	7.37	20	WG747096
p-Isopropyltoluene	mg/kg	0.0262	0.0260	105.	75.8-129	0.910	20	WG747096
sec-Butylbenzene	mg/kg	0.0251	0.0249	100.	75.8-126	0.910	20	WG747096
Styrene	mg/kg	0.0261	0.0262	104.	82.4-126	0.120	20	WG747096
tert-Butylbenzene	mg/kg	0.0251	0.0249	100.	76.4-126	0.740	20	WG747096
Tetrachloroethene	mg/kg	0.0278	0.0272	111.	73.9-125	2.28	20	WG747096
Toluene	mg/kg	0.0259	0.0257	104.	79.7-118	0.830	20	WG747096
trans-1,2-Dichloroethene	mg/kg	0.0235	0.0237	94.0	73.8-122	0.810	20	WG747096
trans-1,3-Dichloropropene	mg/kg	0.0275	0.0278	110.	75.9-124	1.05	20	WG747096
Trichloroethene	mg/kg	0.0252	0.0253	101.	77.9-118	0.380	20	WG747096
Trichlorofluoromethane	mg/kg	0.0229	0.0231	92.0	67.7-131	0.810	20	WG747096
Vinyl chloride	mg/kg	0.0263	0.0264	105.	66.7-130	0.510	20	WG747096
Xylenes, Total	mg/kg	0.0776	0.0767	103.	78.8-121	1.13	20	WG747096
4-Bromofluorobenzene				93.10	71-126			WG747096
Dibromofluoromethane				91.50	78.3-121			WG747096
Toluene-d8				101.0	88.5-111			WG747096
Arsenic	mg/kg	245.	251.	103.	83.1-117	2.00	20	WG746726
Barium	mg/kg	256.	265.	102.	84.1-116	3.00	20	WG746726
Cadmium	mg/kg	199.	199.	104.	83.2-117	0.0	20	WG746726
Chromium	mg/kg	132.	134.	103.	81.3-118	1.00	20	WG746726
Copper	mg/kg	128.	128.	104.	83.7-116	0.0	20	WG746726
Iron	mg/kg	13100	13700	100.	50.8-150	5.00	20	WG746726
Lead	mg/kg	107.	109.	104.	83.1-117	2.00	20	WG746726
Manganese	mg/kg	343.	351.	103.	82.3-117	2.00	20	WG746726
Selenium	mg/kg	111.	115.	101.	78.7-122	3.00	20	WG746726
Silver	mg/kg	46.8	46.8	99.0	66.2-134	0.0	20	WG746726
Zinc	mg/kg	189.	194.	103.	82-118	2.00	20	WG746726

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Mercury	mg/kg	0.479	0.0376	.5	88.0	80-120	L725167-10	WG746463
1,1,1,2-Tetrachloroethane	mg/kg	0.114	0.0	.025	91.0	64-128	L725162-02	WG747096
1,1,1-Trichloroethane	mg/kg	0.105	0.0	.025	84.0	58.7-134	L725162-02	WG747096
1,1,2,2-Tetrachloroethane	mg/kg	0.124	0.0	.025	99.0	56-132	L725162-02	WG747096
1,1,2-Trichloroethane	mg/kg	0.119	0.0	.025	95.0	66.3-125	L725162-02	WG747096
1,1,2-Trichlorotrifluoroethane	mg/kg	0.104	0.0	.025	83.0	54.8-154	L725162-02	WG747096
1,1-Dichloroethane	mg/kg	0.114	0.0	.025	91.0	58.5-132	L725162-02	WG747096
1,1-Dichloroethene	mg/kg	0.100	0.0	.025	80.0	51.1-140	L725162-02	WG747096
1,1-Dichloropropene	mg/kg	0.103	0.0	.025	82.0	57.3-136	L725162-02	WG747096
1,2,3-Trichlorobenzene	mg/kg	0.0855	0.000370	.025	68.0	59.1-138	L725162-02	WG747096
1,2,3-Trichloropropane	mg/kg	0.118	0.0	.025	94.0	61.4-128	L725162-02	WG747096

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville
Asher Benedict
501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L725224

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

October 08, 2014

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
1,2,3-Trimethylbenzene	mg/kg	0.101	0.0	.025	81.0	61.3-122	L725162-02	WG747096
1,2,4-Trichlorobenzene	mg/kg	0.0900	0.0	.025	72.0	63.6-143	L725162-02	WG747096
1,2,4-Trimethylbenzene	mg/kg	0.107	0.0	.025	85.0	57.4-137	L725162-02	WG747096
1,2-Dibromo-3-Chloropropane	mg/kg	0.109	0.0	.025	88.0	57.3-136	L725162-02	WG747096
1,2-Dibromoethane	mg/kg	0.116	0.0	.025	93.0	67.1-125	L725162-02	WG747096
1,2-Dichlorobenzene	mg/kg	0.101	0.0	.025	81.0	68.2-123	L725162-02	WG747096
1,2-Dichloroethane	mg/kg	0.0992	0.0	.025	79.0	60-126	L725162-02	WG747096
1,2-Dichloropropane	mg/kg	0.126	0.0	.025	100.	64.2-123	L725162-02	WG747096
1,3,5-Trimethylbenzene	mg/kg	0.109	0.0	.025	87.0	63.6-132	L725162-02	WG747096
1,3-Dichlorobenzene	mg/kg	0.108	0.0	.025	86.0	63.1-131	L725162-02	WG747096
1,3-Dichloropropane	mg/kg	0.117	0.0	.025	94.0	67.9-121	L725162-02	WG747096
1,4-Dichlorobenzene	mg/kg	0.102	0.0	.025	81.0	68.6-123	L725162-02	WG747096
2,2-Dichloropropane	mg/kg	0.113	0.0	.025	90.0	50.5-144	L725162-02	WG747096
2-Butanone (MEK)	mg/kg	0.622	0.0128	.125	98.0	22.4-138	L725162-02	WG747096
2-Chloroethyl vinyl ether	mg/kg	0.580	0.0	.125	93.0	10-155	L725162-02	WG747096
2-Chlorotoluene	mg/kg	0.105	0.0	.025	84.0	63.6-128	L725162-02	WG747096
4-Chlorotoluene	mg/kg	0.106	0.0	.025	85.0	65.7-127	L725162-02	WG747096
4-Methyl-2-pentanone (MIBK)	mg/kg	0.650	0.0	.125	100.	60.8-140	L725162-02	WG747096
Acetone	mg/kg	0.670	0.103	.125	91.0	10-130	L725162-02	WG747096
Acrylonitrile	mg/kg	0.660	0.0	.125	110.	49.4-133	L725162-02	WG747096
Benzene	mg/kg	0.116	0.0	.025	92.0	54.3-133	L725162-02	WG747096
Bromobenzene	mg/kg	0.105	0.0	.025	84.0	63.9-124	L725162-02	WG747096
Bromodichloromethane	mg/kg	0.107	0.0	.025	86.0	63.9-121	L725162-02	WG747096
Bromoform	mg/kg	0.123	0.0	.025	99.0	59.5-134	L725162-02	WG747096
Bromomethane	mg/kg	0.136	0.0	.025	110.	41.7-155	L725162-02	WG747096
Carbon tetrachloride	mg/kg	0.108	0.0	.025	86.0	55.7-134	L725162-02	WG747096
Chlorobenzene	mg/kg	0.110	0.0	.025	88.0	67-125	L725162-02	WG747096
Chlorodibromomethane	mg/kg	0.115	0.0	.025	92.0	64.3-125	L725162-02	WG747096
Chloroethane	mg/kg	0.121	0.0	.025	97.0	51.5-136	L725162-02	WG747096
Chloroform	mg/kg	0.105	0.0	.025	84.0	63-129	L725162-02	WG747096
Chloromethane	mg/kg	0.125	0.0	.025	100.	42.4-135	L725162-02	WG747096
cis-1,2-Dichloroethene	mg/kg	0.112	0.0	.025	90.0	59.2-129	L725162-02	WG747096
cis-1,3-Dichloropropene	mg/kg	0.119	0.0	.025	96.0	66.4-125	L725162-02	WG747096
Di-isopropyl ether	mg/kg	0.120	0.0	.025	96.0	56.9-136	L725162-02	WG747096
Dibromomethane	mg/kg	0.116	0.0	.025	92.0	68.2-124	L725162-02	WG747096
Dichlorodifluoromethane	mg/kg	0.111	0.0	.025	88.0	40.6-144	L725162-02	WG747096
Ethylbenzene	mg/kg	0.116	0.0	.025	93.0	61.4-133	L725162-02	WG747096
Hexachloro-1,3-butadiene	mg/kg	0.0885	0.0	.025	71.0	55.1-136	L725162-02	WG747096
Isopropylbenzene	mg/kg	0.111	0.0	.025	88.0	66.8-141	L725162-02	WG747096
Methyl tert-butyl ether	mg/kg	0.113	0.0	.025	90.0	57.7-134	L725162-02	WG747096
Methylene Chloride	mg/kg	0.107	0.000437	.025	85.0	58.1-122	L725162-02	WG747096
n-Butylbenzene	mg/kg	0.0977	0.0	.025	78.0	62.7-140	L725162-02	WG747096
n-Propylbenzene	mg/kg	0.106	0.0	.025	85.0	10-176	L725162-02	WG747096
Naphthalene	mg/kg	0.0890	0.0	.025	71.0	58-135	L725162-02	WG747096
p-Isopropyltoluene	mg/kg	0.107	0.0	.025	86.0	63.2-139	L725162-02	WG747096
sec-Butylbenzene	mg/kg	0.105	0.0	.025	84.0	62.2-136	L725162-02	WG747096
Styrene	mg/kg	0.116	0.0	.025	92.0	66.8-133	L725162-02	WG747096
tert-Butylbenzene	mg/kg	0.110	0.0	.025	88.0	63.3-134	L725162-02	WG747096
Tetrachloroethene	mg/kg	0.113	0.0	.025	90.0	53-139	L725162-02	WG747096
Toluene	mg/kg	0.115	0.000410	.025	92.0	61.4-130	L725162-02	WG747096
trans-1,2-Dichloroethene	mg/kg	0.109	0.0	.025	87.0	56.5-129	L725162-02	WG747096
trans-1,3-Dichloropropene	mg/kg	0.126	0.0	.025	100.	64.1-128	L725162-02	WG747096
Trichloroethene	mg/kg	0.113	0.0	.025	91.0	44.1-149	L725162-02	WG747096
Trichlorofluoromethane	mg/kg	0.104	0.0	.025	83.0	49.6-145	L725162-02	WG747096
Vinyl chloride	mg/kg	0.124	0.0	.025	99.0	47.8-137	L725162-02	WG747096
Xylenes, Total	mg/kg	0.341	0.0	.075	91.0	63.3-131	L725162-02	WG747096
4-Bromofluorobenzene					95.00	71-126		WG747096
Dibromofluoromethane					93.10	78.3-121		WG747096
Toluene-d8					98.70	88.5-111		WG747096

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville
Asher Benedict
501 Great Circle Road, Suite 150

Nashville, TN 37228

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

October 08, 2014

L725224

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
1,2,4-Trichlorobenzene	mg/kg	0.152	0.0	.333	46.0	36.5-114	L725520-07	WG746665
2,4,6-Trichlorophenol	mg/kg	0.164	0.0	.333	49.0	33.8-133	L725520-07	WG746665
2,4-Dichlorophenol	mg/kg	0.174	0.0	.333	52.0	34.8-134	L725520-07	WG746665
2,4-Dimethylphenol	mg/kg	0.0919	0.0	.333	28.0	12.3-149	L725520-07	WG746665
2,4-Dinitrophenol	mg/kg	0.167	0.0	.333	50.0	10-121	L725520-07	WG746665
2,4-Dinitrotoluene	mg/kg	0.175	0.0	.333	53.0	27.8-147	L725520-07	WG746665
2,6-Dinitrotoluene	mg/kg	0.173	0.0	.333	52.0	36.5-137	L725520-07	WG746665
2-Chloronaphthalene	mg/kg	0.164	0.0	.333	49.0	37.5-123	L725520-07	WG746665
2-Chlorophenol	mg/kg	0.144	0.0	.333	43.0	33.2-121	L725520-07	WG746665
2-Nitrophenol	mg/kg	0.172	0.0	.333	52.0	29.5-144	L725520-07	WG746665
3,3-Dichlorobenzidine	mg/kg	0.0234	0.0	.333	7.00*	10-129	L725520-07	WG746665
4,6-Dinitro-2-methylphenol	mg/kg	0.164	0.0	.333	49.0	10-144	L725520-07	WG746665
4-Bromophenyl-phenylether	mg/kg	0.168	0.0	.333	50.0	39-130	L725520-07	WG746665
4-Chloro-3-methylphenol	mg/kg	0.183	0.0	.333	55.0	27-154	L725520-07	WG746665
4-Chlorophenyl-phenylether	mg/kg	0.168	0.0	.333	50.0	37.9-123	L725520-07	WG746665
4-Nitrophenol	mg/kg	0.177	0.0	.333	53.0	20-133	L725520-07	WG746665
Acenaphthene	mg/kg	0.152	0.0	.333	46.0	32.2-134	L725520-07	WG746665
Acenaphthylene	mg/kg	0.167	0.0	.333	50.0	38.7-129	L725520-07	WG746665
Anthracene	mg/kg	0.162	0.0	.333	49.0	32.3-137	L725520-07	WG746665
Benidine	mg/kg	0.0639	0.0	.333	19.0	0-49.9	L725520-07	WG746665
Benzo(a)anthracene	mg/kg	0.172	0.0	.333	52.0	33.3-124	L725520-07	WG746665
Benzo(a)pyrene	mg/kg	0.161	0.0	.333	48.0	28.2-128	L725520-07	WG746665
Benzo(b)fluoranthene	mg/kg	0.179	0.0	.333	54.0	23.3-133	L725520-07	WG746665
Benzo(g,h,i)perylene	mg/kg	0.106	0.0	.333	32.0	10-127	L725520-07	WG746665
Benzo(k)fluoranthene	mg/kg	0.151	0.0	.333	45.0	31-129	L725520-07	WG746665
Benzylbutyl phthalate	mg/kg	0.192	0.0	.333	58.0	33.4-128	L725520-07	WG746665
Bis(2-chlorethoxy)methane	mg/kg	0.144	0.0	.333	43.0	35-132	L725520-07	WG746665
Bis(2-chloroethyl)ether	mg/kg	0.122	0.0	.333	37.0	28.8-128	L725520-07	WG746665
Bis(2-chloroisopropyl)ether	mg/kg	0.150	0.0	.333	45.0	31.8-118	L725520-07	WG746665
Bis(2-ethylhexyl)phthalate	mg/kg	0.183	0.0	.333	55.0	21.8-141	L725520-07	WG746665
Chrysene	mg/kg	0.162	0.0	.333	49.0	36.3-129	L725520-07	WG746665
Di-n-butyl phthalate	mg/kg	0.171	0.0	.333	51.0	32.2-133	L725520-07	WG746665
Di-n-octyl phthalate	mg/kg	0.200	0.0	.333	60.0	28.5-128	L725520-07	WG746665
Dibenz(a,h)anthracene	mg/kg	0.136	0.0	.333	41.0	10.5-128	L725520-07	WG746665
Diethyl phthalate	mg/kg	0.173	0.0	.333	52.0	39.4-136	L725520-07	WG746665
Dimethyl phthalate	mg/kg	0.172	0.0	.333	52.0	35.8-137	L725520-07	WG746665
Fluoranthene	mg/kg	0.179	0.0	.333	54.0	27.9-138	L725520-07	WG746665
Fluorene	mg/kg	0.163	0.0	.333	49.0	34-133	L725520-07	WG746665
Hexachloro-1,3-butadiene	mg/kg	0.162	0.0	.333	49.0	36.5-125	L725520-07	WG746665
Hexachlorobenzene	mg/kg	0.164	0.0	.333	49.0	34.4-116	L725520-07	WG746665
Hexachlorocyclopentadiene	mg/kg	0.0157	0.0	.333	4.70*	10-124	L725520-07	WG746665
Hexachloroethane	mg/kg	0.101	0.0	.333	30.0	11.3-143	L725520-07	WG746665
Indeno(1,2,3-cd)pyrene	mg/kg	0.120	0.0	.333	36.0	10-128	L725520-07	WG746665
Isophorone	mg/kg	0.162	0.0	.333	49.0	25.7-116	L725520-07	WG746665
n-Nitrosodi-n-propylamine	mg/kg	0.150	0.0	.333	45.0	33-134	L725520-07	WG746665
n-Nitrosodimethylamine	mg/kg	0.121	0.0	.333	36.0	19.2-127	L725520-07	WG746665
n-Nitrosodiphenylamine	mg/kg	0.112	0.0	.333	34.0	26.8-133	L725520-07	WG746665
Naphthalene	mg/kg	0.146	0.0	.333	44.0	36.4-121	L725520-07	WG746665
Nitrobenzene	mg/kg	0.133	0.0	.333	40.0	30.9-134	L725520-07	WG746665
Pentachlorophenol	mg/kg	0.163	0.0	.333	49.0	10-139	L725520-07	WG746665
Phenanthrene	mg/kg	0.157	0.0	.333	47.0	30.8-137	L725520-07	WG746665
Phenol	mg/kg	0.137	0.0	.333	41.0	25.1-130	L725520-07	WG746665
Pyrene	mg/kg	0.152	0.0	.333	46.0	24.1-130	L725520-07	WG746665
2,4,6-Tribromophenol					47.40	21.6-142		WG746665
2-Fluorobiphenyl					46.00	34.9-129		WG746665
2-Fluorophenol					37.30	21.1-116		WG746665
Nitrobenzene-d5					39.50	21.9-129		WG746665
Phenol-d5					41.60	26.3-121		WG746665
p-Terphenyl-d14					45.00	21.5-128		WG746665

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville
Asher Benedict
501 Great Circle Road, Suite 150

Nashville, TN 37228

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

October 08, 2014

L725224

Analyte	Units	MS Res	Matrix Spike			% Rec	Limit	Ref Samp	Batch
			Ref Res	TV					
Arsenic	mg/kg	106.	12.3	100		93.0	75-125	L725204-08	WG746726
Barium	mg/kg	407.	145.	100		260.*	75-125	L725204-08	WG746726
Cadmium	mg/kg	91.5	-0.344	100		92.0	75-125	L725204-08	WG746726
Chromium	mg/kg	118.	28.9	100		89.0	75-125	L725204-08	WG746726
Lead	mg/kg	113.	14.9	100		98.0	75-125	L725204-08	WG746726
Selenium	mg/kg	91.7	0.280	100		91.0	75-125	L725204-08	WG746726
Silver	mg/kg	93.7	-0.411	100		94.0	75-125	L725204-08	WG746726

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Mercury	mg/kg	0.463	0.479	85.1	80-120	3.00	20	L725167-10	WG746463
1,1,1,2-Tetrachloroethane	mg/kg	0.111	0.114	88.9	64-128	2.80	20	L725162-02	WG747096
1,1,1-Trichloroethane	mg/kg	0.110	0.105	87.9	58.7-134	4.33	20	L725162-02	WG747096
1,1,2,2-Tetrachloroethane	mg/kg	0.122	0.124	97.2	56-132	1.94	22.2	L725162-02	WG747096
1,1,2-Trichloroethane	mg/kg	0.117	0.119	94.0	66.3-125	0.980	20	L725162-02	WG747096
1,1,2-Trichlorotrifluoroethane	mg/kg	0.102	0.104	81.9	54.8-154	1.79	22.5	L725162-02	WG747096
1,1-Dichloroethane	mg/kg	0.116	0.114	92.9	58.5-132	1.61	20	L725162-02	WG747096
1,1-Dichloroethene	mg/kg	0.103	0.100	82.6	51.1-140	3.16	20.2	L725162-02	WG747096
1,1-Dichloropropene	mg/kg	0.107	0.103	85.2	57.3-136	3.43	20	L725162-02	WG747096
1,2,3-Trichlorobenzene	mg/kg	0.0866	0.0855	69.0	59.1-138	1.23	23.7	L725162-02	WG747096
1,2,3-Trichloropropane	mg/kg	0.121	0.118	97.2	61.4-128	3.20	22.4	L725162-02	WG747096
1,2,3-Trimethylbenzene	mg/kg	0.0996	0.101	79.7	61.3-122	1.44	20	L725162-02	WG747096
1,2,4-Trichlorobenzene	mg/kg	0.0842	0.0900	67.3	63.6-143	6.64	21.9	L725162-02	WG747096
1,2,4-Trimethylbenzene	mg/kg	0.0997	0.107	79.8	57.4-137	6.73	20	L725162-02	WG747096
1,2-Dibromo-3-Chloropropane	mg/kg	0.117	0.109	93.7	57.3-136	6.85	27	L725162-02	WG747096
1,2-Dibromoethane	mg/kg	0.117	0.116	93.9	67.1-125	1.34	20	L725162-02	WG747096
1,2-Dichlorobenzene	mg/kg	0.0998	0.101	79.8	68.2-123	1.49	20	L725162-02	WG747096
1,2-Dichloroethane	mg/kg	0.105	0.0992	84.0	60-126	5.77	20	L725162-02	WG747096
1,2-Dichloropropane	mg/kg	0.129	0.126	103.	64.2-123	2.47	20	L725162-02	WG747096
1,3,5-Trimethylbenzene	mg/kg	0.101	0.109	80.9	63.6-132	7.43	20.5	L725162-02	WG747096
1,3-Dichlorobenzene	mg/kg	0.100	0.108	80.1	63.1-131	7.12	20	L725162-02	WG747096
1,3-Dichloropropane	mg/kg	0.115	0.117	92.4	67.9-121	1.20	20	L725162-02	WG747096
1,4-Dichlorobenzene	mg/kg	0.0986	0.102	78.8	68.6-123	3.22	20	L725162-02	WG747096
2,2-Dichloropropane	mg/kg	0.116	0.113	92.4	50.5-144	2.12	21.9	L725162-02	WG747096
2-Butanone (MEK)	mg/kg	0.679	0.622	106.	22.4-138	8.63	27	L725162-02	WG747096
2-Chloroethyl vinyl ether	mg/kg	0.605	0.580	96.7	10-155	4.17	40	L725162-02	WG747096
2-Chlorotoluene	mg/kg	0.100	0.105	80.1	63.6-128	4.84	20	L725162-02	WG747096
4-Chlorotoluene	mg/kg	0.101	0.106	80.7	65.7-127	5.41	20	L725162-02	WG747096
4-Methyl-2-pentanone (MIBK)	mg/kg	0.693	0.650	111.	60.8-140	6.39	25.1	L725162-02	WG747096
Acetone	mg/kg	0.726	0.670	99.6	10-130	8.03	27.9	L725162-02	WG747096
Acrylonitrile	mg/kg	0.706	0.660	113.	49.4-133	6.79	25.3	L725162-02	WG747096
Benzene	mg/kg	0.118	0.116	94.1	54.3-133	1.86	20	L725162-02	WG747096
Bromobenzene	mg/kg	0.103	0.105	82.2	63.9-124	2.17	20	L725162-02	WG747096
Bromodichloromethane	mg/kg	0.107	0.107	85.9	63.9-121	0.550	20	L725162-02	WG747096
Bromoform	mg/kg	0.124	0.123	99.0	59.5-134	0.300	20.8	L725162-02	WG747096
Bromomethane	mg/kg	0.148	0.136	119.	41.7-155	8.36	20.5	L725162-02	WG747096
Carbon tetrachloride	mg/kg	0.110	0.108	88.1	55.7-134	1.88	20.3	L725162-02	WG747096
Chlorobenzene	mg/kg	0.108	0.110	86.0	67-125	2.73	20	L725162-02	WG747096
Chlorodibromomethane	mg/kg	0.117	0.115	93.2	64.3-125	1.30	20	L725162-02	WG747096
Chloroethane	mg/kg	0.129	0.121	104.	51.5-136	6.46	20.8	L725162-02	WG747096
Chloroform	mg/kg	0.108	0.105	86.5	63-129	2.99	20	L725162-02	WG747096
Chloromethane	mg/kg	0.131	0.125	105.	42.4-135	4.19	20	L725162-02	WG747096
cis-1,2-Dichloroethene	mg/kg	0.117	0.112	93.4	59.2-129	4.33	20	L725162-02	WG747096
cis-1,3-Dichloropropene	mg/kg	0.123	0.119	98.6	66.4-125	3.20	20	L725162-02	WG747096
Di-isopropyl ether	mg/kg	0.126	0.120	100.	56.9-136	4.51	20	L725162-02	WG747096
Dibromomethane	mg/kg	0.121	0.116	96.5	68.2-124	4.25	20	L725162-02	WG747096

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville
Asher Benedict
501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L725224

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

October 08, 2014

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Dichlorodifluoromethane	mg/kg	0.113	0.111	90.1	40.6-144	1.91	20.2	L725162-02	WG747096
Ethylbenzene	mg/kg	0.112	0.116	89.6	61.4-133	3.31	20	L725162-02	WG747096
Hexachloro-1,3-butadiene	mg/kg	0.0760	0.0885	60.8	55.1-136	15.2	23.6	L725162-02	WG747096
Isopropylbenzene	mg/kg	0.104	0.111	82.8	66.8-141	6.58	20	L725162-02	WG747096
Methyl tert-butyl ether	mg/kg	0.120	0.113	96.0	57.7-134	6.21	20	L725162-02	WG747096
Methylene Chloride	mg/kg	0.109	0.107	87.2	58.1-122	2.28	20	L725162-02	WG747096
n-Butylbenzene	mg/kg	0.0898	0.0977	71.8	62.7-140	8.51	20	L725162-02	WG747096
n-Propylbenzene	mg/kg	0.0998	0.106	79.9	10-176	6.24	26.6	L725162-02	WG747096
Naphthalene	mg/kg	0.0949	0.0890	75.9	58-135	6.40	25.5	L725162-02	WG747096
p-Isopropyltoluene	mg/kg	0.0963	0.107	77.0	63.2-139	10.6	20.4	L725162-02	WG747096
sec-Butylbenzene	mg/kg	0.0936	0.105	74.9	62.2-136	11.8	20.3	L725162-02	WG747096
Styrene	mg/kg	0.111	0.116	89.0	66.8-133	3.77	20	L725162-02	WG747096
tert-Butylbenzene	mg/kg	0.102	0.110	81.6	63.3-134	7.76	20.3	L725162-02	WG747096
Tetrachloroethene	mg/kg	0.111	0.113	88.8	53-139	1.71	20	L725162-02	WG747096
Toluene	mg/kg	0.117	0.115	92.9	61.4-130	0.940	20	L725162-02	WG747096
trans-1,2-Dichloroethene	mg/kg	0.112	0.109	89.3	56.5-129	2.37	20	L725162-02	WG747096
trans-1,3-Dichloropropene	mg/kg	0.127	0.126	101.	64.1-128	0.680	20	L725162-02	WG747096
Trichloroethene	mg/kg	0.112	0.113	89.2	44.1-149	1.57	20	L725162-02	WG747096
Trichlorofluoromethane	mg/kg	0.108	0.104	86.1	49.6-145	3.30	21.2	L725162-02	WG747096
Vinyl chloride	mg/kg	0.125	0.124	99.8	47.8-137	0.680	20	L725162-02	WG747096
Xylenes, Total	mg/kg	0.329	0.341	87.7	63.3-131	3.77	20	L725162-02	WG747096
4-Bromofluorobenzene				92.20	71-126				WG747096
Dibromofluoromethane				94.60	78.3-121				WG747096
Toluene-d8				100.0	88.5-111				WG747096
1,2,4-Trichlorobenzene	mg/kg	0.151	0.152	45.4	36.5-114	0.450	28.4	L725520-07	WG746665
2,4,6-Trichlorophenol	mg/kg	0.152	0.164	45.6	33.8-133	7.76	28.1	L725520-07	WG746665
2,4-Dichlorophenol	mg/kg	0.169	0.174	50.8	34.8-134	2.87	27.3	L725520-07	WG746665
2,4-Dimethylphenol	mg/kg	0.0794	0.0919	23.8	12.3-149	14.7	32.3	L725520-07	WG746665
2,4-Dinitrophenol	mg/kg	0.164	0.167	49.1	10-121	1.89	39.4	L725520-07	WG746665
2,4-Dinitrotoluene	mg/kg	0.163	0.175	49.0	27.8-147	6.92	29.7	L725520-07	WG746665
2,6-Dinitrotoluene	mg/kg	0.159	0.173	47.8	36.5-137	8.12	29.7	L725520-07	WG746665
2-Chloronaphthalene	mg/kg	0.153	0.164	46.0	37.5-123	6.83	26.5	L725520-07	WG746665
2-Chlorophenol	mg/kg	0.148	0.144	44.5	33.2-121	3.20	29.3	L725520-07	WG746665
2-Nitrophenol	mg/kg	0.163	0.172	49.1	29.5-144	5.24	29.9	L725520-07	WG746665
3,3-Dichlorobenzidine	mg/kg	0.0247	0.0234	7.42*	10-129	5.34	40	L725520-07	WG746665
4,6-Dinitro-2-methylphenol	mg/kg	0.158	0.164	47.5	10-144	3.67	32.7	L725520-07	WG746665
4-Bromophenyl-phenylether	mg/kg	0.160	0.168	48.1	39-130	4.48	26	L725520-07	WG746665
4-Chloro-3-methylphenol	mg/kg	0.164	0.183	49.3	27-154	10.8	26.6	L725520-07	WG746665
4-Chlorophenyl-phenylether	mg/kg	0.156	0.168	46.7	37.9-123	7.89	25.9	L725520-07	WG746665
4-Nitrophenol	mg/kg	0.171	0.177	51.4	20-133	3.43	30.2	L725520-07	WG746665
Acenaphthene	mg/kg	0.146	0.152	44.0	32.2-134	3.96	27.3	L725520-07	WG746665
Acenaphthylene	mg/kg	0.156	0.167	46.9	38.7-129	6.82	25.9	L725520-07	WG746665
Anthracene	mg/kg	0.157	0.162	47.3	32.3-137	2.67	28.4	L725520-07	WG746665
Benzidine	mg/kg	0.0641	0.0639	19.2	0-49.9	0.250	40	L725520-07	WG746665
Benzo(a)anthracene	mg/kg	0.162	0.172	48.8	33.3-124	5.47	29	L725520-07	WG746665
Benzo(a)pyrene	mg/kg	0.156	0.161	47.0	28.2-128	3.02	28.4	L725520-07	WG746665
Benzo(b)fluoranthene	mg/kg	0.169	0.179	50.6	23.3-133	6.04	30.3	L725520-07	WG746665
Benzo(g,h,i)perylene	mg/kg	0.0998	0.106	30.0	10-127	5.74	31.9	L725520-07	WG746665
Benzo(k)fluoranthene	mg/kg	0.149	0.151	44.8	31-129	1.12	26.7	L725520-07	WG746665
Benzylbutyl phthalate	mg/kg	0.181	0.192	54.5	33.4-128	5.50	28.5	L725520-07	WG746665
Bis(2-chlorethoxy)methane	mg/kg	0.135	0.144	40.6	35-132	6.22	26.1	L725520-07	WG746665
Bis(2-chloroethyl)ether	mg/kg	0.117	0.122	35.2	28.8-128	4.19	33.6	L725520-07	WG746665
Bis(2-chloroisopropyl)ether	mg/kg	0.147	0.150	44.1	31.8-118	1.91	31.7	L725520-07	WG746665
Bis(2-ethylhexyl)phthalate	mg/kg	0.173	0.183	52.0	21.8-141	5.61	35.2	L725520-07	WG746665
Chrysene	mg/kg	0.154	0.162	46.2	36.3-129	5.07	28	L725520-07	WG746665
Di-n-butyl phthalate	mg/kg	0.166	0.171	49.8	32.2-133	3.11	25.9	L725520-07	WG746665
Di-n-octyl phthalate	mg/kg	0.208	0.200	62.6	28.5-128	4.26	32.5	L725520-07	WG746665

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville
Asher Benedict
501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L725224

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

October 08, 2014

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Dibenz(a,h)anthracene	mg/kg	0.128	0.136	38.4	10.5-128	6.63	29.5	L725520-07	WG746665
Diethyl phthalate	mg/kg	0.165	0.173	49.4	39.4-136	4.76	25.5	L725520-07	WG746665
Dimethyl phthalate	mg/kg	0.162	0.172	48.8	35.8-137	5.76	25.4	L725520-07	WG746665
Fluoranthene	mg/kg	0.173	0.179	52.0	27.9-138	3.04	26.9	L725520-07	WG746665
Fluorene	mg/kg	0.158	0.163	47.5	34-133	2.93	27.1	L725520-07	WG746665
Hexachloro-1,3-butadiene	mg/kg	0.154	0.162	46.3	36.5-125	5.05	29.7	L725520-07	WG746665
Hexachlorobenzene	mg/kg	0.161	0.164	48.2	34.4-116	2.34	25.4	L725520-07	WG746665
Hexachlorocyclopentadiene	mg/kg	0.0115	0.0157	3.46*	10-124	30.6	37.5	L725520-07	WG746665
Hexachloroethane	mg/kg	0.102	0.101	30.7	11.3-143	1.51	31.9	L725520-07	WG746665
Indeno(1,2,3-cd)pyrene	mg/kg	0.113	0.120	34.1	10-128	5.42	31.5	L725520-07	WG746665
Isophorone	mg/kg	0.152	0.162	45.7	25.7-116	6.17	27.7	L725520-07	WG746665
n-Nitrosodi-n-propylamine	mg/kg	0.147	0.150	44.0	33-134	2.41	28.2	L725520-07	WG746665
n-Nitrosodimethylamine	mg/kg	0.133	0.121	39.9	19.2-127	9.56	32	L725520-07	WG746665
n-Nitrosodiphenylamine	mg/kg	0.110	0.112	33.0	26.8-133	1.85	25.9	L725520-07	WG746665
Naphthalene	mg/kg	0.142	0.146	42.6	36.4-121	3.11	27.2	L725520-07	WG746665
Nitrobenzene	mg/kg	0.128	0.133	38.5	30.9-134	3.54	27.8	L725520-07	WG746665
Pentachlorophenol	mg/kg	0.158	0.163	47.5	10-139	3.13	28.3	L725520-07	WG746665
Phenanthrene	mg/kg	0.152	0.157	45.7	30.8-137	3.01	26.5	L725520-07	WG746665
Phenol	mg/kg	0.135	0.137	40.4	25.1-130	1.88	29.6	L725520-07	WG746665
Pyrene	mg/kg	0.147	0.152	44.3	24.1-130	3.00	29.9	L725520-07	WG746665
2,4,6-Tribromophenol				46.30	21.6-142				WG746665
2-Fluorobiphenyl				43.40	34.9-129				WG746665
2-Fluorophenol				38.50	21.1-116				WG746665
Nitrobenzene-d5				40.70	21.9-129				WG746665
Phenol-d5				40.60	26.3-121				WG746665
p-Terphenyl-d14				37.70	21.5-128				WG746665
Arsenic	mg/kg	106.	106.	93.7	75-125	0.0	20	L725204-08	WG746726
Barium	mg/kg	377.	407.	233.*	75-125	7.00	20	L725204-08	WG746726
Cadmium	mg/kg	93.1	91.5	93.4	75-125	2.00	20	L725204-08	WG746726
Chromium	mg/kg	121.	118.	92.2	75-125	3.00	20	L725204-08	WG746726
Lead	mg/kg	113.	113.	97.7	75-125	0.0	20	L725204-08	WG746726
Selenium	mg/kg	89.7	91.7	89.4	75-125	2.00	20	L725204-08	WG746726
Silver	mg/kg	94.1	93.7	94.5	75-125	0.0	20	L725204-08	WG746726

Post Spike

Serial Dilution

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville
Asher Benedict
501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L725224

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

October 08, 2014

Serial Dilution

Batch number /Run number / Sample number cross reference

WG746703: R2995219: L725224-01 02 03
WG746463: R2995275: L725224-01
WG746665: R2995508 R2995666: L725224-03
WG747096: R2995602: L725224-02
WG746726: R2995785: L725224-01

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Brown & Caldwell - Nashville
Asher Benedict
501 Great Circle Road, Suite 150

Nashville, TN 37228

Quality Assurance Report
Level II

L725224

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

October 08, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.



ANALYTICAL REPORT

Lab Number:	L1421979
Client:	Brown & Caldwell One Tech Drive Suite 310 Andover, MA 01810
ATTN:	Don Podsen
Phone:	(978) 794-0336
Project Name:	CLINTON POND
Project Number:	133026
Report Date:	09/29/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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



Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1421979-01	POND_SITE_1_20140919	WATER	CLINTON, MA	09/19/14 10:45	09/19/14
L1421979-02	POND_SITE_2_20140919	WATER	CLINTON, MA	09/19/14 12:00	09/19/14
L1421979-03	POND_SITE_3_20140919	WATER	CLINTON, MA	09/19/14 13:35	09/19/14
L1421979-04	TRIP BLANK	WATER	CLINTON, MA	09/19/14 00:00	09/19/14

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

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 all of the requirements of NELAC, for all NELAC accredited parameters. 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. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

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

HOLD POLICY

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

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

Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

A Trip Blank was received in the laboratory but not listed on the Chain of Custody. At the client's request, the Trip Blank was not analyzed.

Volatile Organics

In reference to question H:

The initial calibration, associated with L1421979-01 through -03, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.00359), as well as the average response factor for 1,4-dioxane. In addition, a quadratic fit was utilized for acetone.

The continuing calibration standard, associated with L1421979-01 through -03, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

Dissolved Metals

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

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:



Cristin Walker

Title: Technical Director/Representative

Date: 09/29/14

ORGANICS

VOLATILES

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-01
 Client ID: POND_SITE_1_20140919
 Sample Location: CLINTON, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 09/26/14 15:25
 Analyst: MS

Date Collected: 09/19/14 10:45
 Date Received: 09/19/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-01

Date Collected: 09/19/14 10:45

Client ID: POND_SITE_1_20140919

Date Received: 09/19/14

Sample Location: CLINTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-01

Date Collected: 09/19/14 10:45

Client ID: POND_SITE_1_20140919

Date Received: 09/19/14

Sample Location: CLINTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	116		70-130

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-02
 Client ID: POND_SITE_2_20140919
 Sample Location: CLINTON, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 09/26/14 15:58
 Analyst: MS

Date Collected: 09/19/14 12:00
 Date Received: 09/19/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-02

Date Collected: 09/19/14 12:00

Client ID: POND_SITE_2_20140919

Date Received: 09/19/14

Sample Location: CLINTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-02

Date Collected: 09/19/14 12:00

Client ID: POND_SITE_2_20140919

Date Received: 09/19/14

Sample Location: CLINTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	118		70-130

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-03
 Client ID: POND_SITE_3_20140919
 Sample Location: CLINTON, MA
 Matrix: Water
 Analytical Method: 97,8260C
 Analytical Date: 09/26/14 16:32
 Analyst: MS

Date Collected: 09/19/14 13:35
 Date Received: 09/19/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-03

Date Collected: 09/19/14 13:35

Client ID: POND_SITE_3_20140919

Date Received: 09/19/14

Sample Location: CLINTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-03

Date Collected: 09/19/14 13:35

Client ID: POND_SITE_3_20140919

Date Received: 09/19/14

Sample Location: CLINTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	118		70-130

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/26/14 11:36
 Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG726019-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/26/14 11:36
 Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG726019-3					
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylene (Total)	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene (total)	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--

Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/26/14 11:36
 Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG726019-3					
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	118		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG726019-1 WG726019-2								
Methylene chloride	93		93		70-130	0		20
1,1-Dichloroethane	83		84		70-130	1		20
Chloroform	101		100		70-130	1		20
Carbon tetrachloride	99		100		70-130	1		20
1,2-Dichloropropane	71		72		70-130	1		20
Dibromochloromethane	91		93		70-130	2		20
1,1,2-Trichloroethane	90		90		70-130	0		20
Tetrachloroethene	96		96		70-130	0		20
Chlorobenzene	98		99		70-130	1		20
Trichlorofluoromethane	100		103		70-130	3		20
1,2-Dichloroethane	92		93		70-130	1		20
1,1,1-Trichloroethane	100		102		70-130	2		20
Bromodichloromethane	100		104		70-130	4		20
trans-1,3-Dichloropropene	86		88		70-130	2		20
cis-1,3-Dichloropropene	90		93		70-130	3		20
1,1-Dichloropropene	91		94		70-130	3		20
Bromoform	84		85		70-130	1		20
1,1,2,2-Tetrachloroethane	88		90		70-130	2		20
Benzene	94		96		70-130	2		20
Toluene	92		93		70-130	1		20
Ethylbenzene	95		96		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG726019-1 WG726019-2								
Chloromethane	55	Q	57	Q	70-130	4		20
Bromomethane	51	Q	55	Q	70-130	8		20
Vinyl chloride	67	Q	70		70-130	4		20
Chloroethane	80		82		70-130	2		20
1,1-Dichloroethene	95		99		70-130	4		20
trans-1,2-Dichloroethene	95		95		70-130	0		20
Trichloroethene	102		105		70-130	3		20
1,2-Dichlorobenzene	96		98		70-130	2		20
1,3-Dichlorobenzene	96		99		70-130	3		20
1,4-Dichlorobenzene	93		96		70-130	3		20
Methyl tert butyl ether	91		93		70-130	2		20
p/m-Xylene	97		98		70-130	1		20
o-Xylene	93		95		70-130	2		20
cis-1,2-Dichloroethene	99		100		70-130	1		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	87		90		70-130	3		20
Styrene	94		95		70-130	1		20
Dichlorodifluoromethane	72		73		70-130	1		20
Acetone	100		95		70-130	5		20
Carbon disulfide	69	Q	70		70-130	1		20
2-Butanone	104		109		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG726019-1 WG726019-2								
4-Methyl-2-pentanone	75		73		70-130	3		20
2-Hexanone	79		83		70-130	5		20
Bromochloromethane	105		108		70-130	3		20
Tetrahydrofuran	75		78		70-130	4		20
2,2-Dichloropropane	96		99		70-130	3		20
1,2-Dibromoethane	93		95		70-130	2		20
1,3-Dichloropropane	90		93		70-130	3		20
1,1,1,2-Tetrachloroethane	88		92		70-130	4		20
Bromobenzene	94		94		70-130	0		20
n-Butylbenzene	94		97		70-130	3		20
sec-Butylbenzene	91		94		70-130	3		20
tert-Butylbenzene	93		94		70-130	1		20
o-Chlorotoluene	92		95		70-130	3		20
p-Chlorotoluene	94		96		70-130	2		20
1,2-Dibromo-3-chloropropane	85		92		70-130	8		20
Hexachlorobutadiene	98		99		70-130	1		20
Isopropylbenzene	101		103		70-130	2		20
p-Isopropyltoluene	93		97		70-130	4		20
Naphthalene	74		78		70-130	5		20
n-Propylbenzene	92		94		70-130	2		20
1,2,3-Trichlorobenzene	81		82		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG726019-1 WG726019-2								
1,2,4-Trichlorobenzene	87		91		70-130	4		20
1,3,5-Trimethylbenzene	91		93		70-130	2		20
1,2,4-Trimethylbenzene	94		95		70-130	1		20
Ethyl ether	102		104		70-130	2		20
Isopropyl Ether	66	Q	67	Q	70-130	2		20
Ethyl-Tert-Butyl-Ether	69	Q	70		70-130	1		20
Tertiary-Amyl Methyl Ether	85		88		70-130	3		20
1,4-Dioxane	102		105		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		93		70-130
Toluene-d8	96		97		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	105		104		70-130

METALS

Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-01
 Client ID: POND_SITE_1_20140919
 Sample Location: CLINTON, MA
 Matrix: Water

Date Collected: 09/19/14 10:45
 Date Received: 09/19/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
-----------	--------	-----------	-------	----	-----	-----------------	---------------	---------------	-------------	-------------------	---------

Total Hardness by SM 2340B - Westborough Lab

Hardness	40.		mg/l	0.66	NA	1	09/25/14 14:24	09/26/14 09:20	EPA 3005A	1,6010C	MG
----------	-----	--	------	------	----	---	----------------	----------------	-----------	---------	----

MCP Total Metals - Westborough Lab

Arsenic, Total	0.028		mg/l	0.005	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Barium, Total	0.011		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Cadmium, Total	ND		mg/l	0.004	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Chromium, Total	ND		mg/l	0.01	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Copper, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Iron, Total	1.8		mg/l	0.05	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Lead, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Manganese, Total	1.17		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Mercury, Total	ND		mg/l	0.0002	--	1	09/22/14 11:05	09/22/14 19:58	EPA 7470A	97,7470A	AK
Selenium, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Silver, Total	ND		mg/l	0.007	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT
Zinc, Total	ND		mg/l	0.050	--	1	09/25/14 14:24	09/29/14 10:58	EPA 3005A	97,6010C	TT

MCP Dissolved Metals - Westborough Lab

Arsenic, Dissolved	0.019		mg/l	0.005	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Barium, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Cadmium, Dissolved	ND		mg/l	0.004	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Chromium, Dissolved	ND		mg/l	0.01	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Copper, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Iron, Dissolved	0.71		mg/l	0.05	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Lead, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Manganese, Dissolved	1.04		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Mercury, Dissolved	ND		mg/l	0.0002	--	1	09/25/14 11:53	09/25/14 18:49	EPA 7470A	97,7470A	AK
Selenium, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Silver, Dissolved	ND		mg/l	0.007	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC
Zinc, Dissolved	ND		mg/l	0.050	--	1	09/20/14 10:22	09/27/14 10:09	NA	97,6010C	BC



Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-02
 Client ID: POND_SITE_2_20140919
 Sample Location: CLINTON, MA
 Matrix: Water

Date Collected: 09/19/14 12:00
 Date Received: 09/19/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab											
Hardness	74.		mg/l	0.66	NA	1	09/25/14 14:24	09/26/14 09:38	EPA 3005A	1,6010C	MG

MCP Total Metals - Westborough Lab

Arsenic, Total	0.148		mg/l	0.005	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Barium, Total	0.048		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Cadmium, Total	ND		mg/l	0.004	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Chromium, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Copper, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Iron, Total	21		mg/l	0.05	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Lead, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Manganese, Total	7.56		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Mercury, Total	ND		mg/l	0.0002	--	1	09/22/14 11:05	09/22/14 20:00	EPA 7470A	97,7470A	AK
Selenium, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Silver, Total	ND		mg/l	0.007	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT
Zinc, Total	ND		mg/l	0.050	--	1	09/25/14 14:24	09/29/14 11:17	EPA 3005A	97,6010C	TT

MCP Dissolved Metals - Westborough Lab

Arsenic, Dissolved	0.017		mg/l	0.005	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Barium, Dissolved	0.027		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Cadmium, Dissolved	ND		mg/l	0.004	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Chromium, Dissolved	ND		mg/l	0.0100	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Copper, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Iron, Dissolved	0.42		mg/l	0.05	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Lead, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Manganese, Dissolved	5.19		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Mercury, Dissolved	ND		mg/l	0.0002	--	1	09/25/14 11:53	09/25/14 18:52	EPA 7470A	97,7470A	AK
Selenium, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Silver, Dissolved	ND		mg/l	0.007	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC
Zinc, Dissolved	ND		mg/l	0.050	--	1	09/20/14 10:22	09/27/14 10:13	NA	97,6010C	BC



Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-03
 Client ID: POND_SITE_3_20140919
 Sample Location: CLINTON, MA
 Matrix: Water

Date Collected: 09/19/14 13:35
 Date Received: 09/19/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
-----------	--------	-----------	-------	----	-----	-----------------	---------------	---------------	-------------	-------------------	---------

Total Hardness by SM 2340B - Westborough Lab

Hardness	45.		mg/l	0.66	NA	1	09/25/14 14:24	09/26/14 09:42	EPA 3005A	1,6010C	MG
----------	-----	--	------	------	----	---	----------------	----------------	-----------	---------	----

MCP Total Metals - Westborough Lab

Arsenic, Total	0.877		mg/l	0.005	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Barium, Total	0.035		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Cadmium, Total	ND		mg/l	0.004	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Chromium, Total	ND		mg/l	0.01	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Copper, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Iron, Total	61		mg/l	0.05	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Lead, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Manganese, Total	3.56		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Mercury, Total	ND		mg/l	0.0002	--	1	09/22/14 11:05	09/22/14 20:02	EPA 7470A	97,7470A	AK
Selenium, Total	ND		mg/l	0.010	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Silver, Total	ND		mg/l	0.007	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT
Zinc, Total	ND		mg/l	0.050	--	1	09/25/14 14:24	09/29/14 11:21	EPA 3005A	97,6010C	TT

MCP Dissolved Metals - Westborough Lab

Arsenic, Dissolved	0.022		mg/l	0.005	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Barium, Dissolved	0.025		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Cadmium, Dissolved	ND		mg/l	0.004	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Chromium, Dissolved	ND		mg/l	0.01	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Copper, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Iron, Dissolved	5.2		mg/l	0.05	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Lead, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Manganese, Dissolved	3.53		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Mercury, Dissolved	ND		mg/l	0.0002	--	1	09/25/14 11:53	09/25/14 18:54	EPA 7470A	97,7470A	AK
Selenium, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Silver, Dissolved	ND		mg/l	0.007	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC
Zinc, Dissolved	ND		mg/l	0.050	--	1	09/20/14 10:22	09/27/14 10:18	NA	97,6010C	BC



Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG724039-1										
Mercury, Total	ND		mg/l	0.0002	--	1	09/22/14 11:05	09/22/14 19:49	97,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01-03 Batch: WG725232-1										
Mercury, Dissolved	ND		mg/l	0.0002	--	1	09/25/14 11:53	09/25/14 18:43	97,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-03 Batch: WG725310-1										
Hardness	ND		mg/l	0.66	NA	1	09/25/14 14:24	09/26/14 09:12	1,6010C	MG

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01-03 Batch: WG725668-1										
Arsenic, Dissolved	ND		mg/l	0.005	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Barium, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Cadmium, Dissolved	ND		mg/l	0.004	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Chromium, Dissolved	ND		mg/l	0.01	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Copper, Dissolved	ND		mg/l	0.010	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Iron, Dissolved	ND		mg/l	0.05	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC



Project Name: CLINTON POND

Lab Number: L1421979

Project Number: 133026

Report Date: 09/29/14

Method Blank Analysis Batch Quality Control

Lead, Dissolved	ND	mg/l	0.010	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Manganese, Dissolved	ND	mg/l	0.010	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Selenium, Dissolved	ND	mg/l	0.010	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Silver, Dissolved	ND	mg/l	0.007	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC
Zinc, Dissolved	ND	mg/l	0.050	--	1	09/20/14 10:22	09/27/14 09:54	97,6010C	BC

Prep Information

Digestion Method: NA

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG726160-1									
Arsenic, Total	ND	mg/l	0.005	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Barium, Total	ND	mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Cadmium, Total	ND	mg/l	0.004	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Chromium, Total	ND	mg/l	0.01	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Copper, Total	ND	mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Iron, Total	ND	mg/l	0.05	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Lead, Total	ND	mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Manganese, Total	ND	mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Selenium, Total	ND	mg/l	0.010	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Silver, Total	ND	mg/l	0.007	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT
Zinc, Total	ND	mg/l	0.050	--	1	09/25/14 14:24	09/29/14 10:50	97,6010C	TT

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG724039-2 WG724039-3								
Mercury, Total	107		102		80-120	5		20
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG725232-2 WG725232-3								
Mercury, Dissolved	95		96		80-120	1		20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-03 Batch: WG725310-2								
Hardness	103		-		80-120	-		
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG725668-2 WG725668-3								
Arsenic, Dissolved	105		105		80-120	0		20
Barium, Dissolved	98		98		80-120	0		20
Cadmium, Dissolved	104		104		80-120	0		20
Chromium, Dissolved	95		95		80-120	0		20
Copper, Dissolved	96		95		80-120	1		20
Iron, Dissolved	100		100		80-120	0		20
Lead, Dissolved	100		100		80-120	0		20
Manganese, Dissolved	101		100		80-120	1		20
Selenium, Dissolved	107		107		80-120	0		20
Silver, Dissolved	95		96		80-120	1		20
Zinc, Dissolved	100		100		80-120	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG726160-2					
Arsenic, Total	110	-	80-120	-	20
Barium, Total	102	-	80-120	-	20
Cadmium, Total	110	-	80-120	-	20
Chromium, Total	100	-	80-120	-	20
Copper, Total	103	-	80-120	-	20
Iron, Total	100	-	80-120	-	20
Lead, Total	107	-	80-120	-	20
Manganese, Total	99	-	80-120	-	20
Selenium, Total	112	-	80-120	-	20
Silver, Total	103	-	80-120	-	20
Zinc, Total	104	-	80-120	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG725310-4 QC Sample: L1400009-91 Client ID: MS Sample												
Hardness	40	66.2	100	91		-	-		75-125	-		20

Lab Duplicate Analysis Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG725310-3 QC Sample: L1400009-91 Client ID: DUP Sample						
Hardness	40	40	mg/l	0		20
MCP Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG726160-3 QC Sample: L1421979-01 Client ID: POND_SITE_1_20140919						
Arsenic, Total	0.028	0.030	mg/l	4		20
Barium, Total	0.011	0.012	mg/l	1		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	ND	ND	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Iron, Total	1.8	1.8	mg/l	0		20
Lead, Total	ND	ND	mg/l	NC		20
Manganese, Total	1.17	1.19	mg/l	2		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-01

Client ID: POND_SITE_1_20140919

Sample Location: CLINTON, MA

Matrix: Water

Date Collected: 09/19/14 10:45

Date Received: 09/19/14

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, True	36		A.P.C.U.	5.0	--	1	-	09/19/14 19:57	30,2120B	MR
Alkalinity, Total	39.2		mg CaCO3/L	2.00	NA	1	-	09/22/14 09:24	30,2320B	SG
Solids, Total Suspended	7.2		mg/l	5.0	NA	1	-	09/25/14 14:25	30,2540D	DW
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	09/20/14 16:00	09/22/14 20:48	30,4500NH3-BH	AT



Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-02
 Client ID: POND_SITE_2_20140919
 Sample Location: CLINTON, MA
 Matrix: Water

Date Collected: 09/19/14 12:00
 Date Received: 09/19/14
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, True	18		A.P.C.U.	5.0	--	1	-	09/19/14 19:57	30,2120B	MR
Alkalinity, Total	90.0		mg CaCO3/L	2.00	NA	1	-	09/22/14 09:24	30,2320B	SG
Solids, Total Suspended	17.		mg/l	5.0	NA	1	-	09/25/14 14:25	30,2540D	DW
Nitrogen, Ammonia	1.13		mg/l	0.075	--	1	09/20/14 16:00	09/22/14 20:49	30,4500NH3-BH	AT



Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

SAMPLE RESULTS

Lab ID: L1421979-03

Client ID: POND_SITE_3_20140919

Sample Location: CLINTON, MA

Matrix: Water

Date Collected: 09/19/14 13:35

Date Received: 09/19/14

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, True	12		A.P.C.U.	5.0	--	1	-	09/19/14 19:57	30,2120B	MR
Alkalinity, Total	58.0		mg CaCO3/L	2.00	NA	1	-	09/22/14 09:24	30,2320B	SG
Solids, Total Suspended	140		mg/l	15	NA	3	-	09/25/14 14:20	30,2540D	DW
Nitrogen, Ammonia	3.78		mg/l	0.075	--	1	09/20/14 16:00	09/22/14 20:50	30,4500NH3-BH	AT



Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

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: WG723847-1										
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	09/20/14 16:00	09/22/14 20:45	30,4500NH3-BH	AT
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG724104-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	09/22/14 09:24	30,2320B	SG
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG725138-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	09/25/14 14:25	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG725142-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	09/25/14 14:20	30,2540D	DW

Lab Control Sample Analysis

Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG723847-2								
Nitrogen, Ammonia	89		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG724104-3								
Alkalinity, Total	104		-		90-110	-		10

Matrix Spike Analysis

Batch Quality Control

Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

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: WG723847-4 QC Sample: L1421953-08 Client ID: MS Sample												
Nitrogen, Ammonia	0.127	4	4.14	100		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG724104-4 QC Sample: L1421901-02 Client ID: MS Sample												
Alkalinity, Total	27.8	100	131	103		-	-		86-116	-		10

Lab Duplicate Analysis

Batch Quality Control

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG723717-1 QC Sample: L1421979-01 Client ID: POND_SITE_1_20140919						
Color, True	36	36	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG723847-3 QC Sample: L1421953-08 Client ID: DUP Sample						
Nitrogen, Ammonia	0.127	0.126	mg/l	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG724104-2 QC Sample: L1421901-02 Client ID: DUP Sample						
Alkalinity, Total	27.8	27.8	mg CaCO3/L	0		10
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG725138-2 QC Sample: L1422286-01 Client ID: DUP Sample						
Solids, Total Suspended	390	370	mg/l	5		29
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG725142-2 QC Sample: L1421979-03 Client ID: POND_SITE_3_20140919						
Solids, Total Suspended	140	150	mg/l	7		29

Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1421979-01A	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-01B	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-01C	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-01D	Plastic 250ml unpreserved	A	N/A	3.8	Y	Absent	ALK-T-2320(14)
L1421979-01E	Plastic 250ml H2SO4 preserved	A	<2	3.8	Y	Absent	NH3-4500(28)
L1421979-01F	Plastic 500ml unpreserved	A	8	3.8	Y	Absent	FILTER-MET(1)
L1421979-01G	Plastic 250ml HNO3 preserved	A	<2	3.8	Y	Absent	MCP-CR-6010T-10(180),MCP-FE-6010T-10(180),MCP-MN-6010T-10(180),MCP-7470T-10(28),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-CU-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180),HARDT(180),MCP-PB-6010T-10(180)
L1421979-01H	Amber 250ml unpreserved	A	8	3.8	Y	Absent	COLOR-T-2120(2)
L1421979-01I	Plastic 1000ml unpreserved	A	8	3.8	Y	Absent	TSS-2540(7)
L1421979-01X	Plastic 250ml HNO3 preserved spl	A	<2	3.8	Y	Absent	MCP-CD-6010S-10(180),MCP-FE-6010S-10(180),MCP-7470S-10(28),MCP-AG-6010S-10(180),MCP-ZN-6010S-10(180),MCP-AS-6010S-10(180),MCP-CR-6010S-10(180),MCP-BA-6010S-10(180),MCP-MN-6010S-10(180),MCP-PB-6010S-10(180),MCP-CU-6010S-10(180),MCP-SE-6010S-10(180)
L1421979-02A	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-02B	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-02C	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-02D	Plastic 250ml unpreserved	A	N/A	3.8	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days



Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1421979-02E	Plastic 250ml H2SO4 preserved	A	<2	3.8	Y	Absent	NH3-4500(28)
L1421979-02F	Plastic 500ml unpreserved	A	8	3.8	Y	Absent	FILTER-MET(1)
L1421979-02G	Plastic 250ml HNO3 preserved	A	<2	3.8	Y	Absent	MCP-CR-6010T-10(180),MCP-FE-6010T-10(180),MCP-MN-6010T-10(180),MCP-7470T-10(28),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-CU-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),HARDT(180),MCP-PB-6010T-10(180)
L1421979-02H	Amber 250ml unpreserved	A	8	3.8	Y	Absent	COLOR-T-2120(2)
L1421979-02I	Plastic 1000ml unpreserved	A	8	3.8	Y	Absent	TSS-2540(7)
L1421979-02X	Plastic 250ml HNO3 preserved spl	A	<2	3.8	Y	Absent	MCP-CD-6010S-10(180),MCP-FE-6010S-10(180),MCP-7470S-10(28),MCP-AG-6010S-10(180),MCP-ZN-6010S-10(180),MCP-AS-6010S-10(180),MCP-CR-6010S-10(180),MCP-BA-6010S-10(180),MCP-MN-6010S-10(180),MCP-PB-6010S-10(180),MCP-CU-6010S-10(180),MCP-SE-6010S-10(180)
L1421979-03A	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-03B	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-03C	Vial HCl preserved	A	N/A	3.8	Y	Absent	MCP-8260-10(14)
L1421979-03D	Plastic 250ml unpreserved	A	N/A	3.8	Y	Absent	ALK-T-2320(14)
L1421979-03E	Plastic 250ml H2SO4 preserved	A	<2	3.8	Y	Absent	NH3-4500(28)
L1421979-03F	Plastic 500ml unpreserved	A	8	3.8	Y	Absent	FILTER-MET(1)
L1421979-03G	Plastic 250ml HNO3 preserved	A	<2	3.8	Y	Absent	MCP-CR-6010T-10(180),MCP-FE-6010T-10(180),MCP-MN-6010T-10(180),MCP-7470T-10(28),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-CU-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),HARDT(180),MCP-PB-6010T-10(180)
L1421979-03H	Amber 250ml unpreserved	A	8	3.8	Y	Absent	COLOR-T-2120(2)
L1421979-03I	Plastic 1000ml unpreserved	A	8	3.8	Y	Absent	TSS-2540(7)

*Values in parentheses indicate holding time in days



Project Name: CLINTON POND

Project Number: 133026

Lab Number: L1421979

Report Date: 09/29/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1421979-03X	Plastic 250ml HNO3 preserved spl	A	<2	3.8	Y	Absent	MCP-CD-6010S-10(180),MCP-FE-6010S-10(180),MCP-7470S-10(28),MCP-AG-6010S-10(180),MCP-ZN-6010S-10(180),MCP-AS-6010S-10(180),MCP-CR-6010S-10(180),MCP-BA-6010S-10(180),MCP-MN-6010S-10(180),MCP-PB-6010S-10(180),MCP-CU-6010S-10(180),MCP-SE-6010S-10(180)
L1421979-04A	Vial HCl preserved	A	N/A	3.8	Y	Absent	HOLD-8260(14)

Container Comments

L1421979-01G

L1421979-01X

L1421979-02G

L1421979-02X

L1421979-03G

L1421979-03X

*Values in parentheses indicate holding time in days

Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
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.

Footnotes

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

Terms

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.

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.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

Data Qualifiers

- G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: CLINTON POND
Project Number: 133026

Lab Number: L1421979
Report Date: 09/29/14

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

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

Last revised April 15, 2014

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

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

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.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: 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, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,

SM426C, SM4500NH₃-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: 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: SVOC (Acid/Base/Neutral Extractables); **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

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

7A
Volatile Organics CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1421979

Instrument ID: Jack.i Calibration Date: 26-SEP-2014 Time: 09:58

Lab File ID: 0926A04 Init. Calib. Date(s): 03-AUG-2 03-AUG-2

Sample No: wg725-1,31,10 Init. Calib. Times : 11:07 15:59

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.75161	.54304	.1	-28	20	F
chloromethane	1.1523	.63799	.1	-45	20	F
vinyl chloride	.91863	.61447	.1	-33	20	F
bromomethane	.43671	.22185	.1	-49	20	F
chloroethane	.48637	.38987	.1	-20	20	
trichlorofluoromethane	.88516	.88961	.1	1	20	
ethyl ether	.25228	.25709	.05	2	20	
1,1,-dichloroethene	.56308	.5361	.1	-5	20	
carbon disulfide	1.8507	1.2808	.1	-31	20	F
methylene chloride	.65793	.61242	.1	-7	20	
acetone	100	100	.1	0	20	
trans-1,2-dichloroethene	.64047	.60622	.1	-5	20	
methyl tert butyl ether	1.1286	1.0270	.1	-9	20	
Diisopropyl Ether	2.3399	1.5462	.01	-34	20	F
1,1-dichloroethane	1.3635	1.1346	.2	-17	20	
Ethyl-Tert-Butyl-Ether	1.8892	1.2971	.05	-31	20	F
cis-1,2-dichloroethene	.7148	.70684	.1	-1	20	
2,2-dichloropropane	.96857	.92894	.05	-4	20	
bromochloromethane	.31684	.33384	.05	5	20	
chloroform	1.1299	1.1426	.2	1	20	
carbontetrachloride	.89165	.88442	.1	-1	20	
tetrahydrofuran	.13642	.10292	.05	-25	20	F
1,1,1-trichloroethane	1.0050	1.0022	.1	0	20	
1,1-dichloropropene	.93156	.84386	.05	-9	20	
2-butanone	.16636	.1734	.1	4	20	
benzene	2.6452	2.4937	.5	-6	20	
Tertiary-Amyl Methyl Ether	1.2966	1.1079	.05	-15	20	
1,2-dichloroethane	.77061	.713	.1	-7	20	
trichloroethene	.65087	.6635	.2	2	20	
dibromomethane	.31887	.31816	.05	0	20	
1,2-dichloropropane	.83511	.59474	.1	-29	20	F
bromodichloromethane	.58628	.58941	.2	1	20	
1,4-dioxane	.00355	.00361	.05	2	20	F
cis-1,3-dichloropropene	1.0059	.91061	.2	-9	20	
toluene	2.0009	1.8419	.4	-8	20	
tetrachloroethene	.94434	.90806	.2	-4	20	
4-methyl-2-pentanone	.14057	.10601	.1	-25	20	F
trans-1,3-dichloropropene	.90802	.78478	.1	-14	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1421979

Instrument ID: Jack.i Calibration Date: 26-SEP-2014 Time: 09:58

Lab File ID: 0926A04 Init. Calib. Date(s): 03-AUG-2 03-AUG-2

Sample No: wg725-1,31,10 Init. Calib. Times : 11:07 15:59

Compound	RRF	RRF	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,1,2-trichloroethane	.41759	.37478	.1	-10	20
chlorodibromomethane	.64219	.58444	.1	-9	20
1,3-dichloropropane	.88518	.79972	.05	-10	20
1,2-dibromoethane	.51863	.48323	.1	-7	20
2-hexanone	.27879	.22035	.1	-21	20
chlorobenzene	2.3036	2.2471	.5	-2	20
ethyl benzene	4.0078	3.8184	.1	-5	20
1,1,1,2-tetrachloroethane	.77667	.68756	.05	-11	20
p/m xylene	1.6172	1.5741	.1	-3	20
o xylene	1.5645	1.4484	.3	-7	20
bromoform	.6713	.56128	.1	-16	20
styrene	2.5409	2.4015	.3	-5	20
isopropylbenzene	7.728	7.7863	.1	1	20
bromobenzene	1.7568	1.6494	.05	-6	20
n-propylbenzene	8.3252	7.6804	.05	-8	20
1,1,2,2,-tetrachloroethane	.92828	.81517	.3	-12	20
2-chlorotoluene	5.3652	4.9546	.05	-8	20
1,2,3-trichloropropane	.77242	.67367	.05	-13	20
1,3,5-trimethylbenzene	5.9812	5.4456	.05	-9	20
4-chlorotoluene	4.8637	4.5634	.05	-6	20
tert-butylbenzene	5.4063	5.0084	.05	-7	20
1,2,4-trimethylbenzene	6.0207	5.6294	.05	-6	20
sec-butylbenzene	7.7906	7.119	.01	-9	20
p-isopropyltoluene	6.6817	6.1879	.05	-7	20
1,3-dichlorobenzene	3.3739	3.2374	.6	-4	20
1,4-dichlorobenzene	3.3819	3.1393	.5	-7	20
n-butylbenzene	5.3321	5.0295	.05	-6	20
1,2-dichlorobenzene	2.9804	2.8535	.4	-4	20
1,2-dibromo-3-chloropropane	.15524	.13183	.05	-15	20
1,2,4-trichlorobenzene	1.6421	1.4266	.2	-13	20
hexachlorobutadiene	.69636	.68082	.05	-2	20
naphthalene	3.0772	2.2882	.05	-26	20
1,2,3-trichlorobenzene	1.2804	1.0406	.05	-19	20
=====	=====	=====	=====	=====	=====
dibromofluoromethane	.26525	.27937	.05	5	20
1,2-dichloroethane-d4	.28919	.26322	.05	-9	20
toluene-d8	1.2392	1.1884	.01	-4	20
4-bromofluorobenzene	.86874	.81998	.05	-6	20

F

F

FORM VII MCP-8260-10

Appendix C
ESA and NHPA Letters



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104
<http://www.fws.gov/newengland>

In Reply Refer To:
Consultation Code: 05E1NE00-2021-SLI-1243
Event Code: 05E1NE00-2021-E-03975
Project Name: South Meadow Pond Remediation

February 04, 2021

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>;

<http://www.towerkill.com>; and

[http://](http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html)

www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office

70 Commercial Street, Suite 300

Concord, NH 03301-5094

(603) 223-2541

Project Summary

Consultation Code: 05E1NE00-2021-SLI-1243

Event Code: 05E1NE00-2021-E-03975

Project Name: South Meadow Pond Remediation

Project Type: DREDGE / EXCAVATION

Project Description: Dredging of portions of South Meadow Pond to remove iron flocculent and arsenic present in soils.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@42.413191600000005,-71.71406886945707,14z>



Counties: Worcester County, Massachusetts

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



The Commonwealth of Massachusetts
William Francis Galvin, Secretary of the Commonwealth
Massachusetts Historical Commission

December 3, 2019

Christopher J. McGown
Superintendent
Clinton Department of Public Works
242 Church Street
Clinton MA 01510

DEC 09 2019

RE: South End of South Meadow Pond Dredging, Recapping of Clinton Landfill & Remediation of South Meadow Pond, Clinton, MA. EEA#14958. MHC #RC.2975.

Dear Mr. McGown:

Staff of the Massachusetts Historical Commission (MHC) have reviewed the information provided for the project referenced above, consisting of the project plans "Design for Clinton Landfill Remediation, Dredging of South End of South Meadow Pond," prepared by Brown and Caldwell, dated October 2019, with the Notice of Project Change for the project, received by the MHC on November 19, 2019.

The MHC believes that the project is unlikely to affect any significant historic or archaeological resources.

These comments are offered to assist in compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (36 CFR 800), M.G.L. Chapter 9, ss. 26-27C (950 CMR 71), and MEPA (301 CMR 11). If you have any questions or need any information, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to be "E. Bell", written over a horizontal line.

Edward L. Bell
Deputy State Historic Preservation Officer
Massachusetts Historical Commission

xc:

Secretary Kathleen A. Theoharides, Attn. Anne Canaday, MEPA Office
David S. Robinson, Mass. Board of Underwater Archaeological Resources
Elizabeth W. Wilson, Brown and Caldwell