

Langdon Environmental LLC

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August 22, 2023

Mr. Mark Fairbrother
Massachusetts Department of Environmental Protection
Northeast Regional Office
205B Lowell Street
Wilmington, Massachusetts 01887

Subject: Results of Water Quality Sampling Event – July 14, 2023
Concord Avenue Landfill, Belmont Massachusetts

Dear Mr. Fairbrother:

On July 14, 2023, personnel from Geologic Field Services, Inc. (GFS) under subcontract to Langdon Environmental, LLC (Langdon) collected samples from the groundwater monitoring wells and surface water locations at the Concord Avenue Landfill in Belmont (Landfill). The sampling program was performed in accordance with the requirements of the Solid Waste Management Regulations (310 CMR 19.000, the Regulations) and the program outlined in the Interim Environmental Monitoring Plan for the Landfill. This letter report presents the results of the July 2023 sampling event.

Summary of Sampling Program

The following is a summary of the implemented sampling event:

- **Groundwater Sampling Program.** GFS collected samples from monitoring wells GW-1, GW-2R, GW-3, GW-4, and GW-5. The location of the monitoring wells is shown on the attached figure. Groundwater is assumed to flow generally from north to south across the site. A duplicate sample for quality assurance/quality control (QA/QC) purposes was collected from monitoring well GW-4.
- **Surface Water Sampling Program.** GFS collected surface water samples from locations SW-1, SW-2, and SW-3. SW-4 was dry at the time of the sampling event. Each sample location is shown on the attached figure. The surface water locations include an upstream location, SW-1, located immediately adjacent to Concord Avenue and three downstream locations.

Water quality samples were measured in the field for temperature, specific conductivity, dissolved oxygen, and pH. The results of the field parameters are summarized on Table 2 for groundwater and Table 4 for surface water.

Samples were delivered to Alpha Analytical Laboratories (Alpha) of Westborough, Massachusetts for analysis. The collected water quality samples were analyzed for the standard list of parameters required by the Regulations and the Interim Environmental Monitoring Plan. Groundwater samples for metals were analyzed as dissolved metals and were filtered in the field. Surface water samples for metals were also filtered. The results for groundwater samples are presented on Tables 2 and 3 and

results for surface water are summarized on Tables 4 and 5. A copy of the laboratory data sheets for this round of samples are attached to this letter.

Quality Control Samples

Quality control samples are collected to verify that laboratory and sampling procedures are consistent and to indicate any possible cross contamination and resulting false positive analysis results. The trip blank results were not detected to the reporting limit, indicating that the field sample storage and transport did not introduce contaminants.

Summary of Groundwater Sampling Results

This monitoring report presents the results of the groundwater sampling event in tabular form as indicated below:

- Table 1 summarizes the groundwater levels measured at each monitoring well.
- Table 2 summarizes the field parameters and the analytical results for indicator parameters (alkalinity, total dissolved solids (TDS), nitrate-nitrogen, total cyanide, sulfate, chloride, and chemical oxygen demand (COD)); dissolved metals (arsenic, barium, cadmium, calcium, chromium, copper, iron, lead, manganese, mercury, selenium, silver, sodium, and zinc); and parameters measured in the field (pH, temperature, dissolved oxygen, and specific conductivity) for groundwater samples.
- Table 3 summarizes the analytical results of volatile organic compounds (VOCs) for groundwater samples including analysis for 1,4-dioxane with a detection limit below its MassDEP Office of Research and Standards Guideline (ORSG) of 0.3 µg/l.

The Regulations require that groundwater sampling results be compared to the established federal EPA Drinking Water Standards and the State Primary Maximum Contaminant Level (MCL) and Secondary Maximum Contaminant Level (SMCL) standards for each parameter. Provided below are the groundwater samples with detectable concentrations that exceeded either the State or federal Drinking Water Standards (DWS), ORSGs, or MCLs.

- 1,4-dioxane was detected at a concentration of 0.525 µg/l at GW-5 but was not detected at any of the other monitoring wells. There were no other VOCs detected above the standards or guidelines.

Analytical results that exceed applicable standards appear shaded in each table. The results of this sampling event are discussed below.

- There were no MCLs and/or EPA Primary Drinking Water Standards exceeded in any of the groundwater samples collected and analyzed. However, the detection limit for Alpha Labs for 1,2 Dibromoethane, 1,2-Dibromo-3-Chloropropane, and 1,3-Dichloropropene, Total (2 µg/L, 2.5 µg/L, and 0.40 µg/L), was above the standard for the respective parameter. All samples tested below the detection limit.
- SMCLs, state guidelines and/or EPA Secondary Drinking Water Standards for pH were met or exceeded in GW-2R, GW-3, GW-4, and GW-5. SMCLs, state guidelines and/or EPA Secondary Drinking Water Standards were met or exceeded for manganese, iron, and total dissolved solids in GW-1, GW-4, the duplicate sample for GW-4, and GW-5. SMCLs, state guidelines

and/or EPA Secondary Drinking Water Standards were met or exceeded for sodium at GW-1, GW-2R, GW-4, the duplicate sample for GW-4, and GW-5. Secondary standards are established for the aesthetics and taste of a public drinking supply and are not health based.

The results of the groundwater samples collected during this round are similar to those found during the past monitoring rounds conducted at the Landfill. Based on these results, Langdon does not recommend the collection of any additional samples from the monitoring wells within 60 days as required by section 19.132(2)(j)(2).

Summary of Results for Surface Water

The results for surface water are summarized on Tables 4 and 5 attached to this letter. The following is a summary of the results for the July 2023 round of surface water samples:

- **Comparison to Water Quality Standards.** In accordance with section 310 CMR 19.132(2)(j) of the Regulations, we are providing notification to MassDEP that the following samples exceed either the State or federal Drinking Water Standards, ORSGs, MCLs or Ambient Water Quality Standards established at 314 CMR 4.00: *Massachusetts Surface Water Quality Standards*:
 - MCLs: There were no exceedances of MCLs in the surface water sample taken during this round of monitoring. However, the detection limit for Alpha Labs for 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane, and 1,3-Dichloropropene, Total (2 µg/L, 2.5 µg/L, and 0.40 µg/L), was above the standard for the respective parameter. The sample tested below the detection limit.
 - ORSGs: There were exceedances of the ORSGs for manganese and sodium at sample locations SW-1, SW-2, and SW-3.
 - Ambient Water Quality Standards and SMCLs: Cyanide was detected above the NRWQC standard at SW-1. Iron was detected above the standard at SW-1, SW-2, and SW-3. The result for selenium at all locations was <10 µg/L which was the detection limit for Alpha Labs. This is above the NRWQC standard. Sodium was detected above the standard at SW-1, SW-2, and SW-3. The standards for several of the metals were adjusted for hardness as required by EPA standards. Cadmium was detected at <5 µg/L in all sample locations which was the detection limit for Alpha Labs. Lead was detected at <10 µg/L at all sample locations which was the detection limit for Alpha Labs. Copper was detected at <10 µg/L at all sample locations which was the detection limit for Alpha Labs. Silver was detected at <7 µg/L at all sample locations which was the detection limit for Alpha Labs. Zinc was detected at <50 µg/L at SW-1 which was the detection limit for Alpha Labs. These results are above the NRWQC standard.
- **Discussion of Significant Results - Surface Water.** In general, the surface water samples collected were below applicable comparative standards.

Given the limited number of exceedances of regulatory standards, Langdon does not recommend the collection of an additional sample from the surface water locations within 60 days as required by section 19.132(2)(j)(2).

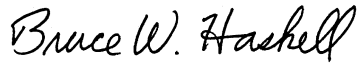
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In accordance with 310 CMR 19.011 of the MassDEP's Regulations, a copy of the required certification of this report by the appropriate responsible official for the Town is attached.

The next semi-annual water quality monitoring round is scheduled for January 2024.

Do not hesitate to contact me at (617) 875-3693 if you have any questions or require anything further on this matter.

Very truly yours,



Bruce W. Haskell, P.E.
Langdon Environmental LLC

cc: Glenn Clancy, Belmont



Certification

In accordance with the Massachusetts Solid Waste Management Regulations (310 CMR 19.011), the Town of Belmont, Massachusetts submits this certification for the attached July 2023 Semi-Annual Water Quality Sampling Report prepared for us by Langdon Environmental LLC.

I, Glenn Clancy, attest under the pains and penalties of perjury that: (a) I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification statement; (b) based upon my inquiry of those persons responsible for obtaining the information, the information contained in this submittal is, to the best of my knowledge, true, accurate, and complete; (c) I am fully authorized to bind the entity required to submit these documents and to make this attestation on behalf of such entity; (d) I am aware that there are significant penalties, including, but not limited to, possible administrative and civil penalties for submitting false, inaccurate, or incomplete information and possible fines and imprisonment for knowingly submitting false, inaccurate, or incomplete information.



Glenn Clancy, Director of Community Development
Town of Belmont

Date: 8/22/23



Table 1
Concord Avenue Landfill
Belmont, Massachusetts
Groundwater Monitoring Summary - July 14, 2023
Water Levels

Monitoring Well Number	Sample Date	Well Depth (feet)	Depth to Groundwater ¹ (feet)
GW-1	7/14/23	14.3	7.50
GW-2R	7/14/23	14.95	5.62
GW-3	7/14/23	10.25	6.70
GW-4	7/14/23	16.67	9.03
GW-5	7/14/23	17.75	7.90

Note:

¹ Depth to water measured from top of PVC

Table 2
Summary of Groundwater Sample Results - Samples Collected July 14, 2023
Results for Field Parameters, Conventional Parameters and Metals
Concord Avenue Landfill, Belmont, Massachusetts

		SAMPLE NUMBER	L2340469-01	L2340469-02	L2340469-03	L2340469-04	L2340469-06	L2340469-05
		SAMPLING DATE	7/14/2023	7/14/2023	7/14/2023	7/14/2023	7/14/2023	7/14/2023
		LOCATION ID	GW-1	GW-2R	GW-3	GW-4	DUP (GW-4)	GW-5
PARAMETER	Units	DRINKING WATER REGULATIONS						
FIELD PARAMETERS (Final Readings)								
Specific Conductance	μhos/cm	NL	894	813	1069	1036	NM	1710
Temperature	°C	NL	13.5	13.7	11.6	11.1	NM	12.0
Dissolved Oxygen	mg/L	NL	1.49	5.06	3.67	1.45	NM	1.45
pH	std units	6.5-8.5 (3,5)	6.54	6.07	6.35	6.16	NM	6.16
CONVENTIONAL PARAMETERS								
ALKALINITY	mg/l	NL	446	48	31.6	469	445	572
CHEMICAL OXYGEN DEMAND	mg/l	NL	160	87	85	120	110	140
CHLORIDE	mg/l	250(3,5)	15	200	7.3	76	70	160
CYANIDE, TOTAL	mg/l	0.2(4)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
NITRATE-NITROGEN	mg/l	10 (2,4)	<0.1	2.07	0.104	<0.1	<0.1	<0.1
SOLIDS, TOTAL DISSOLVED	mg/l	500 (3,5)	650	460	74	580	600	840
SULFATE	mg/l	250(3,5)	<10	17	<40	<20	<10	<10
METALS (Dissolved)								
ARSENIC	ug/l	10(2,4)	<5	<5	<5	6.5	<5	<5
BARIUM	ug/l	2000 (2,4)	121	35.9	15.9	83.5	81.2	578
CADMIUM	ug/l	5 (2,4)	<5	<5	<5	<5	<5	<5
CALCIUM	ug/l	NL	110000	36000	9910	128000	127000	132000
CHROMIUM	ug/l	100(2,4)	<10	<10	<10	<10	<10	<10
COPPER	ug/l	1300 (2,4)	18.5	<10	<10	<10	<10	<10
IRON	ug/l	300 (3,5)	1170	<50	52.5	34700	34000	54200
LEAD	ug/l	15 (2,4)	<10	<10	<10	<10	<10	<10
MANGANESE	ug/l	50 (3,5)	141	16.1	<10	2410	2390	935
MERCURY	ug/l	2 (2,4)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SELENIUM	ug/l	50 (2,4)	<10	<10	<10	<10	<10	<10
SILVER	ug/l	100 (3,5)	<7	<7	<7	<7	<7	<7
SODIUM	ug/l	20000 (3,5)	36900	122000	6230	41200	40000	89600
ZINC	ug/l	5000 (3,5)	<50	<50	<50	51.1	<50	<50

NOTES:

- (1) EXCEEDANCES OF MASSACHUSETTS OR EPA DRINKING WATER STANDARDS SHOWN SHADED IN BLUE
- (2) MASSACHUSETTS DRINKING WATER STANDARD
- (3) MASSACHUSETTS DRINKING WATER GUIDELINE OR SECONDARY MAXIMUM CONTAMINANT LEVEL
- (4) EPA PRIMARY DRINKING WATER STANDARD
- (5) EPA SECONDARY DRINKING WATER STANDARD
- (6) ESTIMATED VALUE, BELOW QUANTITATION LIMIT
- (7) VALUES SHOWN SHADED IN DARK GRAY INDICATE REPORTING LIMITS EQUAL TO OR GREATER THAN CORRESPONDING CRITERIA OR GUIDELINE
- (8) <#. # NOT DETECTED TO THE LIMIT INDICATED
- (9) NL NO LIMIT
- (10) NA NOT AVAILABLE
- (11) NM NOT MEASURED

Table 3
Summary of Groundwater Sample Results - Samples Collected July 14, 2023
Results for Volatile Organic Compounds
Concord Avenue Landfill, Belmont, Massachusetts

PARAMETER	Units	DRINKING WATER REGULATIONS	SAMPLE NUMBER	L2340469-01	L2340469-02	L2340469-03	L2340469-04	L2340469-06	L2340469-05	L2340469-10
			SAMPLING DATE	7/14/2023	7/14/2023	7/14/2023	7/14/2023	7/14/2023	7/14/2023	7/14/2023
			LOCATION ID	GW-1	GW-2R	GW-3	GW-4	DUP (GW-4)	GW-5	TRIP BLANK
PARAMETER	Units	DRINKING WATER REGULATIONS								
VOLATILE ORGANICS										
1,1,1,2-TETRACHLOROETHANE	ug/l	NL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-TRICHLOROETHANE	ug/l	200 (2,4)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-TETRACHLOROETHANE	ug/l	NL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-TRICHLOROETHANE	ug/l	5 (2,4)	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
1,1-DICHLOROETHANE	ug/l	70 (3)	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
1,1-DICHLOROETHENE	ug/l	7 (2,4)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROPROPENE	ug/l	NL	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2,3-TRICHLOROBENZENE	ug/l	NL	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2,3-TRICHLOROPROPANE	ug/l	NL	<5	<5	<5	<5	<5	<5	<5	<5
1,2,4-TRICHLOROBENZENE	ug/l	70 (2,4)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2,4-TRIMETHYLBENZENE	ug/l	NL	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	0.2 (2,4)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2-DIBROMOETHANE	ug/l	0.02 (2)	<2	<2	<2	<2	<2	<2	<2	<2
1,2-DICHLOROBENZENE	ug/l	600 (2,4)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2-DICHLOROETHANE	ug/l	5 (2,4)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROETHENE,TOTAL	ug/l	NL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROPROPANE	ug/l	5 (2,4)	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
1,3,5-TRIMETHYLBENZENE	ug/l	NL	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,3-DICHLOROBENZENE	ug/l	NL	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,3-DICHLOROPROPANE	ug/l	NL	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,3-DICHLOROPROPENE, TOTAL	ug/l	0.4 (3)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	ug/l	5 (2)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,4-DICHLOROBUTANE	ug/l	NL	<5	<5	<5	<5	<5	<5	<5	<5
2,2-DICHLOROPROPANE	ug/l	NL	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
2-BUTANONE	ug/l	4000 (3)	<5	<5	<5	<5	<5	<5	<5	<5
2-HEXANONE	ug/l	NL	<5	<5	<5	<5	<5	<5	<5	<5
4-METHYL-2-PENTANONE	ug/l	350 (3)	<5	<5	<5	<5	<5	<5	<5	<5
ACETONE	ug/l	6300 (3)	<5	<5	<5	<5	<5	<5	<5	<5
ACRYLONITRILE	ug/l	NL	<5	<5	<5	<5	<5	<5	<5	<5
BENZENE	ug/l	5 (2,4)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMOBENZENE	ug/l	NL	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
BROMOCHLOROMETHANE	ug/l	NL	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
BROMODICHLOROMETHANE	ug/l	NL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMOFORM	ug/l	NL	<2	<2	<2	<2	<2	<2	<2	<2
BROMOMETHANE	ug/l	10 (3)	<1	<1	<1	<1	<1	<1	<1	<1
CARBON DISULFIDE	ug/l	NL	<5	<5	<5	<5	<5	<5	<5	<5
CARBON TETRACHLORIDE	ug/l	5 (2,4)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROBENZENE	ug/l	100 (2,4)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROETHANE	ug/l	NL	<1	<1	<1	<1	<1	<1	<1	<1
CHLOROFORM	ug/l	70 (3)	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
CHLOROMETHANE	ug/l	NL	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
cis 1,2-DICHLOROETHENE	ug/l	70 (2,4)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
cis 1,3-DICHLOROPROPENE	ug/l	NL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DIBROMOCHLOROMETHANE	ug/l	NL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DIBROMOMETHANE	ug/l	NL	<5	<5	<5	<5	<5	<5	<5	<5
DICHLORODIFLUOROMETHANE	ug/l	1400 (3)	<5	<5	<5	<5	<5	<5	<5	<5
ETHYLBENZENE	ug/l	700 (2,4)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
ETHYL ETHER	ug/l	NL	<5	<5	<5	<5	<5	<5	<5	<5
ETHYL METHACRYLATE	ug/l	NL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HEXACHLOROBUTADIENE	ug/l	NL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ISOPROPYLBENZENE	ug/l	NL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
METHYL TERT-BUTYL ETHER	ug/l	70 (3)	<1	<1	<1	<1	<1	<1	<1	<1
METHYLENE CHLORIDE	ug/l	5 (2,4)	<3	<3	<3	<3	<3	<3	<3	<3
N-BUTYLBENZENE	ug/l	NL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
N-PROPYLBENZENE	ug/l	NL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NAPHTHALENE	ug/l	140 (3)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
O-CHLOROTOLUENE	ug/l	NL	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
O-XYLENE	ug/l	NL	<1	<1	<1	<1	<1	<1	<1	<1
P-CHLOROTOLUENE	ug/l	NL	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
P-ISOPROPYLTOLUENE	ug/l	NL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
P/M-XYLENE	ug/l	NL	<1	<1	<1	<1	<1	<1	<1	<1
SEC-BUTYLBENZENE	ug/l	NL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
STYRENE	ug/l	100 (2,4)	<1	<1	<1	<1	<1	<1	<1	<1
TERT-BUTYLBENZENE	ug/l	NL	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
TETRACHLOROETHENE	ug/l	5 (2,4)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TETRAHYDROFURAN	ug/l	600 (3)	<5	<5	<5	<5	<5	<5	<5	<5
TOLUENE	ug/l	1000 (2,4)	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
TRANS-1,2-DICHLOROETHENE	ug/l	100 (2,4)	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
TRANS-1,3-DICHLOROPROPENE	ug/l	NL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRANS-1,4-DICHLORO-2-BUTENE	ug/l	NL	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
TRICHLOROETHENE	ug/l	5 (2,4)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRICHLOROFLUOROMETHANE	ug/l	NL	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
VINYL ACETATE	ug/l	NL	<5	<5	<5	<5	<5	<5	<5	<5
VINYL CHLORIDE	ug/l	2 (2,4)	<1	<1	<1	<1	<1	<1	<1	<1
XYLENES, TOTAL	ug/l	10000 (2,4)	<1	<1	<1	<1	<1	<1	<1	<1
1,4-DIOXANE BY EPA 8270-SIMD										
1,4-DIOXANE	ug/l	0.3 (7)	<0.163	<0.15	<0.16	<0.147	<0.156	0.525		-

NOTES:
(1) EXCEEDANCES OF MASSACHUSETTS OR EPA DRINKING WATER STANDARDS SHOWN SHADED IN BLUE
(2) MASSACHUSETTS DRINKING WATER STANDARD
(3) MASSACHUSETTS DRINKING WATER GUIDELINE OR SECONDARY MAXIMUM CONTAMINANT LEVEL
(4) EPA PRIMARY DRINKING WATER STANDARD
(5) EPA SECONDARY DRINKING WATER STANDARD
(6) ESTIMATED VALUE, BELOW QUANTITATION LIMIT
(7) MASSDEP OFFICE OF RESEARCH AND STANDARDS GUIDELINE
(8) VALUES SHOWN SHADED IN DARK GRAY INDICATE REPORTING LIMITS EQUAL TO OR GREATER THAN CORRESPONDING CRITERIA OR GUIDELINE
(9) <#. # NOT DETECTED TO THE LIMIT INDICATED
(10) NL NO LIMIT
(11) NA NOT AVAILABLE

Table 4
Summary of Surface Water Sample Results - Samples Collected July 14, 2023
Results for Field Parameters, Conventional Parameters and Non-Hardness Dependent Metals
Concord Avenue Landfill, Belmont, Massachusetts

				SAMPLE NUMBER	L2340469-07	L2340469-08	L2340469-09
				SAMPLING DATE	7/14/2023	7/14/2023	7/14/2023
				LOCATION ID	SW-1	SW-2	SW-3
PARAMETER	Units	NRWQC	DRINKING WATER REGULATIONS				
FIELD PARAMETERS							
Specific Conductance	μhos/cm	NL	NL	1677	730	600	
Temperature	°C	NL	NL	21.6	20.3	20.2	
Dissolved Oxygen	mg/L	NL	NL	2.81	6.4	2.20	
pH	std units	NL	6.5-8.5 (3,5)	6.80	6.58	6.60	
CONVENTIONAL PARAMETERS							
ALKALINITY	mg/l	20 (see notes)	NL	28	59.8	54	
CHEMICAL OXYGEN DEMAND	mg/l	NL	NL	230	120	82	
CHLORIDE	mg/l	230	250 (3,5)	26	170	130	
CYANIDE, TOTAL	mg/l	0.0052	0.2 (2,4)	0.032	<0.005	<0.005	
NITROGEN, NITRATE	mg/l	NL	10 (2,4)	0.195	1.3	0.265	
SOLIDS, TOTAL DISSOLVED	mg/l	NL	500 (3,5)	98	470	350	
SULFATE	mg/l	NL	250 (3,5)	<10	<50	<25	
METALS (Dissolved)							
ARSENIC	ug/L	150	10 (2,4)	<5	5	5.1	
BARIUM	ug/L	NL	2,000 (2,4)	<10	48.1	36.8	
CALCIUM	ug/L	NL	NL	5970	24200	18900	
CHROMIUM	ug/L	NL	100 (2,4)	<10	<10	<10	
IRON	ug/L	1,000	300 (3,5)	1050	10800	5760	
MANGANESE	ug/L	NL	50 (3,5)	178	764	522	
MERCURY	ug/L	0.77	2 (2,4)	<0.2	<0.2	<0.2	
SELENIUM	ug/L	5	50 (2,4)	<10	<10	<10	
SODIUM	ug/L	NL	20,000 (3,5)	25300	116000	92400	

NOTES:

- (1) EXCEEDANCES OF MASSACHUSETTS OR EPA DRINKING WATER STANDARDS SHOWN SHADED IN BLUE
- (2) MASSACHUSETTS DRINKING WATER STANDARD
- (3) MASSACHUSETTS DRINKING WATER GUIDELINE OR SECONDARY MAXIMUM CONTAMINANT LEVEL
- (4) EPA PRIMARY DRINKING WATER STANDARD
- (5) EPA SECONDARY DRINKING WATER STANDARD
- (6) ESTIMATED VALUE, BELOW QUANTITATION LIMIT
- (7) NRWQC: NATIONAL RECOMMENDED WATER QUALITY CRITERIA, VERSION DATED 2009
- (8) THE NRWQC FOR ALKALINITY IS A MINIMUM CONCENTRATION EXCEPT AT LOCATIONS WHERE IT IS NATURALLY LOWER.
- (9) FOR HARDNESS DEPENDENT METALS, SEE CONTINUATION OF TABLE 4.
- (10) RESULTS THAT EXCEED NRWQC CRITERIA ARE SHOWN SHADED IN GREEN
- (11) VALUES SHOWN SHADED IN DARK GRAY INDICATE REPORTING LIMITS EQUAL TO OR GREATER THAN CORRESPONDING CRITERIA OR GUIDELINE
- (12) <#.# NOT DETECTED TO THE LIMIT INDICATED
- (13) NL NO LIMIT

Table 4, continued
Sample Results for Surface Water Locations
Metals with Hardness Dependent NRWQC
Samples Collected on July 14, 2023
Concord Avenue Landfill, Belmont, Massachusetts

			SAMPLE NUMBER		L2340469-07		L2340469-08		L2340469-09	
			SAMPLING DATE		7/14/2023		7/14/2023		7/14/2023	
			LOCATION ID		SW-1		SW-2		SW-3	
PARAMETER	UNITS	DRINKING WATER REGULATIONS	Result	NRWQC	Result	NRWQC	Result	NRWQC		
<u>DISSOLVED METALS</u>										
CADMIUM	ug/L	5 (2,4)	<5	0.11	<5	0.23	<5	0.19		
COPPER	ug/L	1,300 (2,4)	<10	3.50	<10	8.17	<10	6.54		
LEAD	ug/L	15 (2,4)	<10	0.75	<10	2.24	<10	1.68		
SILVER	ug/L	100 (3,5)	<7	0.49	<7	2.67	<7	1.71		
ZINC	ug/L	5,000 (3,5)	<50	47	<50	108	<50	86		
<u>CONVENTIONAL PARAMETERS</u>										
HARDNESS	mg/L	NL	33.3		89.8		69.2			

NOTES:

- (1) EXCEEDANCES OF PRIMARY MASSACHUSETTS OR EPA DRINKING WATER STANDARDS SHOWN SHADED IN BLUE.
- (2) MASSACHUSETTS DRINKING WATER STANDARD
- (3) MASSACHUSETTS DRINKING WATER GUIDELINE OR SECONDARY MAXIMUM CONTAMINANT LEVEL
- (4) EPA PRIMARY DRINKING WATER STANDARD
- (5) EPA SECONDARY DRINKING WATER STANDARD
- (6) ESTIMATED VALUE, BELOW QUANTITATION LIMIT
- (7) NRWQC: NATIONAL RECOMMENDED WATER QUALITY CRITERIA, VERSION DATED 2009
- (8) RESULTS THAT EXCEED NRWQC CRITERIA ARE SHOWN SHADED IN GREEN.
- (9) VALUES SHOWN SHADED IN DARK GRAY INDICATE REPORTING LIMITS EQUAL TO OR GREATER THAN CORRESPONDING CRITERIA OR GUIDELINE
- (10) <#.# NOT DETECTED TO THE LIMIT INDICATED
- (11) NL NO LIMIT
- (12) NA NOT AVAILABLE
- (13) NM NOT MEASURED

Table 5
Summary of Surface Water Sample Results - Samples Collected July 14, 2023
Results for Volatile Organic Compounds
Concord Avenue Landfill, Belmont, Massachusetts

PARAMETER	Units	NRWQC	DRINKING WATER REGULATIONS	SAMPLE NUMBER	L2340469-07	L2340469-08	L2340469-09
				SAMPLING DATE	7/14/2023	7/14/2023	7/14/2023
				LOCATION ID	SW-1	SW-2	SW-3
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-TETRACHLOROETHANE	ug/l	NL	NL		<0.5	<0.5	<0.5
1,1,1-TRICHLOROETHANE	ug/l	NL	200 (2,4)		<0.5	<0.5	<0.5
1,1,2,2-TETRACHLOROETHANE	ug/l	NL	NL		<0.5	<0.5	<0.5
1,1,2-TRICHLOROETHANE	ug/l	NL	5 (2,4)		<0.75	<0.75	<0.75
1,1-DICHLOROETHANE	ug/l	NL	70 (3)		<0.75	<0.75	<0.75
1,1-DICHLOROETHENE	ug/l	NL	7 (2,4)		<0.5	<0.5	<0.5
1,1-DICHLOROPROPENE	ug/l	NL	NL		<2.5	<2.5	<2.5
1,2,3-TRICHLOROBENZENE	ug/l	NL	NL		<2.5	<2.5	<2.5
1,2,3-TRICHLOROPROPANE	ug/l	NL	NL		<5	<5	<5
1,2,4-TRICHLOROBENZENE	ug/l	NL	70 (2,4)		<2.5	<2.5	<2.5
1,2,4-TRIMETHYLBENZENE	ug/l	NL	NL		<2.5	<2.5	<2.5
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NL	0.2 (2,4)		<2.5	<2.5	<2.5
1,2-DIBROMOETHANE	ug/l	NL	0.02 (2)		<2	<2	<2
1,2-DICHLOROBENZENE	ug/l	NL	600 (2,4)		<2.5	<2.5	<2.5
1,2-DICHLOROETHANE	ug/l	NL	5 (2,4)		<0.5	<0.5	<0.5
1,2-DICHLOROETHENE,TOTAL	ug/l	NL	NL		<0.5	<0.5	<0.5
1,2-DICHLOROPROPANE	ug/l	NL	5 (2,4)		<1.8	<1.8	<1.8
1,3,5-TRIMETHYLBENZENE	ug/l	NL	NL		<2.5	<2.5	<2.5
1,3-DICHLOROBENZENE	ug/l	NL	NL		<2.5	<2.5	<2.5
1,3-DICHLOROPROPANE	ug/l	NL	NL		<2.5	<2.5	<2.5
1,3-DICHLOROPRPENE, TOTAL	ug/l	NL	NL		<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	ug/l	NL	5 (2)		<2.5	<2.5	<2.5
1,4-DICHLOROBUTANE	ug/l	NL	NL		<5	<5	<5
2,2-DICHLOROPROPANE	ug/l	NL	NL		<2.5	<2.5	<2.5
2-BUTANONE	ug/l	NL	4000 (3)		<5	<5	<5
2-HEXANONE	ug/l	NL	NL		<5	<5	<5
4-METHYL-2-PENTANONE	ug/l	NL	350 (3)		<5	<5	<5
ACETONE	ug/l	NL	6300 (3)		13	<5	5.6
ACRYLONITRILE	ug/l	NL	NL		<5	<5	<5
BENZENE	ug/l	NL	5 (2,4)		<0.5	<0.5	<0.5
BROMOBENZENE	ug/l	NL	NL		<2.5	<2.5	<2.5
BROMOCHLOROMETHANE	ug/l	NL	NL		<2.5	<2.5	<2.5
BROMODICHLOROMETHANE	ug/l	NL	NL		<0.5	<0.5	<0.5
BROMOFORM	ug/l	NL	NL		<2	<2	<2
BROMOMETHANE	ug/l	NL	10 (3)		<1	<1	<1
CARBON DISULFIDE	ug/l	NL	NL		<5	<5	<5
CARBON TETRACHLORIDE	ug/l	NL	5 (2,4)		<0.5	<0.5	<0.5
CHLOROBENZENE	ug/l	NL	100 (2,4)		<0.5	<0.5	<0.5
CHLOROETHANE	ug/l	NL	NL		<1	<1	<1
CHLOROFORM	ug/l	NL	70 (3)		<0.75	<0.75	<0.75
CHLOROMETHANE	ug/l	NL	NL		<2.5	<2.5	<2.5
cis 1,2-DICHLOROETHENE	ug/l	NL	70 (2,4)		<0.5	<0.5	<0.5
cis 1,3-DICHLOROPROPENE	ug/l	NL	0.4 (3)		<0.5	<0.5	<0.5
DIBROMOCHLOROMETHANE	ug/l	NL	NL		<0.5	<0.5	<0.5
DIBROMOMETHANE	ug/l	NL	NL		<5	<5	<5
DICHLORODIFLUOROMETHANE	ug/l	NL	1400 (3)		<5	<5	<5
ETHYLBENZENE	ug/l	NL	700 (2,4)		<2.5	<2.5	<2.5
ETHYL ETHER	ug/l	NL	NL		<5	<5	<5
ETHYL METHACRYLATE	ug/l	NL	NL		<0.5	<0.5	<0.5
HEXACHLOROBUTADIENE	ug/l	NL	NL		<0.5	<0.5	<0.5
ISOPROPYLBENZENE	ug/l	NL	NL		<0.5	<0.5	<0.5
METHYL TERT-BUTYL ETHER	ug/l	NL	70 (3)		<1	<1	<1
METHYLENE CHLORIDE	ug/l	NL	5 (2,4)		<3	<3	<3
N-BUTYLBENZENE	ug/l	NL	NL		<0.5	<0.5	<0.5
N-PROPYLBENZENE	ug/l	NL	NL		<0.5	<0.5	<0.5
NAPHTHALENE	ug/l	NL	140 (3)		<2.5	<2.5	<2.5
O-CHLOROTOLUENE	ug/l	NL	NL		<2.5	<2.5	<2.5
O-XYLENE	ug/l	NL	NL		<1	<1	<1
P-CHLOROTOLUENE	ug/l	NL	NL		<2.5	<2.5	<2.5
P-ISOPRPYLTOLUENE	ug/l	NL	NL		<0.5	<0.5	<0.5
P/M-Xylene	ug/l	NL	NL		<1	<1	<1
SEC-BUTYLBENZENE	ug/l	NL	NL		<0.5	<0.5	<0.5
STYRENE	ug/l	NL	100 (2,4)		<1	<1	<1
TERT-BUTYLBENZENE	ug/l	NL	NL		<2.5	<2.5	<2.5
TETRACHLOROETHENE	ug/l	NL	5 (2,4)		<0.5	<0.5	<0.5
TETRAHYDROFURAN	ug/l	NL	600 (3)		<5	<5	<5
TOLUENE	ug/l	NL	1000 (2,4)		1.3	<0.75	<0.75
TRANS-1,2-DICHLOROETHENE	ug/l	NL	100 (2,4)		<0.75	<0.75	<0.75
TRANS-1,3-DICHLOROPROPENE	ug/l	NL	0.4 (3)		<0.5	<0.5	<0.5
TRANS-1,4-DICHLORO-2-BUTENE	ug/l	NL	NL		<2.5	<2.5	<2.5
TRICHLOROETHENE	ug/l	NL	5 (2,4)		<0.5	<0.5	<0.5
TRICHLOROFLUOROMETHANE	ug/l	NL	NL		<2.5	<2.5	<2.5
VINYL ACETATE	ug/l	NL	NL		<5	<5	<5
VINYL CHLORIDE	ug/l	NL	2 (2,4)		<1	<1	<1
XYLENES, TOTAL	ug/l	NL	10000 (2,4)		<1	<1	<1
1,4-DIOXANE BY EPA 8270-SIMD							
1,4-DIOXANE	ug/l	NL	0.3 (7)		<0.144	<0.144	<0.144

NOTES:

- (1) EXCEEDANCES OF MASSACHUSETTS OR EPA DRINKING WATER STANDARDS SHOWN SHADED IN BLUE
- (2) MASSACHUSETTS DRINKING WATER STANDARD
- (3) MASSACHUSETTS DRINKING WATER GUIDELINE OR SECONDARY MAXIMUM CONTAMINANT LEVEL
- (4) EPA PRIMARY DRINKING WATER STANDARD
- (5) EPA SECONDARY DRINKING WATER STANDARD
- (6) ESTIMATED VALUE, BELOW QUANTITATION LIMIT
- (7) NRWQC: NATIONAL RECOMMENDED WATER QUALITY CRITERIA, VERSION DATED 2009
- (8) VALUES SHOWN SHADED IN DARK GRAY INDICATE REPORTING LIMITS EQUAL TO OR GREATER THAN CORRESPONDING CRITERIA OR GUIDELINE
- (9) <#. # NOT DETECTED TO THE LIMIT INDICATED
- (10) NL NO LIMIT



ANALYTICAL REPORT

Lab Number:	L2340469
Client:	Langdon Environmental PO Box 511 Portsmouth, NH 03802
ATTN:	Bruce Haskell
Phone:	(617) 875-3693
Project Name:	CONCORD AVE LANDFILL
Project Number:	Not Specified
Report Date:	08/09/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2340469-01	GW-1	WATER	BELMONT, MA	07/14/23 11:15	07/14/23
L2340469-02	GW-2R	WATER	BELMONT, MA	07/14/23 12:10	07/14/23
L2340469-03	GW-3	WATER	BELMONT, MA	07/14/23 10:30	07/14/23
L2340469-04	GW-4	WATER	BELMONT, MA	07/14/23 09:40	07/14/23
L2340469-05	GW-5	WATER	BELMONT, MA	07/14/23 08:45	07/14/23
L2340469-06	DUP-1	WATER	BELMONT, MA	07/14/23 00:00	07/14/23
L2340469-07	SW-1	WATER	BELMONT, MA	07/14/23 11:45	07/14/23
L2340469-08	SW-2	WATER	BELMONT, MA	07/14/23 10:45	07/14/23
L2340469-09	SW-3	WATER	BELMONT, MA	07/14/23 09:00	07/14/23
L2340469-10	TRIP BLANK	WATER	BELMONT, MA	07/14/23 00:00	07/14/23

Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

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: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

Case Narrative (continued)

Sulfate

L2340469-03, -04, -08, and -09: The sample has an elevated detection limit due to the dilution required by the sample matrix.

Total Alkalinity

The WG1808937-5 MS recovery, performed on L2340469-01, is outside the acceptance criteria for alkalinity, total (84%); however, the associated LCS recovery is within criteria. No further action was taken.

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: *Tiffani Morrissey* - Tiffani Morrissey

Title: Technical Director/Representative

Date: 08/09/23

ORGANICS

VOLATILES

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-01
 Client ID: GW-1
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 11:15
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 07/22/23 12:22
 Analyst: MJV

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: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-01
 Client ID: GW-1
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 11:15
 Date Received: 07/14/23
 Field Prep: Refer to COC

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: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-01
Client ID: GW-1
Sample Location: BELMONT, MA

Date Collected: 07/14/23 11:15
Date Received: 07/14/23
Field Prep: Refer to COC

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
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-02
 Client ID: GW-2R
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 12:10
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 07/22/23 12:49
 Analyst: MJV

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: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-02
Client ID: GW-2R
Sample Location: BELMONT, MA

Date Collected: 07/14/23 12:10
Date Received: 07/14/23
Field Prep: Refer to COC

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: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-02
 Client ID: GW-2R
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 12:10
 Date Received: 07/14/23
 Field Prep: Refer to COC

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
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-03
 Client ID: GW-3
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 10:30
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 07/22/23 13:15
 Analyst: MJV

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: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-03
 Client ID: GW-3
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 10:30
 Date Received: 07/14/23
 Field Prep: Refer to COC

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: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-03
Client ID: GW-3
Sample Location: BELMONT, MA

Date Collected: 07/14/23 10:30
Date Received: 07/14/23
Field Prep: Refer to COC

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	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-04
 Client ID: GW-4
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 09:40
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 07/22/23 13:42
 Analyst: MJV

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: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-04
 Client ID: GW-4
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 09:40
 Date Received: 07/14/23
 Field Prep: Refer to COC

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: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-04
Client ID: GW-4
Sample Location: BELMONT, MA

Date Collected: 07/14/23 09:40
Date Received: 07/14/23
Field Prep: Refer to COC

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	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-05
 Client ID: GW-5
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 08:45
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 07/22/23 14:08
 Analyst: MJV

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: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-05
 Client ID: GW-5
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 08:45
 Date Received: 07/14/23
 Field Prep: Refer to COC

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: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-05
Client ID: GW-5
Sample Location: BELMONT, MA

Date Collected: 07/14/23 08:45
Date Received: 07/14/23
Field Prep: Refer to COC

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	104		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-06
 Client ID: DUP-1
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 00:00
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 07/22/23 14:34
 Analyst: MJV

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: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-06
 Client ID: DUP-1
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 00:00
 Date Received: 07/14/23
 Field Prep: Refer to COC

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: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-06
Client ID: DUP-1
Sample Location: BELMONT, MA

Date Collected: 07/14/23 00:00
Date Received: 07/14/23
Field Prep: Refer to COC

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
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-07
Client ID: SW-1
Sample Location: BELMONT, MA

Date Collected: 07/14/23 11:45
Date Received: 07/14/23
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/22/23 15:01
Analyst: MJV

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	1.3		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: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-07
 Client ID: SW-1
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 11:45
 Date Received: 07/14/23
 Field Prep: Refer to COC

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	13		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: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-07
Client ID: SW-1
Sample Location: BELMONT, MA

Date Collected: 07/14/23 11:45
Date Received: 07/14/23
Field Prep: Refer to COC

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	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-08
Client ID: SW-2
Sample Location: BELMONT, MA

Date Collected: 07/14/23 10:45
Date Received: 07/14/23
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/22/23 15:27
Analyst: MJV

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: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-08
 Client ID: SW-2
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 10:45
 Date Received: 07/14/23
 Field Prep: Refer to COC

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: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-08
Client ID: SW-2
Sample Location: BELMONT, MA

Date Collected: 07/14/23 10:45
Date Received: 07/14/23
Field Prep: Refer to COC

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
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-09
 Client ID: SW-3
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 09:00
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 07/22/23 15:53
 Analyst: MJV

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: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-09
 Client ID: SW-3
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 09:00
 Date Received: 07/14/23
 Field Prep: Refer to COC

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	5.6		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: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-09
Client ID: SW-3
Sample Location: BELMONT, MA

Date Collected: 07/14/23 09:00
Date Received: 07/14/23
Field Prep: Refer to COC

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	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-10
 Client ID: TRIP BLANK
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 00:00
 Date Received: 07/14/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 07/22/23 16:20
 Analyst: MJV

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: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-10
 Client ID: TRIP BLANK
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 00:00
 Date Received: 07/14/23
 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: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-10
Client ID: TRIP BLANK
Sample Location: BELMONT, MA

Date Collected: 07/14/23 00:00
Date Received: 07/14/23
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
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 07/22/23 11:56
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1807032-5					
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	--
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	--
1,2-Dichloroethene, Total	ND		ug/l	0.50	--

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 07/22/23 11:56
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1807032-5					
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	--
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	--
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	--
1,3-Dichloropropane	ND		ug/l	2.5	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 07/22/23 11:56
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1807032-5					
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	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	2.5	--

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260D

Analytical Date: 07/22/23 11:56

Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1807032-5					

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: CONCORD AVE LANDFILL

Lab Number: L2340469

Project Number: Not Specified

Report Date: 08/09/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1807032-3 WG1807032-4								
Methylene chloride	94		100		70-130	6		20
1,1-Dichloroethane	95		100		70-130	5		20
Chloroform	94		110		70-130	16		20
Carbon tetrachloride	84		94		63-132	11		20
1,2-Dichloropropane	98		110		70-130	12		20
Dibromochloromethane	95		100		63-130	5		20
1,1,2-Trichloroethane	97		110		70-130	13		20
Tetrachloroethene	88		97		70-130	10		20
Chlorobenzene	96		100		75-130	4		25
Trichlorofluoromethane	74		86		62-150	15		20
1,2-Dichloroethane	94		100		70-130	6		20
1,1,1-Trichloroethane	87		97		67-130	11		20
Bromodichloromethane	98		110		67-130	12		20
trans-1,3-Dichloropropene	100		110		70-130	10		20
cis-1,3-Dichloropropene	100		110		70-130	10		20
1,1-Dichloropropene	88		97		70-130	10		20
Bromoform	93		100		54-136	7		20
1,1,2,2-Tetrachloroethane	100		110		67-130	10		20
Benzene	97		110		70-130	13		25
Toluene	96		100		70-130	4		25
Ethylbenzene	95		100		70-130	5		20
Chloromethane	100		120		64-130	18		20
Bromomethane	160	Q	160	Q	39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CONCORD AVE LANDFILL

Lab Number: L2340469

Project Number: Not Specified

Report Date: 08/09/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1807032-3 WG1807032-4								
Vinyl chloride	82		95		55-140	15		20
Chloroethane	86		99		55-138	14		20
1,1-Dichloroethene	82		93		61-145	13		25
trans-1,2-Dichloroethene	91		100		70-130	9		20
Trichloroethene	91		99		70-130	8		25
1,2-Dichlorobenzene	96		100		70-130	4		20
1,3-Dichlorobenzene	97		100		70-130	3		20
1,4-Dichlorobenzene	95		100		70-130	5		20
Methyl tert butyl ether	92		110		63-130	18		20
p/m-Xylene	100		110		70-130	10		20
o-Xylene	100		110		70-130	10		20
cis-1,2-Dichloroethene	97		110		70-130	13		20
Dibromomethane	97		110		70-130	13		20
1,4-Dichlorobutane	97		110		70-130	13		20
1,2,3-Trichloropropane	85		97		64-130	13		20
Styrene	100		110		70-130	10		20
Dichlorodifluoromethane	76		87		36-147	13		20
Acetone	150	Q	120		58-148	22	Q	20
Carbon disulfide	94		98		51-130	4		20
2-Butanone	110		110		63-138	0		20
Vinyl acetate	160	Q	170	Q	70-130	6		20
4-Methyl-2-pentanone	95		110		59-130	15		20
2-Hexanone	100		100		57-130	0		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CONCORD AVE LANDFILL

Lab Number: L2340469

Project Number: Not Specified

Report Date: 08/09/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1807032-3 WG1807032-4								
Ethyl methacrylate	93		110		70-130	17		20
Acrylonitrile	100		120		70-130	18		20
Bromochloromethane	100		110		70-130	10		20
Tetrahydrofuran	100		100		58-130	0		20
2,2-Dichloropropane	98		110		63-133	12		20
1,2-Dibromoethane	93		110		70-130	17		20
1,3-Dichloropropane	95		100		70-130	5		20
1,1,1,2-Tetrachloroethane	95		100		64-130	5		20
Bromobenzene	94		100		70-130	6		20
n-Butylbenzene	97		100		53-136	3		20
sec-Butylbenzene	93		99		70-130	6		20
tert-Butylbenzene	92		100		70-130	8		20
o-Chlorotoluene	96		100		70-130	4		20
p-Chlorotoluene	98		100		70-130	2		20
1,2-Dibromo-3-chloropropane	88		100		41-144	13		20
Hexachlorobutadiene	93		100		63-130	7		20
Isopropylbenzene	93		100		70-130	7		20
p-Isopropyltoluene	95		100		70-130	5		20
Naphthalene	94		110		70-130	16		20
n-Propylbenzene	95		100		69-130	5		20
1,2,3-Trichlorobenzene	94		100		70-130	6		20
1,2,4-Trichlorobenzene	94		100		70-130	6		20
1,3,5-Trimethylbenzene	95		100		64-130	5		20

Lab Control Sample Analysis**Batch Quality Control****Project Name:** CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1807032-3 WG1807032-4								
1,2,4-Trimethylbenzene	98		100		70-130	2		20
trans-1,4-Dichloro-2-butene	95		110		70-130	15		20
Ethyl ether	91		100		59-134	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		99		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	101		98		70-130
Dibromofluoromethane	98		98		70-130

SEMIVOLATILES

Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-01
 Client ID: GW-1
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 11:15
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 07/24/23 09:49
 Analyst: TPR

Extraction Method: EPA 3510C
 Extraction Date: 07/21/23 16:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	163	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	30			15-110		

Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-02
 Client ID: GW-2R
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 12:10
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 07/24/23 10:17
 Analyst: TPR

Extraction Method: EPA 3510C
 Extraction Date: 07/21/23 16:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	150	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	34			15-110		

Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-03
 Client ID: GW-3
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 10:30
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 07/24/23 10:43
 Analyst: TPR

Extraction Method: EPA 3510C
 Extraction Date: 07/21/23 16:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	160	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	31			15-110		

Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-04
 Client ID: GW-4
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 09:40
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 07/24/23 11:10
 Analyst: TPR

Extraction Method: EPA 3510C
 Extraction Date: 07/21/23 16:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	147	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	33			15-110		

Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-05
 Client ID: GW-5
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 08:45
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 07/24/23 11:36
 Analyst: TPR

Extraction Method: EPA 3510C
 Extraction Date: 07/21/23 16:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	525.		ng/l	150	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	37			15-110		

Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-06
 Client ID: DUP-1
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 00:00
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 07/24/23 12:03
 Analyst: TPR

Extraction Method: EPA 3510C
 Extraction Date: 07/21/23 16:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	156	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	32			15-110		

Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-07
 Client ID: SW-1
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 11:45
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 07/24/23 18:41
 Analyst: TPR

Extraction Method: EPA 3510C
 Extraction Date: 07/21/23 16:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	33			15-110		

Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-08
 Client ID: SW-2
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 10:45
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 07/24/23 12:32
 Analyst: TPR

Extraction Method: EPA 3510C
 Extraction Date: 07/21/23 16:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	29			15-110		

Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-09
 Client ID: SW-3
 Sample Location: BELMONT, MA

Date Collected: 07/14/23 09:00
 Date Received: 07/14/23
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 07/24/23 12:58
 Analyst: TPR

Extraction Method: EPA 3510C
 Extraction Date: 07/21/23 16:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	33			15-110		

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E-SIM
 Analytical Date: 07/24/23 08:34
 Analyst: TPR

Extraction Method: EPA 3510C
 Extraction Date: 07/21/23 16:00

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 01-09 Batch: WG1806222-1					
1,4-Dioxane	ND		ng/l	150	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	26		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: CONCORD AVE LANDFILL

Project Number: Not Specified

Lab Number: L2340469

Report Date: 08/09/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270E-SIM - Mansfield Lab Associated sample(s): 01-09 Batch: WG1806222-2 WG1806222-3								
1,4-Dioxane	123		130		40-140	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	32		35		15-110

METALS

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-01

Date Collected: 07/14/23 11:15

Client ID: GW-1

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

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	0.0050	--	1	07/18/23 13:50	08/04/23 14:21	EPA 3005A	1,6010D	JMF
Barium, Dissolved	0.121		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:21	EPA 3005A	1,6010D	JMF
Cadmium, Dissolved	ND		mg/l	0.0050	--	1	07/18/23 13:50	08/04/23 14:21	EPA 3005A	1,6010D	JMF
Calcium, Dissolved	110.		mg/l	0.100	--	1	07/18/23 13:50	08/04/23 14:21	EPA 3005A	1,6010D	JMF
Chromium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:21	EPA 3005A	1,6010D	JMF
Copper, Dissolved	0.0185		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:21	EPA 3005A	1,6010D	JMF
Iron, Dissolved	1.17		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 14:21	EPA 3005A	1,6010D	JMF
Lead, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:21	EPA 3005A	1,6010D	JMF
Manganese, Dissolved	0.141		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:21	EPA 3005A	1,6010D	JMF
Mercury, Dissolved	ND		mg/l	0.00020	--	1	07/18/23 13:23	08/08/23 19:49	EPA 7470A	1,7470A	MJR
Selenium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:21	EPA 3005A	1,6010D	JMF
Silver, Dissolved	ND		mg/l	0.0070	--	1	07/18/23 13:50	08/04/23 14:21	EPA 3005A	1,6010D	JMF
Sodium, Dissolved	36.9		mg/l	2.00	--	1	07/18/23 13:50	08/04/23 14:21	EPA 3005A	1,6010D	JMF
Zinc, Dissolved	ND		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 14:21	EPA 3005A	1,6010D	JMF



Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-02

Date Collected: 07/14/23 12:10

Client ID: GW-2R

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

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	0.0050	--	1	07/18/23 13:50	08/04/23 14:25	EPA 3005A	1,6010D	JMF
Barium, Dissolved	0.0359		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:25	EPA 3005A	1,6010D	JMF
Cadmium, Dissolved	ND		mg/l	0.0050	--	1	07/18/23 13:50	08/04/23 14:25	EPA 3005A	1,6010D	JMF
Calcium, Dissolved	36.0		mg/l	0.100	--	1	07/18/23 13:50	08/04/23 14:25	EPA 3005A	1,6010D	JMF
Chromium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:25	EPA 3005A	1,6010D	JMF
Copper, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:25	EPA 3005A	1,6010D	JMF
Iron, Dissolved	ND		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 14:25	EPA 3005A	1,6010D	JMF
Lead, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:25	EPA 3005A	1,6010D	JMF
Manganese, Dissolved	0.0161		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:25	EPA 3005A	1,6010D	JMF
Mercury, Dissolved	ND		mg/l	0.00020	--	1	07/18/23 13:23	08/08/23 19:52	EPA 7470A	1,7470A	MJR
Selenium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:25	EPA 3005A	1,6010D	JMF
Silver, Dissolved	ND		mg/l	0.0070	--	1	07/18/23 13:50	08/04/23 14:25	EPA 3005A	1,6010D	JMF
Sodium, Dissolved	122.		mg/l	2.00	--	1	07/18/23 13:50	08/04/23 14:25	EPA 3005A	1,6010D	JMF
Zinc, Dissolved	ND		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 14:25	EPA 3005A	1,6010D	JMF



Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-03

Date Collected: 07/14/23 10:30

Client ID: GW-3

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

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	0.0050	--	1	07/18/23 13:50	08/04/23 14:39	EPA 3005A	1,6010D	JMF
Barium, Dissolved	0.0159		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:39	EPA 3005A	1,6010D	JMF
Cadmium, Dissolved	ND		mg/l	0.0050	--	1	07/18/23 13:50	08/04/23 14:39	EPA 3005A	1,6010D	JMF
Calcium, Dissolved	9.91		mg/l	0.100	--	1	07/18/23 13:50	08/04/23 14:39	EPA 3005A	1,6010D	JMF
Chromium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:39	EPA 3005A	1,6010D	JMF
Copper, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:39	EPA 3005A	1,6010D	JMF
Iron, Dissolved	0.0525		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 14:39	EPA 3005A	1,6010D	JMF
Lead, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:39	EPA 3005A	1,6010D	JMF
Manganese, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:39	EPA 3005A	1,6010D	JMF
Mercury, Dissolved	ND		mg/l	0.00020	--	1	07/18/23 13:23	08/08/23 20:06	EPA 7470A	1,7470A	MJR
Selenium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:39	EPA 3005A	1,6010D	JMF
Silver, Dissolved	ND		mg/l	0.0070	--	1	07/18/23 13:50	08/04/23 14:39	EPA 3005A	1,6010D	JMF
Sodium, Dissolved	6.23		mg/l	2.00	--	1	07/18/23 13:50	08/04/23 14:39	EPA 3005A	1,6010D	JMF
Zinc, Dissolved	ND		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 14:39	EPA 3005A	1,6010D	JMF



Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-04

Date Collected: 07/14/23 09:40

Client ID: GW-4

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

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	0.0065		mg/l	0.0050	--	1	07/18/23 13:50	08/04/23 14:44	EPA 3005A	1,6010D	JMF
Barium, Dissolved	0.0835		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:44	EPA 3005A	1,6010D	JMF
Cadmium, Dissolved	ND		mg/l	0.0050	--	1	07/18/23 13:50	08/04/23 14:44	EPA 3005A	1,6010D	JMF
Calcium, Dissolved	128.		mg/l	0.100	--	1	07/18/23 13:50	08/04/23 14:44	EPA 3005A	1,6010D	JMF
Chromium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:44	EPA 3005A	1,6010D	JMF
Copper, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:44	EPA 3005A	1,6010D	JMF
Iron, Dissolved	34.7		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 14:44	EPA 3005A	1,6010D	JMF
Lead, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:44	EPA 3005A	1,6010D	JMF
Manganese, Dissolved	2.41		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:44	EPA 3005A	1,6010D	JMF
Mercury, Dissolved	ND		mg/l	0.00020	--	1	07/18/23 13:23	08/08/23 20:09	EPA 7470A	1,7470A	MJR
Selenium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 14:44	EPA 3005A	1,6010D	JMF
Silver, Dissolved	ND		mg/l	0.0070	--	1	07/18/23 13:50	08/04/23 14:44	EPA 3005A	1,6010D	JMF
Sodium, Dissolved	41.2		mg/l	2.00	--	1	07/18/23 13:50	08/04/23 14:44	EPA 3005A	1,6010D	JMF
Zinc, Dissolved	0.0511		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 14:44	EPA 3005A	1,6010D	JMF



Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-05

Date Collected: 07/14/23 08:45

Client ID: GW-5

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

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	0.0050	--	1	07/18/23 13:50	08/04/23 15:23	EPA 3005A	1,6010D	JMF
Barium, Dissolved	0.578		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:23	EPA 3005A	1,6010D	JMF
Cadmium, Dissolved	ND		mg/l	0.0050	--	1	07/18/23 13:50	08/04/23 15:23	EPA 3005A	1,6010D	JMF
Calcium, Dissolved	132.		mg/l	0.100	--	1	07/18/23 13:50	08/04/23 15:23	EPA 3005A	1,6010D	JMF
Chromium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:23	EPA 3005A	1,6010D	JMF
Copper, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:23	EPA 3005A	1,6010D	JMF
Iron, Dissolved	54.2		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 15:23	EPA 3005A	1,6010D	JMF
Lead, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:23	EPA 3005A	1,6010D	JMF
Manganese, Dissolved	0.935		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:23	EPA 3005A	1,6010D	JMF
Mercury, Dissolved	ND		mg/l	0.00020	--	1	07/18/23 13:23	08/08/23 20:13	EPA 7470A	1,7470A	MJR
Selenium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:23	EPA 3005A	1,6010D	JMF
Silver, Dissolved	ND		mg/l	0.0070	--	1	07/18/23 13:50	08/04/23 15:23	EPA 3005A	1,6010D	JMF
Sodium, Dissolved	89.6		mg/l	2.00	--	1	07/18/23 13:50	08/04/23 15:23	EPA 3005A	1,6010D	JMF
Zinc, Dissolved	ND		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 15:23	EPA 3005A	1,6010D	JMF



Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-06

Date Collected: 07/14/23 00:00

Client ID: DUP-1

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

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	0.0050	--	1	07/18/23 13:50	08/04/23 15:45	EPA 3005A	1,6010D	JMF
Barium, Dissolved	0.0812		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:45	EPA 3005A	1,6010D	JMF
Cadmium, Dissolved	ND		mg/l	0.0050	--	1	07/18/23 13:50	08/04/23 15:45	EPA 3005A	1,6010D	JMF
Calcium, Dissolved	127.		mg/l	0.100	--	1	07/18/23 13:50	08/04/23 15:45	EPA 3005A	1,6010D	JMF
Chromium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:45	EPA 3005A	1,6010D	JMF
Copper, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:45	EPA 3005A	1,6010D	JMF
Iron, Dissolved	34.0		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 15:45	EPA 3005A	1,6010D	JMF
Lead, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:45	EPA 3005A	1,6010D	JMF
Manganese, Dissolved	2.39		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:45	EPA 3005A	1,6010D	JMF
Mercury, Dissolved	ND		mg/l	0.00020	--	1	07/18/23 13:23	08/08/23 20:16	EPA 7470A	1,7470A	MJR
Selenium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:45	EPA 3005A	1,6010D	JMF
Silver, Dissolved	ND		mg/l	0.0070	--	1	07/18/23 13:50	08/04/23 15:45	EPA 3005A	1,6010D	JMF
Sodium, Dissolved	40.0		mg/l	2.00	--	1	07/18/23 13:50	08/04/23 15:45	EPA 3005A	1,6010D	JMF
Zinc, Dissolved	ND		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 15:45	EPA 3005A	1,6010D	JMF



Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-07

Date Collected: 07/14/23 11:45

Client ID: SW-1

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Hardness by SM 2340B - Mansfield Lab

Hardness	33.3		mg/l	0.660	NA	1	07/20/23 00:33	08/06/23 17:03	EPA 3005A	1,6010D	AMW
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Dissolved Metals - Mansfield Lab

Arsenic, Dissolved	ND		mg/l	0.0050	--	1	07/18/23 13:50	08/04/23 15:32	EPA 3005A	1,6010D	JMF
Barium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:32	EPA 3005A	1,6010D	JMF
Cadmium, Dissolved	ND		mg/l	0.0050	--	1	07/18/23 13:50	08/04/23 15:32	EPA 3005A	1,6010D	JMF
Calcium, Dissolved	5.97		mg/l	0.100	--	1	07/18/23 13:50	08/04/23 15:32	EPA 3005A	1,6010D	JMF
Chromium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:32	EPA 3005A	1,6010D	JMF
Copper, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:32	EPA 3005A	1,6010D	JMF
Iron, Dissolved	1.05		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 15:32	EPA 3005A	1,6010D	JMF
Lead, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:32	EPA 3005A	1,6010D	JMF
Manganese, Dissolved	0.178		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:32	EPA 3005A	1,6010D	JMF
Mercury, Dissolved	ND		mg/l	0.00020	--	1	07/18/23 13:23	08/08/23 20:19	EPA 7470A	1,7470A	MJR
Selenium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:32	EPA 3005A	1,6010D	JMF
Silver, Dissolved	ND		mg/l	0.0070	--	1	07/18/23 13:50	08/04/23 15:32	EPA 3005A	1,6010D	JMF
Sodium, Dissolved	25.3		mg/l	2.00	--	1	07/18/23 13:50	08/04/23 15:32	EPA 3005A	1,6010D	JMF
Zinc, Dissolved	ND		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 15:32	EPA 3005A	1,6010D	JMF



Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-08

Date Collected: 07/14/23 10:45

Client ID: SW-2

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Hardness by SM 2340B - Mansfield Lab

Hardness	89.8		mg/l	0.660	NA	1	07/20/23 00:33	08/06/23 17:08	EPA 3005A	1,6010D	AMW
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Dissolved Metals - Mansfield Lab

Arsenic, Dissolved	0.0050		mg/l	0.0050	--	1	07/18/23 13:50	08/04/23 15:36	EPA 3005A	1,6010D	JMF
Barium, Dissolved	0.0481		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:36	EPA 3005A	1,6010D	JMF
Cadmium, Dissolved	ND		mg/l	0.0050	--	1	07/18/23 13:50	08/04/23 15:36	EPA 3005A	1,6010D	JMF
Calcium, Dissolved	24.2		mg/l	0.100	--	1	07/18/23 13:50	08/04/23 15:36	EPA 3005A	1,6010D	JMF
Chromium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:36	EPA 3005A	1,6010D	JMF
Copper, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:36	EPA 3005A	1,6010D	JMF
Iron, Dissolved	10.8		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 15:36	EPA 3005A	1,6010D	JMF
Lead, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:36	EPA 3005A	1,6010D	JMF
Manganese, Dissolved	0.764		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:36	EPA 3005A	1,6010D	JMF
Mercury, Dissolved	ND		mg/l	0.00020	--	1	07/18/23 13:23	08/08/23 20:23	EPA 7470A	1,7470A	MJR
Selenium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:36	EPA 3005A	1,6010D	JMF
Silver, Dissolved	ND		mg/l	0.0070	--	1	07/18/23 13:50	08/04/23 15:36	EPA 3005A	1,6010D	JMF
Sodium, Dissolved	116.		mg/l	2.00	--	1	07/18/23 13:50	08/04/23 15:36	EPA 3005A	1,6010D	JMF
Zinc, Dissolved	ND		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 15:36	EPA 3005A	1,6010D	JMF



Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**SAMPLE RESULTS**

Lab ID: L2340469-09

Date Collected: 07/14/23 09:00

Client ID: SW-3

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Hardness by SM 2340B - Mansfield Lab

Hardness	69.2		mg/l	0.660	NA	1	07/20/23 00:33	08/06/23 17:12	EPA 3005A	1,6010D	AMW
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Dissolved Metals - Mansfield Lab

Arsenic, Dissolved	0.0051		mg/l	0.0050	--	1	07/18/23 13:50	08/04/23 15:41	EPA 3005A	1,6010D	JMF
Barium, Dissolved	0.0368		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:41	EPA 3005A	1,6010D	JMF
Cadmium, Dissolved	ND		mg/l	0.0050	--	1	07/18/23 13:50	08/04/23 15:41	EPA 3005A	1,6010D	JMF
Calcium, Dissolved	18.9		mg/l	0.100	--	1	07/18/23 13:50	08/04/23 15:41	EPA 3005A	1,6010D	JMF
Chromium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:41	EPA 3005A	1,6010D	JMF
Copper, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:41	EPA 3005A	1,6010D	JMF
Iron, Dissolved	5.76		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 15:41	EPA 3005A	1,6010D	JMF
Lead, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:41	EPA 3005A	1,6010D	JMF
Manganese, Dissolved	0.522		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:41	EPA 3005A	1,6010D	JMF
Mercury, Dissolved	ND		mg/l	0.00020	--	1	07/18/23 13:23	08/08/23 20:26	EPA 7470A	1,7470A	MJR
Selenium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	08/04/23 15:41	EPA 3005A	1,6010D	JMF
Silver, Dissolved	ND		mg/l	0.0070	--	1	07/18/23 13:50	08/04/23 15:41	EPA 3005A	1,6010D	JMF
Sodium, Dissolved	92.4		mg/l	2.00	--	1	07/18/23 13:50	08/04/23 15:41	EPA 3005A	1,6010D	JMF
Zinc, Dissolved	ND		mg/l	0.0500	--	1	07/18/23 13:50	08/04/23 15:41	EPA 3005A	1,6010D	JMF



Project Name: CONCORD AVE LANDFILL

Lab Number: L2340469

Project Number: Not Specified

Report Date: 08/09/23

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): 01-09 Batch: WG1804530-1										
Arsenic, Dissolved	ND		mg/l	0.0050	--	1	07/18/23 13:50	07/27/23 20:04	1,6010D	CEY
Barium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	07/27/23 20:04	1,6010D	CEY
Cadmium, Dissolved	ND		mg/l	0.0050	--	1	07/18/23 13:50	07/27/23 20:04	1,6010D	CEY
Calcium, Dissolved	ND		mg/l	0.100	--	1	07/18/23 13:50	07/27/23 20:04	1,6010D	CEY
Chromium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	07/27/23 20:04	1,6010D	CEY
Copper, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	07/27/23 20:04	1,6010D	CEY
Iron, Dissolved	ND		mg/l	0.0500	--	1	07/18/23 13:50	07/27/23 20:04	1,6010D	CEY
Lead, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	07/27/23 20:04	1,6010D	CEY
Manganese, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	07/27/23 20:04	1,6010D	CEY
Selenium, Dissolved	ND		mg/l	0.0100	--	1	07/18/23 13:50	07/27/23 20:04	1,6010D	CEY
Silver, Dissolved	ND		mg/l	0.0070	--	1	07/18/23 13:50	07/27/23 20:04	1,6010D	CEY
Sodium, Dissolved	ND		mg/l	2.00	--	1	07/18/23 13:50	07/27/23 20:04	1,6010D	CEY
Zinc, Dissolved	ND		mg/l	0.0500	--	1	07/18/23 13:50	07/27/23 20:04	1,6010D	CEY

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): 01-09 Batch: WG1804531-1										
Mercury, Dissolved	ND		mg/l	0.00020	--	1	07/18/23 13:23	08/08/23 12:49	1,7470A	MJR

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 - Mansfield Lab for sample(s): 07-09 Batch: WG1805170-1										
Hardness	ND		mg/l	0.660	NA	1	07/20/23 00:33	07/26/23 15:29	1,6010D	AMW



Project Name: CONCORD AVE LANDFILL

Lab Number: L2340469

Project Number: Not Specified

Report Date: 08/09/23

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: CONCORD AVE LANDFILL

Project Number: Not Specified

Lab Number: L2340469

Report Date: 08/09/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG1804530-2								
Arsenic, Dissolved	107		-		80-120	-		
Barium, Dissolved	108		-		80-120	-		
Cadmium, Dissolved	107		-		80-120	-		
Calcium, Dissolved	109		-		80-120	-		
Chromium, Dissolved	106		-		80-120	-		
Copper, Dissolved	110		-		80-120	-		
Iron, Dissolved	107		-		80-120	-		
Lead, Dissolved	105		-		80-120	-		
Manganese, Dissolved	107		-		80-120	-		
Selenium, Dissolved	108		-		80-120	-		
Silver, Dissolved	106		-		80-120	-		
Sodium, Dissolved	112		-		80-120	-		
Zinc, Dissolved	103		-		80-120	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG1804531-2								
Mercury, Dissolved	99		-		80-120	-		
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 07-09 Batch: WG1805170-2								
Hardness	105		-		80-120	-		

Matrix Spike Analysis **Batch Quality Control**

Project Name: CONCORD AVE LANDFILL

Project Number: Not Specified

Lab Number: L2340469

Report Date: 08/09/23

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): 01-09 QC Batch ID: WG1804530-3 QC Sample: L2340834-01 Client ID: MS Sample												
Arsenic, Dissolved	ND	0.12	0.136	113		-	-		75-125	-		20
Barium, Dissolved	0.0118	2	2.24	111		-	-		75-125	-		20
Cadmium, Dissolved	ND	0.053	0.0585	110		-	-		75-125	-		20
Calcium, Dissolved	26.2	10	36.9	107		-	-		75-125	-		20
Chromium, Dissolved	ND	0.2	0.220	110		-	-		75-125	-		20
Copper, Dissolved	ND	0.25	0.286	114		-	-		75-125	-		20
Iron, Dissolved	ND	1	1.10	110		-	-		75-125	-		20
Lead, Dissolved	ND	0.53	0.572	108		-	-		75-125	-		20
Manganese, Dissolved	0.089	0.5	0.640	110		-	-		75-125	-		20
Selenium, Dissolved	ND	0.12	0.136	113		-	-		75-125	-		20
Silver, Dissolved	ND	0.05	0.0559	112		-	-		75-125	-		20
Sodium, Dissolved	16.3	10	27.4	111		-	-		75-125	-		20
Zinc, Dissolved	ND	0.5	0.547	109		-	-		75-125	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1804531-3 QC Sample: L2340243-01 Client ID: MS Sample												
Mercury, Dissolved	ND	0.005	0.00506	101		-	-		75-125	-		20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 07-09 QC Batch ID: WG1805170-3 QC Sample: L2341046-14 Client ID: MS Sample												
Hardness	6.69	66.2	76.6	106		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CONCORD AVE LANDFILL

Project Number: Not Specified

Lab Number: L2340469

Report Date: 08/09/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1804530-4 QC Sample: L2340834-01 Client ID: DUP Sample						
Arsenic, Dissolved	ND	ND	mg/l	NC		20
Barium, Dissolved	0.0118	0.0118	mg/l	0		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Chromium, Dissolved	ND	ND	mg/l	NC		20
Copper, Dissolved	ND	ND	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Sodium, Dissolved	16.3	16.2	mg/l	1		20
Zinc, Dissolved	ND	ND	mg/l	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1804531-4 QC Sample: L2340243-01 Client ID: DUP Sample						
Mercury, Dissolved	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: CONCORD AVE LANDFILL

Lab Number: L2340469

Project Number: Not Specified

Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-01

Date Collected: 07/14/23 11:15

Client ID: GW-1

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

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	446.		mg CaCO3/L	2.00	NA	1	-	07/28/23 08:00	121,2320B	MKT
Solids, Total Dissolved	650		mg/l	20	--	2	-	07/21/23 04:32	121,2540C	DEW
Cyanide, Total	ND		mg/l	0.005	--	1	07/26/23 22:02	07/27/23 12:24	1,9010C/9012B	JER
Chloride	15.		mg/l	1.0	--	1	-	07/27/23 23:21	1,9251	TLH
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	07/15/23 05:12	121,4500NO3-F	KAF
Sulfate	ND		mg/l	10	--	1	07/26/23 03:20	07/26/23 03:20	1,9038	MRW
Chemical Oxygen Demand	160		mg/l	20	--	1	07/25/23 10:20	07/25/23 13:27	121,5220D	CVN



Project Name: CONCORD AVE LANDFILL

Lab Number: L2340469

Project Number: Not Specified

Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-02

Date Collected: 07/14/23 12:10

Client ID: GW-2R

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

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	48.0		mg CaCO3/L	2.00	NA	1	-	07/28/23 08:00	121,2320B	MKT
Solids, Total Dissolved	460		mg/l	13	--	1.3	-	07/21/23 04:32	121,2540C	DEW
Cyanide, Total	ND		mg/l	0.005	--	1	07/26/23 22:02	07/27/23 12:25	1,9010C/9012B	JER
Chloride	200		mg/l	10	--	10	-	07/27/23 23:25	1,9251	TLH
Nitrogen, Nitrate	2.07		mg/l	0.100	--	1	-	07/15/23 05:23	121,4500NO3-F	KAF
Sulfate	17.		mg/l	10	--	1	07/26/23 16:30	07/26/23 16:30	1,9038	MRW
Chemical Oxygen Demand	87.		mg/l	20	--	1	07/25/23 10:20	07/25/23 13:27	121,5220D	CVN



Project Name: CONCORD AVE LANDFILL

Lab Number: L2340469

Project Number: Not Specified

Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-03

Date Collected: 07/14/23 10:30

Client ID: GW-3

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

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	31.6		mg CaCO3/L	2.00	NA	1	-	07/28/23 08:00	121,2320B	MKT
Solids, Total Dissolved	74.		mg/l	13	--	1.3	-	07/21/23 04:32	121,2540C	DEW
Cyanide, Total	ND		mg/l	0.005	--	1	07/26/23 22:02	07/27/23 12:28	1,9010C/9012B	JER
Chloride	7.3		mg/l	1.0	--	1	-	07/27/23 23:25	1,9251	TLH
Nitrogen, Nitrate	0.104		mg/l	0.100	--	1	-	07/15/23 05:25	121,4500NO3-F	KAF
Sulfate	ND		mg/l	40	--	4	07/26/23 16:30	07/26/23 16:30	1,9038	MRW
Chemical Oxygen Demand	85.		mg/l	20	--	1	07/25/23 10:20	07/25/23 13:28	121,5220D	CVN



Project Name: CONCORD AVE LANDFILL

Lab Number: L2340469

Project Number: Not Specified

Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-04

Date Collected: 07/14/23 09:40

Client ID: GW-4

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

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	469.		mg CaCO3/L	2.00	NA	1	-	07/28/23 08:00	121,2320B	MKT
Solids, Total Dissolved	580		mg/l	20	--	2	-	07/21/23 04:32	121,2540C	DEW
Cyanide, Total	ND		mg/l	0.005	--	1	07/26/23 22:02	07/27/23 12:29	1,9010C/9012B	JER
Chloride	76.		mg/l	1.0	--	1	-	07/27/23 22:25	1,9251	TLH
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	07/15/23 05:26	121,4500NO3-F	KAF
Sulfate	ND		mg/l	20	--	2	07/26/23 16:30	07/26/23 16:30	1,9038	MRW
Chemical Oxygen Demand	120		mg/l	20	--	1	07/25/23 10:20	07/25/23 13:28	121,5220D	CVN



Project Name: CONCORD AVE LANDFILL

Lab Number: L2340469

Project Number: Not Specified

Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-05

Date Collected: 07/14/23 08:45

Client ID: GW-5

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

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	572.		mg CaCO3/L	2.00	NA	1	-	07/28/23 08:00	121,2320B	MKT
Solids, Total Dissolved	840		mg/l	20	--	2	-	07/21/23 04:32	121,2540C	DEW
Cyanide, Total	ND		mg/l	0.005	--	1	07/26/23 22:02	07/27/23 12:30	1,9010C/9012B	JER
Chloride	160		mg/l	10	--	10	-	07/27/23 22:27	1,9251	TLH
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	07/15/23 05:27	121,4500NO3-F	KAF
Sulfate	ND		mg/l	10	--	1	07/26/23 16:30	07/26/23 16:30	1,9038	MRW
Chemical Oxygen Demand	140		mg/l	20	--	1	07/25/23 10:20	07/25/23 13:28	121,5220D	CVN



Project Name: CONCORD AVE LANDFILL

Lab Number: L2340469

Project Number: Not Specified

Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-06

Date Collected: 07/14/23 00:00

Client ID: DUP-1

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

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	445.		mg CaCO3/L	2.00	NA	1	-	07/28/23 08:00	121,2320B	MKT
Solids, Total Dissolved	600		mg/l	20	--	2	-	07/21/23 04:32	121,2540C	DEW
Cyanide, Total	ND		mg/l	0.005	--	1	07/26/23 22:02	07/27/23 12:31	1,9010C/9012B	JER
Chloride	70.		mg/l	1.0	--	1	-	07/27/23 22:31	1,9251	TLH
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	07/15/23 05:28	121,4500NO3-F	KAF
Sulfate	ND		mg/l	10	--	1	07/26/23 16:30	07/26/23 16:30	1,9038	MRW
Chemical Oxygen Demand	110		mg/l	20	--	1	07/25/23 10:20	07/25/23 13:29	121,5220D	CVN



Project Name: CONCORD AVE LANDFILL

Lab Number: L2340469

Project Number: Not Specified

Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-07

Date Collected: 07/14/23 11:45

Client ID: SW-1

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

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	28.0		mg CaCO3/L	2.00	NA	1	-	07/28/23 08:00	121,2320B	MKT
Solids, Total Dissolved	98.		mg/l	20	--	2	-	07/21/23 04:32	121,2540C	DEW
Cyanide, Total	0.032		mg/l	0.005	--	1	07/26/23 22:02	07/27/23 12:57	1,9010C/9012B	JER
Chloride	26.		mg/l	1.0	--	1	-	07/27/23 22:31	1,9251	TLH
Nitrogen, Nitrate	0.195		mg/l	0.100	--	1	-	07/15/23 05:30	121,4500NO3-F	KAF
Sulfate	ND		mg/l	10	--	1	07/26/23 16:30	07/26/23 16:30	1,9038	MRW
Chemical Oxygen Demand	230		mg/l	20	--	1	07/25/23 10:20	07/25/23 13:29	121,5220D	CVN



Project Name: CONCORD AVE LANDFILL

Lab Number: L2340469

Project Number: Not Specified

Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-08

Date Collected: 07/14/23 10:45

Client ID: SW-2

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

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	59.8		mg CaCO3/L	2.00	NA	1	-	07/28/23 08:00	121,2320B	MKT
Solids, Total Dissolved	470		mg/l	20	--	2	-	07/21/23 04:32	121,2540C	DEW
Cyanide, Total	ND		mg/l	0.005	--	1	07/26/23 22:02	07/27/23 13:28	1,9010C/9012B	JER
Chloride	170		mg/l	10	--	10	-	07/27/23 23:28	1,9251	TLH
Nitrogen, Nitrate	1.30		mg/l	0.100	--	1	-	07/15/23 05:31	121,4500NO3-F	KAF
Sulfate	ND		mg/l	50	--	5	07/26/23 16:30	07/26/23 16:30	1,9038	MRW
Chemical Oxygen Demand	120		mg/l	20	--	1	07/25/23 10:20	07/25/23 13:30	121,5220D	CVN



Project Name: CONCORD AVE LANDFILL

Lab Number: L2340469

Project Number: Not Specified

Report Date: 08/09/23

SAMPLE RESULTS

Lab ID: L2340469-09

Date Collected: 07/14/23 09:00

Client ID: SW-3

Date Received: 07/14/23

Sample Location: BELMONT, MA

Field Prep: Refer to COC

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	54.0		mg CaCO3/L	2.00	NA	1	-	07/28/23 08:00	121,2320B	MKT
Solids, Total Dissolved	350		mg/l	20	--	2	-	07/21/23 04:32	121,2540C	DEW
Cyanide, Total	ND		mg/l	0.005	--	1	07/26/23 22:02	07/27/23 13:29	1,9010C/9012B	JER
Chloride	130		mg/l	10	--	10	-	07/27/23 23:30	1,9251	TLH
Nitrogen, Nitrate	0.265		mg/l	0.100	--	1	-	07/15/23 05:32	121,4500NO3-F	KAF
Sulfate	ND		mg/l	25	--	2.5	07/26/23 16:30	07/26/23 16:30	1,9038	MRW
Chemical Oxygen Demand	82.		mg/l	20	--	1	07/25/23 10:20	07/25/23 13:30	121,5220D	CVN



Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

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): 01-09 Batch: WG1803570-1										
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	07/15/23 04:05	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 01-09 Batch: WG1805836-1										
Solids, Total Dissolved	ND		mg/l	10	--	1	-	07/21/23 04:32	121,2540C	DEW
General Chemistry - Westborough Lab for sample(s): 01-09 Batch: WG1807341-1										
Chemical Oxygen Demand	ND		mg/l	20	--	1	07/25/23 10:20	07/25/23 13:26	121,5220D	CVN
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1807828-1										
Sulfate	ND		mg/l	10	--	1	07/26/23 03:20	07/26/23 03:20	1,9038	MRW
General Chemistry - Westborough Lab for sample(s): 02-09 Batch: WG1807830-1										
Sulfate	ND		mg/l	10	--	1	07/26/23 16:30	07/26/23 16:30	1,9038	MRW
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG1808124-1										
Cyanide, Total	ND		mg/l	0.005	--	1	07/26/23 22:02	07/27/23 12:15	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 08-09 Batch: WG1808131-1										
Cyanide, Total	ND		mg/l	0.005	--	1	07/26/23 22:02	07/27/23 13:24	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 01-09 Batch: WG1808687-1										
Chloride	ND		mg/l	1.0	--	1	-	07/27/23 22:17	1,9251	TLH
General Chemistry - Westborough Lab for sample(s): 01-09 Batch: WG1808937-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	07/28/23 08:00	121,2320B	MKT

Lab Control Sample Analysis

Batch Quality Control

Project Name: CONCORD AVE LANDFILL

Project Number: Not Specified

Lab Number: L2340469

Report Date: 08/09/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09 Batch: WG1803570-2								
Nitrogen, Nitrate	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-09 Batch: WG1805836-2								
Solids, Total Dissolved	91		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-09 Batch: WG1807341-2								
Chemical Oxygen Demand	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1807828-2								
Sulfate	90		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02-09 Batch: WG1807830-2								
Sulfate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG1808124-2 WG1808124-3								
Cyanide, Total	93		97		85-115	4		20
General Chemistry - Westborough Lab Associated sample(s): 08-09 Batch: WG1808131-2 WG1808131-3								
Cyanide, Total	92		88		85-115	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: CONCORD AVE LANDFILL

Project Number: Not Specified

Lab Number: L2340469

Report Date: 08/09/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09 Batch: WG1808687-2					
Chloride	97	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-09 Batch: WG1808937-2					
Alkalinity, Total	100	-	90-110	-	10

Matrix Spike Analysis **Batch Quality Control**

Project Name: CONCORD AVE LANDFILL

Project Number: Not Specified

Lab Number: L2340469

Report Date: 08/09/23

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): 01-09				QC Batch ID: WG1803570-4			QC Sample: L2340469-01			Client ID: GW-1		
Nitrogen, Nitrate	ND	4	4.20	105		-	-		83-113	-		17
General Chemistry - Westborough Lab Associated sample(s): 01-09				QC Batch ID: WG1807341-3			QC Sample: L2339743-14			Client ID: MS Sample		
Chemical Oxygen Demand	32	238	260	96		-	-		84-120	-		12
General Chemistry - Westborough Lab Associated sample(s): 01				QC Batch ID: WG1807828-4			QC Sample: L2340466-16			Client ID: MS Sample		
Sulfate	34	40	76	105		-	-		55-147	-		14
General Chemistry - Westborough Lab Associated sample(s): 02-09				QC Batch ID: WG1807830-4			QC Sample: L2340469-02			Client ID: GW-2R		
Sulfate	17	20	36	95		-	-		55-147	-		14
General Chemistry - Westborough Lab Associated sample(s): 01-07 GW-2R				QC Batch ID: WG1808124-4			WG1808124-5			QC Sample: L2340469-02		
Cyanide, Total	ND	0.2	0.205	102		0.205	102		80-120	0		20
General Chemistry - Westborough Lab Associated sample(s): 08-09 SW-3				QC Batch ID: WG1808131-4			WG1808131-5			QC Sample: L2340469-09		
Cyanide, Total	ND	0.2	0.212	106		0.205	102		80-120	3		20
General Chemistry - Westborough Lab Associated sample(s): 01-09				QC Batch ID: WG1808687-4			QC Sample: L2340469-01			Client ID: GW-1		
Chloride	15	20	35	100		-	-		58-140	-		7
General Chemistry - Westborough Lab Associated sample(s): 01-09				QC Batch ID: WG1808937-5			QC Sample: L2340469-01			Client ID: GW-1		
Alkalinity, Total	446	100	530	84	Q	-	-		86-116	-		10

Lab Duplicate Analysis

Batch Quality Control

Project Name: CONCORD AVE LANDFILL

Project Number: Not Specified

Lab Number: L2340469

Report Date: 08/09/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-09	QC Batch ID: WG1803570-3	QC Sample: L2340469-01	Client ID: GW-1		
Nitrogen, Nitrate	ND	ND	mg/l	NC		17
General Chemistry - Westborough Lab	Associated sample(s): 01-09	QC Batch ID: WG1805836-3	QC Sample: L2340469-01	Client ID: GW-1		
Solids, Total Dissolved	650	660	mg/l	2		10
General Chemistry - Westborough Lab	Associated sample(s): 01-09	QC Batch ID: WG1805836-4	QC Sample: L2340469-02	Client ID: GW-2R		
Solids, Total Dissolved	460	480	mg/l	4		10
General Chemistry - Westborough Lab	Associated sample(s): 01-09	QC Batch ID: WG1807341-4	QC Sample: L2339743-14	Client ID: DUP Sample		
Chemical Oxygen Demand	32	35	mg/l	9		12
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG1807828-3	QC Sample: L2340466-16	Client ID: DUP Sample		
Sulfate	34	34	mg/l	0		14
General Chemistry - Westborough Lab	Associated sample(s): 02-09	QC Batch ID: WG1807830-3	QC Sample: L2340469-02	Client ID: GW-2R		
Sulfate	17	18	mg/l	6		14
General Chemistry - Westborough Lab	Associated sample(s): 01-09	QC Batch ID: WG1808687-3	QC Sample: L2340469-01	Client ID: GW-1		
Chloride	15	15	mg/l	0		7
General Chemistry - Westborough Lab	Associated sample(s): 01-09	QC Batch ID: WG1808937-3	QC Sample: L2340469-01	Client ID: GW-1		
Alkalinity, Total	446	464	mg CaCO3/L	4		10

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
F	Absent
G	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2340469-01A	Vial HCl preserved	F	NA		2.8	Y	Absent		8260(14)
L2340469-01B	Vial HCl preserved	F	NA		2.8	Y	Absent		8260(14)
L2340469-01C	Vial HCl preserved	F	NA		2.8	Y	Absent		8260(14)
L2340469-01D	Plastic 120ml HNO3 preserved	F	<2	<2	2.8	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),MN-SI(180),NA-SI(180),CU-SI(180),AG-SI(180),AS-SI(180),CD-SI(180),CR-SI(180),CA-SI(180),HG-S(28),SE-SI(180),ZN-SI(180)
L2340469-01E	Plastic 120ml H2SO4 preserved	F	<2	<2	2.8	Y	Absent		COD-5220(28)
L2340469-01F	Plastic 250ml unpreserved/No Headspace	F	NA		2.8	Y	Absent		ALK-T-2320(14)
L2340469-01G	Plastic 250ml NaOH preserved	F	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2340469-01H	Amber 250ml unpreserved	F	7	7	2.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-01I	Amber 250ml unpreserved	F	7	7	2.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-01J	Plastic 500ml unpreserved	F	7	7	2.8	Y	Absent		SO4-9038(28),CL-9251(28),NO3-4500(2),TDS-2540(7)
L2340469-02A	Vial HCl preserved	F	NA		2.8	Y	Absent		8260(14)
L2340469-02B	Vial HCl preserved	F	NA		2.8	Y	Absent		8260(14)
L2340469-02C	Vial HCl preserved	F	NA		2.8	Y	Absent		8260(14)
L2340469-02D	Plastic 120ml HNO3 preserved	F	<2	<2	2.8	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),NA-SI(180),AG-SI(180),CU-SI(180),MN-SI(180),AS-SI(180),CD-SI(180),CR-SI(180),HG-S(28),ZN-SI(180),CA-SI(180),SE-SI(180)
L2340469-02E	Plastic 120ml H2SO4 preserved	F	<2	<2	2.8	Y	Absent		COD-5220(28)
L2340469-02F	Plastic 250ml unpreserved/No Headspace	F	NA		2.8	Y	Absent		ALK-T-2320(14)
L2340469-02G	Plastic 250ml NaOH preserved	F	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2340469-02H	Amber 250ml unpreserved	F	7	7	2.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)

*Values in parentheses indicate holding time in days

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2340469-02I	Amber 250ml unpreserved	F	7	7	2.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-02J	Plastic 500ml unpreserved	F	7	7	2.8	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)
L2340469-03A	Vial HCl preserved	F	NA		2.8	Y	Absent		8260(14)
L2340469-03B	Vial HCl preserved	F	NA		2.8	Y	Absent		8260(14)
L2340469-03C	Vial HCl preserved	F	NA		2.8	Y	Absent		8260(14)
L2340469-03D	Plastic 120ml HNO3 preserved	F	<2	<2	2.8	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),AS-SI(180),MN-SI(180),AG-SI(180),CU-SI(180),NA-SI(180),CD-SI(180),CR-SI(180),HG-S(28),ZN-SI(180),SE-SI(180),CA-SI(180)
L2340469-03E	Plastic 120ml H2SO4 preserved	F	<2	<2	2.8	Y	Absent		COD-5220(28)
L2340469-03F	Plastic 250ml unpreserved/No Headspace	F	NA		2.8	Y	Absent		ALK-T-2320(14)
L2340469-03G	Plastic 250ml NaOH preserved	F	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2340469-03H	Amber 250ml unpreserved	F	7	7	2.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-03I	Amber 250ml unpreserved	F	7	7	2.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-03J	Plastic 500ml unpreserved	F	7	7	2.8	Y	Absent		SO4-9038(28),CL-9251(28),NO3-4500(2),TDS-2540(7)
L2340469-04A	Vial HCl preserved	G	NA		3.1	Y	Absent		8260(14)
L2340469-04B	Vial HCl preserved	G	NA		3.1	Y	Absent		8260(14)
L2340469-04C	Vial HCl preserved	G	NA		3.1	Y	Absent		8260(14)
L2340469-04D	Plastic 120ml HNO3 preserved	G	<2	<2	3.1	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),CU-SI(180),NA-SI(180),AG-SI(180),MN-SI(180),AS-SI(180),CD-SI(180),CR-SI(180),SE-SI(180),ZN-SI(180),CA-SI(180),HG-S(28)
L2340469-04E	Plastic 120ml H2SO4 preserved	G	<2	<2	3.1	Y	Absent		COD-5220(28)
L2340469-04F	Plastic 250ml unpreserved/No Headspace	G	NA		3.1	Y	Absent		ALK-T-2320(14)
L2340469-04G	Plastic 250ml NaOH preserved	G	>12	>12	3.1	Y	Absent		TCN-9010(14)
L2340469-04H	Amber 250ml unpreserved	G	7	7	3.1	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-04I	Amber 250ml unpreserved	G	7	7	3.1	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-04J	Plastic 500ml unpreserved	G	7	7	3.1	Y	Absent		SO4-9038(28),CL-9251(28),NO3-4500(2),TDS-2540(7)
L2340469-05A	Vial HCl preserved	G	NA		3.1	Y	Absent		8260(14)
L2340469-05B	Vial HCl preserved	G	NA		3.1	Y	Absent		8260(14)

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2340469-05C	Vial HCl preserved	G	NA		3.1	Y	Absent		8260(14)
L2340469-05D	Plastic 120ml HNO3 preserved	G	<2	<2	3.1	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),AS-SI(180),CU-SI(180),NA-SI(180),AG-SI(180),MN-SI(180),CD-SI(180),CR-SI(180),HG-S(28),ZN-SI(180),SE-SI(180),CA-SI(180)
L2340469-05E	Plastic 120ml H2SO4 preserved	G	<2	<2	3.1	Y	Absent		COD-5220(28)
L2340469-05F	Plastic 250ml unpreserved/No Headspace	G	NA		3.1	Y	Absent		ALK-T-2320(14)
L2340469-05G	Plastic 250ml NaOH preserved	G	>12	>12	3.1	Y	Absent		TCN-9010(14)
L2340469-05H	Amber 250ml unpreserved	G	7	7	3.1	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-05I	Amber 250ml unpreserved	G	7	7	3.1	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-05J	Plastic 500ml unpreserved	G	7	7	3.1	Y	Absent		SO4-9038(28),CL-9251(28),NO3-4500(2),TDS-2540(7)
L2340469-06A	Vial HCl preserved	G	NA		3.1	Y	Absent		8260(14)
L2340469-06B	Vial HCl preserved	G	NA		3.1	Y	Absent		8260(14)
L2340469-06C	Vial HCl preserved	G	NA		3.1	Y	Absent		8260(14)
L2340469-06D	Plastic 120ml HNO3 preserved	G	<2	<2	3.1	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),CU-SI(180),MN-SI(180),AS-SI(180),AG-SI(180),NA-SI(180),CD-SI(180),CR-SI(180),ZN-SI(180),CA-SI(180),HG-S(28),SE-SI(180)
L2340469-06E	Plastic 120ml H2SO4 preserved	G	<2	<2	3.1	Y	Absent		COD-5220(28)
L2340469-06F	Plastic 250ml unpreserved/No Headspace	G	NA		3.1	Y	Absent		ALK-T-2320(14)
L2340469-06G	Plastic 250ml NaOH preserved	G	>12	>12	3.1	Y	Absent		TCN-9010(14)
L2340469-06H	Amber 250ml unpreserved	G	7	7	3.1	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-06I	Amber 250ml unpreserved	G	7	7	3.1	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-06J	Plastic 500ml unpreserved	G	7	7	3.1	Y	Absent		SO4-9038(28),CL-9251(28),NO3-4500(2),TDS-2540(7)
L2340469-07A	Vial HCl preserved	F	NA		2.8	Y	Absent		8260(14)
L2340469-07B	Vial HCl preserved	F	NA		2.8	Y	Absent		8260(14)
L2340469-07C	Vial HCl preserved	F	NA		2.8	Y	Absent		8260(14)
L2340469-07D	Plastic 120ml HNO3 preserved	F	<2	<2	2.8	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),CU-SI(180),AG-SI(180),AS-SI(180),NA-SI(180),MN-SI(180),CD-SI(180),CR-SI(180),HG-S(28),ZN-SI(180),CA-SI(180),SE-SI(180)

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2340469-07E	Plastic 120ml H2SO4 preserved	F	<2	<2	2.8	Y	Absent		COD-5220(28)
L2340469-07F	Plastic 250ml unpreserved/No Headspace	F	NA		2.8	Y	Absent		ALK-T-2320(14)
L2340469-07G	Plastic 250ml HNO3 preserved	F	<2	<2	2.8	Y	Absent		HARDT(180)
L2340469-07H	Plastic 250ml NaOH preserved	F	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2340469-07I	Amber 250ml unpreserved	F	7	7	2.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-07J	Amber 250ml unpreserved	F	7	7	2.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-07K	Plastic 500ml unpreserved	F	7	7	2.8	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)
L2340469-08A	Vial HCl preserved	F	NA		2.8	Y	Absent		8260(14)
L2340469-08B	Vial HCl preserved	F	NA		2.8	Y	Absent		8260(14)
L2340469-08C	Vial HCl preserved	F	NA		2.8	Y	Absent		8260(14)
L2340469-08D	Plastic 120ml HNO3 preserved	F	<2	<2	2.8	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),CA-SI(180),SE-SI(180),HG-S(28),ZN-SI(180)
L2340469-08E	Plastic 120ml H2SO4 preserved	F	<2	<2	2.8	Y	Absent		COD-5220(28)
L2340469-08F	Plastic 250ml unpreserved/No Headspace	F	NA		2.8	Y	Absent		ALK-T-2320(14)
L2340469-08G	Plastic 250ml HNO3 preserved	F	<2	<2	2.8	Y	Absent		HARDT(180)
L2340469-08H	Plastic 250ml NaOH preserved	F	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2340469-08I	Amber 250ml unpreserved	F	7	7	2.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-08J	Amber 250ml unpreserved	F	7	7	2.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-08K	Plastic 500ml unpreserved	F	7	7	2.8	Y	Absent		SO4-9038(28),CL-9251(28),NO3-4500(2),TDS-2540(7)
L2340469-09A	Vial HCl preserved	G	NA		3.1	Y	Absent		8260(14)
L2340469-09B	Vial HCl preserved	G	NA		3.1	Y	Absent		8260(14)
L2340469-09C	Vial HCl preserved	G	NA		3.1	Y	Absent		8260(14)
L2340469-09D	Plastic 120ml HNO3 preserved	G	<2	<2	3.1	Y	Absent		PB-SI(180),FE-SI(180),BA-SI(180),NA-SI(180),AS-SI(180),CU-SI(180),MN-SI(180),AG-SI(180),CD-SI(180),CR-SI(180),SE-SI(180),CA-SI(180),HG-S(28),ZN-SI(180)
L2340469-09E	Plastic 120ml H2SO4 preserved	G	<2	<2	3.1	Y	Absent		COD-5220(28)
L2340469-09F	Plastic 250ml unpreserved/No Headspace	G	NA		3.1	Y	Absent		ALK-T-2320(14)
L2340469-09G	Plastic 250ml HNO3 preserved	G	<2	<2	3.1	Y	Absent		HARDT(180)

Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Serial_No:08092317:49
Lab Number: L2340469
Report Date: 08/09/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2340469-09H	Plastic 250ml NaOH preserved	G	>12	>12	3.1	Y	Absent		TCN-9010(14)
L2340469-09I	Amber 250ml unpreserved	G	7	7	3.1	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-09J	Amber 250ml unpreserved	G	7	7	3.1	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2340469-09K	Plastic 500ml unpreserved	G	7	7	3.1	Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)
L2340469-10A	Vial HCl preserved	G	NA		3.1	Y	Absent		8260(14)
L2340469-10B	Vial HCl preserved	G	NA		3.1	Y	Absent		8260(14)

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23

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: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

- A** - Spectra identified as "Aldol 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.

Report Format: Data Usability Report



Project Name: CONCORD AVE LANDFILL
Project Number: Not Specified

Lab Number: L2340469
Report Date: 08/09/23

Data Qualifiers

- 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.
- 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.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: CONCORD AVE LANDFILL**Lab Number:** L2340469**Project Number:** Not Specified**Report Date:** 08/09/23

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 20

Published Date: 6/16/2023 4:52:28 PM

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Certification Information

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

Westborough Facility**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 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.

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 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).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****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, EPA 537.1.****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

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Project Information

Project Name: Concord Ave LandfillProject Location: Belmont MA

Project #:

Project Manager: Bruce Haskell

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Date Rec'd in Lab: 7/14/23ALPHA Job #: 12340469

Report Information - Data Deliverables

☒ FAX ☒ EMAIL

Billing Information

☐ Same as Client info PO #:

Client Information

Client: Langdon EnvironmentalAddress: 40 Pleasant St. Suite 302Dorchester, MA 01902Phone: 617-875-3093Email: bhaskell@langdonenv.com

Additional Project Information:

VOC with MEK, NPBK, Ties, Acetone

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

ANALYSIS	SAMPLE INFO									
	VOC: ☒ 624 ☐ 524.2	SVOC: ☐ ABN ☐ PAH	METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15	EPH: ☐ RCRA5 ☐ RCRA8	VPH: ☐ Ranges & Targets ☐ Ranges Only	PCB: ☐ Ranges & Targets ☐ Ranges Only	TPH: ☐ Quant Only ☐ Fingerprint	TCN	COB	ALK
TD5, SD4, NO, CI L4, Diokane 820, 510 Dissolved Metals (FF)										
Filtration ☒ Field ☐ Lab to do ☐ Preservation ☐ Lab to do ☐										
Sample Comments										

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials										
		Date	Time												
<u>40469-01</u>	<u>GW-1</u>	<u>7/14/23</u>	<u>1115</u>	<u>GW</u>	<u>NR</u>	<u>X</u>									<u>10</u>
<u>02</u>	<u>GW-2R</u>		<u>1210</u>												
<u>03</u>	<u>GW-3</u>		<u>1030</u>												
<u>04</u>	<u>GW-4</u>		<u>940</u>												
<u>05</u>	<u>GW-5</u>		<u>845</u>												
<u>06</u>	<u>Dup-1</u>		<u>-</u>												

Container Type

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

Preservative

A= None
 B= HCl
 C= HNO₃
 D= H₂SO₄
 E= NaOH
 F= MeOH
 G= NaHSO₄
 H= Na₂S₂O₃
 I= Ascorbic Acid
 J= NH₄Cl
 K= Zn Acetate
 O= Other

Container Type VPreservative B

P P P P A D
E D A A A C

Relinquished By:

Date/Time

Received By:

Date/Time

Bruce Haskell 7/14/23 1310
[Signature] 7/14/23 1813

[Signature] 7/14/23 1310
[Signature] 7/14 1813

All samples submitted are subject to
 Alpha's Terms and Conditions.
 See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)



CHAIN OF CUSTODY

PAGE 2 OF 2Date Rec'd in Lab: 7/14/23ALPHA Job #: L2340469

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Project Information

Project Name: Concord Ave LandfillProject Location: Berlinton MA

Project #:

Project Manager: Bruce Husten

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Report Information - Data Deliverables

☒ PDF ☒ EMAIL

Billing Information

☒ Same as Client info PO #:

Client Information

Client: Langdon EnvironmentalAddress: 40 Pleasant St. Suite 302Portsmouth, NH 03802Phone: 603 875 3693Email: bhusten@langdonenv.com

Additional Project Information:

Same as pg 1 of 2NO SW-4 submitted

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

ALPHA Lab ID
(Lab Use Only)

Sample ID

Collection

Date

Time

Sample Matrix

Sampler Initials

VOC: <u>2390</u> ☐ 624 ☐ 524.2	SVOC: ☐ ABN ☐ PAH	METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15	EPH: ☐ RCRA5 ☐ RCRA8	VPH: ☐ Ranges & Targets ☐ Ranges Only	TPH: ☐ Ranges & Targets ☐ Ranges Only	TCN	COD	ALK	TDS	1-4 Nitrates	Dissolved Metals	SAMPLE INFO	TOTAL # BOTTLES
												Filtration ☒ Field ☐ Lab to do Preservation ☐ Lab to do	

Sample Comments

<u>40469 07</u>	<u>SW-1</u>	<u>7/14/23</u>	<u>1145</u>	<u>SW</u>	<u>NF</u>	<u>+</u>	<u>+</u>	<u>XXXXXX</u>	<u>+</u>	<u>1</u>
<u>08</u>	<u>SW-2</u>		<u>1045</u>							<u>1</u>
<u>09</u>	<u>SW-3</u>		<u>900</u>							<u>1</u>
<u>10</u>	<u>SW-4</u>									<u>1</u>
<u>10</u>	<u>TRIP Blank</u>			<u>Lab</u>		<u>+</u>				<u>2</u>

Container Type

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

Preservative

A= None
 B= HCl
 C= HNO₃
 D= H₂SO₄
 E= NaOH
 F= MeOH
 G= NaHSO₄
 H= Na₂S₂O₃
 I= Ascorbic Acid
 J= NH₄Cl
 K= Zn Acetate
 O= Other

Container Type

Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

All samples submitted are subject to
 Alpha's Terms and Conditions.
 See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)