



Babb & Associates, P.A.

December 20, 2021

Mr. Eric B. Aufderhaar, P.G., Environmental Program Consultant
Ms. Jackie Drummond, Hydrogeologist
NC Division of Waste Management
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Re: 2021 Annual Water Quality Monitoring Report
Former Seaboard Chemical/Riverdale Drive Landfill Site
Jamestown, North Carolina
EPA ID No. NCD 071 574 164
NC DEQ Landfill Permit No. 41-01

Dear Eric and Jackie:

Please find attached the 2021 Annual Water Quality Monitoring Report for the former Seaboard Chemical/Riverdale Drive Landfill Site in Jamestown, North Carolina.

If there are any questions or comments regarding this report, please contact the undersigned at (919) 605-4719.

Respectfully,

Babb & Associates, P.A.

Gary D. Babb, P.G.
President

Enclosure

Cc: Robby Stone
Craig Coslette
Mike Spencer



DENR USE ONLY

☐ Paper Report☐ Electronic Data - Email CD (data loaded: Yes / No)

Doc/Event #:

NC DENR

Division of Waste Management - Solid Waste

**Environmental Monitoring
Reporting Form**

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i)).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Babb & Associates, P.A.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Gary D. Babb

Phone: 919/605-4719

E-mail: gdbabb@gmail.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Closed Riverdale Drive Landfill	SR 1145 High Point, NC	41-01	.0500	October 21-28, 2021

Environmental Status: (Check all that apply)☐ Initial/Background Monitoring ☐ Detection Monitoring ☐ Assessment Monitoring ☒ Corrective Action**Type of data submitted: (Check all that apply)**

☒ Groundwater monitoring data from monitoring wells	☐ Methane gas monitoring data	Annual Monitoring
☐ Groundwater monitoring data from private water supply wells	☒ Corrective action data (specify)	
☐ Leachate monitoring data	☐ Other(specify)	
☒ Surface water monitoring data		

Notification attached?

- ☐ No. No groundwater or surface water standards were exceeded.
- ☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
- ☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Gary D. Babb

Licensed Geologist

919/605-4719

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

November 23, 2021

Affix NC Licensed/ Professional Geologist Seal

Signature

Date

Babb & Associates, P.A., 5506 Bradford Pear Ct., Raleigh, NC 27606

Facility Representative Address

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009



Water Quality Monitoring Report

Former Seaboard Chemical/Riverdale Drive Landfill
5899 Riverdale Drive
Jamestown, North Carolina
Permit No. 41-01
NCD 071 574 164

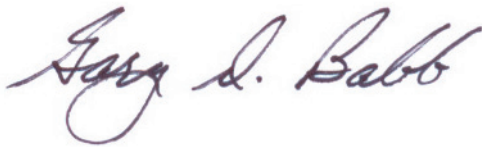
Prepared for:

Seaboard Group II and City of High Point
High Point, NC

Prepared by:

Babb & Associates, P.A.
5506 Bradford Pear Court
Raleigh, North Carolina 27606

October 2021



Gary D. Babb, Licensed Geologist



Babb & Associates, P.A.

Table of Contents

1.0	Introduction	1
1.1	Site Information	
1.2	Site Geology	
1.3	Site Hydrogeology	
2.0	Water Quality Monitoring Program	6
2.1	Groundwater Monitoring Network	
2.2	Surface Water Monitoring Network	
3.0	Water Quality Sample Collection	8
3.1	Field Sample Procedures	
3.2	Field Quality Assurance	
3.3	Sample Delivery/Chain-of-Custody	
4.0	Laboratory Analysis	11
5.0	Hydrogeological Conditions	12
6.0	Laboratory Analytical Results	13
6.1	Groundwater Analytical Results	
6.2	Surface Water Analytical Results	
6.3	Quality Control Samples	
7.0	Conclusions	18
Figure 1	Site Location Map	
Figure 2	Groundwater Potentiometric Map	
Figure 3	1,2-Dichloroethane Isoconcentration Map	
Figure 4	Vinyl Chloride Isoconcentration Map	
Figure 5	Chlorobenzene Isoconcentration Map	
Figure 6	1,4-Dioxane Isoconcentration Map	
Figure 7	Total Volatile Organic Compound Isoconcentration Map	
Table 1	Monitoring Well Construction/Groundwater Elevations	
Table 2	Groundwater VOC Concentrations	
Table 3	Surface Water VOC Concentrations	
Table 4	Field Parameters	
Table 5	Monitoring Well Lat/Long and Elevations	
Appendix A	ENCO Laboratory Analytical Report	

1.0 Introduction

1.1 Site Information

The former Seaboard Chemical/Riverdale Drive Landfill Site (the Site) is located approximately five miles east-southeast of High Point, NC near the intersection of Riverdale Drive and Interstate 85 (Figure 1). The Site consists of two properties, the facility where the former Seaboard Chemical Corporation (Seaboard) conducted operations and the closed municipal Riverdale Drive Landfill (Landfill), as shown on Figure 2.

The former Seaboard Facility is located at 5899 Riverdale Drive, Jamestown, NC and consists of approximately 13 acres. Between 1974 and 1989, Seaboard operated solvent recovery and fuel blending processes at the facility. The corporation declared bankruptcy in 1989 and was not able to fund the cost of performing the necessary site closure and remediation. Removal activities were conducted during 1990 and 1992 to remove all remaining waste materials and certain tanks and equipment from the former Seaboard Facility. The removal was conducted by Seaboard Group I which was formed by parties that may have used the services of Seaboard in the past.

The adjacent Landfill, a closed unlined municipal solid waste facility, consists of approximately 150 acres and bounds the former Seaboard Facility on two sides. The Landfill was operated from the 1950's until October 1993. The Landfill was permitted by the North Carolina DEQ Solid Waste Section in 1979. During Landfill operations, sections of the two tributary streams that cross the landfill property were piped and solid waste was used to fill the drainage valleys. The two streams are referred to as the Southern Intermittent Stream and the Northern Intermittent Stream. During filling of the Southern Intermittent Stream valley, a leachate collection system was installed adjacent to the stream channel to collect leachate migrating from the overlying solid waste. In

1989, a leachate collection system was added to control surface seeps (leachate leaks) along the slopes of the Landfill. From approximately 1966 to 1970, Landfill operations also included the disposal and open burning of spent solvents in shallow pits located just north of the former Landfill scale house (Figure 2). Periodically, these burn pits were cleaned of residue that accumulated in a mound to the south of the burn pits. Presently, this mound consists of approximately 600 cubic yards of contaminated residue capped by a synthetic liner and is referred to as the “soil residue mound”. The Landfill is now capped and maintained under an approved post-closure plan.

Seaboard Group II was formed in 1994 and entered into an agreement with the City of High Point (the City) to jointly perform a remedial investigation and prepare a baseline risk assessment and feasibility study for the Site, including both the former Seaboard Facility and closed Landfill properties. The Seaboard Group II and the City then entered into an Administrative Order on Consent (AOC) dated January 30, 1996 with NC DEQ to perform the remedial investigation. The feasibility study was conducted under a separate AOC dated July 22, 1997.

Remedial investigations conducted at the Site have documented the presence of chlorinated and non-chlorinated volatile organic compounds (VOCs) in soils, leachate, groundwater, and surface water. The results from the remedial investigation indicate that the VOC-affected groundwater had migrated toward Randleman Lake, which adjoins the Site along the northern and eastern property boundary of the Landfill. The Randleman Lake was created by the impoundment of the Deep River in 2006 by the Randleman Lake Dam, which is located approximately 11.5 miles downstream of the Site.

The *Remedial Recommendation Document* (February 2005) presented a remedial strategy for the impacted media at the Site based on the results of the remedial investigation, baseline risk assessment, and feasibility study. The remedial design consisted of groundwater extraction and treatment in combination with institutional controls including site access control, recorded land use restrictions, and restriction of water

supply well construction. The groundwater and surface water monitoring program is designed to evaluate the effectiveness of the remedy. The *Remedial Recommendation Document* was conditionally approved by the NC DEQ in September 2005.

Seaboard Group II and the City entered into a Remedial Action Settlement Agreement (RASA) with NC DEQ on December 29, 2008. The RASA provides for the design and implementation of the approved remedial action program for the Site as well as completion and reporting of annual groundwater and surface water monitoring activities.

1.2 Site Geology

The Site is located in the central Piedmont Physiographic Province in the northern portion of the Carolina Slate Belt. Granite is the predominant rock type in the area and outcrops are observed along the creeks and within the Site. The geology of the Site consists of fractured granitic gneiss which has been intruded by mafic dikes. The mafic dikes are generally oriented N20°E and are sub-vertical, dipping to both the northwest and the southeast. The mafic dikes generally do not occur as single massive tabular bodies but normally occur as a swarm of thinner tabular and/or irregular dikes within larger fracture zones within the granitic gneiss. The thickness of individual mafic dikes ranges from less than one foot to more than 30 feet. Smaller mafic dikes that are not associated with fracture zones are disseminated throughout the granitic gneiss.

Several prominent geologic structures have been identified and mapped at the Site, including these significant geologic features:

Southern Intermittent Stream Fault – N80°E oriented fracture zone/fault that parallels the Southern Intermittent Stream. Based on an on-site outcrop measurement and fracture orientation data from the PW-3D core, the fracture zone is believed to dip 43° to the south;

Seaboard Dike – N20°E oriented mafic dike that extends from the Seaboard Facility to the vicinity of monitoring well PW-13I and north of the Deep River;

PW-5D Dike/Fault – N20°E oriented diabase dike/fault that extends northward from the east side of the Seaboard Facility near PW-8S to the vicinity of monitoring well PW-5D north of the Deep River. The PW-5D Fault has an inferred connection with the Southern Intermittent Stream Fault beneath the Landfill;

Regional Fault/Dike – major regional fault/mafic dike that extends N20°E near PW-6I/6D and extends north of the Deep River; and

Deep River Fault – southward-dipping fault that forms the east-west segment of the Deep River. Based on an on-site outcrop measurement and fracture orientation data from the PW-5D core, the fracture zone is believed to dip 50° to the south.

1.3 Site Hydrogeology

The Site hydrogeology is characteristic of the regional piedmont aquifer system and consists of three aquifer units: the saprolite and partially weathered rock (PWR) aquifer, shallow bedrock aquifer, and deep bedrock aquifer. The saprolite/PWR aquifer is the uppermost aquifer across much of the Site, but is locally absent where the water table occurs below the top of bedrock. The thickness of the saprolite/PWR aquifer, where present, is generally less than 20 feet but extends to depths of 90 feet in limited areas

(PW-13I). The shallow bedrock aquifer extends from the top of competent bedrock to a depth where groundwater flow becomes limited due to the lack of open fractures. The base of the shallow bedrock zone at the Site is variable but generally believed to occur at depths of 200 to 400 feet. The deep bedrock aquifer extends downward from the base of the shallow bedrock aquifer and is characterized by low permeability and limited groundwater flow. The primary zone of groundwater movement at the Site is considered to occur within the saprolite/PWR and shallow bedrock aquifer zones.

The saprolite/PWR and shallow bedrock aquifers are hydraulically connected. The potentiometric surface of shallow groundwater in the saprolite/PWR aquifer is generally a subdued replica of the original topography of the Site. The saprolite/PWR aquifer is locally absent where the water table occurs below the top of bedrock (generally beneath the topographic highs). Groundwater flow within the shallow bedrock aquifer is primarily through fractures in the bedrock and is strongly controlled by subsurface geologic structures such as faults, fracture zones, and mafic dikes.

Two constant rate discharge tests were conducted in August and September 1997. The calculated bulk hydraulic conductivity values at the Site range from 0.5 to 3 feet/day in the saprolite/PWR aquifer and 0.1 to 0.6 feet/day in the shallow bedrock aquifer.

2.0 Water Quality Monitoring Program

The water quality monitoring network at the Site is evaluated on an annual basis. The locations of the groundwater and surface water samples collected during the annual monitoring event are shown on the attached Figure 2. The primary objectives of the annual groundwater and surface water monitoring program are:

- Monitor VOC concentrations and migration of the VOC-affected groundwater;
- Monitor groundwater elevations, hydraulic gradients and flow directions;
- Monitor surface water quality in Randleman Lake, Northern Intermittent Stream, and Southern Intermittent Stream to assess impacts from groundwater discharge.

The 2021 annual groundwater and surface water monitoring activities were conducted at the Site during the period of October 21-28, 2021. Groundwater level gauging was conducted at the monitoring wells to be sampled to evaluate groundwater flow patterns at the Site (Figure 2).

Surface water sampling was conducted at nine surface water stations which included; four stations along Randleman Lake (SW-6, SW-7, SW-DRP-2, and SW-DRP-11), three stations on the Southern Intermittent Stream (SW-3, SW-4, and SW-5), and two monitoring stations on the Northern Intermittent Stream (SW-1 and SW-2). Please note that surface water monitoring stations SW-1 and SW-2 were dry during this sampling event.

2.1 Groundwater Monitoring Network

The existing groundwater monitoring network consists of 25 monitoring wells which have been selected to evaluate the lateral and vertical extent of the contaminant plume as well as the effectiveness of the groundwater extraction system. The 25 monitoring wells sampled for subsequent laboratory analysis include:

MW-1 (background)	MW-3C
MW-6	MW-10
MW-12A	MW-12B
MW-12D	MW-15A
OW-DR2	OW-LFS2
PW-3D	PW-4I
PW-5D	PW-6I
PW-6D	PW-10I
PW-10D	PW-12I
PW-13I	PW-14D
PW-15D	PW-16D
PW-18	PW-SF1
W-4A	

Monitoring well construction information and groundwater elevations for the monitoring wells at the Site are provided on Table 1.

2.2 Surface Water Monitoring Network

The current surface water monitoring network consists of nine monitoring stations as shown on Figure 2. The surface water monitoring stations are located along the Northern Intermittent Stream, Southern Intermittent Stream, and on Randleman Lake. The nine surface water stations sampled for the water quality monitoring program include:

SW-1	SW-2
SW-3	SW-4
SW-5	SW-6 *
SW-7 *	SW-DRP-2 *
SW-DRP-11 *	

* The surface water samples collected from the Randleman Lake are collected at two discrete depths, 1' below the surface and 1' above the bottom of the lake.

3.0 Water Quality Sample Collection

Samples of groundwater and surface water were collected in accordance with the approved *Annual Monitoring Plan – 2010* dated March 17, 2010. A brief description of the sample collection procedure is provided below. The 2021 annual groundwater and surface water monitoring activities were conducted at the Site during the period of October 21-28, 2021.

3.1 Field Sample Procedures

Prior to groundwater sampling, water levels were obtained from each well using an electric water level meter capable of measuring the depth to water to the nearest 0.01 feet. This information was later used to determine the elevation of the water table in each monitoring well relative to surveyed datum (Table 1). The groundwater elevations are used to develop a potentiometric map of the shallow water table (Figure 2).

The monitoring wells were sampled using low-flow purge and sample procedures. The groundwater samples were collected using either a peristaltic pump or Grunfos pump with disposable poly tubing. The depth of the intake tubing is positioned at the mid-point of the well screen and the pumping rate is adjusted to match recharge and minimize drawdown in the well. Multiple field parameters, including pH, specific conductivity, temperature, dissolved oxygen, and ORP, are constantly monitored using a flow cell. The turbidity of the influent groundwater is periodically evaluated using a field meter capable of measuring turbidity to ± 0.01 NTU. Low-flow purging of the well continues until the field parameters have stabilized and the NTU concentration is <10 NTUs, at which time the sample is collected. The samples are collected in the following order:

- VOCs and 1,4-dioxane
- Field parameters (pH, conductivity, temperature, dissolved oxygen)

The samples were collected directly in the laboratory-supplied containers which had been pre-filled with the appropriate preservative. No filtering of the samples was performed either in the field or laboratory. After collection, the samples were placed in a cooler on ice for overnight shipment to the analytical laboratory.

Surface water samples were collected directly into the laboratory-supplied containers as grab samples. Sampling personnel wore new disposable nitrile gloves for each surface water sample collected. The surface water samples collected from the four stations along the Randleman Lake were collected at two discrete intervals: a shallow sample collected one foot below the surface, and a deeper sample collected one foot above the bottom of the Lake. The Randleman Lake water samples were collected using a stainless steel discrete-interval Kemmerer water sampler. The actual depths of the shallow and deeper Randleman Lake surface water samples are provided in Table 4. As with the groundwater samples, these samples were stored in a cooler on ice prior to overnight delivery to the analytical laboratory.

3.2 Field Quality Assurance

Two trip blank samples were prepared by the analytical laboratory and accompanied the sample shipments until receipt by the laboratory. The trip blank samples were analyzed for VOCs. Temperature blanks were also provided with the sample shipments to assure the proper temperature was maintained until delivery to the analytical laboratory.

3.3 Sample Delivery/Chain of Custody

All groundwater and surface water samples were stored in coolers on ice immediately after collection. Individual sample containers for each monitoring well or surface water sample were placed in zip lock plastic bags to reduce the potential for cross contamination between sample locations. Chain-of-Custody control documents were prepared and shipped with each cooler. Custody seals were also used for each cooler to

maintain sample integrity until delivery to the analytical laboratory. The sample coolers were shipped via Federal Express for next morning delivery to the analytical laboratory.

4.0 Laboratory Analysis

The groundwater and surface water samples were analyzed for VOCs by EPA Method 8260D and 1,4-dioxane by EPA Method 8260D SIM. The laboratory performing the water quality analysis is Environmental Conservation Laboratories, Inc. (ENCO) of Cary, North Carolina, which is a NC Certified Laboratory. Internal quality control samples, including matrix spikes/matrix spike duplicates, were performed by ENCO for each set of samples. The ENCO laboratory reports, including internal quality control samples, are provided with this report in Appendix A.

Field parameters (pH, specific conductivity, temperature, dissolved oxygen) were also measured by the sampling personnel for each groundwater and surface water sample using calibrated meters.

5.0 Hydrogeological Conditions

The depth to groundwater was measured in the 25 compliance monitoring wells during the October 2021 monitoring event. The groundwater elevations were calculated relative to the surveyed measuring point (top of casing) for each monitoring well. A groundwater potentiometric map is provided as Figure 2. This potentiometric map primarily represents groundwater flow in the uppermost aquifer. The groundwater depths and elevation data for the Site are summarized in Table 1.

In the bedrock aquifer, the general groundwater flow direction across the Site is northeastward toward Randleman Lake. The vertical hydraulic gradient in the shallow bedrock aquifer, as measured between monitoring wells MW-3C and OW-DR2 during the October 2021 monitoring event, was 0.010 feet/feet downward.

An Extraction Rate/Capture Zone Test was conducted by ERM NC, PC in August 2002. This test used well PW-DR1 as the primary extraction point to determine the potential capture zone using various pumping rates. The results of this test indicated pumping at a relatively low rate of 10 - 20 gallons per minute from PW-DR1 effectively contains the contaminant plume. A pumping rate of 9 – 14 gallons per minute from PW-DR1 during operation of the system has demonstrated a drawdown of approximately 24 feet which creates an effective capture zone.

The filling of Randleman Lake began in 2006 and the lake level reached normal pool elevation (682 feet msl) in 2008. Consistent with prior gauging events, and confirmed with the data collected during the October 2021 monitoring event, groundwater levels at monitoring wells located adjacent to the lake have risen 10 - 12 feet as compared to pre-lake water level conditions. Inland from the lake, groundwater levels at wells located on the western portion of the Site have risen approximately 4 feet due to the lake impoundment.

6.0 Laboratory Analytical Results

The complete analytical results for the samples collected during the period of October 21-28, 2021 were received from the laboratory on November 8 and November 22, 2021. A summary of the analytical results are provided for groundwater (Table 2), surface water (Table 3), and field parameters (Table 4).

6.1 Groundwater Analytical Results

The analytical results for selected groundwater contaminants collected during the October 2021 monitoring event are shown in a series of figures. Groundwater quality maps representing the bedrock aquifer are provided for 1,2-dichloroethane (Figure 3), vinyl chloride (Figure 4), chlorobenzene (Figure 5), 1,4-dioxane (Figure 6), and total VOCs (Figure 7). The historical groundwater analytical results for specific VOCs, including the 2020 data, are summarized in Table 2 and the ENCO laboratory reports are provided in Appendix A. Measurements of pH, temperature, and specific conductance as determined in the field during sample collection are provided in Table 4. Additional monitoring well information including the latitude/longitude of each well location is provided in Table 5.

The main mass of VOC impacted groundwater generally extends northeastward across the Site to the Randleman Lake basin. As shown on Figure 7, the highest levels of VOCs are present in the vicinity of the northeast corner of the Seaboard Facility near the location of three former surface impoundments. Prior to their closure and capping between 1984 and 1986, the area of the former impoundments served as a primary source area of VOC releases to the groundwater at the Seaboard Facility. Additionally, elevated VOC concentrations in groundwater are also present in the area of the soil residue mound, a contaminant source area located at the Landfill which has also been closed and capped with a synthetic liner.

During this monitoring event, VOCs were detected in a limited area across Randleman Lake to the northeast of the Site. Minor concentrations of VOCs at levels above the North Carolina 2L Groundwater Quality Standards were detected at off-site bedrock monitoring wells PW-15D and PW-16D. These bedrock monitoring wells are located on the north side of the Randleman Lake basin from the Site. The extent of the VOC contaminant plume on the north side of Randleman Lake appears to be limited primarily to property encompassed by the Lake's buffer zone, which is maintained and regulated by the Piedmont Triad Regional Water Authority (PTRWA).

Please note that a sample was not collected from monitoring well PW-18 during this monitoring event. Monitoring well PW-18 is located on the Crutchfield property on the north side of Randleman Lake from the Site. After numerous attempts to contact the property owner (written and verbal), permission to access the PW-18 location was not granted.

Overall, the October 2021 groundwater analytical results and the general distribution of VOCs in the Site's groundwater are consistent with the historical groundwater quality monitoring results. A historical reduction in contaminant concentrations in the monitoring wells on the north side of Randleman Lake from the Site is evident from the groundwater VOC data collected during this monitoring event.

6.2 Surface Water Analytical Results

Surface water sampling was conducted at the Southern Intermittent Stream, Northern Intermittent Stream, and at various locations and depths in Randleman Lake. The surface water results for VOCs and 1,4-dioxane are summarized in Table 3 and the ENCO laboratory report is provided in Appendix A.

Randleman Lake

The Randleman Lake surface water sampling stations include:

- SW-6 – Upstream and background sample location for the Site,
- SW-DRP-2 – Adjacent to the Site near Lift Station 1 and PW-DR1,
- SW-7 – Downstream of the Site at the I-85 bridge, and
- SW-DRP-11 – Downstream (~1 mile) at Richland Creek confluence.

The laboratory analytical data indicated no VOCs or 1,4-dioxane concentrations above the laboratory practical quantitation limits in any of Randleman Lake surface water samples. The locations of the surface water monitoring stations are shown on Figure 2 and a summary of the Randleman Lake surface water analytical results are provided in Table 3.

Based on field observations during the October 2021 monitoring activities, the Randleman Lake was at or near the normal pool elevation of 682 feet msl.

Southern Intermittent Stream

The Southern Intermittent Stream surface water sampling stations include:

- SW-5 – Upstream of Seaboard Facility and downstream of City MRF,
- SW-3 – Downstream of Seaboard Facility and upstream of Landfill, and
- SW- 4 – Downstream of both Seaboard Facility and Landfill.

The compound 1,4-dioxane was reported in all three of the Southern Intermittent Stream surface water monitoring stations. The upstream surface water monitoring station (SW-5) reported a 1,4-dioxane concentration of 2.2 ug/l. Both of the downstream surface water monitoring stations on the Southern Intermittent Stream, SW-3 and SW-4, reported detectable 1,4-dioxane concentrations of 4.6 ug/l and 1,500 ug/l, respectively.

No other Site VOCs were reported above the laboratory reporting limits in the samples collected from surface water monitoring station SW-5. Only one VOC (cis-1,2-dichloroethene – 2.6 ug/l) was reported in surface water sample SW-3 at a concentration well below the regulatory standard of 330 ug/l. In addition to the reported concentration of 1,4-dioxane in the sample collected from surface water monitoring station SW-4, numerous Site VOCs were also reported above the regulatory standards in this sample. A summary of the analytical data for the Southern Intermittent Stream samples is provided in Table 3.

Northern Intermittent Stream

The Northern Intermittent Stream surface water sampling stations include:

- SW-1 Surface Water Station – Upstream of the Landfill, and
- SW-2 Surface Water Station – Downstream of the Landfill.

The flow path of the Northern Intermittent Stream was re-routed in 2011 and no longer passes through a pipe beneath the Landfill. Due to a limited watershed area, these two surface water monitoring stations are typically dry except during periods of heavy rainfall. Both surface water monitoring stations for the Northern Intermittent Stream were dry during the October 2021 monitoring event.

A summary of the laboratory analytical results for October 2020 surface water monitoring event is provided on Table 3. A copy of the ENCO laboratory analytical report for the surface water samples is provided with Appendix A.

6.3 Quality Control Samples

Two trip blanks were submitted and analyzed for quality assurance purposes. No VOCs were detected at a concentration equaling or exceeding its laboratory quantitation limit in either of the trip blanks.

7.0 Conclusions

The major findings of the annual groundwater and surface water monitoring activities for October 2021 monitoring event at the Site include the following:

- The overall groundwater flow pattern at the Site continues to be toward Randleman Lake on both sides of the Lake basin (Figure 2). Operation of the extraction well PW-DR1 over the past year indicates a significant capture zone for monitoring wells along the northern section of the Landfill adjacent to Randleman Lake. The observed capture zone also extends to the bedrock wells on the north side of Randleman Lake. The capture zone can be maintained by pumping extraction well PW-DR1 at a rate of approximately 10 - 15 gallons per minute. An operational extraction rate of 9 – 14 gallons per minute from PW-DR1 during this monitoring period has demonstrated a drawdown of approximately 24 feet which creates an effective capture zone.
- Based on the October 2021 monitoring results and historical data, the main VOC plume extends from the Site through the Southern Intermittent Stream valley northeastward to Randleman Lake. The minor concentrations of VOCs detected on the north side of the Randleman Lake in monitoring wells PW-15D and PW-16D represents the northern extent of the VOC plume. Based on historical groundwater analytical results, the northern extent of Site VOCs in the groundwater north of Randleman Lake is likely restricted to the Piedmont Triad Regional Water Authority regulated buffer.
- During the October 2021 monitoring event, concentrations of 1,4-dioxane above the laboratory practical quantitation limit was reported at three of the nine surface water monitoring locations. The three surface water samples collected from the Southern Intermittent Stream exceeded the laboratory quantitation limit and the established regulatory standard.

- The October 2021 monitoring data indicated that groundwater levels at monitoring wells located adjacent to the Randleman Lake have risen approximately 10 to 12 feet compared to pre-lake water level conditions. Inland from the lake, the October 2021 groundwater levels at wells located on the western portion of the Site are approximately 4 feet higher compared to pre-lake water level conditions.
- Overall, the October 2021 groundwater monitoring results are generally consistent with historical monitoring data. The geometry and migration of VOC-affected groundwater at the Site have not been substantially altered by the filling of Randleman Lake to normal pool. Pumping of extraction well PW-DR1 at a rate of 9 - 14 gallons per minute has demonstrated a significant capture zone created by the drawdown on both sides of Randleman Lake. A historical reduction in contaminant concentrations in the monitoring wells on the north side of Randleman Lake from the Site is evident from the groundwater VOC data collected during this monitoring event.

FIGURES



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TITLE:

Site Location Map
Seaboard/Riverdale LF Site
Jamestown, North Carolina

FIGURE NO:

Figure 1

SCALE:

1" = 8000'

PROJECT NO:

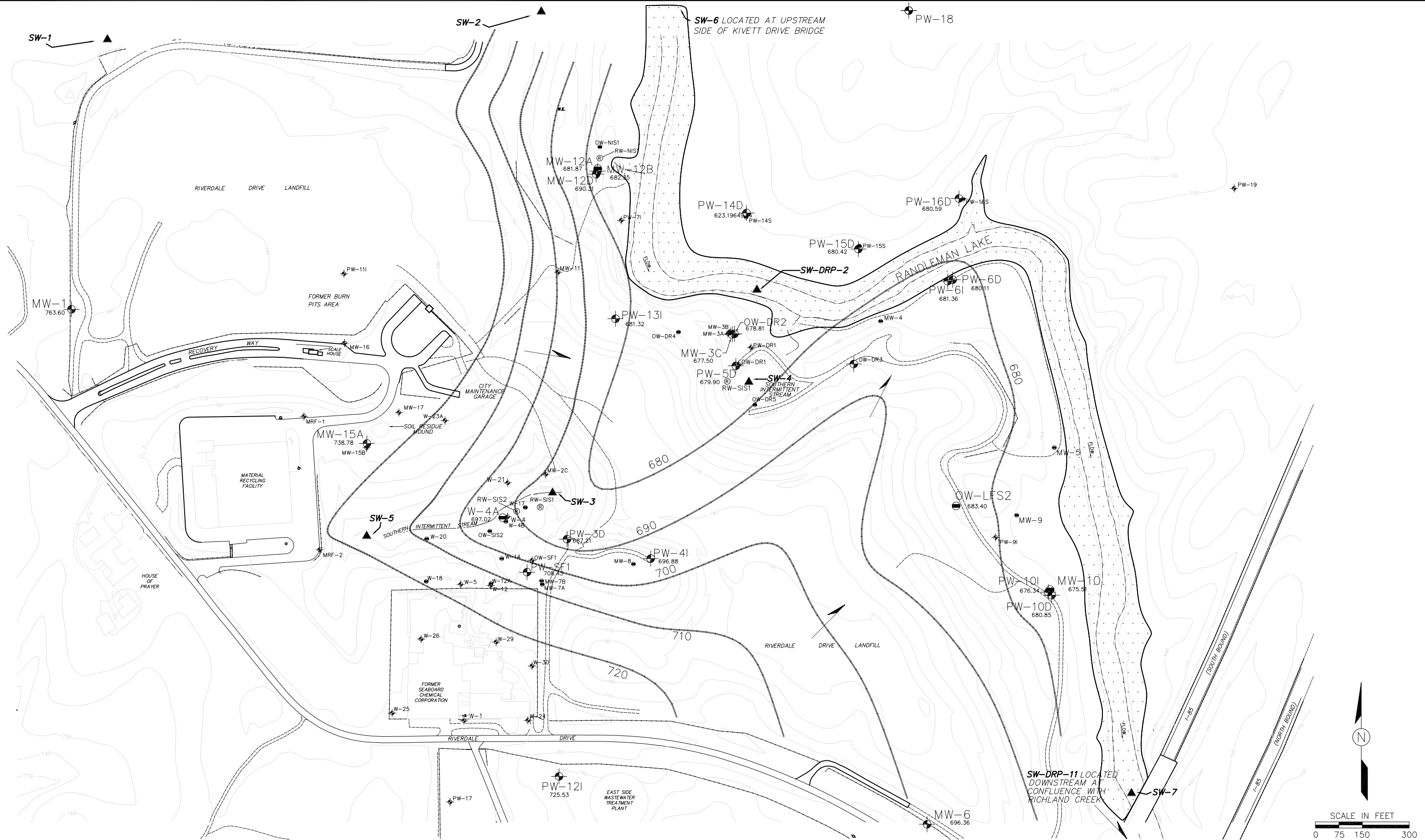
CHECKED BY:

DRAWN BY:

DATE:

G. Babb

2/10/11



BASE MAP FROM BBL REMEDIAL INVESTIGATION
REPORT, MARCH 1999.
WELLS TO BE SAMPLED SHOWN
IN ENLARGED TYPE

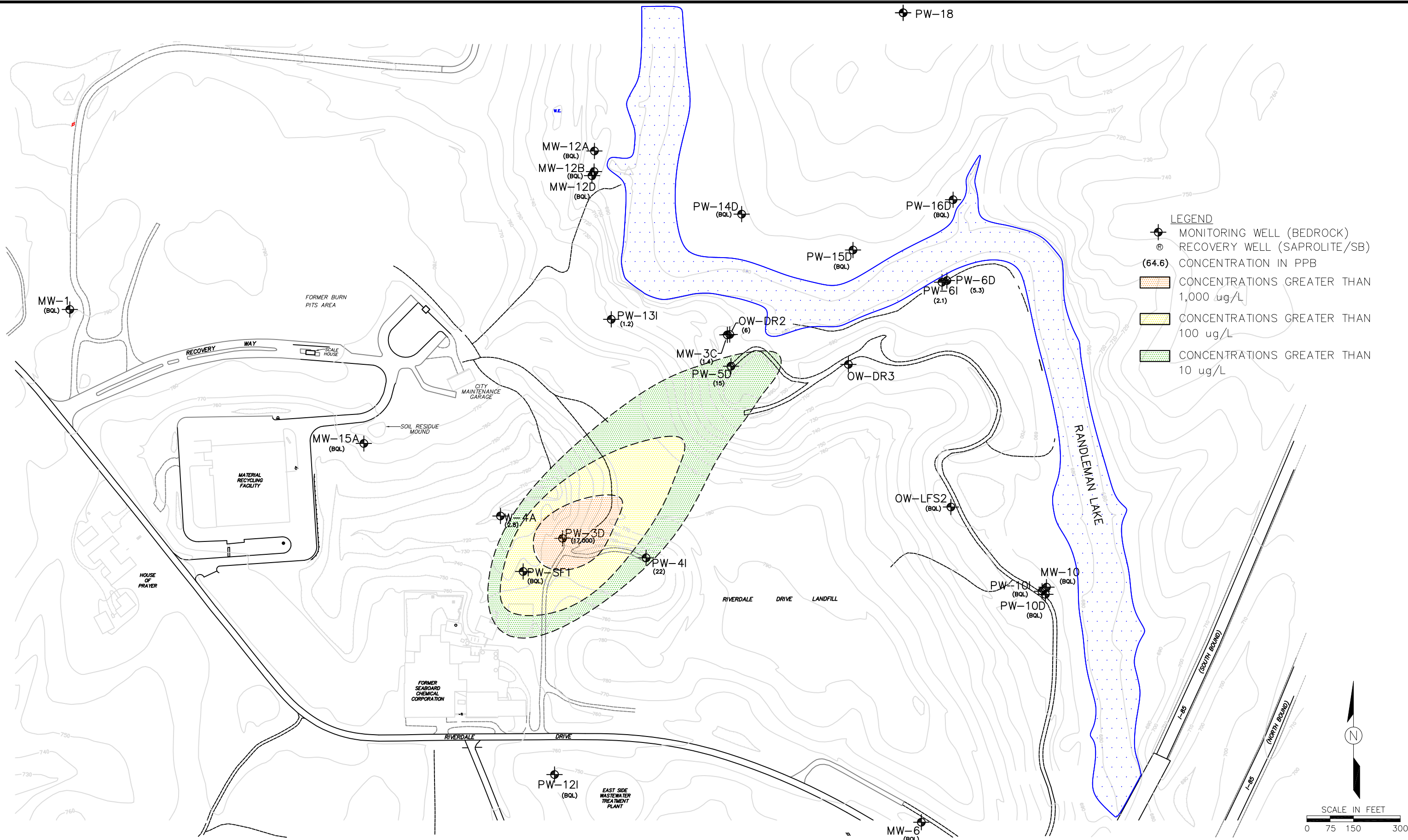
LEGEND
● MONITORING WELL (SAPROLITE/PWR)
⊕ RECOVERY WELL (SAPROLITE/SB)
▲ SURFACE WATER MONITORING STATION

B
Babb & Associates, P.A.

OCTOBER 2021 GROUNDWATER POTENTIOMETRIC MAP
GROUNDWATER AND SURFACE WATER SAMPLE LOCATIONS
FORMER SEABOARD CHEMICAL/RIVERDALE DRIVE LF
JAMESTOWN, NORTH CAROLINA

FIGURE
2

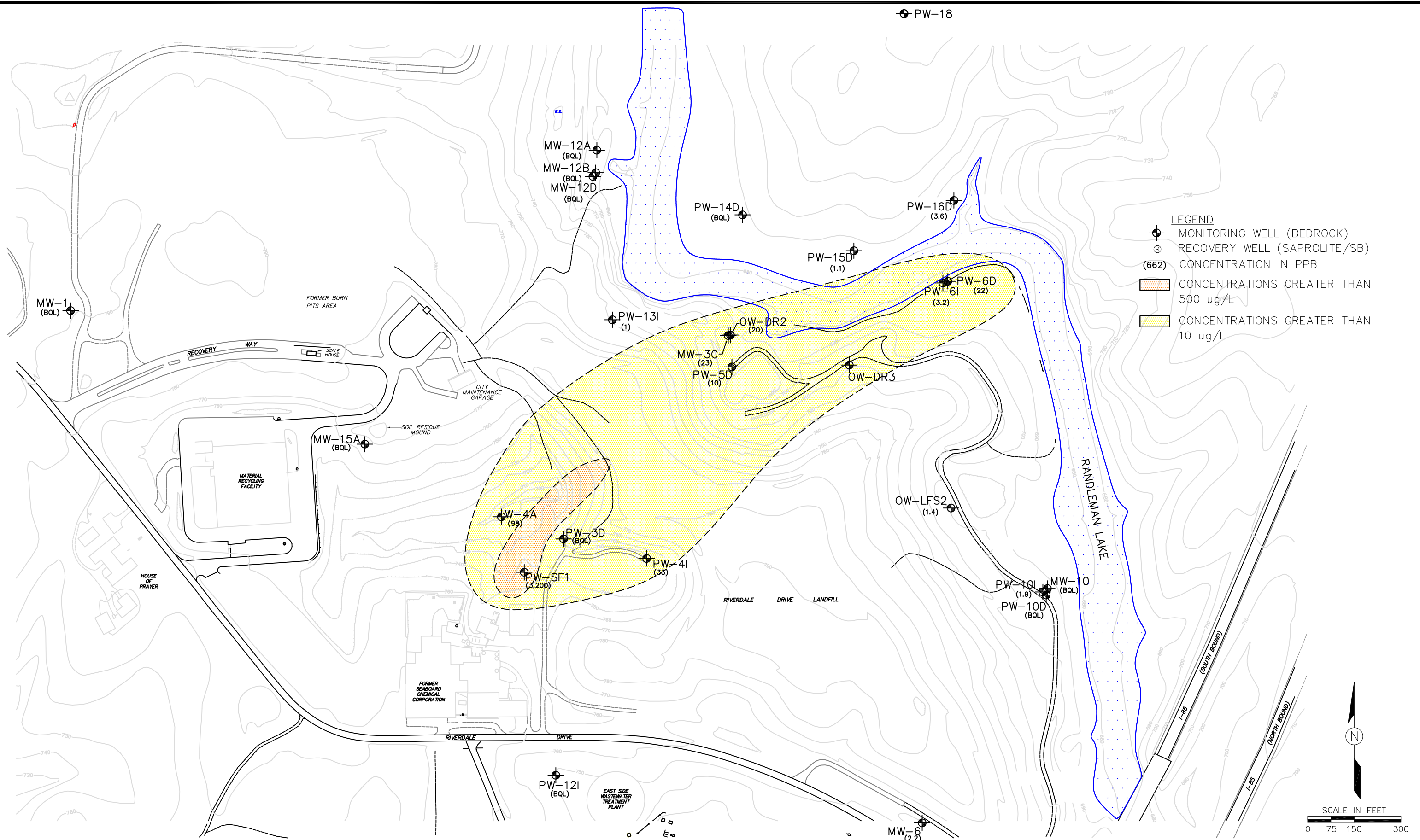
FIG 6A 2-09.DWG 5-1-09 1=300 JGB/AM



BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

NOTE: WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

FIG 6B 2-09.DWG 5-1-09 1=300 JGB/AM



BASE MAP FROM BBL REMEDIAL INVESTIGATION
REPORT, MARCH 1999.


Babb & Associates, P.A.

GROUND WATER QUALITY - BEDROCK AQUIFER
VINYL CHLORIDE-OCTOBER 2021
FORMER SEABOARD CHEMICAL/ RIVERDALE DRIVE LF
JAMESTOWN, NORTH CAROLINA

FIGURE
4

FIG 6C 2-09.DWG 5-1-09 1=300 JGB/AM

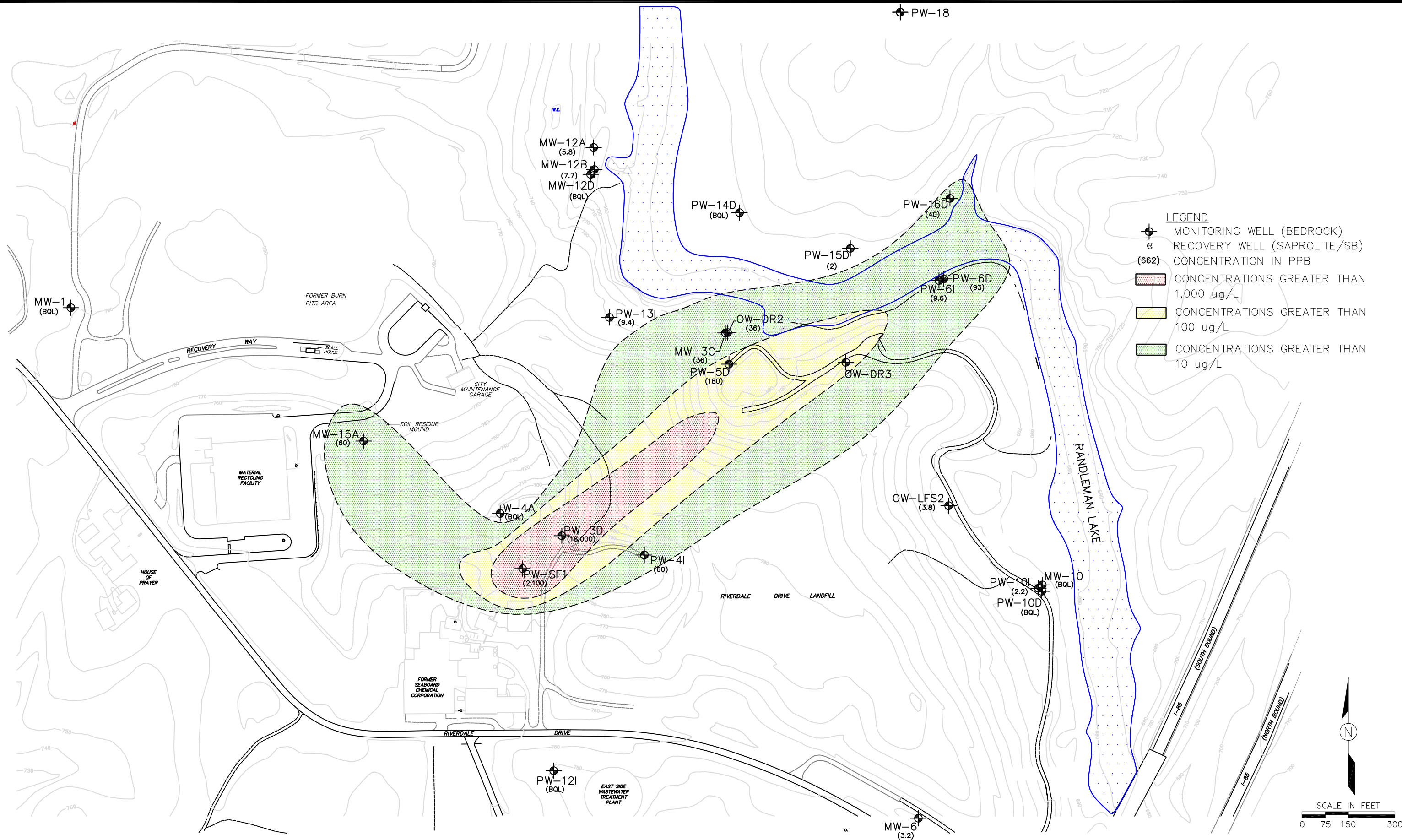
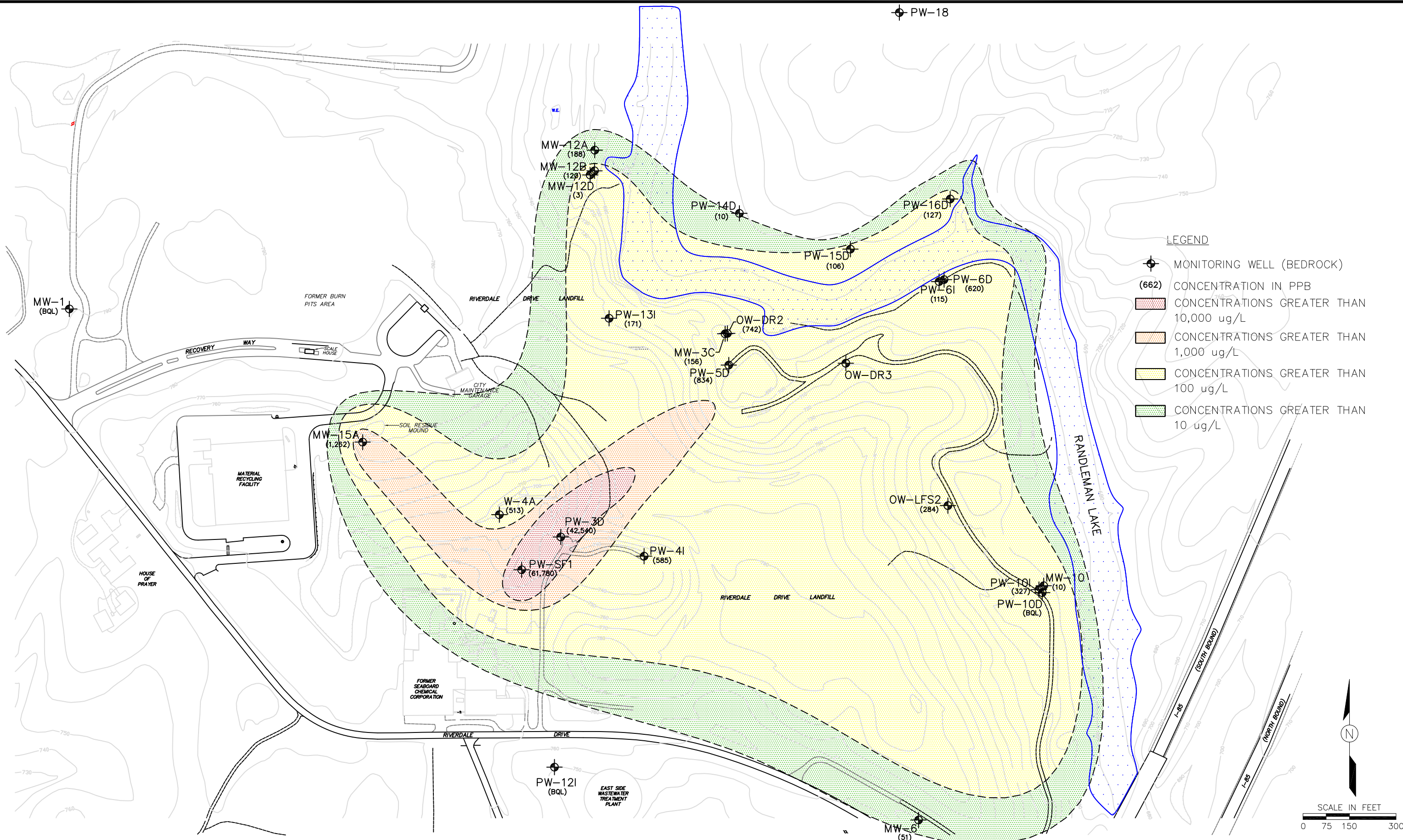


FIG 6E 2-09.DWG 5-1-09 1=300 JGB/AM



BASE MAP FROM BBL REMEDIAL INVESTIGATION
REPORT, MARCH 1999.



Babb & Associates, P.A.

GROUND WATER QUALITY-BEDROCK AQUIFER
TOTAL VOCs-OCTOBER 2021
FORMER SEABOARD CHEMICAL/RIVERDALE DRIVE LF
JAMESTOWN, NORTH CAROLINA

TABLES

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 1 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
MW-1	57.71	47.71-57.71	743.98-733.98	789.40	791.69	11/14/2000 9/4/2001 9/17/2002 9/11/2003 8/16/2004 12/19/2005 8/21/2006 9/24/2007 2/23/2009 3/29/2010 11/1/2011 11/16/2012 12/9/2013 12/8/2014 10/26/2015 11/14/2016 10/11/2017 11/1/2018 9/10/2019 10/13/2020 10/26/2021	27.28 27.99 29.55 23.86 25.70 25.55 25.97 26.33 25.35 24.89 27.69 27.23 28.36 28.54 27.99 27.50 28.43 29.70 24.78 27.67 26.86	764.41 763.70 762.14 767.83 765.99 766.14 765.72 765.36 766.14 765.72 764.00 764.46 763.33 763.15 763.47 762.96 762.03 760.76 765.68 761.18 763.60
New Survey				788.85	790.46			
MW-2A	19	4-19	709.9-694.9	711.80	713.90	11/14/2000 9/4/2001 9/17/2002 9/11/2003 8/16/2004 8/21/2006 9/24/2007 2/23/2009 3/29/2010 11/1/2011 11/16/2012	13.46 17.43 10.25 10.60 7.83 13.04 14.17 10.67 6.11 8.18 12.90	700.44 696.47 703.65 703.30 706.07 700.86 699.73 703.23 707.79 705.72 701.00
MW-2B	30	30	681.0	711.00	712.57	11/14/2000 9/4/2001 9/17/2002 9/11/2003 8/16/2004 8/21/2006 9/24/2007 2/23/2009 3/29/2010 11/1/2011 1/16/2012	12.78 13.01 10.61 10.62 7.75 12.25 14.64 10.35 6.05 9.16 12.21	699.79 699.56 701.96 701.95 704.82 700.32 697.93 702.22 706.52 703.41 700.36
MW-2C	48	28-48	685.56-665.56	711.40	713.56	11/14/2000 9/4/2001 9/17/2002 9/11/2003 8/16/2004 12/19/2005 8/21/2006 9/24/2007 2/23/2009 3/29/2010 11/1/2011 11/16/2012	16.12 14.02 18.41 12.78 14.80 NM 17.53 16.86 14.25 10.97 14.55 15.82	697.44 699.54 695.15 700.78 698.76 NM 696.03 696.70 699.31 702.59 699.01 697.74

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 2 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
MW-3A	27	12-27	682.4-667.4	692.74	694.40	11/14/2000	19.62	674.78
						9/4/2001	21.03	673.37
						9/17/2002	20.22	674.18
						9/11/2003	16.74	677.66
						8/16/2004	18.60	675.80
						12/19/2005	18.54	675.86
						8/21/2006	20.32	674.08
						9/24/2007	17.18	677.22
						2/23/2009	11.00	683.40
						3/29/2010	10.92	683.48
						11/1/2011	12.34	682.06
						11/16/2012	11.87	682.53
MW-3B	38.83	28.83-38.83	664.76-654.76	692.32	693.59	11/14/2000	19.46	674.13
						9/4/2001	21.00	672.59
						9/17/2002	20.00	673.59
						9/11/2003	16.32	677.27
						8/16/2004	NM	NM
						12/19/2005	18.81	674.78
						8/21/2006	20.33	673.26
						9/24/2007	16.59	677.00
						2/23/2009	8.48	685.11
						3/29/2010	8.04	685.55
						11/1/2011	11.27	682.32
						11/16/2012	11.00	682.59
MW-3C New Survey	57	47-57	647.22-637.22	691.90	694.22	11/14/2000	19.51	674.71
						9/4/2001	21.12	673.10
						8/19/2002	20.57	673.65
						9/16/2002	20.00	674.22
						9/11/2003	16.47	677.75
						8/16/2004	18.46	675.13
						12/19/2005	18.96	674.63
						8/21/2006	20.56	673.03
						9/24/2007	16.50	677.72
						2/23/2009	10.15	683.44
						3/29/2010	7.86	685.73
						11/1/2011	10.33	683.89
						11/16/2012	10.88	683.34
						12/11/2013	10.54	683.68
				692.50	692.74	12/11/2014	20.74	673.48
						10/27/2015	17.68	675.06
						11/14/2016	9.90	682.84
						10/9/2017	20.46	672.28
						11/2/2018	18.31	674.43
						9/11/2019	18.00	674.74
						10/13/2020	17.54	674.96
						10/26/2021	15.24	677.50

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 3 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
MW-4 New TOC elevation	30	20-30	664.72-654.72	683.20 683.87	684.72 687.29	11/14/2000	12.22	672.50
						9/4/2001	14.18	670.54
						9/16/2002	12.71	672.01
						9/11/2003	10.62	674.10
						8/16/2004	11.91	672.81
						12/19/2005	17.55	667.17
						8/21/2006	NM	NM
						9/24/2007	13.22	671.50
						2/23/2009	8.02	679.27
						3/29/2010	6.25	681.04
						11/1/2011	6.48	680.81
						11/16/2012	7.01	680.28
MW-5 New TOC elevation; survey data pending	30	20-30	664.4-654.4	682.00	684.40	11/14/2000	12.89	671.51
						9/4/2001	14.69	669.71
						9/16/2002	13.81	670.59
						9/11/2003	9.23	675.17
						8/16/2004	12.05	672.35
						12/19/2005	16.59	667.81
						8/21/2006	NM	NM
						9/24/2007	13.98	670.42
						2/23/2009	5.82	NA
						3/29/2010	4.63	NA
						11/1/2011	6.18	NA
						11/16/2012	6.61	NA
MW-6 New Survey	110	100-110	661.73-651.73	759.60 759.74	761.73 761.47	11/14/2000	65.92	695.81
						9/4/2001	66.49	695.24
						9/17/2002	67.21	694.52
						9/11/2003	59.32	702.41
						8/16/2004	63.47	698.26
						12/19/2005	65.83	695.90
						8/21/2006	66.46	695.27
						9/24/2007	67.11	694.62
						2/23/2009	62.58	699.15
						3/29/2010	60.55	701.18
						11/1/2011	64.36	697.37
						11/16/2012	64.60	697.13
						12/11/2013	64.88	696.85
						12/12/2014	65.80	695.93
						10/30/2015	64.89	696.58
						11/17/2016	64.38	697.09
						10/10/2017	65.03	696.44
						11/2/2018	61.20	700.27
						9/12/2019	62.28	699.19
						10/14/2020	63.00	696.74
						10/28/2021	65.11	696.36

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 4 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
MW-7A	35	15-35	726.64-706.64	739.42	741.64	11/14/2000	31.10	710.54
						9/4/2001	32.34	709.30
						9/17/2002	35.73	705.91
						9/11/2003	22.61	719.03
						8/16/2004	29.02	712.62
						12/19/2005	31.13	710.51
						8/21/2006	31.19	710.45
						9/24/2007	30.55	711.09
						2/23/2009	28.23	713.41
						3/29/2010	23.65	717.99
						11/1/2011	30.61	711.03
						11/16/2012	30.60	711.04
MW-7B	68	58-68	682.16-672.16	738.50	740.16	11/14/2000	33.90	706.26
						9/4/2001	33.15	707.01
						9/17/2002	38.12	702.04
						9/11/2003	24.53	715.63
						8/16/2004	31.80	708.36
						12/19/2005	33.74	706.42
						8/21/2006	33.36	706.80
						9/24/2007	33.31	706.85
						2/23/2009	30.18	709.98
						3/29/2010	25.67	714.49
						11/1/2011	27.93	712.23
						11/16/2012	30.00	710.16
MW-8	33	13-33	721.16-701.16	731.80	734.16	11/14/2000	>30.70	-
						9/4/2001	>30.70	-
						9/17/2002	>30.70	-
						9/11/2003	20.49	719.67
						8/16/2004	28.35	711.81
						12/19/2005	20.22	719.94
						8/21/2006	30.81	709.35
						9/24/2007	32.89	701.27
						2/23/2009	26.39	713.77
						3/29/2010	20.51	719.65
						11/1/2011	28.85	705.31
						11/16/2012	30.96	703.20
MW-9	32	12-32	676.95-656.95	685.95	688.95	11/14/2000	12.36	
						9/4/2001	13.53	675.42
						9/16/2002	13.48	675.47
						9/11/2003	8.15	680.80
						8/16/2004	10.78	678.17
						12/19/2005	11.43	677.52
						8/21/2006	21.35	667.60
						9/24/2007	NM	NM
						2/23/2009	5.37	683.58
						3/29/2010	4.22	684.73
						11/1/2011	5.97	682.98
						11/16/2012	6.26	682.69

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 5 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
MW-10	28	8-28	687.62-667.62	693.60	695.62	11/14/2000	16.91	678.71
New Survey						9/4/2001	18.61	677.01
						9/16/2002	17.64	677.98
						9/11/2003	13.78	681.84
						8/16/2004	15.06	680.56
						12/19/2005	14.47	681.15
						8/21/2006	16.80	678.82
						9/24/2007	17.29	678.33
						2/23/2009	11.92	683.70
						3/29/2010	10.57	685.05
						11/1/2011	12.96	682.66
						11/16/2012	13.18	682.44
						12/10/2013	12.97	682.65
						12/10/2014	13.97	681.65
						10/26/2015	12.59	682.42
						11/14/2016	12.86	682.15
						10/9/2017	12.95	682.06
						10/31/2018	11.53	683.48
						9/10/2019	13.40	681.61
						10/12/2020	14.96	678.28
						10/26/2021	19.50	675.51
MW-11	68	53-68	695.42-680.42	746.26	748.42	11/14/2000	38.24	710.18
						9/4/2001	38.50	709.92
						8/19/2002	41.06	707.36
						9/16/2002	40.65	707.77
						9/11/2003	28.97	719.45
						8/16/2004	36.81	711.61
						12/19/2005	38.51	709.91
						8/21/2006	32.91	715.51
						9/24/2007	37.29	711.13
						2/23/2009	28.91	719.51
						3/29/2010	26.02	722.40
						11/1/2011	31.13	717.29
						11/16/2012	34.87	713.55
MW-12A	20	5-20	688.96-673.96	691.12	693.96	11/14/2000	15.66	678.30
New Survey						9/4/2001	15.87	678.09
						9/16/2002	15.62	678.34
						9/11/2003	11.08	682.88
						8/16/2004	14.15	679.81
						12/19/2005	11.31	682.65
						8/21/2006	14.67	679.29
						9/24/2007	13.92	680.04
						2/23/2009	11.11	682.85
						3/29/2010	9.99	683.97
						11/1/2011	9.26	684.70
						11/16/2012	11.13	682.83
						12/10/2013	9.07	684.89
						12/11/2014	11.58	682.38
						10/27/2015	11.15	681.92
						11/14/2016	11.01	682.06
						10/9/2017	10.98	682.09
						11/1/2018	10.19	682.88
						9/10/2019	10.41	682.66
						10/13/2020	10.34	679.87
						10/26/2021	11.20	681.87

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 6 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
MW-12B	58	48-58	647-637	691.70	695.00	11/14/2000	16.49	678.51
New Survey						9/4/2001	16.92	678.08
						9/16/2002	16.65	678.35
						9/11/2003	12.72	682.28
						8/16/2004	15.03	679.97
						12/19/2005	14.12	680.88
						8/21/2006	NM	NM
						9/24/2007	NM	NM
						2/23/2009	10.95	684.05
						3/29/2010	NM	NM
						11/1/2011	10.25	684.75
						11/16/2012	10.81	684.19
						12/10/2013	11.55	683.45
						12/11/2014	11.65	683.35
						10/27/2015	10.67	683.19
						11/14/2016	10.23	683.63
						10/10/2017	11.21	682.65
						11/1/2018	10.22	683.64
						9/11/2019	10.76	683.10
						10/13/2020	10.35	680.40
						10/26/2021	11.51	682.35
MW-12D	202	187-202	507.93-492.93	691.81	694.93	11/14/2000	>101.50	<593
New Survey						9/4/2001	48.12	646.81
						9/16/2002	47.59	647.34
						9/11/2003	46.06	648.87
						8/16/2004	NM	NM
						12/19/2005	20.80	674.13
						8/21/2006	NM	NM
						9/24/2007	14.24	680.69
						2/23/2009	9.43	685.50
						3/29/2010	12.62	682.31
						11/1/2011	13.88	681.05
						11/16/2012	43.06	651.87
						12/10/2013	25.34	669.59
						12/11/2014	43.02	651.91
						10/29/2015	21.96	672.25
						11/18/2016	24.12	670.09
						10/11/2017	53.41	640.80
						11/1/2018	26.84	667.37
						9/12/2019	3.25	690.96
						10/13/2020	2.97	688.22
						10/26/2021	3.90	690.31
MW-14	35	20-35	746.22-731.22	763.80	766.22	11/14/2000	28.42	737.80
						9/4/2001	29.33	736.89
						9/17/2002	NM	NM
						9/11/2003	25.38	740.84
						8/16/2004	26.16	740.06
						8/21/2006	27.98	738.24
						2/23/2009	27.27	738.95
						3/29/2010	25.71	740.51
						11/1/2011	27.86	738.36
						11/16/2012	27.61	738.61

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 7 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
MW-15A	34	19-34	731.34-746.34	762.5	765.34	9/4/2001	26.70	738.64
New Survey				762.57	764.33	9/17/2002	21.40	743.94
						9/11/2003	NM	NM
						8/16/2004	22.72	742.62
						12/19/2005	24.31	741.03
						8/21/2006	NM	NM
						2/23/2009	15.21	750.13
						3/29/2010	22.06	743.28
						11/1/2011	25.19	740.15
						11/16/2012	24.75	740.59
						12/10/2013	24.69	740.65
						12/8/2014	25.64	739.70
						10/27/2015	24.46	739.87
						11/14/2016	27.01	737.32
						10/11/2017	27.90	736.43
						10/31/2018	22.72	741.61
						9/10/2019	22.58	741.75
						10/9/2020	22.43	740.14
						10/28/2021	25.55	738.78
MW-16	45	30-45	749.13-734.13	779.00	779.13	11/14/2000	34.18	744.95
						9/4/2001	NM	NM
						9/17/2002	NM	NM
						9/11/2003	NM	NM
						8/16/2004	NM	NM
						12/19/2005	NM	NM
						8/21/2006	NM	NM
						2/23/2009	NM	NM
						11/16/2012	NM	NM
						12/19/2005	68.09	--
						8/21/2006	NM	NM
MW-17 (WSW-1)	250	230-250	--	--	--	2/23/2009	66.04	--
						3/29/2010	64.30	--
						11/1/2011	66.88	--
						11/16/2012	67.34	NM
						11/14/2000	8.45	743.36
						9/4/2001	8.48	743.33
						9/17/2002	8.56	743.25
						9/11/2003	7.40	744.41
						8/16/2004	7.59	744.22
						12/19/2005	7.63	744.18
						8/21/2006	8.25	743.56
MRF-1	43.5	28.5-43.5	723.31-708.31	752.10	751.81	9/24/2007	8.87	742.94
						2/23/2009	7.56	744.25
						3/29/2010	7.55	744.26
						11/1/2011	8.01	743.80
						11/16/2012	7.98	743.83

Page 8 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)		GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)						
MRF-2	41.5	26.5-41.5	724.23-709.23	751.00	750.73		11/14/2000 9/4/2001 9/17/2002 9/11/2003 8/16/2004 12/19/2005 8/21/2006 9/24/2007 2/23/2009 3/29/2010 11/1/2011 11/16/2012	26.06 26.18 26.10 24.28 24.10 24.35 25.69 25.69 25.22 24.73 25.18 25.30	724.67 724.55 724.63 726.45 726.63 726.38 725.04 725.04 725.51 726.00 725.55 725.43
OW-DR1	165	49-165	648.95-532.95	695.39	697.95		11/14/2000 9/4/2001 9/16/2002 9/11/2003 8/16/2004 12/19/2005 8/21/2006 9/24/2007 2/23/2009 3/29/2010 11/1/2011 11/16/2012	23.21 24.72 23.80 20.21 22.23 22.91 24.40 20.16 13.77 11.42 13.95 14.64	674.74 673.23 674.15 677.74 675.72 675.04 673.55 677.79 684.18 686.53 684.00 683.31
OW-DR2	186	176-186	518.4-508.4	692.61	694.40		11/14/2000 9/4/2001 8/19/2002 9/16/2002 9/11/2003 8/16/2004 12/19/2005 8/21/2006 9/24/2007 2/23/2009 3/29/2010 11/1/2011 11/16/2012 12/10/2013 12/12/2014 10/30/2015 11/18/2016 10/10/2017 11/2/2018 9/11/2019 10/13/2020 10/28/2021	19.72 21.33 20.75 20.25 16.60 18.62 19.34 20.79 16.52 10.13 7.97 10.32 10.90 10.55 27.31 13.53 14.28 16.31 19.59 20.24 19.76 17.06	674.68 673.07 673.65 674.15 677.80 675.78 675.06 673.61 677.88 684.27 686.43 684.08 683.50 683.85 667.09 682.34 681.59 679.56 676.28 675.63 672.46 678.81
New Survey				692.22	695.87				

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 9 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
OW-DR3	160	77-160	626.52-543.52	703.52	704.75	8/19/2002	30.79	663.61
						9/16/2002	30.40	664.00
						9/11/2003	27.80	666.60
						8/16/2004	29.02	665.38
						12/19/2005	30.29	664.11
						8/21/2006	31.17	663.23
						9/24/2007	26.32	678.43
						2/23/2009	20.17	684.58
						3/29/2010	18.61	686.14
						11/1/2011	20.45	684.30
						11/16/2012	20.75	684.00
						12/10/2013	20.99	683.76
OW-DR4	165	45 - 165	667.70-547.70	712.70	713.85	8/19/2002	40.15	673.70
						9/16/2002	39.72	674.13
						9/11/2003	36.25	677.60
						8/16/2004	38.23	675.62
						12/19/2005	38.91	674.94
						8/21/2006	40.34	673.51
						9/24/2007	35.99	677.86
						2/23/2009	29.64	684.21
						3/29/2010	22.30	691.55
						11/1/2011	29.83	684.02
						11/16/2012	30.30	683.55
OW-DR5	40	20-40	--	--	--	12/19/2005	10.50	--
						2/23/2009	NM	--
						3/29/2010	NM	--
						11/1/2011	NM	--
						11/16/2012	NM	NM
OW-NIS1	40	25-40	--	--	--	12/19/2005	10.91	--
						2/23/2009	8.40	--
						3/29/2010	7.59	--
						11/1/2011	6.40	--
						11/16/2012	7.54	--
OW-SIS1	39	20-39	--	--	--	12/19/2005	24.05	--
						8/21/2006	24.08	--
						9/24/2007	23.89	--
						2/23/2009	20.89	--
						3/29/2010	17.69	--
						11/1/2011	22.98	--
						11/16/2012	22.99	--
OW-SIS2	40	20-40	--	--	--	12/19/2005	5.32	--
						2/23/2009	4.32	--
						3/29/2010	3.29	--
						11/1/2011	3.74	--
						11/16/2012	7.63	--
OW-SIS3	45	15-45	--	--	--	12/19/2005	5.80	--
						2/23/2009	5.67	--
						3/29/2010	3.61	--
						11/1/2011	5.22	--
						11/16/2012	7.00	--

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 10 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
OW-SF1	120	95-120	638.15-613.15	731.06	731.06	12/19/2005	26.15	704.91
						8/21/2006	26.00	705.06
						9/24/2007	25.84	705.22
						2/23/2009	23.03	708.03
						3/29/2010	18.64	712.42
						11/1/2011	25.39	705.67
						11/16/2012	25.22	705.84
OW-SF2	120	80-120	651.05-611.05	728.87	731.05	8/21/2006	NM	NM
						9/24/2007	20.44	710.61
						2/23/2009	18.47	--
						3/29/2010	14.27	716.78
						11/1/2011	20.46	710.59
						11/16/2012	20.68	710.37
OW-LFS1	50	30-50	--	--	698.74	12/19/2005	17.15	681.59
						2/23/2009	14.45	684.29
						3/29/2010	13.28	685.46
						11/1/2011	14.90	683.84
						11/16/2012	15.88	682.86
OW-LFS2 New Survey	50	30-50	--	--	700.08	12/19/2005	21.97	678.11
						2/23/2009	15.81	684.27
						3/29/2010	14.66	685.42
						11/1/2011	16.34	683.74
						11/16/2012	16.61	683.47
						12/11/2013	16.82	683.26
					696.69	12/12/2014	17.44	682.64
						10/26/2015	16.48	682.97
						11/14/2016	20.12	679.33
						10/9/2017	25.57	673.88
						10/31/2018	38.96	660.49
						9/12/2019	17.20	682.25
						10/12/2020	32.22	664.47
						10/28/2021	16.05	683.40
PW-DR1	185	38-185	657.21-510.21	693.62	695.21	11/14/2000	20.51	674.70
						9/4/2001	21.90	673.31
						8/19/2002	21.48	673.73
						9/16/2002	21.02	674.19
						9/11/2003	17.51	677.70
						8/16/2004	19.55	675.66
						12/19/2005	NM	--
						8/21/2006	NM	--
						9/24/2007	NM	--
						2/23/2009	NM	--
						3/29/2010	NM	--
						11/1/2011	NM	--
						11/16/2012	NM	--

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 11 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
PW-SF1	120	95-120	638.15-613.15	732.14	733.15	8/21/2006	25.98	707.17
New Survey						9/24/2007	25.60	707.55
						2/23/2009	22.96	710.19
						3/29/2010	18.62	714.53
						11/1/2011	25.31	707.84
						11/16/2012	25.50	707.64
						12/9/2013	21.00	712.15
						12/8/2014	26.65	706.50
						10/27/2015	26.78	705.41
						11/17/2016	24.45	707.74
						10/11/2017	28.21	703.98
						10/31/2018	22.17	710.02
						9/10/2019	20.50	711.69
						10/9/2020	21.66	709.47
						10/27/2021	23.76	708.43
PW-SIS1	39	19-39	--	--	695.21	8/16/2004	NM	--
						12/19/2005	12.20	683.01
						8/21/2006	13.95	681.26
						9/24/2007	15.43	679.78
						2/23/2009	12.73	682.48
						3/29/2010	11.31	683.90
						11/1/2011	13.01	682.20
						11/16/2012	13.63	681.58
PW-1D	81.5	66.5-81.5	717.18-702.18	781.90	783.68	11/14/2000	54.92	728.76
						9/4/2001	54.60	729.08
						9/17/2002	54.65	729.03
						9/11/2003	47.49	736.19
						8/16/2004	NM	--
						12/19/2005	51.82	731.86
						8/21/2006	NM	--
						2/23/2009	49.60	734.08
						3/29/2010	47.86	735.82
						11/1/2011	50.18	733.50
						11/16/2012	50.30	733.38
PW-2D	101	80-100	700.55-680.55	778.80	780.55	11/14/2000	45.43	735.12
						9/4/2001	45.16	735.39
						9/17/2002	NM	--
						9/11/2003	NM	--
						8/16/2004	43.45	737.10
						12/19/2005	43.94	736.61
						8/21/2006	42.75	737.80
						9/24/2007	44.20	736.35
						2/23/2009	41.43	739.12
						3/29/2010	39.30	741.25
						11/1/2011	42.62	737.93
						11/16/2012	42.20	738.35

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 12 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
PW-3D	209.5	179.5-209.5	578.84-548.84	756.60	758.34	11/14/2000	56.60	701.74
						9/4/2001	NM	--
						9/16/2002	58.62	699.72
						9/11/2003	NM	--
						8/16/2004	55.55	702.79
						12/19/2005	NM	--
						8/21/2006	56.75	701.59
						2/23/2009	50.02	708.32
						3/29/2010	48.12	710.22
						11/1/2011	50.52	707.82
						11/16/2012	47.90	710.44
						12/17/2013	48.81	709.53
						12/11/2014	49.51	708.83
New Survey				737.63	738.60	10/29/2015	48.91	689.69
						11/16/2016	52.42	686.18
						10/11/2017	43.99	694.61
						11/2/2018	50.71	687.89
						9/11/2019	52.02	686.58
						10/14/2020	51.76	685.87
						10/27/2021	51.39	687.21
PW-4I	122	112-122	625.67-615.67	735.17	737.67	11/14/2000	43.39	694.28
						9/4/2001	44.73	692.94
						9/17/2002	45.94	691.73
						9/11/2003	36.04	701.63
						8/16/2004	42.31	695.36
						12/19/2005	43.27	694.40
						8/21/2006	43.11	712.03
						2/23/2009	39.35	698.32
						3/29/2010	35.56	719.58
						11/1/2011	41.23	696.44
						11/16/2012	41.49	696.18
						12/17/2013	42.03	695.64
						12/8/2014	42.62	695.05
New Survey				732.04	737.59	10/29/2015	42.10	695.49
Corrected elevation after well repair. Removed 2.59' of casing.					735.00	11/17/2016	40.78	694.22
						10/11/2017	43.80	691.20
						11/2/2018	34.04	700.96
						9/11/2019	35.52	699.48
						10/14/2020	36.42	695.62
						10/27/2021	38.12	696.88

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 13 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
PW-5D	306.5	272-282	425.87-415.87	695.07	697.87	11/14/2000	23.52	674.35
						9/4/2001	24.04	673.83
						8/19/2002	24.54	673.33
						9/16/2002	23.86	674.01
						9/11/2003	20.37	677.50
						8/16/2004	22.45	675.42
						12/19/2005	23.21	674.66
						8/21/2006	24.68	673.19
						9/24/2007	20.31	677.56
						2/23/2009	13.85	684.02
						3/29/2010	10.85	687.02
						11/1/2011	13.98	683.89
						11/16/2012	12.92	684.95
						12/16/2013	10.54	687.33
						12/11/2014	21.86	676.01
New Survey				693.96	696.27	10/30/2015	13.80	682.47
						11/18/2016	13.73	682.54
						10/10/2017	17.41	678.86
						11/2/2018	17.31	678.96
						9/11/2019	17.42	678.85
						10/13/2020	17.72	678.55
						10/28/2021	16.37	679.90
PW-6I	76	65-76	619.19-608.19	682.27	684.19	11/14/2000	11.80	672.39
						9/4/2001	13.98	670.21
						8/19/2002	12.81	671.38
						9/16/2002	12.35	671.84
						9/11/2003	11.20	672.99
						8/16/2004	12.00	672.19
						12/19/2005	16.14	668.05
						8/21/2006	NM	--
						9/24/007	NM	--
New TOC elevation				693.57	696.15	2/23/2009	14.75	681.40
						3/29/2010	11.76	684.39
						11/1/2011	13.98	682.17
						11/16/2012	14.26	669.93
						12/16/2013	14.29	681.86
New well						12/10/2014	17.43	679.98
New Survey	100	90-100		695.12	697.41	10/27/2015	16.15	681.26
						11/17/2016	16.54	680.87
						10/10/2017	17.38	680.03
						11/1/2018	15.47	681.94
						9/12/2019	16.00	681.41
						10/13/2020	15.27	679.85
						10/28/2021	16.05	681.36

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 14 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
PW-6D	275	260-275	424.77-409.77	682.22	684.77	11/14/2000	11.01	673.76
						9/4/2001	12.58	672.19
						8/19/2002	12.07	672.70
						9/16/2002	11.57	673.20
						9/11/2003	7.87	676.90
						8/16/2004	9.95	674.82
						12/19/2005	13.24	671.53
						8/21/2006	NM	--
						9/24/2007	NM	--
New TOC elevation				691.53	696.33	3/12/2009	13.05	683.28
						3/29/2010	11.84	684.49
						11/1/2011	13.34	682.99
						11/16/2012	14.03	682.30
						12/16/2013	NA	NA
New well						12/10/2014	23.56	673.23
New Survey	300	270-300		695.02	696.79	10/30/2015	14.53	682.26
						11/17/2016	15.02	681.77
						10/10/2017	21.65	675.14
						11/1/2018	17.33	679.46
						9/12/2019	18.44	678.35
						10/12/2020	16.75	678.27
						10/28/2021	16.68	680.11
PW-7I	101	90-100	594.92-584.92	683.42	684.92	11/14/2000	12.90	672.02
						9/4/2001	14.58	670.34
						6/16/2002	12.81	672.11
						8/19/2002	13.28	671.64
						9/16/2002	12.81	672.11
						9/11/2003	11.69	673.23
						8/16/2004	12.92	672.00
						12/19/2005	11.41	673.51
						8/21/2006	14.38	670.54
						9/24/2007	9.11	675.81
New TOC elevation; survey data pending						2/23/2009	2.34	NA
						3/29/2010	1.89	NA
						11/1/2011	1.85	NA
						11/16/2012	2.99	NA
PW-8S	48	35-45	728.13-718.13	761.23	763.13	11/14/2000	42.30	720.83
						9/4/2001	45.10	718.03
						9/17/2002	47.33	715.80
						9/11/2003	38.95	724.18
						8/16/2004	40.70	722.43
						12/19/2005	42.80	720.33
						8/21/2006	43.39	719.74
						9/24/2007	44.57	718.56
						2/23/2009	41.66	721.47
						3/29/2010	27.22	735.91
						11/1/2011	40.58	722.55
						11/16/2012	40.96	722.17

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 15 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
PW-9I	100	80-100	619.07-599.07	698.07	699.07	11/14/2000 9/4/2001 9/16/2002 9/11/2003 8/16/2004 12/19/2005 8/21/2006 9/24/2007 2/23/2009 3/29/2010 11/1/2011 11/16/2012	21.80 22.95 22.74 18.04 20.50 20.79 11.75 21.14 14.18 13.50 14.61 15.18	677.27 676.12 676.33 681.03 678.57 678.28 687.32 677.93 684.89 685.57 684.46 683.89
PW-10I	100	80-100	616.44-596.44	695.34	696.44	11/14/2000 9/4/2001 9/16/2002 9/11/2003 8/16/2004 12/19/2005 8/21/2006 9/24/2007 2/23/2009 3/29/2010 11/1/2011 11/16/2012 12/11/2013 12/10/2014 10/29/2015 11/17/2016 10/9/2017 11/1/2018 9/12/2019 10/12/2020 10/26/2021	17.24 19.08 18.30 14.57 16.05 15.53 17.68 17.44 12.06 10.62 12.32 13.37 13.10 14.21 12.43 13.46 14.19 11.68 13.20 16.82 19.63	679.20 677.36 678.14 681.87 680.39 680.91 678.76 679.00 684.38 685.82 684.12 683.07 683.34 682.23 683.54 682.51 681.78 684.29 682.77 677.81 676.34
New Survey				694.63	695.97			
PW-10D	200	185-200	512.75-497.75	695.48	697.96	11/14/2000 9/4/2001 9/16/2002 9/11/2003 8/16/2004 12/19/2005 8/21/2006 9/24/2007 2/23/2009 3/29/2010 11/1/2011 11/16/2012 12/11/2013 12/10/2014 11/3/2015 11/17/2016 10/10/2017 10/31/2018 9/12/2019 10/12/2020 10/26/2021	>101.50 39.20 46.45 NM 48.04 29.01 32.60 18.42 14.51 26.38 17.01 43.21 42.25 34.50 35.32 25.33 49.55 26.28 45.70 22.75 16.41	- 658.76 651.51 NM 649.92 668.95 665.36 679.54 683.45 671.58 680.95 654.75 655.71 663.46 661.94 671.93 647.71 670.98 651.56 672.38 680.85
New Survey				695.13	697.26			

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 16 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
PW-11I	90	75-90	710.45-695.45	784.38	785.45	11/14/2000	57.55	727.90
						9/4/2001	58.00	727.45
						9/17/2002	58.77	726.68
						9/11/2003	53.81	731.64
						8/16/2004	56.23	729.22
						12/19/2005	56.65	728.80
						8/21/2006	56.73	728.72
						9/24/2007	57.25	728.20
						2/23/2009	55.90	729.55
						3/29/2010	52.60	732.85
						11/1/2011	55.01	730.44
						11/16/2012	54.90	730.55
PW-12I New Survey	105	90-105	660.54-645.54	748.07	750.54	11/14/2000	29.09	721.45
						9/4/2001	32.36	718.18
						2/16/2002	36.25	714.29
						9/16/2002	36.25	714.29
						9/11/2003	26.18	724.36
						8/16/2004	27.41	723.13
						12/19/2005	29.55	720.99
						8/23/2006	30.15	720.39
						9/24/2007	28.55	721.99
						2/23/2009	28.93	721.61
						3/29/2010	24.62	725.92
						11/1/2011	28.18	722.36
						11/16/2012	27.73	722.81
			746.99	749.48		12/16/2013	28.17	722.37
						12/12/2014	28.70	721.84
						10/30/2015	28.82	720.66
						11/21/2016	35.73	713.75
						10/11/2017	28.55	720.93
						11/6/2018	29.51	719.97
						9/11/2019	21.83	727.65
						10/14/2020	22.94	724.05
						10/28/2021	23.95	725.53
PW-13I New Survey	250	235-250	504.9-489.9	736.58	739.90	11/14/2000	67.65	672.25
						9/4/2001	69.68	670.22
						8/19/2002	68.50	671.40
						9/17/2002	68.12	671.78
						9/11/2003	66.59	673.31
						8/16/2004	67.52	672.38
						12/19/2005	68.51	671.39
						8/21/2006	69.64	670.26
						9/24/2007	64.70	675.20
						2/23/2009	57.31	682.59
						3/29/2010	54.65	685.25
						11/1/2011	57.33	682.57
						11/16/2012	58.05	681.85
			736.23	739.01		12/16/2013	57.20	682.70
						12/12/2014	59.52	680.38
						10/26/2015	37.69	701.32
						11/18/2016	58.24	680.77
						10/11/2017	58.97	680.04
						10/31/2018	57.15	681.86
						9/11/2019	51.68	687.33
						10/13/2020	56.93	679.30
						10/28/2021	57.69	681.32

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 17 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
PW-14D	198.8	183.8-198.8	505.33-490.33	686.38	689.13	10/31/2000	16.24	672.89
New Survey						12/20/2000	>150	-
						9/5/2001	76.98	612.15
						9/17/2002	64.16	624.97
						9/11/2003	6.51	682.62
						8/16/2004	56.01	633.12
						12/19/2005	67.27	621.86
						8/21/2006	37.29	651.84
						9/24/2007	62.45	626.68
						3/11/2009	37.90	651.23
						3/29/2010	29.41	659.72
						11/1/2011	17.63	671.50
						11/16/2012	32.37	656.76
						12/12/2013	56.60	632.53
						12/9/2014	63.29	625.84
						11/3/2015	72.59	613.91
						11/16/2016	46.02	640.48
						10/12/2017	9.42	677.08
						11/5/2018	39.62	646.88
						9/17/2019	87.88	598.62
						10/14/2020	62.08	623.19
						10/27/2021	37.36	649.14
PW-14S	21.5	11.5-21.5	677.09-667.09	685.96	688.59	10/30/2000	13.19	675.40
						12/20/2000	13.47	675.12
						9/5/2001	14.28	674.31
						9/17/2002	14.55	674.04
						9/11/2003	14.92	673.67
						8/16/2004	10.26	678.33
						12/19/2005	11.54	677.05
						8/21/2006	13.45	675.14
						3/11/2009	4.34	684.25
						3/29/2010	2.13	686.46
						11/1/2011	4.27	684.32
						11/16/2012	5.30	683.29
PW-15D	163.5	153.5-163.5	533.93-523.93	684.85	687.43	10/31/2000	13.25	674.18
New Survey						12/20/2000	13.32	674.11
						9/5/2001	14.79	672.64
						9/17/2002	13.81	673.62
						9/11/2003	10.13	677.30
						8/16/2004	12.24	675.19
						12/19/2005	13.03	674.40
						8/21/2006	15.80	671.63
						9/24/2007	9.93	677.50
						3/11/2009	3.20	684.23
						3/29/2010	2.02	685.41
						11/1/2011	3.25	684.18
						11/16/2012	4.39	683.04
						12/12/2013	4.50	682.93
						12/9/2014	8.14	679.29
						10/28/2015	4.11	681.69
						11/15/2016	4.54	681.26
						10/12/2017	10.15	675.65
						11/5/2018	4.95	680.85
						9/17/2019	6.60	679.20
						10/14/2020	5.95	678.10
						10/27/2021	5.38	680.42

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 18 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
PW-15S	21.5	11.5-21.5	676.71-666.71	685.88	688.21	10/30/2000	14.87	673.34
						12/20/2000	14.91	673.30
						9/5/2001	16.26	671.95
						9/17/2002	15.42	672.79
						9/11/2003	11.61	676.60
						8/16/2004	13.89	674.32
						12/19/2005	14.14	674.07
						8/21/2006	14.32	673.89
						9/24/2007	9.75	678.46
						3/11/2009	4.65	683.56
						3/29/2010	3.09	685.12
						11/1/2011	4.58	683.63
						11/16/2012	5.89	682.32
PW-16D New TOC elevation; survey data pending New Survey	179	169-179	515.98-505.98	681.46	684.98	10/31/2000	10.94	674.04
						12/20/2000	10.95	674.03
						9/5/2001	12.43	672.55
						9/17/2002	11.51	673.47
						9/11/2003	7.88	677.10
						8/16/2004	9.91	675.07
						12/19/2005	10.80	674.18
						8/21/2006	12.09	672.89
						9/24/2007	11.21	673.77
				684.07	686.68	3/11/2009	4.38	NA
						3/29/2010	3.23	NA
						11/1/2011	4.45	NA
						11/16/2012	5.65	NA
						12/12/2013	5.22	NA
						12/9/2014	7.10	NA
						10/28/2015	4.84	681.84
						11/15/2016	5.31	681.37
						10/12/2017	8.89	677.79
						11/5/2018	4.70	681.98
						9/17/2019	6.77	679.91
						10/14/2020	6.31	677.76
						10/27/2021	6.09	680.59
PW-16S New TOC elevation; survey data pending	12.5	5.5-12.5	677.67-670.67	680.97	683.17	10/30/2000	8.00	675.17
						12/20/2000	7.39	675.78
						9/5/2001	9.82	673.35
						9/17/2002	9.65	673.52
						9/11/2003	6.56	676.61
						8/16/2004	6.79	676.38
						12/19/2005	6.21	676.96
						8/21/2006	8.44	674.73
						9/24/2007	11.83	671.34
						3/11/2009	4.93	NA
						3/29/2010	4.10	NA
						11/1/2011	4.64	NA
						11/16/2012	5.96	NA

Page 19 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
PW-17	100	85 - 100	686.0 - 671.0	771.0	774.7	11/14/2000 12/20/2000 9/5/2001 9/16/2002 9/11/2003 8/16/2004 12/19/2005 8/21/2006 9/24/2007 2/23/2009 3/29/2010 11/1/2011 11/16/2012	43.25 43.96 45.55 49.34 37.64 39.42 21.09 43.19 42.02 42.50 38.20 43.50 42.40	731.45 730.74 729.15 725.36 737.06 735.28 753.61 731.51 732.68 732.20 736.50 731.20 732.30
PW-18	225	210 - 225	525.4 - 510.4	735.4	737.8	11/9/2000 12/7/2000 12/14/2000 12/20/2000 9/5/2001 9/17/2002 9/11/2003 8/16/2004 12/19/2005 8/21/2006 9/24/2007 3/11/2009 3/29/2010 11/1/2011 11/16/2012 12/12/2013 12/9/2014 10/26/2015 11/15/2016 10/16/2017 11/7/2018 NM NM NM	110.06 57.23 57.28 57.27 58.50 NM 86.31? 53.18 NM 39.32 34.56 37.43 30.22 36.15 35.04 34.75 33.80 36.68 30.73 33.24 32.70	627.74 680.57 680.52 680.53 679.30 NM Suspect data 684.62 NM 698.48 703.24 700.37 707.58 701.65 702.76 703.05 704.00 699.76 705.71 703.20 703.74
New Survey				734.02	736.44			
PW-19	260	235-250	516.6 - 501.6	751.6	754.1	11/5/2001 9/17/2002 9/11/2003 9/11/2003 8/16/2004 12/19/2005 8/21/2006 9/24/007 2/25/2009 3/29/2010 11/1/2011 11/16/2012	75.70 60.16 94.56? 52.75 53.18 54.11 54.50 54.15 52.18 50.65 NM NM	678.40 693.94 Suspect data 701.35 700.92 699.99 699.60 699.95 701.92 703.45

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 20 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
W-1	64.7	53.7-64.7	719.05-708.05	772.20	772.75	11/14/2000	42.08	730.67
						9/4/2001	24.12	748.63
						9/17/2002	48.07	724.68
						9/11/2003	36.39	736.36
						8/16/2004	38.00	734.75
						12/19/2005	40.78	731.97
						8/21/2006	41.87	730.88
						2/23/2009	41.63	731.12
						3/29/2010	37.13	735.62
						11/1/2011	41.53	731.22
						11/16/2012	41.00	731.75
W-2	35	23-35	703-691	723.30	726.00	11/14/2000	16.51	709.49
						9/4/2001	17.33	708.67
						9/17/2002	18.35	707.65
						9/11/2003	12.62	713.38
						8/16/2004	14.05	711.95
						8/21/2006	18.56	707.44
						9/22/07	16.30	709.70
						2/23/2009	15.54	710.46
						3/29/2010	14.75	711.25
						11/1/2011	16.43	709.57
						11/16/2012	18.10	707.90
W-4	19	9-19	703.64-693.64	710.30	712.64	11/14/2000	9.49	703.15
						9/4/2001	9.84	702.80
						9/17/2002	8.57	704.07
						9/11/2003	6.71	705.93
						8/16/2004	6.28	706.36
						12/19/2005	7.74	704.90
						8/21/2006	9.09	703.55
						9/24/2007	9.94	702.70
						2/23/2009	6.22	706.42
						3/29/2010	5.80	706.84
						11/1/2011	6.69	705.95
						11/16/2012	9.35	703.29
W-4A New Survey	38.5	28.5-38.5	684.75-674.75	712.00	713.25	11/14/2000	9.77	703.48
						9/4/2001	10.12	703.13
						9/17/2002	9.00	704.25
						9/11/2003	7.58	705.67
						8/16/2004	6.87	706.38
						12/19/2005	6.91	706.34
						8/21/2006	9.49	703.76
						9/24/2007	10.08	703.17
						2/23/2009	6.92	706.33
						3/29/2010	5.83	707.42
						11/1/2011	6.82	706.43
						11/16/2012	9.57	703.68
						12/17/2013	7.39	705.86
						12./8/2014	14.76	698.49
						10/27/2015	9.93	702.71
						11/16/2016	11.07	701.57
						10/11/2017	12.93	699.71
						10/31/2018	6.72	705.92
						9/11/2019	17.60	695.04
						10/9/2020	15.57	694.29
						10/27/2021	15.62	697.02

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 21 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
W-4B	50	52.7		711.70	713.93	11/14/2000	10.71	703.22
						9/4/2001	11.11	702.82
						9/17/2002	10.27	703.66
						9/11/2003	NM	NM
						8/16/2004	7.90	706.03
						12/19/2005	7.79	706.14
						8/21/2006	10.59	703.34
						9/24/2007	11.00	702.93
						2/23/2009	6.50	707.43
						3/29/2010	5.78	708.15
						11/1/2011	7.58	706.35
						11/16/2012	10.50	703.43
W-5	60	50-60	702.06-692.06	750.86	752.06	11/14/2000	32.28	719.78
						9/4/2001	33.84	718.22
						9/17/2002	38.61	713.45
						9/11/2003	26.85	725.21
						8/16/2004	29.64	722.42
						12/19/2005	32.30	719.76
						8/21/2006	33.11	718.95
						9/24/2007	32.50	719.56
						2/23/2009	31.97	720.09
						3/29/2010	27.64	724.42
						11/1/2011	32.63	719.43
						11/16/2012	32.35	719.71
W-6	57	42-57	701.8-686.8	742.17	743.80	11/14/2000	30.43	713.37
						9/4/2001	31.59	712.21
						9/17/2002	35.47	708.33
						9/11/2003	22.78	721.02
						8/16/2004	27.95	715.85
						12/19/2005	30.36	713.44
						8/21/2006	30.81	712.99
						9/24/2007	29.86	713.94
						2/23/2009	28.53	715.27
						3/29/2010	24.32	719.48
						11/1/2011	30.13	713.67
						11/16/2012	30.15	713.65
W-6A	90	80-90	664.9-654.9	742.91	744.90	11/14/2000	32.45	712.45
						9/4/2001	33.70	711.20
						9/17/2002	36.67	708.23
						9/11/2003	24.62	720.28
						8/16/2004	30.20	714.70
						12/19/2005	32.51	712.39
						8/21/2006	32.85	712.05
						9/24/2007	32.15	712.75
						2/23/2009	30.39	714.51
						3/29/2010	26.17	718.73
						11/1/2011	32.99	711.91
						11/16/2012	33.17	711.73

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 22 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
W-6B	35	20-35	724.39-709.39	743.13	744.39	11/14/2000	29.75	714.64
						9/4/2001	30.98	713.41
						9/17/2002	33.71	710.68
						9/11/2003	22.34	722.05
						8/16/2004	27.00	717.39
						12/19/2005	29.44	714.95
						8/21/2006	29.97	714.42
						9/24/2007	28.86	715.53
						2/23/2009	27.99	716.40
						3/29/2010	23.70	720.69
						11/1/2011	28.03	716.36
						11/16/2012	27.33	717.06
W-12	60	50-60	685.84-675.84	734.14	735.84	12/19/2005	21.65	714.19
						8/21/2006	NM	NM
						9/24/2007	20.96	714.88
						2/23/2009	19.83	716.01
						3/29/2010	15.45	720.39
						11/1/2011	21.26	714.58
						11/16/2012	21.30	714.54
W-12A	25	10-25	725.74-710.74	733.62	735.74	12/19/2005	21.61	714.13
						8/21/2006	NM	NM
						9/24/2007	NM	NM
						2/23/2009	20.19	715.55
						3/29/2010	15.93	719.81
						11/1/2011	21.71	714.03
						11/16/2012	21.50	714.24
W-13	20	10-20	744.4-734.7	752.40	754.70	11/14/2000	DRY	--
						9/4/2001	DRY	--
						9/17/2002	DRY	--
						9/11/2003	24.25	730.45
						8/16/2004	14.30	740.40
						8/21/2006	DRY	--
						2/23/2009	35.97	718.73
						3/29/2010	4.30	750.40
						11/1/2011	18.61	736.09
						11/16/2012	dry	
W-14	23	8-23	715.9-700.9	721.3	723.90	12/19/2005	16.68	707.22
						8/21/2006	NM	NM
						9/24/2007	13.32	710.58
						2/23/2009	3.52	720.38
						3/29/2010	2.56	721.34
						11/1/2011	11.72	712.18
						11/16/2012	12.52	711.38
W-15	55	35-55	727.36-707.36	760.0	762.36	8/21/2006	NM	NM
						2/23/2009	NM	NM
						3/29/2010	NM	NM
						11/1/2011	40.96	721.40
						11/16/2012	40.27	722.09

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 23 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
W-16	38	28-38	714.01-704.01	739.8	742.01	9/17/2002	29.73	712.28
						9/11/2003	NM	NM
						8/16/2004	NM	NM
						8/21/2006	NM	NM
						2/23/2009	22.53	719.48
						3/29/2010	18.42	723.59
						11/1/2011	23.69	718.32
W-17	20.5	23	687.44	708.4	710.44	11/16/2012	23.62	718.39
						12/19/2005	6.97	703.47
						8/21/2006	9.40	701.04
						9/24/2007	11.00	699.44
						2/23/2009	7.80	702.64
						3/29/2010	4.62	705.82
						11/1/2011	9.86	700.58
W-18	41.5	31.5-41.5	722.21-712.21	751.4	753.71	11/16/2012	10.20	700.24
						12/19/2005	35.01	718.70
						8/21/2006	36.45	717.26
						9/24/2007	37.10	716.61
						2/23/2009	36.08	717.63
						3/29/2010	33.81	719.90
						11/1/2011	36.69	717.02
W-19	40	30-40	717.33-707.33	744.3	747.33	11/16/2012	37.55	716.16
						8/21/2006	NM	NM
						9/24/2007	29.14	718.19
						2/23/2009	28.75	718.58
						3/29/2010	24.68	722.65
						11/1/2011	29.22	718.11
						11/16/2012	29.00	718.33
W-20	10	5-10	712.24-707.24	715.14	717.24	11/16/2012	7.61	709.63
						12/19/2005	5.14	712.10
						8/21/2006	6.65	710.59
						9/24/2007	7.10	710.14
						2/23/2009	4.59	712.65
						3/29/2010	4.05	713.19
						11/1/2011	7.01	710.23
W-21	33.4	33.4	684.78	716.00	718.18	11/16/2012	7.61	709.63
						11/14/2000	15.73	702.45
						9/4/2001	16.41	701.77
						9/17/2002	17.15	701.03
						9/11/2003	14.00	704.18
						8/16/2004	14.94	703.24
						12/19/2005	14.18	704.00
						8/21/2006	15.59	702.59
						9/24/2007	15.91	702.27
						2/23/2009	14.60	703.58
						3/29/2010	9.48	708.70
						11/1/2011	15.02	703.16
						11/16/2012	15.70	702.48

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 24 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
W-23A	75	65-75	707.66-697.66	770.18	772.66	11/14/2000	41.41	731.25
						9/4/2001	42.91	729.75
						9/17/2002	45.30	727.36
						9/11/2003	31.29	741.37
						8/16/2004	38.17	734.49
						12/19/2005	42.06	730.60
						8/21/2006	40.94	731.72
						9/24/2007	42.30	730.36
						2/23/2009	40.10	732.56
						3/29/2010	36.44	736.22
						11/1/2011	41.74	730.92
						11/16/2012	41.65	731.01
W-23B	55	40-55	731.89-716.89	769.60	771.89	11/14/2000	41.00	730.89
						9/4/2001	42.37	729.52
						9/17/2002	44.54	727.35
						9/11/2003	31.29	740.60
						8/16/2004	37.45	734.44
						12/19/2005	41.29	730.60
						8/21/2006	40.42	731.47
						9/24/2007	42.57	729.32
						2/23/2009	39.55	732.34
						3/29/2010	35.74	736.15
						11/1/2011	41.01	730.88
						11/16/2012	41.40	730.49
W-24	60	45-60	721.14-706.14	765.80	766.14	11/14/2000	40.45	725.69
						9/4/2001	42.61	723.53
						9/17/2002	NM	--
						9/11/2003	NM	--
						8/16/2004	NM	--
						12/19/2005	NM	--
						8/21/2006	NM	--
						2/23/2009	NM	--
						3/29/2010	NM	--
						11/1/2011	NM	--
						11/16/2012	NM	NM
W-25	58	43-58	727.27-712.27	770.80	770.27	11/14/2000	40.58	729.69
						9/4/2001	42.47	727.80
						9/17/2002	46.25	724.02
						9/11/2003	35.75	734.52
						8/16/2004	NM	NM
						12/19/2005	NM	NM
						8/21/2006	NM	NM
						2/23/2009	NM	NM
						3/29/2010	NM	NM
						11/1/2011	NM	NM
						11/16/2012	NM	NM

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 25 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
W-26	53	38-53	721.65-706.65	759.20	759.65	11/14/2000	NM	NM
						9/4/2001	NM	NM
						9/17/2002	40.62	719.03
						9/11/2003	NM	NM
						8/16/2004	NM	NM
						8/21/2006	NM	NM
						2/23/2009	NM	NM
						3/29/2010	NM	NM
						11/1/2011	NM	NM
						11/16/2012	NM	NM
W-27	58.5	43.5-58.5	721.7-706.7	765.50	765.20	11/14/2000	39.86	725.34
						9/4/2001	41.37	723.83
						9/17/02	NM	NM
						9/11/2003	NM	NM
						8/16/2004	NM	NM
						8/21/2006	NM	NM
						2/23/2009	NM	NM
						3/29/2010	NM	NM
						11/1/2011	39.05	726.15
						11/16/2012	37.61	727.59
W-29	49.5	34.5-49.5	715.69-700.69	750.74	750.19	11/14/2000	28.22	721.97
						9/4/2001	29.68	720.51
						9/17/2002	28.01	722.18
						9/11/2003	NM	NM
						8/16/2004	NM	NM
						8/21/2006	NM	NM
						2/23/2009	NM	NM
						3/29/2010	NM	NM
						11/1/2011	NM	NM
						11/16/2012	NM	NM
W-30	53	38-53	722.77-707.77	761.00	760.77	11/14/2000	34.47	726.30
						9/4/2001	36.59	724.18
						9/17/2002	40.16	720.61
						9/11/2003	30.37	730.40
						8/16/2004	NM	NM
						12/19/2005	NM	NM
						8/21/2006	34.92	725.85
						9/24/2007	33.67	727.10
						2/23/2009	32.79	727.98
						3/29/2010	28.64	732.13
RW-NIS1	40	20-40	--	--	--	11/1/2011	33.73	727.04
						11/16/2012	33.58	727.19
						12/19/2005	10.51	--
						2/23/2009	9.43	--
						3/29/2010	8.72	--
RW-SIS1	50	30-50	--	--	--	11/1/2011	3.79	--
						11/16/2012	5.57	--
						12/19/2005	11.59	--
						2/23/2009	NM	--
						3/29/2010	NM	--
						11/1/2011	NM	--
						11/16/2012	NM	--

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

Page 26 of 26

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL		GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
		Depth (feet BGL)	Elevation (feet MSL)					
RW-SIS2	40	20-40	--	--	--	12/19/2005	6.48	--
						2/23/2009	7.47	--
						3/29/2010	6.98	--
						11/1/2011	6.11	--
						11/16/2012	8.84	--
RW-SIS3	40	20-40	--	--	713.60	12/19/2005	6.67	706.93
						2/23/2009	5.15	708.45
						3/29/2010	4.05	709.55
						11/1/2011	4.82	708.78
						11/16/2012	5.43	708.17
RW-SIS4	45	1545	--	--	713.16	12/19/2005	4.38	708.78
						2/23/2009	9.99	703.17
						3/29/2010	2.51	710.65
						11/1/2011	4.27	708.89
						11/16/2012	4.00	709.16
RW-SIS5						12/19/2005	9.22	--
						2/23/2009	9.22	--
						3/29/2010	5.50	--
						11/1/2011	9.56	--
						11/16/2012	8.50	--
RW-SIS6						12/19/2005	5.28	--
						2/23/2009	6.15	--
						3/29/2010	4.70	--
						11/1/2011	5.73	--
						11/16/2012	6.70	--
RW-LFS1	50	30-50	--	-	696.44	12/19/2005	14.71	681.73
						2/23/2009	12.09	684.35
						3/29/2010	10.97	685.47
						11/1/2011	11.88	684.56
						11/16/2012	11.74	684.70
RW-LFS2	50	30-50	--	--	697.48	12/19/2005	19.39	678.09
						2/23/2009	13.16	684.32
						3/29/2010	12.05	685.43
						11/1/2011	13.49	683.99
						11/16/2012	12.96	684.52

NM = Not measured

BGL = Below ground level

MSL = Mean sea level

BTOC = Below top of well casing

TABLE 2
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	Total VOCs	1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes (total)	Other VOCs
NC 2L Standard		NE	200	-	6	7	0.4	0.6	3	6000	1	0.3	50	3,000	70	3	70	600	5	0.7	600	100	3	0.03	500	-
OW-LFS-2	2/26/2009	363	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	329	9.0	2.4	<1.0	9.4	3.5	<1.0	<1.0	7.1	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<2.0	ND
	3/30/2010	281	<1.0	<1.0	2.33	<1.0	<1.0	<1.0	251	<5.0	2.17	<1.0	9.92	2.74	<1.0	<1.0	11.8	<1.0	<1.0	<1.0	<1.0	<1.0	1.15	<1.0	ND	ND
	11/1/2011	110	<0.5	<0.5	3.23	<0.5	<0.5	<0.5	65	<5	4.52	<0.5	10.1	1.90	<0.5	<0.5	20.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	3.5
	11/19/2012	276	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	274	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	12/11/2013	421	<5	<5	<5	<5	<5	<5	391	<50	<5	<5	<5	<5	<5	<5	29.6	<5	<5	<5	<5	<5	<5	<5	<10	ND
	12/12/2014	306	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	255	8.1	6.2	<1.0	15	3.8	<1.0	<1.0	12	<1.0	<1.0	<1.0	0.48 J	<1.0	0.54 J	1.7	0.75 J	3.7
	10/26/2015	285	<1.0	<1.0	1.8 J	<1.0	<1.0	<1.0	253	<5	4.5	<1.0	11	<1.0	<1.0	<1.0	13	<1.0	<1.0	<1.0	<1.0	<1.0	0.93 J	<1.0	0.45 J	3.4
	11/14/2016	276	<1.0	<1.0	1.2 J	<1.0	<1.0	<1.0	250	12 J	2.4	<1.0	11	0.76 J	<1.0	<1.0	9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3	3.2
	10/10/2017	248	<1	<1	1.1 J	<1	<1	<1	240	<20	1.4	<1	4.6	1.5 J	<1	<1	4.6 J	<1	<1	<1	<1	<1	<1	<3	0.50 J	2.0
	10/31/2018	404	<1	<1	<1	<1	<1	<1	360	<20	32.0	<1	9.3	1.3	<1	<1	0.80 J	<1	<1	<1	<1	<1	<1	<1	<3	1.2
	9/12/2019	213	<1	<1	0.8 J	<1	<1	<1	210	<20	0.48 J	<1	3.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	ND
	10/12/2020	153	<1	<1	0.74 J	<1	<1	<1	150	<20	1.2	<1	2.0	0.53 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	ND
	10/28/2021	284	<1	<1	0.79 J	<1	<1	<1	270	<20	7.0	<1	3.8	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.4	<2	ND
PW-1D	1/24/1997	659	ND	ND	1 J	1 J	ND	ND	530 J	ND	ND	7	ND	ND	ND	ND		ND	ND	ND	ND	ND	120	ND	ND	ND
	7/15/1998	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	110	ND	ND	ND
PW-2D	2/7/1997	28	ND	ND	10	ND	ND	ND	ND	10 J	ND	ND	ND	4 J	ND	ND		ND	4 J	ND	ND	ND	ND	ND	ND	ND
	7/18/1998	11	ND	ND	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	2 J	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	21	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	19.5	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	ND
PW-3D	2/7/1997	42,680	4,100	ND	370 J	790	15,000	ND	ND	ND	260 J	ND	16,000	ND	ND	ND		ND	1,300	990	740	ND	3,600	ND	ND	160
	7/17/1998	21,462	ND	650 D	ND	520 J	8,100 D	ND	ND	ND	160	ND	8,600	3 J	2 J	ND		13	680	610 D	ND	ND	2,000 D	54.0	49.0	21.0
	4/9/2010	22,149	<1.0	<1.0	393	82.5	8,840	<1.0	39.8	18.4	5.46	<1.0	174	<1.0	<1.0	<1.0	36.1	<1.0	99.1	137.0	7.72	<1.0	419	11.6	ND	ND
	11/3/2011	damaged																								
	11/27/2012	8,532	54	<50	293	203	4,830	<50	55	<500	<50	<50	2,150	<50	<50	<50	54.0	<50	<50	222	82	<50	589	<50	<50	ND
	12/17/2013	27,696	993	9.0	491	1,180	12,800	<5	19.5	<50	137	<5	7,250	<5	<5	<5	59.4	<5	979	723	338	<5	2,540	58.4	12.3	106.5
	12/11/2014	73,348	1,500	<200	610	2,800	14,000	<200	67.6	<100	310	240	32,000	<200	<200	<200	100	<200	1,100	8,900	1,300	<200	9,300	150	180	790
	10/29/2015	67,602	2,300	<200	660	2,100	17,000	<200	112	<1000	350	<200	32,000	<200	<200	<200	380	86 J	1,000	3,300	1,400	<200	7,000	120 J	>600	160 J
	11/16/2016	45,170	970	<100	400	870	20,000	<100	120	<2000	190	<100	16,000	<100	<100	<100	110	<100	1,100	1,300	610	<100	3,500	<100	<300	470 J
	10/11/2017	70,050	1,700	<200	730	2,000	20,000	<200	180	<4000	330	<200	31,000	<200	<200	<200	280	<200	1,700	3,700	1,200	<200	7,100	120 J	130	760 J
	11/2/2018	61,400	1,600	<200	660	2,000	17,000	<200	170	<4000	320	<200	27,000	<200	<200	<200	510	<200	1,400	3,100	1,100	<200	6,100	130 J	100 J	110 J
	9/11/2019	31,290	860	<200	480	1,100	14,000	<200	140	<200	190 J	<200	11,000	<200	<200	<200	350	<200	1,300	620	470	<200	<200	<200	<600	780 J
	10/14/2020	76,030	1,700	<200	800	2,900	20,000	<200	160	<4000	450	<200	32,000	<200	<200	<200	540	<200	1,800	4,800	1,300	<200	8,400	190	210	780
	10/27/2021	42,540	890	<500	660	1,500	17,000	<500	160	<10000	280	<500	18,000	<500	<500	<500	380	<500	1,800	1,200	670	<500	4,200	<500	<1500	ND

TABLE 3
SURFACE WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample Description	Sample Date	1,1,1-Trichloroethane (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethane (ug/l)	1,2-Dichloroethane (ug/l)	1,4-Dioxane (ug/l)	Acetone (ug/l)	Benzene (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	Chloromethane (ug/l)	cis-1,2-Dichloroethane (ug/l)	Methylene Chloride (ug/l)	Tetrachloroethane (ug/l)	Toluene (ug/l)	trans-1,2-Dichloroethane (ug/l)	Trichloroethane (ug/l)	Vinyl Chloride (ug/l)	Xylenes (Total) (ug/l)	2-Butanone (ug/l)
NC 2B Std. (WS-IV)		2500	6700	330	0.38	3.1	2000	1.19	130	12	NE	330	2.6	0.7	11	140	2.5	0.025	670	20,000
SW-DRP-11	11/2/2000	>5	>5	>5	>5	<100	NA	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<10	ND
	9/13/2001	<5	<5	<5	<5	10.2	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	ND
	9/24/2002	<5	<5	<5	<5	109	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	11/26/2002	NA	NA	NA	NA	<10	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/2002	NA	NA	NA	NA	<10	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2003	<5	<5	<5	<5	53.5	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/23/2004	<5	<5	<5	<5	20.4	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	12/20/2005	<5	<5	<5	<5	<10	<10	<5	<5	<10	ND	<5	<5	<5	<5	<5	<5	<10	<5	<10
	8/29/2006	<1	<1	<1	<1	3.5	5.2	<1	1.1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
	9/27/2007	<1	<1	<1	<1	17.9	<5	<1	<1	<1	ND	<1	<1	<1	<1	<1	<1	<1	<2	ND
Upper	2/25/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	>1.0	>1.0	ND	>1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	>2.0	ND
Mid	2/25/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	>1.0	>1.0	ND	>1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	>2.0	ND
Mid	5/13/2009	<1.0	<1.0	<1.0	<1.0	<2.0	10.4	<1.0	>1.0	>1.0	<1.0	>1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	>2.0	>5
Upper	5/13/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<5	<1.0	>1.0	>1.0	<1.0	>1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	>2.0	>5
Surface	4/1/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	>1.0	>1.0	<1.0	>1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	>5.0
Bottom	4/1/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	>1.0	>1.0	<1.0	>1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	>5.0
Surface	11/21/2012	<0.5	<0.5	<0.5	<0.5	10.2	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bottom	11/21/2012	<0.5	<0.5	<0.5	<0.5	9.93	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Surface	12/16/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bottom	12/16/2013	<0.5	<0.5	<0.5	<0.5	14.4	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Surface	12/15/2014	<1	<1	<1	<1	1.55 J	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	12/15/2014	<1	<1	<1	<1	1.53 J	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	10/22/2015	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	10/22/2015	<1	<1	<1	<1	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	11/21/2016	<1	<1	<1	<1	19	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	11/21/2016	<1	<1	<1	<1	17	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	2/1/2017	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom	2/1/2017	NA	NA	NA	NA	1.4 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Surface	10/13/2017	<1	<1	<1	<1	31.0	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	10/13/2017	<1	<1	<1	<1	31.0	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	11/29/2017	NA	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bottom	11/29/2017	NA	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Surface	11/7/2018	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	11/7/2018	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	9/18/2019	<1	<1	<1	<1	1.3 J	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Bottom	9/18/2019	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<5
Surface	10/22/2020	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
Bottom	10/22/2020	<1	<1	<1	<1	<2	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
Surface	10/21/2021	<1	<1	<1	<1	1.4 J	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5
Bottom	10/21/2021	<1	<1	<1	<1	1.2 J	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<5

ug/l = micrograms per liter

J = Estimated value

B = Analyte detected in method blank as well as sample

Bold type indicates value exceeds NC 2B surface water quality standard (WS-IV)

ND = Not Detected

NE = Not Established

NA = Not Analyzed

NC 2B Std. (WS-IV) = North Carolina 2B surface water quality standard for Class WS-IV waters

Values separated by slash (/) indicates split sample results

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
Ground Water					
MRF-1	2/24/2009	17.0	6.1		900
MW-1	3/5/2009 3/31/2010 11/2/2011 11/20/2012 12/9/2013 12/8/2014 10/26/2015 11/14/2016 10/11/2017 11/1/2018 9/10/2019 10/13/2020 10/26/2021	14.8 16.5 14.2 13.6 13.5 12.1 13.7 14.5 19.9 17.8 22.8 19.7 15.7	3.9 6.6 8.2 9.4 12.0 7.8 8.0 7.3 7.2 8.1 6.6 7.4 5.7	 9.7 3.5 3.6 4.6 3.5 3.4 4.7 10.5 1.3	194 2840 228 458 3 352 0 287 262 324 585 196 337
MW-2C	2/24/2009	14.4	6.6		688
MW-3B	9/26/2000 9/5/2001	15.7 17.8	6.2 6.4		2000 1930
MW-3C	9/26/2000 9/5/2001 9/18/2002 8/17/2004 2/27/2009 3/30/2010 11/1/2011 11/20/2012 12/11/2013 12/11/2014 10/27/2015 11/14/2016 10/10/2017 11/2/2018 9/1/2019 10/13/2020 10/26/2021	15.4 17.6 16.9 18.2 15.7 17.5 16.4 14.8 11.1 15.7 15.3 17.2 23.9 17.3 31.1 18.1 16.6	6.3 6.5 6.8 6.6 6.4 7.7 7.8 7.9 6.9 6.7 6.5 7.3 6.2 6.8 6.5 6.4 5.5	 8.3 2.9 19.5 4.4 1.9 2.7 4.2 3.3 1.2	1520 1570 1820 1461 686 2370 971 648 4 1915 1284 1221 1096 1123 1555 665 1042
MW-5	2/24/2009	10.5	5.2		544
MW-6	9/26/2000 9/6/2001 9/19/2002 8/18/2004 3/3/2009 3/30/2010 11/1/2011 11/19/2012 12/11/2013 12/12/2014 10/30/2015 11/17/2016 10/10/2017 11/2/2018 9/12/2019 10/14/2020 10/28/2021	15.3 17.5 18.1 — 14.6 17.4 17.6 20.6 11.3 14.7 16.0 20.1 22.0 19.5 26.7 19.7 19.2	6.0 6.2 6.5 — 7.5 6.9 8.9 7.3 6.5 6.6 7.1 6.5 7.6 6.6 6.9 6.2 6.4	 7.3 2.9 11.7 3.2 1.3 1.7 3.6 4.6 0.3	559 472 538 — 900 2730 40 1036 113 1163 719 751 692 993 1245 579 955
MW-7B	3/3/2009	16.2	5.9		4220
MW-8	3/5/2009	16.9	5.1		990
MW-9	9/26/2000 2/26/2009	14.9 12.4	5.8 8.0		1.17 1840
MW-10	9/26/2000 9/6/2001 9/19/2002 9/16/2003 8/17/2004 3/6/2009 3/29/2010 11/1/2011 11/19/2012 12/10/2013 12/10/2014 10/26/2015 11/14/2016 10/10/2017 10/31/2018 9/10/2019 10/12/2020 10/26/2021	15.4 16.0 16.1 17.0 16.0 14.9 16.6 16.9 15.8 12.8 13.1 15.9 16.6 20.2 17.6 24.5 19.1 18.7	6.3 6.3 6.7 6.7 6.4 6.2 8.8 7.1 7.4 6.5 6.5 7.0 6.7 6.0 6.8 6.2 6.4 4.6	 9.4 2.0 7.9 4.1 1.8 2.3 3.9 3.6 0.9	2.51 2480 2740 1940 2200 932 4510 1058 154 302 257 1523 1194 905 1591 31 307 355

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
MW-11	9/28/2000	17.2	6.5		5950
	9/10/2001	17.3	6.7		5860
	9/18/2002	16.5	7.0		5350
	8/17/2004	--	--		--
	3/4/2009	14.0	6.8		2990
MW-12A	9/28/2000	17.9	6.2		747
	10/30/2000	17.7	6.4		899
	9/6/2001	18.7	6.5		506
	9/20/2002	18.8	6.4		766
	9/16/2003	21.3	6.6		521
	8/18/2004	23.0	7.0		425
	3/6/2009	12.1	5.0		150
	4/1/2010	17.0	7.4		6660
	11/2/2011	10.9	9.6	1.1	1601
	11/19/2012	15.8	7.7	2.8	539
	12/10/2013	12.3	6.8	7.7	317
	12/11/2014	14.1	6.8	4.6	564
	10/27/2015	14.7	6.8	1.6	1948
	11/14/2016	16.4	7.5	3.1	1530
	10/10/2017	22.2	6.4	4.4	1558
	11/1/2018	18.2	6.1	1.7	1720
	9/10/2019	26.7	6.5		1500
	10/13/2020	19.5	6.5		1180
	10/26/2021	18.6	5.9	0.8	1856
MW-12B	9/28/2000	16.9	6.2		2620
	9/6/2001	17.7	6.4		2570
	9/20/2002	18.1	6.3		2930
	9/16/2003	18.3	6.7		2500
	8/18/2004	--	--		--
	3/4/2009	11.9	7.8		2990
	4/9/2010	16.6	6.2		412
	11/2/2011	16.4	9.0	2.7	1418
	11/19/2012	15.0	7.4	2.8	39
	12/10/2013	14.8	6.4	18.5	295
	12/11/2014	14.3	6.5	3.5	868
	10/27/2015	14.0	6.5	1.7	1475
	11/14/2016	15.3	6.6	2.9	1682
	10/10/2017	22.4	6.5	3.5	1699
	11/1/2018	22.1	6.7	7.8	990
	9/11/2019	25.0	6.5		1695
	10/13/2020	18.9	6.5		1230
	10/26/2021	17.4	5.6	0.7	1965
MW-12D	9/29/2000	15.8	6.8		1110
	9/12/2001	16.2	7.8		949
	9/20/2002	19.5	7.6		520
	3/5/2009	13.4	11.9		208
	4/1/2010	19.6	9.6		91100
	11/2/2011	11.2	8.4	11.5	293
	11/23/2012	18.0	9.1	1.9	27
	12/11/2013	12.8	7.9	18.8	379
	12/11/2014	17.3	7.7	6.0	609
	10/25/2015	19.3	6.7	1.8	1210
	11/18/2016	14.8	8.3	3.7	358
	10/11/2017	20.5	7.3	6.2	382
	11/1/2018	22.2	8.7	4.7	412
	9/12/2019	21.0	7.1		275
	10/13/2020	18.8	7.7		113
	10/26/2021	17.7	6.3	0.6	279
MW-15A	9/5/2001	17.5	6.3		942
	9/18/2002	15.8	6.7		1150
	9/17/2003	15.8	5.9		932
	8/18/2004	--	--		--
	3/6/2009	15.1	6.3		427
	3/31/2010	17.7	7.7		4940
	11/2/2011	14.7	7.8	7.8	265
	11/19/2012	14.8	7.6	2.7	237
	12/10/2013	14.9	6.1	6.9	873
	12/8/2014	11.6	6.6	4.9	768
	10/27/2015	14.7	6.6	1.8	478
	11/14/2016	14.1	6.6	2.8	760
	10/11/2017	22.9	6.6	4.7	739
	10/31/2018	16.3	6.8	11.2	246
	9/10/2019	24.8	6.6		1515
	10/9/2020	17.9	6.3		289
	10/28/2021	15.7	7.1	0.5	508
MW-16					
MW-17	3/5/2009	18.7	10.0		357
OW-DR1	9/27/2000	19.0	6.3		2120

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
OW-DR2	9/26/2000	16.0	6.3		1850
	9/10/2001	15.6	6.5		1900
	2/27/2009	16.2	9.9		1760
	3/30/2010	17.1	8.2		4960
	11/1/2011	17.0	8.4	6.3	1060
	11/23/2012	14.7	7.7	1.9	789
	12/11/2013	13.2	8.4	2.9	837
	12/12/2014	14.4	7.0	3.1	1918
	10/30/2015	12.7	9.7	0.9	1388
	11/18/2016	17.0	6.9	1.0	987
	10/10/2017	20.6	6.4	3.3	1500
	11/2/2018	17.1	7.6	0.8	1600
	9/11/2019	23.3	7.6		900
	10/13/2020	18.1	7.2		372
	10/28/2021	16.2	7.5	0.3	627
OW-DR3	9/20/2002	16.7	6.3		2520
	8/24/2004	17.6	6.7		643
	3/4/2009	12.7	3.7		2460
	11/26/2012	17.5	6.1	2.5	1713
	12/10/2013	13.7	6.3	4.1	254
OW-DR4	9/23/2002	17.9	6.6		1720
	8/24/2004	17.5	6.3		1288
	2/25/2009	17.5	6.2		762
OW-LFS1	2/26/2009	15.2	6.0		3730
OW-LFS2	2/26/2009	14.5	5.4		3100
	3/30/2010	17.3	8.2		9990
	11/1/2011	16.9	7.7	6.2	141
	11/19/2012	17.4	7.6	2.7	367
	12/11/2013	12.2	6.4	8.4	668
	12/12/2014	14.7	6.5	4.6	1722
	10/26/2015	16.2	6.6	2.2	1302
	11/14/2016	18.9	6.5	2.5	2036
	10/10/2017	21.6	6.5	4.5	2093
	10/31/2018	17.9	6.6	9.5	1403
	9/12/2019	20.2	6.7		830
	10/12/2020	20.4	6.5		1440
	10/28/2021	17.2	6.5	0.3	2827
OW-NIS1	3/10/2009	20.3	4.4		2650
OW-SF1	3/9/2009	18.0	3.8		802
OW-SIS1	8/17/2004	16.2	5.8		656.4
	3/9/2009	18.0	4.2		579
OW-SIS2	2/24/2009	16.0	6.1		155
OW-SIS3	3/4/2009	13.6	6.0		392
PW-2D	3/3/2009	15.2	7.8		1930
PW-3D	11/27/2012	9.3	10.0	5.0	375
	12/17/2013	8.6	12.7	18.7	128
	12/11/2014	14.1	8.6	1.8	572
	10/25/2015	18.8	6.3	0.6	397
	11/16/2016	18.1	8.5	3.7	358
	10/11/2017	21.4	7.5	1.7	377
	11/2/2018	19.1	7.5	1.5	457
	9/11/2019	23.6	8.0		762
	10/27/2021	17.0	6.9	0.4	461
PW-4I	9/28/2000	21.8	6.3		2010
	9/11/2001	19.7	6.4		1710
	9/19/2002	20.8	6.5		1890
	8/23/2004	20.4	3.1		1719
	3/5/2009	17.5	4.4		2160
	4/2/2010	16.6	7.6		1860
	11/2/2011	24.4	8.0	0.2	1017
	11/20/2012	18.9	7.2	2.0	920
	12/17/2013	12.1	6.7	19.6	807
	12/8/2014	13.9	6.3	1.5	1516
	10/29/2015	20.5	6.8	0.8	1675
	11/17/2016	21.1	6.0	1.6	1399
	10/11/2017	22.7	6.4	1.5	857
	11/2/2018	21.5	6.5	1.9	1686
	9/11/2019	24.2	6.4		1857
	10/14/2020	21.6	6.2		1120
	10/27/2021	18.3	6.9	0.3	1944

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
PW-5D	9/26/2000	15.8	6.4		1620
	9/10/2001	16.0	6.7		1590
	9/23/2002	16.3	6.8		1610
	8/18/2004	16.5	6.4		1293
	3/27/2009	16.3	6.3		797
	3/30/2010	17.2	8.4		1690
	11/3/2011	17.3	8.4	8.3	1044
	11/23/2012	15.8	8.2	1.9	790
	12/16/2013	10.4	6.8	18.3	995
	12/11/2014	14.9	7.0	2.8	1609
	10/30/2015	15.8	7.8	1.3	955
	11/18/2016	15.3	6.9	1.1	927
	10/10/2017	20.3	6.8	2.4	1335
	11/2/2018	17.6	7.8	2.9	1658
	9/11/2019	25.6	7.6		920
PW-6D New Well	10/13/2020	18.0	7.4		455
	10/28/2021	16.5	7.5	0.4	757
	10/2/2000	16.5	7.7		320
	9/12/2001	15.4	8.0		472
	9/19/2002	15.9	8.1		356
	8/25/2004	15.7	7.9		276
	3/18/2009	16.7	7.3		363
	3/31/2010	17.4	7.4		408
	12/10/2014	13.1	8.2	4.6	564
	10/30/2015	20.5	8.2	1.2	263
	11/17/2016	17.6	7.7	1.4	410
	10/10/2017	19.0	7.3	4.3	1100
	11/1/2018	16.6	7.6	7.1	918
	9/12/2019	25.2	7.5		904
	10/12/2020	17.9	8.0		241
	10/28/2021	15.9	6.1	0.4	780
PW-6I New Well	10/2/2000	15.9	6.2		573
	9/12/2001	14.5	6.2		816
	9/19/2002	15.3	6.3		631
	8/25/2004	15.1	6.3		544
	3/4/2009	13.5	6.2		404
	3/31/2010	17.9	6.0		1020
	12/10/2014	11.0	7.6	3.5	1521
	10/27/2015	14.7	6.7	1.5	1201
	11/17/2016	14.6	6.8	1.9	1155
	10/10/2017	22.1	6.4	3.6	1178
	11/1/2018	17.3	6.5	0.7	1157
	9/12/2019	21.8	6.0		1517
	10/13/2020	17.4	6.3		761
	10/28/2021	15.9	6.0	0.4	1303
PW-7I	9/28/2000	19.3	6.9		2230
	9/12/2001	16.6	6.6		3190
	9/20/2002	16.2	6.7		3250
	8/20/2004	19.6	6.6		2666
	3/4/2009	13.8	5.2		3010
PW-8S	9/27/2000	15.5	6.3		1130
	9/6/2001	19.0	6.5		1040
	9/17/2003	17.4	6.2		2080
	8/17/2004	20.0	6.3		1628
	3/3/2009	14.1	9.7		1670
PW-9I	9/27/2000	19.2	7.0		1860
	3/12/2009	19.0	5.4		1410
PW-10D	9/26/2000	15.1	8.3		703
	9/11/2001	15.5	6.9		769
	9/18/2002	19.8	9.8		354
	8/17/2004	18.0	9.3		235
	3/29/2010	18.1	9.9		920
	11/1/2011	19.3	7.7	6.8	53
	11/21/2012	14.3	12.8	4.7	103
	12/11/2013	13.3	12.0	4.6	120
	12/10/2014	13.6	9.8	4.6	342
	11/3/2015	17.7	7.1	2.7	1225
	11/17/2016	17.5	9.9	2.1	259
	10/10/2017	21.3	7.3	4.6	285
	10/31/2018	23.3	9.9	4.9	250
	9/12/2019	24.9	9.9		298
	10/12/2020	19.2	10.3		130
	10/26/2021	17.4	7.0	0.9	220

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
PW-10I	9/26/2000	16.7	6.1		787
	9/11/2001	15.6	6.2		1080
	9/18/2002	16.0	6.4		1210
	8/17/2004	15.9	6.3		1192
	3/12/2009	16.5	3.7		2110
	3/29/2010	15.6	7.7		3960
	11/1/2011	17.4	7.9	6.1	1123
	11/19/2012	15.0	7.3	1.9	1693
	12/11/2013	11.9	6.5	7.2	973
	12/10/2014	14.3	6.4	2.7	214
	10/29/2015	19.7	8.1	2.5	1356
	11/17/2016	17.3	6.2	1.7	1529
	10/10/2017	22.5	6.9	2.8	930
	11/1/2018	16.3	7.3	11.8	62
	9/12/2019	22.2	6.2		2000
PW-11I	10/12/2020	17.7	6.2		1150
	10/26/2021	17.5	5.3	0.9	2254
	9/29/2000	16.3	6.9		649
	9/11/2001	17.2	7.2		722
	9/18/2002	19.1	8.1		618
PW-12I	8/25/2004	19.1	7.8		294
	3/5/2009	16.1	5.2		929
	10/2/2000	23.1	7.1		659
	9/11/2001	15.9	6.5		554
	9/19/2002	17.6	6.7		689
PW-13I	8/17/2004	17.3	5.8		525
	8/22/2006	16.9	5.5		90
	3/3/2009	13.9	6.1		752
	3/31/2010	17.0	6.4		634
	11/2/2011	21.3	8.9	1.5	47
	11/20/2012	16.3	8.1	3.4	152
	12/17/2013	11.8	7.0	8.8	160
	12/12/2014	11.7	7.1	9.2	880
	10/30/2015	15.8	7.2	2.9	650
	11/21/2016	16.1	6.7	2.7	597
	10/11/2017	21.3	6.5	8.9	660
	11/6/2018	19.1	7.2	3.4	816
	9/11/2019	25.5	6.3		1022
	10/14/2020	18.0	6.4		446
	10/28/2021	17.1	6.3	0.4	852
PW-14D	9/29/2000	17.5	6.7		1100
	9/12/2001	18.3	6.9		937
	9/20/2002	18.4	7.2		999
	9/23/2003	17.8	6.3		890
	8/25/2004	17.8	7.0		896
	3/4/2009	16.5	6.7		483
	3/31/2010	18.5	8.1		1640
	11/3/2011	12.1	9.5	6.3	780
	11/23/2012	19.2	8.4	1.7	1323
	12/16/2013	13.1	6.8	8.7	319
	12/12/2014	17.5	6.9	2.9	1450
	10/26/2015	16.9	6.9	1.0	1701
	11/18/2016	18.0	6.9	1.3	976
	10/11/2017	19.8	6.8	3.0	791
	10/31/2018	17.7	7.1	10.1	1003
PW-14S	9/1/2019	24.7	6.9		1247
	10/13/2020	18.3	7.0		571
	10/28/2021	16.2	6.9	0.4	1007
	10/31/2000	23.0	12.2		6.91
	9/10/2001	19.3	12.7		6,720
	8/19/2004	19.2	12.2		4941
	8/22/2006	20.5	12.8		613
	3/11/2009	18.9	9.7		6400
	3/31/2010	16.0	12.0		6640
	11/7/2011	14.8	9.6	7.5	1253
	11/27/2012	13.3	12.7	2.8	1776
	12/12/2013	9.5	7.0	2.6	629
	12/9/2014	16.8	12.1	5.2	381
	11/3/2015	18.1	9.1	1.7	340
	11/16/2016	15.6	13.1	2.0	3999
PW-14S	10/12/2017	18.8	6.9	5.1	612
	11/5/2018	19.2	12.7	2.0	4246
	9/17/2019	26.0	12.5		365
	10/14/2020	19.7	12.1		3370
	10/27/2021	15.9	10.0	0.0	5677
PW-14S	10/30/2000	17.7	6.0		130
	9/6/2001	17.8	6.3		185
	8/19/2004	16.8	5.9		95
	8/22/2006	16.8	5.1		185
	3/10/2009	15.7	4.0		68

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
PW-15D	10/31/2000	15.5	6.8		1.46
	9/6/2001	16.8	6.7		1.68
	9/16/2003	16.3	7.5		730
	8/19/2004	--	--		--
	8/23/2006	16.0	6.3		1.6
	3/11/2009	19.0	4.0		79
	3/30/2010	15.9	6.2		1950
	11/7/2011	11.1	6.3	8.1	95
	11/26/2012	17.3	6.3	1.1	1204
	12/12/2013	9.4	6.9	7.0	727
	12/9/2014	16.1	7.0	2.8	1628
	10/28/2015	18.7	7.1	1.0	966
	11/15/2016	17.3	7.8	2.4	867
	10/12/2017	18.1	6.9	2.8	738
	11/5/2018	15.9	7.5	0.7	1360
	9/17/2019	21.1	7.2		920
	10/14/2020	19.6	6.4		34
	10/27/2021	15.2	6.0	0.4	784
PW-15S	10/30/2000	16.7	6.4		467
	9/6/2001	16.3	7.2		648
	8/19/2004	--	--		--
	8/23/2006	17.9	6.5		604
	3/11/2009	17.6	4.5		432
PW-16D	11/2/2000	17.1	7.4		85.7
	9/6/2001	15.7	7.3		96
	8/19/2004	16.5	7.2		845
	8/23/2006	15.8	6.7		125
	3/11/2009	19.1	3.8		633
	3/30/2010	15.4	6.6		1280
	11/7/2011	16.8	8.2	6.1	460
	11/26/2012	19.8	6.8	1.6	926
	12/12/2013	8.4	7.8	9.7	365
	12/9/2014	15.2	7.7	2.9	1327
	10/28/2015	18.6	7.1	0.8	815
	11/15/2016	18.0	8.4	1.7	709
	10/12/2017	18.8	7.8	3.2	1364
	11/5/2018	16.3	7.4	2.4	619
	9/12/2019	22.5	7.2		689
	10/14/2020	18.4	6.2		45
	10/27/2021	16.1	6.5	0.4	604
PW-16S	10/30/2000	17.4	6.3		347
	9/6/2001	17.6	6.3		499
	8/19/2004	17.2	6.3		291
	8/23/2006	18.6	6.8		416
PW-17	11/3/2000	18.8	6.4		44.4
	9/12/2001	18.3	6.5		364
	9/18/2002	16.8	6.6		424
	8/19/2004	17.3	6.6		447
	3/5/2009	15.9	7.4		242
PW-18	11/3/2000	15.6	10.3		44.2
	9/10/2001	17.3	11.2		853
	9/16/2003	16.8	12.9		9040
	8/19/2004	--	--		--
	8/22/2006	18.5	13.1		121
	3/11/2009	20.3	8.7		1310
	3/31/2010	17.7	12.2		12200
	11/8/2011	7.7	6.1	9.6	954
	11/26/2012	15.1	12.0	3.1	393
	12/12/2013	10.6	12.5	8.7	66
	12/9/2014	14.1	12.2	7.6	1134
	10/26/2015	15.5	12.7	4.3	1102
	11/15/2016	17.2	13.5	7.3	3999
	10/16/2017	16.7	12.8	7.9	1217
	11/7/2018	17.5	12.7	4.8	1210
	9/17/2019	Not Sampled			
	10/14/2020	Not Sampled			
	10/27/2021	Not Sampled			
PW-19	11/6/2001	15.3	7.2		268
	9/18/2002	18.6	7.5		387
	9/16/2003	11.8	8.9		483
	8/17/2004	16.2	7.8		450
	3/10/2009	17.1	9.2		299
PW-DR1	2/25/2009	13.6	6.2		1950
PW-SIS1	8/19/2004	15.7	6.8		536
	3/9/2009	17.2	5.8		210

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
PW-SF1	4/2/2010	17.6	8.8		3960
	11/3/2011	18.6	8.7	3.4	896
	11/20/2012	14.9	7.6	1.8	147
	12/9/2013	14.9	6.8	11.3	39
	12/8/2014	14.5	6.7	3.4	1272
	10/27/2015	14.1	6.8	3.1	1656
	11/17/2016	15.9	6.9	1.6	845
	10/11/2017	18.3	6.4	3.3	819
	10/31/2018	17.2	6.4	0.5	392
	9/10/2019	24.6	6.0		218
	10/9/2020	17.5	7.1		676
	10/27/2021	15.6	6.3	0.5	1091
RW-LFS1	2/26/2009	14.8	6.0		3010
RW-LFS2	2/26/2009	15.7	6.2		2460
RW-NIS1	3/6/2009	15.0	5.1		3190
RW-SIS2	3/9/2009	17.7	3.8		160
RW-SIS3	3/4/2009	15.6	6.0		681
RW-SIS4	3/4/2009	12.7	6.1		97
RW-SIS5	3/4/2009	12.5	6.7		425
RW-SIS6	3/4/2009	15.2	6.3		322
W-1	9/27/2000	16.2	6.5		330
	9/10/2001	17.5	6.6		296
	9/18/2002	17.1	6.6		307
	9/17/2003	17.6	6.3		448
	8/17/2004	17.1	6.8		390
	3/3/2009	16.4	6.9		484
W-4	9/27/2000	14.9	6.5		267
	9/10/2001	16.0	6.6		263
	9/17/2002	18.4	6.9		342
	9/17/2003	16.5	6.1		290
	8/17/2004	18.4	6.0		248
W-4A	9/27/2000	14.7	6.5		612
	9/10/2001	15.1	6.5		773
	9/14/2002	15.5	6.4		653
	9/17/2003	14.5	6.1		434
	8/17/2004	15.5	6.4		475
	2/27/2009	18.6	6.2		223
	3/31/2010	15.6	7.6		52100
	11/2/2011	14.7	9.0	1.0	695
	11/19/2012	14.5	7.6	3.4	32
	12/17/2013	10.8	6.5	9.5	546
	12/8/2014	12.5	6.6	4.2	1006
	10/27/2015	14.3	6.7	1.8	234
	11/16/2016	16.3	7.6	1.3	356
	10/11/2017	21.9	6.6	4.1	383
	10/31/2018	17.3	6.6	10.0	13
	9/11/2019	23.2	7.1		337
	10/9/2020	19.7	6.2		144
	10/27/2021	15.3	6.0	0.4	270
W-5	9/27/2000	15.7	6.4		2530
	10/30/2000	15.3	6.3		2580
	9/10/2001	15.9	6.4		2170
	9/18/2002	16.1	6.9		2060
	8/18/2004	--	--		--
	3/3/2009	14.1	6.3		556
W-6A	9/28/2000	17.1	5.9		4950
W-18	3/5/2009	14.6	6.1		361
W-21	9/28/2000	14.3	6.0		343
	9/10/2001	14.8	6.6		310
	9/17/2002	15.5	6.7		342
	9/17/2003	14.9	6.1		360
	8/17/2004	16.8	6.5		292
	2/24/2009	13.4	6.6		900
W-23A	3/4/2009	11.8	6.4		426
W-24	3/5/2009				

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
Surface Water					
SW-1	11/2/2000	10.4	6.7		175
	9/14/2001	20.1	6.4		153
	9/24/2002	Dry	--		--
	9/16/2003	19.9	6.8		119
	8/23/2004	20.2	7.4		59
	10/22/2015	Dry			
	11/21/2016	Dry			
	10/13/2017	Dry			
	11/7/2018	12.8	7.9	6.7	177
	9/18/2019	Dry			
	10/22/2020	Dry			
	10/21/2021	Dry			
SW-2	11/2/2000	16.6	7.2		2070
	9/14/2001	21.2	7.1		1640
	9/24/2002	20.9	5.8		1870
	9/15/2003	21.8	7.2		2160
	8/23/2004	24.8	7.3		98
	8/22/2006	20.8	7.0		226
	4/1/2010	15.3	7.5		103
	11/3/2011	14.3	8.4		378
	11/20/2012	Dry			
	12/11/2013	Dry			
	12/8/2014	Dry			
	10/22/2015	Dry			
	11/21/2016	Dry			
	10/13/2017	21.7	7.8	5.3	112
	11/7/2018	14.7	7.7	7.1	251
	9/18/2019	Dry			
	10/22/2020	Dry			
	10/21/2021	Dry			
SW-3	11/2/2000	11.0	8.0		359
	9/14/2001	20.1	7.3		199
	9/24/2002	19.3	6.7		3450
	9/16/2003	19.7	7.3		244
	8/25/2004	23.1	8.1		133
	8/22/2006	23.2	7.5		480
	4/1/2010	15.6	7.6		6850
	11/3/2011	10.6	8.9	11.1	261
	11/20/2012	11.1	9.1	6.0	35
	12/11/2013	5.5	9.0	1.6	144
	12/8/2014	10.2	8.4	16.2	108
	10/22/2015	16.6	7.5	4.8	224
	11/17/2016	12.7	7.7	2.2	1577
	10/13/2017	19.1	7.4	2.2	246
	11/7/2018	19.2	7.9	6.6	298
	9/18/2019	21.8	7.7		323
	10/22/2020	20.8	8.4	4.5	281
	10/21/2021	11.6	4.9	2.7	312
SW-3A	8/25/2004	21.9	8.1		126
SW-3B	8/25/2004	21.9	7.7		123
SW-4	11/2/2000	12.8	6.9		964
	9/14/2001	19.9	7.2		771
	9/15/2003	25.0	7.5		473
	8/25/2004	22.9	7.5		452
	8/22/2006	22.2	7.3		112
	4/1/2010	14.9	7.7		102
	11/3/2011	14.5	7.7		671
	11/20/2012	11.5	9.1	6.1	22
	12/13/2013	4.2	8.8	5.6	1
	12/8/2014	7.2	8.3	9.5	147
	10/22/2015	15.8	8.4	17.4	0
	11/21/2016	9.8	8.1	4.8	206
	10/13/2017	19.9	6.3	4.0	878
	11/7/2018	19.5	8.1	8.8	252
	9/18/2019	21.2	6.5	6.3	1285
	10/22/2020	20.5	8.3	2.5	108
	10/21/2021	15.0	4.7	2.1	1546

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
SW-5	11/2/2000	14.7	6.9		415
	9/14/2001	19.7	6.7		295
	9/24/2002	19.7	6.7		295
	9/16/2003	20.6	7.0		300
	8/25/2004	21.1	7.5		168
	8/22/2006	22.2	7.5		540
	4/1/2010	17.1	7.4		6760
	11/3/2011	11.9	9.6	9.9	212
	11/20/2012	11.5	9.1	5.6	22
	12/16/2013	8.7	8.5	9.7	78
	12/8/2014	7.7	10.1	11.0	229
	10/22/2015	16.3	7.3	4.9	199
	11/17/2016	10.2	7.8	4.8	320
	10/13/2017	19.0	7.4	9.2	314
	11/7/2018	14.9	7.8	6.1	217
	9/18/2019	22.0	9.1		311
	10/22/2020	19.5	8.1	3.8	301
	10/21/2021	13.3	6.1	4.1	438
SW-6	11/2/2000	11.4	7.5		215
	9/14/2001	22.4	6.9		133
	9/24/2002	22.4	7.5		168
	9/16/2003	21.5	7.4		117
	8/25/2004	26.4	8.2		82
	8/22/2006	25.7	7.7		168
	4/1/2010	14.3	8.3		103
	11/3/2011	14.5	10.3	6.8	326
	11/21/2012	8.1	9.0	5.4	8
	11/21/2012	8.7	9.3	5.2	79
	12/13/2013	5.2	8.2	9.8	45
	12/13/2013	5.6	8.3	9.5	26
	12/15/2014	9.0	8.6	13.9	212
	12/15/2014	9.1	8.7	13.3	279
	10/22/2015	21.6	7.5	3.9	127
	10/22/2015	20.3	7.4	4.1	97
	11/21/2016	12.2	8.0	4.4	154
	11/21/2016	11.9	7.9	4.2	151
	10/13/2017	22.5	9.4	13.6	303
	10/13/2017	22.0	9.2	13.3	293
	11/7/2018	18.1	9.9	7.3	197
	11/7/2018	17.8	9.5	7.3	100
	9/18/2019	24.4	8.1		177
	9/18/2019	24.6	8.6		163
	10/22/2020	21.8	5.9	4.8	56
	10/22/2020	22.3	4.8	5.7	69
	10/21/2021	16.0	5.7	2.0	150
	10/21/2021	16.2	5.3	1.7	124
SW-7	11/3/2000	9.0	6.3		319
	9/13/2001	20.3	6.8		220
	9/24/2002	21.8	6.6		263
	9/15/2003	23.8	7.0		156
	8/23/2004	25.5	7.2		85
	4/1/2010	13.4	7.4		103
	11/3/2011	11.8	9.0	13.3	84
	11/21/2012	10.5	9.1	6.4	58
	11/21/2012	10.7	9.0	6.8	319
	12/13/2013	6.6	8.2	9.1	18
	12/13/2013	6.4	8.2	9.6	4
	12/15/2014	10.5	8.6	13.4	186
	12/15/2014	11.1	8.4	13.8	179
	10/22/2015	18.6	8.6	5.4	75
	10/22/2015	18.3	8.6	5.5	64
	11/21/2016	10.5	8.0	4.4	262
	11/21/2016	9.7	9.2	5.7	276
	10/13/2017	23.3	8.6	13.8	338
	10/13/2017	22.3	8.3	13.5	318
	11/7/2018	17.8	8.7	6.9	82
	11/7/2018	17.8	8.7	6.4	80
	9/18/2019	26.2	8.5		216
	9/18/2019	24.7	8.2		169
	10/22/2020	23.0	8.2	6.4	144
	10/22/2020	21.6	8.2	5.2	89
	10/21/2021	18.1	5.4	1.0	116
	10/21/2021	17.9	5.3	1.0	111

TABLE 4
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)
SW-DRP-2	11/3/2000	13.5	6.5		1870
	9/14/2001	20.3	7.0		224
East	9/14/2001	20.5	6.9		239
West	9/15/2003	23.1	7.1		150
	8/23/2004	22.0	3.7		386
	4/1/2010	14.1	7.8		102
	11/3/2011	11.5	8.8	10.9	140
shallow - 1'	11/21/2012	10.2	8.9	5.9	43
deep - 12.5'	11/21/2012	9.9	9.1	5.6	67
shallow - 1'	12/13/2013	5.8	8.2	9.4	10
deep - 10'	12/13/2013	5.7	6.9	9.9	28
shallow - 1'	12/15/2014	10.2	8.7	16.5	176
deep - 12.3'	12/15/2014	10.2	8.5	16.3	176
shallow - 1'	10/22/2015	15.9	8.1	6.3	0
deep - 12.3'	10/22/2015	16.0	8.1	6.4	0
shallow - 1'	11/21/2016	9.7	8.1	3.7	203
deep - 12'	11/21/2016	9.6	7.9	6.6	206
shallow - 1'	10/13/2017	23.3	8.5	16.5	324
deep - 14.2'	10/13/2017	21.7	8.6	16.3	334
shallow - 1'	11/7/2018	18.9	9.1	6.7	97
deep - 12.0'	11/7/2018	17.9	8.8	6.5	83
shallow - 1'	9/18/2019	24.8	7.7		300
deep -10'	9/18/2019	25.0	8.3		159
shallow - 1'	10/22/2020	25.3	8.6	5.3	119
deep - 12'	10/22/2020	24.6	8.6	4.6	89
shallow - 1'	10/21/2021	17.8	6.2	1.9	124
deep - 11.5'	10/21/2021	17.7	5.9	1.8	113
SW-DRP-4	11/3/2000	13.1	6.3		544
	9/14/2001	18.8	6.1		286
	9/14/2001	17.7	6.8		237
	9/15/2003	23.4	7.1		182
SW-DRP-10	11/2/2000	12.6	6.9		306
	9/13/2001	21.9	7.6		214
	9/13/2001	21.4	7.2		215
	9/15/2003	23.5	7.1		154
SW-DRP-11	11/2/2000	16.5	6.4		559
	9/13/2001	20.4	6.4		343
	9/24/2002	23.6	6.3		527
	9/15/2003	25.4	6.8		357
	8/23/2004	15.7	7.9		276
	4/1/2010	14.0	7.3		104
	11/3/2011	13.5	9.1	12.2	58
shallow - 1'	11/21/2012	9.2	11.0	8.2	27
deep - 9'	11/21/2012	10.3	9.3	8.3	26
shallow - 1'	12/16/2013	5.6	8.5	9.7	1
deep - 12'	12/16/2013	5.4	8.7	9.2	34
shallow - 1'	12/15/2014	7.5	8.9	16.4	164
deep - 11.6'	12/15/2014	9.3	8.8	16.9	198
shallow - 1'	10/22/2015	18.4	7.9	5.6	0
deep - 11.7'	10/22/2015	18.0	7.6	6.0	0
shallow - 1'	11/21/2016	11.0	8.2	7.0	362
deep - 12'	11/21/2016	11.2	8.2	2.7	398
shallow - 1'	10/13/2017	23.0	7.7	16.4	357
deep - 12.5'	10/13/2017	21.9	7.9	16.7	342
shallow - 1'	11/7/2018	17.9	8.7	6.4	87
deep - 11.5'	11/7/2018	17.8	8.9	6.7	167
shallow - 1'	9/18/2019	26.8	8.3		230
deep - 5'	9/18/2019	28.6	7.7		224
shallow - 1'	10/22/2020	23.9	8.1	6.3	195
deep - 10'	10/22/2020	23.0	7.5	4.3	149
shallow - 1'	10/21/2021	20.0	6.4	0.7	223
deep - 6.5'	10/21/2021	18.9	6.3	0.7	190
SWT-40	9/13/2001	21.9	7.0		219
	9/13/2001	22.0	7.0		219
	9/13/2001	21.8	7.0		217
SWT-50	9/13/2001	21.0	7.5		217
	9/13/2001	22.1	7.0		216
	9/13/2001	21.6	7.0		216
SWT-70	9/13/2001	22.0	7.1		216
	9/13/2001	20.8	7.2		216
RCP-1	11/2/2000	15.3	6.6		277
RCP-2	11/2/2000	15.4	6.6		248

TABLE 5
MONITORING WELL LATITUDE/LONGITUDE, DEPTHS AND ELEVATIONS *
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Facility Name	Seaboard Chemical/Riverdale Drive Landfill							
EPA ID Number	NCD 071 574 164							
Well ID	Type	Well Use	Northing	Easting	Reference	Source of Information	TOC Elevation	Well Depth
MW-1	well	monitoring	801318.45	1729231.88	state plane coord	Jamestown Engineering	790.46	57.7
MW-3C	well	monitoring	801265.20	1731350.08	state plane coord	Jamestown Engineering	692.74	57
MW-6	well	monitoring	799702.65	1731990.93	state plane coord	Jamestown Engineering	761.47	110
MW-10	well	monitoring	800464.20	1732378.92	state plane coord	Jamestown Engineering	695.01	28
MW-12A	well	monitoring	801788.63	1730912.94	state plane coord	Jamestown Engineering	693.07	20
MW-12B	well	monitoring	801780.30	1730911.77	state plane coord	Jamestown Engineering	693.86	58
MW-12D	well	monitoring	801770.20	1730908.12	state plane coord	Jamestown Engineering	694.21	202
MW-15A	well	monitoring	800903.23	1730181.46	state plane coord	Jamestown Engineering	764.33	34
OW-DR2	well	monitoring	801266.66	1731357.68	state plane coord	Jamestown Engineering	695.87	186
OW-DR3	well	monitoring	801185.56	1731735.15	state plane coord	Jamestown Engineering	702.93	160
OW-LFS-2	well	monitoring	800674.15	1732093.91	state plane coord	Jamestown Engineering	699.45	50
PW-3D	well	monitoring	800603.04	1730831.13	state plane coord	Jamestown Engineering	738.60	209.5
PW-4I	well	monitoring	800545.88	1731099.56	state plane coord	Jamestown Engineering	735.00 **	122
PW-5D	well	monitoring	801164.35	1731363.53	state plane coord	Jamestown Engineering	696.27	306.5
PW-6D	well	monitoring	801425.12	1732032.71	state plane coord	Jamestown Engineering	696.79	275
PW-6I	well	monitoring	801415.38	1732022.44	state plane coord	Jamestown Engineering	697.41	75
PW-10D	well	monitoring	800446.73	1732384.15	state plane coord	Jamestown Engineering	697.26	200
PW-10I	well	monitoring	800456.28	1732373.34	state plane coord	Jamestown Engineering	695.97	100
PW-12I	well	monitoring	799844.10	1730816.38	state plane coord	Jamestown Engineering	749.48	105
PW-13I	well	monitoring	801310.27	1730977.69	state plane coord	Jamestown Engineering	739.01	250
PW-14D	well	monitoring	801653.66	1731389.41	state plane coord	Jamestown Engineering	686.50 *	198.8
PW-15D	well	monitoring	801544.36	1731748.91	state plane coord	Jamestown Engineering	685.80	163.5
PW-16D	well	monitoring	801711.36	1732067.64	state plane coord	Jamestown Engineering	686.68	179
W-4A	well	monitoring	800667.98	1730625.66	state plane coord	Jamestown Engineering	712.64	38.5

* Elevation corrected for repairs performed on PW-14D during October 2015 monitoring event.

** Elevation corrected for repairs performed on PW-4I during November 2016 monitoring event.

APPENDIX A

Laboratory Report



ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515

Monday, November 22, 2021

Babb & Associates (BA024)

Attn: Gary Babb

5506 Bradford Pear Court

Raleigh, NC 27606

RE: Laboratory Results for

Project Number: [none], Project Name/Desc: Seaboard/Riverdale Landfill

ENCO Workorder(s): CE13949

Dear Gary Babb,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, October 29, 2021.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative if applicable. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Bill Scott

Project Manager

Enclosure(s)

PROJECT NARRATIVE

Client: Babb & Associates (BA024)
Project: Seaboard/Riverdale Landfill
Lab ID: CE13949-Rev

Overview

This report is an amendment to the original report dated 111221 for this work order. This report was revised to correct sample ID CE13949-18 from MW-1 to MW-12I.

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

No Comments

Quality Control Remarks

No Comments

Other Comments

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:
Environmental Conservation Laboratories, Inc.

Bill Scott
Project Manager

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4401-MW1		Lab ID: CE13949-01	Sampled: 10/26/21 08:30		Received: 10/29/21 10:45
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/09/21	11/02/21	11:26	11/02/21 18:19
EPA 8260D	EPA 5030B_MS	11/09/21	11/04/21	18:41	11/05/21 13:23
Client ID: 4401-MW3C		Lab ID: CE13949-02	Sampled: 10/26/21 09:30		Received: 10/29/21 10:45
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/09/21	11/02/21	11:26	11/02/21 18:45
EPA 8260D	EPA 5030B_MS	11/09/21	11/04/21	18:41	11/05/21 13:53
Client ID: 4401-MW3C		Lab ID: CE13949-02RE2	Sampled: 10/26/21 09:30		Received: 10/29/21 10:45
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/09/21	11/09/21	16:12	11/09/21 22:25
Client ID: 4401-MW6		Lab ID: CE13949-03	Sampled: 10/28/21 12:50		Received: 10/29/21 10:45
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/11/21	11/02/21	11:26	11/02/21 19:11
EPA 8260D	EPA 5030B_MS	11/11/21	11/09/21	16:12	11/10/21 01:12
Client ID: 4401-MW10		Lab ID: CE13949-04	Sampled: 10/26/21 10:20		Received: 10/29/21 10:45
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/09/21	11/02/21	11:26	11/02/21 19:36
EPA 8260D	EPA 5030B_MS	11/09/21	11/04/21	18:41	11/05/21 14:22
Client ID: 4401-MW12A		Lab ID: CE13949-05	Sampled: 10/26/21 13:10		Received: 10/29/21 10:45
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/09/21	11/02/21	11:26	11/02/21 20:02
EPA 8260D	EPA 5030B_MS	11/09/21	11/04/21	18:41	11/05/21 14:52
Client ID: 4401-MW12B		Lab ID: CE13949-06	Sampled: 10/26/21 14:10		Received: 10/29/21 10:45
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/09/21	11/02/21	11:26	11/02/21 20:28
EPA 8260D	EPA 5030B_MS	11/09/21	11/04/21	18:41	11/05/21 15:21
Client ID: 4401-MW12D		Lab ID: CE13949-07	Sampled: 10/26/21 14:40		Received: 10/29/21 10:45
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/09/21	11/02/21	11:26	11/02/21 20:53
EPA 8260D	EPA 5030B_MS	11/09/21	11/04/21	18:41	11/05/21 15:51
Client ID: 4401-MW15A		Lab ID: CE13949-08	Sampled: 10/28/21 08:25		Received: 10/29/21 10:45
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/11/21	11/02/21	13:32	11/03/21 02:01
Client ID: 4401-MW15A		Lab ID: CE13949-08RE1	Sampled: 10/28/21 08:25		Received: 10/29/21 10:45
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/11/21	11/10/21	13:59	11/11/21 03:17
Client ID: 4401-OWDR2		Lab ID: CE13949-09	Sampled: 10/28/21 09:45		Received: 10/29/21 10:45
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/11/21	11/02/21	13:32	11/03/21 02:26
EPA 8260D	EPA 5030B_MS	11/11/21	11/09/21	16:12	11/10/21 02:08
Client ID: 4401-OWLFS2		Lab ID: CE13949-10	Sampled: 10/28/21 12:15		Received: 10/29/21 10:45
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/11/21	11/02/21	13:32	11/03/21 02:52
EPA 8260D	EPA 5030B_MS	11/11/21	11/09/21	16:12	11/10/21 02:35

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4401-PW3D		Lab ID: CE13949-11		Sampled: 10/27/21 14:15		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/10/21	11/02/21 13:32		11/03/21 03:18		
EPA 8260D	EPA 5030B_MS	11/10/21	11/05/21 17:42		11/06/21 18:40		
Client ID: 4401-PW3D		Lab ID: CE13949-11RE1		Sampled: 10/27/21 14:15		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/10/21	11/09/21 16:12		11/10/21 00:44		
Client ID: 4401-PW5D		Lab ID: CE13949-12		Sampled: 10/28/21 10:40		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/11/21	11/02/21 13:32		11/03/21 03:44		
EPA 8260D	EPA 5030B_MS	11/11/21	11/09/21 16:12		11/10/21 03:03		
Client ID: 4401-PW4I		Lab ID: CE13949-13		Sampled: 10/27/21 15:05		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/10/21	11/02/21 13:32		11/03/21 04:09		
EPA 8260D	EPA 5030B_MS	11/10/21	11/05/21 17:42		11/06/21 19:09		
Client ID: 4401-PW4I		Lab ID: CE13949-13RE1		Sampled: 10/27/21 15:05		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/10/21	11/09/21 16:12		11/10/21 00:16		
Client ID: 4401-PW6I		Lab ID: CE13949-14		Sampled: 10/28/21 11:45		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/11/21	11/02/21 13:32		11/03/21 04:35		
EPA 8260D	EPA 5030B_MS	11/11/21	11/09/21 16:12		11/10/21 03:31		
Client ID: 4401-PW6D		Lab ID: CE13949-15		Sampled: 10/28/21 11:15		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/11/21	11/02/21 13:32		11/03/21 05:01		
EPA 8260D	EPA 5030B_MS	11/11/21	11/09/21 16:12		11/10/21 03:59		
Client ID: 4401-PW10I		Lab ID: CE13949-16		Sampled: 10/26/21 12:00		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/09/21	11/02/21 13:32		11/03/21 05:26		
EPA 8260D	EPA 5030B_MS	11/09/21	11/04/21 18:41		11/05/21 16:20		
Client ID: 4401-PW10D		Lab ID: CE13949-17		Sampled: 10/26/21 11:10		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/09/21	11/02/21 13:32		11/03/21 01:35		
EPA 8260D	EPA 5030B_MS	11/09/21	11/04/21 18:41		11/05/21 16:49		
Client ID: 4401-MW12I		Lab ID: CE13949-18		Sampled: 10/28/21 13:25		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/11/21	11/02/21 13:32		11/03/21 05:52		
EPA 8260D	EPA 5030B_MS	11/11/21	11/09/21 16:12		11/10/21 04:27		
Client ID: 4401-PW13I		Lab ID: CE13949-19		Sampled: 10/28/21 09:00		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/11/21	11/02/21 13:32		11/03/21 06:18		
EPA 8260D	EPA 5030B_MS	11/11/21	11/09/21 16:12		11/10/21 04:55		
Client ID: 4401-PW14D		Lab ID: CE13949-20		Sampled: 10/27/21 11:00		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/10/21	11/02/21 13:32		11/03/21 06:43		
EPA 8260D	EPA 5030B_MS	11/10/21	11/03/21 16:23		11/03/21 22:24		

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4401-PW15D		Lab ID: CE13949-21		Sampled: 10/27/21 10:20		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/10/21	11/02/21 13:32		11/03/21 07:09		
EPA 8260D	EPA 5030B_MS	11/10/21	11/03/21 16:23		11/03/21 22:53		
Client ID: 4401-PW15D		Lab ID: CE13949-21RE1		Sampled: 10/27/21 10:20		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/10/21	11/05/21 17:42		11/06/21 17:12		
Client ID: 4401-PW16D		Lab ID: CE13949-22		Sampled: 10/27/21 09:10		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/10/21	11/02/21 13:32		11/03/21 07:35		
EPA 8260D	EPA 5030B_MS	11/10/21	11/03/21 16:23		11/03/21 23:22		
Client ID: 4401-PW16D		Lab ID: CE13949-22RE1		Sampled: 10/27/21 09:10		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/10/21	11/05/21 17:42		11/06/21 17:42		
Client ID: 4401-PWSF1		Lab ID: CE13949-23		Sampled: 10/27/21 13:05		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/10/21	11/02/21 13:32		11/03/21 08:00		
EPA 8260D	EPA 5030B_MS	11/10/21	11/05/21 17:42		11/06/21 19:38		
Client ID: 4401-W4A		Lab ID: CE13949-24		Sampled: 10/27/21 12:35		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/10/21	11/02/21 13:32		11/03/21 08:27		
EPA 8260D	EPA 5030B_MS	11/10/21	11/08/21 17:00		11/08/21 20:29		
Client ID: 4401-TripBlank		Lab ID: CE13949-25		Sampled: 10/26/21 08:30		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/09/21	11/02/21 13:32		11/03/21 08:53		
EPA 8260D	EPA 5030B_MS	11/09/21	11/04/21 18:41		11/05/21 11:55		
Client ID: 4401-TripBlank		Lab ID: CE13949-26		Sampled: 10/26/21 08:30		Received: 10/29/21 10:45	
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8260D	EPA 5030B_MS	11/09/21	11/02/21 13:32		11/03/21 09:18		
EPA 8260D	EPA 5030B MS	11/09/21	11/04/21 18:41		11/05/21 12:24		

SAMPLE DETECTION SUMMARY

Client ID: 4401-MW3C		Lab ID: CE13949-02					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	37		0.13	1.0	ug/L	EPA 8260D	
1,2-Dichloroethane	1.4		0.21	1.0	ug/L	EPA 8260D	
1,4-Dioxane	67		0.80	2.0	ug/L	EPA 8260D	
Benzene	0.93	J	0.15	1.0	ug/L	EPA 8260D	
Chlorobenzene	36		0.17	1.0	ug/L	EPA 8260D	
Chloroethane	2.8		0.23	1.0	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	9.8		0.15	1.0	ug/L	EPA 8260D	
trans-1,2-Dichloroethene	0.53	J	0.21	1.0	ug/L	EPA 8260D	
Vinyl chloride	21		0.32	1.0	ug/L	EPA 8260D	
Client ID: 4401-MW3C		Lab ID: CE13949-02RE2					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	2.0		0.21	1.0	ug/L	EPA 8260D	
Client ID: 4401-MW6		Lab ID: CE13949-03					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	7.2		0.13	1.0	ug/L	EPA 8260D	
1,4-Dichlorobenzene	1.7		0.19	1.0	ug/L	EPA 8260D	
1,4-Dioxane	24		0.80	2.0	ug/L	EPA 8260D	
Benzene	0.63	J	0.15	1.0	ug/L	EPA 8260D	
Chlorobenzene	3.2		0.17	1.0	ug/L	EPA 8260D	
Chloroethane	1.8		0.23	1.0	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	8.8		0.15	1.0	ug/L	EPA 8260D	
Tetrachloroethene	0.85	J	0.17	1.0	ug/L	EPA 8260D	
trans-1,2-Dichloroethene	0.41	J	0.21	1.0	ug/L	EPA 8260D	
Trichloroethene	2.0		0.15	1.0	ug/L	EPA 8260D	
Vinyl chloride	2.2		0.32	1.0	ug/L	EPA 8260D	
Client ID: 4401-MW10		Lab ID: CE13949-04					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dioxane	6.6		0.80	2.0	ug/L	EPA 8260D	
Client ID: 4401-MW12A		Lab ID: CE13949-05					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dichlorobenzene	1.7		0.19	1.0	ug/L	EPA 8260D	
1,4-Dioxane	180	D	4.0	10	ug/L	EPA 8260D	
Chlorobenzene	5.8		0.17	1.0	ug/L	EPA 8260D	
Client ID: 4401-MW12B		Lab ID: CE13949-06					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dichlorobenzene	2.2		0.19	1.0	ug/L	EPA 8260D	
1,4-Dioxane	110	D	4.0	10	ug/L	EPA 8260D	
Chlorobenzene	7.7		0.17	1.0	ug/L	EPA 8260D	
Client ID: 4401-MW12D		Lab ID: CE13949-07					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dioxane	2.9		0.80	2.0	ug/L	EPA 8260D	
Client ID: 4401-MW15A		Lab ID: CE13949-08					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dioxane	1200	D	80	200	ug/L	EPA 8260D	
Client ID: 4401-MW15A		Lab ID: CE13949-08RE1					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,2-Dichlorobenzene	0.68	J	0.19	1.0	ug/L	EPA 8260D	
1,4-Dichlorobenzene	1.9		0.19	1.0	ug/L	EPA 8260D	
Chlorobenzene	60		0.17	1.0	ug/L	EPA 8260D	

SAMPLE DETECTION SUMMARY

Client ID: 4401-OWDR2

Lab ID: CE13949-09

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1,1-Trichloroethane	5.2	D	0.60	5.0	ug/L	EPA 8260D	
1,1-Dichloroethane	130	D	0.65	5.0	ug/L	EPA 8260D	
1,1-Dichloroethene	54	D	1.0	5.0	ug/L	EPA 8260D	
1,2-Dichloroethane	6.0	D	1.0	5.0	ug/L	EPA 8260D	
1,4-Dioxane	250	D	20	50	ug/L	EPA 8260D	
Chlorobenzene	36	D	0.85	5.0	ug/L	EPA 8260D	
Chloroethane	11	D	1.2	5.0	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	230	D	0.75	5.0	ug/L	EPA 8260D	
Vinyl chloride	20	D	1.6	5.0	ug/L	EPA 8260D	

Client ID: 4401-OWLFS2

Lab ID: CE13949-10

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	0.79	J	0.13	1.0	ug/L	EPA 8260D	
1,4-Dioxane	270	D	8.0	20	ug/L	EPA 8260D	
Benzene	7.0		0.15	1.0	ug/L	EPA 8260D	
Chlorobenzene	3.8		0.17	1.0	ug/L	EPA 8260D	
Chloroethane	1.3		0.23	1.0	ug/L	EPA 8260D	
Vinyl chloride	1.4		0.32	1.0	ug/L	EPA 8260D	

Client ID: 4401-PW3D

Lab ID: CE13949-11

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1,1-Trichloroethane	890	D	60	500	ug/L	EPA 8260D	
1,1-Dichloroethane	660	D	65	500	ug/L	EPA 8260D	
1,1-Dichloroethene	1500	D	100	500	ug/L	EPA 8260D	
1,2-Dichloroethane	17000	D	100	500	ug/L	EPA 8260D	
1,4-Dioxane	160	D	4.0	10	ug/L	EPA 8260D	
Benzene	280	JD	75	500	ug/L	EPA 8260D	
Chlorobenzene	18000	D	85	500	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	380	JD	75	500	ug/L	EPA 8260D	
Methylene chloride	1800	D	120	500	ug/L	EPA 8260D	
Tetrachloroethene	1200	D	85	500	ug/L	EPA 8260D	
Toluene	670	D	70	500	ug/L	EPA 8260D	

Client ID: 4401-PW3D

Lab ID: CE13949-11RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Trichloroethene	4200	D	75	500	ug/L	EPA 8260D	

Client ID: 4401-PW5D

Lab ID: CE13949-12

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1,1-Trichloroethane	7.6	JD	1.2	10	ug/L	EPA 8260D	
1,1-Dichloroethane	200	D	1.3	10	ug/L	EPA 8260D	
1,1-Dichloroethene	4.3	JD	2.1	10	ug/L	EPA 8260D	
1,2-Dichloroethane	15	D	2.1	10	ug/L	EPA 8260D	
1,4-Dioxane	400	D	40	100	ug/L	EPA 8260D	
Benzene	5.4	JD	1.5	10	ug/L	EPA 8260D	
Chlorobenzene	180	D	1.7	10	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	12	D	1.5	10	ug/L	EPA 8260D	
Vinyl chloride	9.5	JD	3.2	10	ug/L	EPA 8260D	

SAMPLE DETECTION SUMMARY

Client ID: 4401-PW4I

Lab ID: CE13949-13

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1,1-Trichloroethane	26	D	0.60	5.0	ug/L	EPA 8260D	
1,1-Dichloroethane	43	D	0.65	5.0	ug/L	EPA 8260D	
1,1-Dichloroethene	32	D	1.0	5.0	ug/L	EPA 8260D	
1,2-Dichloroethane	22	D	1.0	5.0	ug/L	EPA 8260D	
1,4-Dichlorobenzene	2.6	JD	0.95	5.0	ug/L	EPA 8260D	
1,4-Dioxane	180	D	8.0	20	ug/L	EPA 8260D	
Benzene	2.1	JD	0.75	5.0	ug/L	EPA 8260D	
Chlorobenzene	60	D	0.85	5.0	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	170	D	0.75	5.0	ug/L	EPA 8260D	
Methylene chloride	2.2	JD	1.2	5.0	ug/L	EPA 8260D	
Tetrachloroethene	12	D	0.85	5.0	ug/L	EPA 8260D	
Vinyl chloride	33	D	1.6	5.0	ug/L	EPA 8260D	

Client ID: 4401-PW4I

Lab ID: CE13949-13RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Trichloroethene	41	D	0.75	5.0	ug/L	EPA 8260D	

Client ID: 4401-PW6I

Lab ID: CE13949-14

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	11		0.13	1.0	ug/L	EPA 8260D	
1,1-Dichloroethene	0.74	J	0.21	1.0	ug/L	EPA 8260D	
1,2-Dichloroethane	2.1		0.21	1.0	ug/L	EPA 8260D	
1,4-Dichlorobenzene	2.0		0.19	1.0	ug/L	EPA 8260D	
1,4-Dioxane	69		0.80	2.0	ug/L	EPA 8260D	
Benzene	0.62	J	0.15	1.0	ug/L	EPA 8260D	
Chlorobenzene	9.6		0.17	1.0	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	18		0.15	1.0	ug/L	EPA 8260D	
Tetrachloroethene	0.50	J	0.17	1.0	ug/L	EPA 8260D	
Vinyl chloride	3.2		0.32	1.0	ug/L	EPA 8260D	

Client ID: 4401-PW6D

Lab ID: CE13949-15

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1,1-Trichloroethane	3.4	JD	0.60	5.0	ug/L	EPA 8260D	
1,1-Dichloroethane	110	D	0.65	5.0	ug/L	EPA 8260D	
1,1-Dichloroethene	38	D	1.0	5.0	ug/L	EPA 8260D	
1,2-Dichloroethane	5.3	D	1.0	5.0	ug/L	EPA 8260D	
1,4-Dioxane	190	D	8.0	20	ug/L	EPA 8260D	
Benzene	2.2	JD	0.75	5.0	ug/L	EPA 8260D	
Chlorobenzene	93	D	0.85	5.0	ug/L	EPA 8260D	
Chloroethane	5.6	D	1.2	5.0	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	150	D	0.75	5.0	ug/L	EPA 8260D	
Vinyl chloride	22	D	1.6	5.0	ug/L	EPA 8260D	

Client ID: 4401-PW10I

Lab ID: CE13949-16

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	7.0		0.13	1.0	ug/L	EPA 8260D	
1,4-Dichlorobenzene	1.7		0.19	1.0	ug/L	EPA 8260D	
1,4-Dioxane	310	D	8.0	20	ug/L	EPA 8260D	
Benzene	1.2		0.15	1.0	ug/L	EPA 8260D	
Chlorobenzene	2.2		0.17	1.0	ug/L	EPA 8260D	
Chloroethane	2.9		0.23	1.0	ug/L	EPA 8260D	
Vinyl chloride	1.9		0.32	1.0	ug/L	EPA 8260D	

SAMPLE DETECTION SUMMARY

Client ID: 4401-PW13I		Lab ID: CE13949-19					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	87		0.13	1.0	ug/L	EPA 8260D	
1,2-Dichloroethane	1.2		0.21	1.0	ug/L	EPA 8260D	
1,4-Dichlorobenzene	0.74	J	0.19	1.0	ug/L	EPA 8260D	
1,4-Dioxane	70		0.80	2.0	ug/L	EPA 8260D	
Benzene	2.3		0.15	1.0	ug/L	EPA 8260D	
Chlorobenzene	9.4		0.17	1.0	ug/L	EPA 8260D	
Chloroethane	1.2		0.23	1.0	ug/L	EPA 8260D	
Toluene	0.53	J	0.14	1.0	ug/L	EPA 8260D	
Vinyl chloride	0.94	J	0.32	1.0	ug/L	EPA 8260D	
Client ID: 4401-PW14D		Lab ID: CE13949-20					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chlorobenzene	0.80	J	0.17	1.0	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	0.76	J	0.15	1.0	ug/L	EPA 8260D	
Ethylbenzene	0.67	J	0.13	1.0	ug/L	EPA 8260D	
m,p-Xylenes	2.8		0.17	2.0	ug/L	EPA 8260D	
o-Xylene	1.4		0.065	1.0	ug/L	EPA 8260D	
Toluene	1.7		0.14	1.0	ug/L	EPA 8260D	
Xylenes (Total)	4.2		0.45	3.0	ug/L	EPA 8260D	
Client ID: 4401-PW15D		Lab ID: CE13949-21					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	18		0.13	1.0	ug/L	EPA 8260D	
1,2-Dichloroethane	0.53	J	0.21	1.0	ug/L	EPA 8260D	
1,4-Dioxane	53		0.80	2.0	ug/L	EPA 8260D	
Chlorobenzene	2.0		0.17	1.0	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	27		0.15	1.0	ug/L	EPA 8260D	
Vinyl chloride	1.1		0.32	1.0	ug/L	EPA 8260D	
Client ID: 4401-PW15D		Lab ID: CE13949-21RE1					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	5.2		0.21	1.0	ug/L	EPA 8260D	
Client ID: 4401-PW16D		Lab ID: CE13949-22					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	20		0.13	1.0	ug/L	EPA 8260D	
1,4-Dioxane	23		0.80	2.0	ug/L	EPA 8260D	
Chlorobenzene	40		0.17	1.0	ug/L	EPA 8260D	
Chloroethane	1.5		0.23	1.0	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	32		0.15	1.0	ug/L	EPA 8260D	
Vinyl chloride	3.6		0.32	1.0	ug/L	EPA 8260D	
Client ID: 4401-PW16D		Lab ID: CE13949-22RE1					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	7.1		0.21	1.0	ug/L	EPA 8260D	
Client ID: 4401-PWSF1		Lab ID: CE13949-23					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1,1-Trichloroethane	3300	D	60	500	ug/L	EPA 8260D	
1,1-Dichloroethane	6200	D	65	500	ug/L	EPA 8260D	
1,1-Dichloroethene	5300	D	100	500	ug/L	EPA 8260D	
1,4-Dioxane	2300	D	80	200	ug/L	EPA 8260D	
Chlorobenzene	2100	D	85	500	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	38000	D	75	500	ug/L	EPA 8260D	
Methylene chloride	260	JD	120	500	ug/L	EPA 8260D	
Toluene	720	D	70	500	ug/L	EPA 8260D	
Trichlorofluoromethane	400	JD	120	500	ug/L	EPA 8260D	
Vinyl chloride	3200	D	160	500	ug/L	EPA 8260D	

SAMPLE DETECTION SUMMARY

Client ID: 4401-W4A

Lab ID: CE13949-24

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1,1-Trichloroethane	24	D	0.60	5.0	ug/L	EPA 8260D	
1,1-Dichloroethane	110	D	0.65	5.0	ug/L	EPA 8260D	
1,1-Dichloroethene	43	D	1.0	5.0	ug/L	EPA 8260D	
1,2-Dichloroethane	2.8	JD	1.0	5.0	ug/L	EPA 8260D	
1,4-Dioxane	54		0.80	2.0	ug/L	EPA 8260D	
Benzene	6.6	D	0.75	5.0	ug/L	EPA 8260D	
Chloroethane	4.6	JD	1.2	5.0	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	170	D	0.75	5.0	ug/L	EPA 8260D	
Vinyl chloride	98	D	1.6	5.0	ug/L	EPA 8260D	

ANALYTICAL RESULTS

Description: 4401-MW1

Lab Sample ID: CE13949-01

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 08:30

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	QV-01
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	QV-01
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-MW1

Lab Sample ID: CE13949-01

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 08:30

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K04051	EPA 8260D	11/05/21 13:23	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	49	1	50.0	98 %	53-136	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Dibromofluoromethane	50	1	50.0	100 %	67-129	1K04051	EPA 8260D	11/05/21 13:23	RKY	
Toluene-d8	48	1	50.0	96 %	59-134	1K04051	EPA 8260D	11/05/21 13:23	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	0.80	U	ug/L	1	0.80	2.0	1K02027	EPA 8260D	11/02/21 18:19	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.3	1	5.00	107 %	75-125	1K02027	EPA 8260D	11/02/21 18:19	KKW	

ANALYTICAL RESULTS

Description: 4401-MW3C

Lab Sample ID: CE13949-02

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 09:30

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	QV-01
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
1,1-Dichloroethane [75-34-3]^	37		ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
1,1-Dichloroethene [75-35-4]^	2.0		ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/09/21 22:25	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
1,2-Dichloroethane [107-06-2]^	1.4		ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Benzene [71-43-2]^	0.93	J	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Chlorobenzene [108-90-7]^	36		ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Chloroethane [75-00-3]^	2.8		ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
cis-1,2-Dichloroethene [156-59-2]^	9.8		ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.53	J	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-MW3C

Lab Sample ID: CE13949-02

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 09:30

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	21		ug/L	1	0.32	1.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K04051	EPA 8260D	11/05/21 13:53	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	50	1	50.0	100 %	53-136	1K04051	EPA 8260D	11/05/21 13:53	RKY	
4-Bromofluorobenzene	60	1	50.0	121 %	53-136	1K09032	EPA 8260D	11/09/21 22:25	RKY	
Dibromofluoromethane	51	1	50.0	102 %	67-129	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Dibromofluoromethane	55	1	50.0	110 %	67-129	1K09032	EPA 8260D	11/09/21 22:25	RKY	
Toluene-d8	49	1	50.0	98 %	59-134	1K04051	EPA 8260D	11/05/21 13:53	RKY	
Toluene-d8	61	1	50.0	121 %	59-134	1K09032	EPA 8260D	11/09/21 22:25	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	67		ug/L	1	0.80	2.0	1K02027	EPA 8260D	11/02/21 18:45	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.2	1	5.00	105 %	75-125	1K02027	EPA 8260D	11/02/21 18:45	KKW	

ANALYTICAL RESULTS

Description: 4401-MW6

Lab Sample ID: CE13949-03

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 12:50

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
1,1-Dichloroethane [75-34-3]^	7.2		ug/L	1	0.13	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
1,4-Dichlorobenzene [106-46-7]^	1.7		ug/L	1	0.19	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Benzene [71-43-2]^	0.63	J	ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Chlorobenzene [108-90-7]^	3.2		ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Chloroethane [75-00-3]^	1.8		ug/L	1	0.23	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
cis-1,2-Dichloroethene [156-59-2]^	8.8		ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Tetrachloroethene [127-18-4]^	0.85	J	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.41	J	ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Trichloroethene [79-01-6]^	2.0		ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-MW6

Lab Sample ID: CE13949-03

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 12:50

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	2.2		ug/L	1	0.32	1.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K09032	EPA 8260D	11/10/21 01:12	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	59	1	50.0	118 %	53-136	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Dibromofluoromethane	55	1	50.0	110 %	67-129	1K09032	EPA 8260D	11/10/21 01:12	RKY	
Toluene-d8	61	1	50.0	121 %	59-134	1K09032	EPA 8260D	11/10/21 01:12	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	24		ug/L	1	0.80	2.0	1K02027	EPA 8260D	11/02/21 19:11	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.0	1	5.00	101 %	75-125	1K02027	EPA 8260D	11/02/21 19:11	KKW	

ANALYTICAL RESULTS

Description: 4401-MW10

Lab Sample ID: CE13949-04

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 10:20

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	QV-01
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	QV-01
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-MW10

Lab Sample ID: CE13949-04

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 10:20

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K04051	EPA 8260D	11/05/21 14:22	RKY	

Surrogates

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	50	1	50.0	100 %	53-136	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Dibromofluoromethane	50	1	50.0	99 %	67-129	1K04051	EPA 8260D	11/05/21 14:22	RKY	
Toluene-d8	49	1	50.0	98 %	59-134	1K04051	EPA 8260D	11/05/21 14:22	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	6.6		ug/L	1	0.80	2.0	1K02027	EPA 8260D	11/02/21 19:36	KKW	

Surrogates

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.5	1	5.00	110 %	75-125	1K02027	EPA 8260D	11/02/21 19:36	KKW	

ANALYTICAL RESULTS

Description: 4401-MW12A

Lab Sample ID: CE13949-05

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 13:10

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	QV-01
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	QV-01
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
1,4-Dichlorobenzene [106-46-7]^	1.7		ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Chlorobenzene [108-90-7]^	5.8		ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-MW12A

Lab Sample ID: CE13949-05

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 13:10

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K04051	EPA 8260D	11/05/21 14:52	RKY	

Surrogates

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	51	1	50.0	102 %	53-136	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Dibromofluoromethane	51	1	50.0	103 %	67-129	1K04051	EPA 8260D	11/05/21 14:52	RKY	
Toluene-d8	49	1	50.0	98 %	59-134	1K04051	EPA 8260D	11/05/21 14:52	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	180	D	ug/L	5	4.0	10	1K02027	EPA 8260D	11/02/21 20:02	KKW	

Surrogates

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.4	1	5.00	108 %	75-125	1K02027	EPA 8260D	11/02/21 20:02	KKW	

ANALYTICAL RESULTS

Description: 4401-MW12B

Lab Sample ID: CE13949-06

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 14:10

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	QV-01
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	QV-01
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
1,4-Dichlorobenzene [106-46-7]^	2.2		ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Chlorobenzene [108-90-7]^	7.7		ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-MW12B

Lab Sample ID: CE13949-06

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 14:10

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K04051	EPA 8260D	11/05/21 15:21	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	50	1	50.0	101 %	53-136	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Dibromofluoromethane	51	1	50.0	103 %	67-129	1K04051	EPA 8260D	11/05/21 15:21	RKY	
Toluene-d8	54	1	50.0	108 %	59-134	1K04051	EPA 8260D	11/05/21 15:21	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	110	D	ug/L	5	4.0	10	1K02027	EPA 8260D	11/02/21 20:28	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.4	1	5.00	108 %	75-125	1K02027	EPA 8260D	11/02/21 20:28	KKW	

ANALYTICAL RESULTS

Description: 4401-MW12D

Lab Sample ID: CE13949-07

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 14:40

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	QV-01
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	QV-01
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-MW12D

Lab Sample ID: CE13949-07

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 14:40

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K04051	EPA 8260D	11/05/21 15:51	RKY	

Surrogates

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	50	1	50.0	99 %	53-136	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Dibromofluoromethane	52	1	50.0	103 %	67-129	1K04051	EPA 8260D	11/05/21 15:51	RKY	
Toluene-d8	50	1	50.0	100 %	59-134	1K04051	EPA 8260D	11/05/21 15:51	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	2.9		ug/L	1	0.80	2.0	1K02027	EPA 8260D	11/02/21 20:53	KKW	

Surrogates

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.4	1	5.00	107 %	75-125	1K02027	EPA 8260D	11/02/21 20:53	KKW	

ANALYTICAL RESULTS

Description: 4401-MW15A

Lab Sample ID: CE13949-08

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 08:25

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.68	J	ug/L	1	0.19	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
1,4-Dichlorobenzene [106-46-7]^	1.9		ug/L	1	0.19	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Chlorobenzene [108-90-7]^	60		ug/L	1	0.17	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-MW15A

Lab Sample ID: CE13949-08

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 08:25

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K10033	EPA 8260D	11/11/21 03:17	RKY	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
4-Bromofluorobenzene	58	1	50.0	116 %	53-136	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Dibromofluoromethane	54	1	50.0	109 %	67-129	1K10033	EPA 8260D	11/11/21 03:17	RKY	
Toluene-d8	60	1	50.0	120 %	59-134	1K10033	EPA 8260D	11/11/21 03:17	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
1,4-Dioxane [123-91-1]^	1200	D	ug/L	100	80	200	1K02042	EPA 8260D	11/03/21 02:01	KKW	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Toluene-d8	5.1	1	5.00	103 %	75-125	1K02042	EPA 8260D	11/03/21 02:01	KKW	

ANALYTICAL RESULTS

Description: 4401-OWDR2

Lab Sample ID: CE13949-09

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 09:45

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.85	UD	ug/L	5	0.85	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
1,1,1-Trichloroethane [71-55-6]^	5.2	D	ug/L	5	0.60	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	1.4	UD	ug/L	5	1.4	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.70	UD	ug/L	5	0.70	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
1,1-Dichloroethane [75-34-3]^	130	D	ug/L	5	0.65	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
1,1-Dichloroethene [75-35-4]^	54	D	ug/L	5	1.0	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
1,2,3-Trichloropropane [96-18-4]^	1.2	UD	ug/L	5	1.2	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	2.4	UD	ug/L	5	2.4	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
1,2-Dibromoethane [106-93-4]^	3.3	UD	ug/L	5	3.3	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.95	UD	ug/L	5	0.95	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
1,2-Dichloroethane [107-06-2]^	6.0	D	ug/L	5	1.0	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
1,2-Dichloropropane [78-87-5]^	0.50	UD	ug/L	5	0.50	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.95	UD	ug/L	5	0.95	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
2-Butanone [78-93-3]^	6.5	UD	ug/L	5	6.5	25	1K09032	EPA 8260D	11/10/21 02:08	RKY	
2-Hexanone [591-78-6]^	4.4	UD	ug/L	5	4.4	25	1K09032	EPA 8260D	11/10/21 02:08	RKY	
4-Methyl-2-pentanone [108-10-1]^	5.5	UD	ug/L	5	5.5	25	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Acetone [67-64-1]^	50	UD	ug/L	5	50	100	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Acrylonitrile [107-13-1]^	18	UD	ug/L	5	18	50	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Benzene [71-43-2]^	0.75	UD	ug/L	5	0.75	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Bromochloromethane [74-97-5]^	2.4	UD	ug/L	5	2.4	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Bromodichloromethane [75-27-4]^	0.85	UD	ug/L	5	0.85	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Bromoform [75-25-2]^	1.1	UD	ug/L	5	1.1	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Bromomethane [74-83-9]^	0.70	UD	ug/L	5	0.70	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Carbon disulfide [75-15-0]^	7.5	UD	ug/L	5	7.5	25	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Carbon tetrachloride [56-23-5]^	0.85	UD	ug/L	5	0.85	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Chlorobenzene [108-90-7]^	36	D	ug/L	5	0.85	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Chloroethane [75-00-3]^	11	D	ug/L	5	1.2	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Chloroform [67-66-3]^	0.90	UD	ug/L	5	0.90	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Chloromethane [74-87-3]^	0.65	UD	ug/L	5	0.65	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
cis-1,2-Dichloroethene [156-59-2]^	230	D	ug/L	5	0.75	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	1.0	UD	ug/L	5	1.0	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Dibromochloromethane [124-48-1]^	0.85	UD	ug/L	5	0.85	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Dibromomethane [74-95-3]^	1.4	UD	ug/L	5	1.4	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Ethylbenzene [100-41-4]^	0.65	UD	ug/L	5	0.65	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Iodomethane [74-88-4]^	8.5	UD	ug/L	5	8.5	25	1K09032	EPA 8260D	11/10/21 02:08	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.85	UD	ug/L	5	0.85	10	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Methylene chloride [75-09-2]^	1.2	UD	ug/L	5	1.2	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
o-Xylene [95-47-6]^	0.32	UD	ug/L	5	0.32	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Styrene [100-42-5]^	0.55	UD	ug/L	5	0.55	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Tetrachloroethene [127-18-4]^	0.85	UD	ug/L	5	0.85	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Toluene [108-88-3]^	0.70	UD	ug/L	5	0.70	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
trans-1,2-Dichloroethene [156-60-5]^	1.0	UD	ug/L	5	1.0	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.75	UD	ug/L	5	0.75	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	3.5	UD	ug/L	5	3.5	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Trichloroethene [79-01-6]^	0.75	UD	ug/L	5	0.75	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Trichlorofluoromethane [75-69-4]^	1.2	UD	ug/L	5	1.2	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Vinyl acetate [108-05-4]^	4.8	UD	ug/L	5	4.8	25	1K09032	EPA 8260D	11/10/21 02:08	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-OWDR2

Lab Sample ID: CE13949-09

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 09:45

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Vinyl chloride [75-01-4]^	20	D	ug/L	5	1.6	5.0	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Xylenes (Total) [1330-20-7]^	2.2	UD	ug/L	5	2.2	15	1K09032	EPA 8260D	11/10/21 02:08	RKY	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
4-Bromofluorobenzene	60	1	50.0	119 %	53-136	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Dibromofluoromethane	55	1	50.0	110 %	67-129	1K09032	EPA 8260D	11/10/21 02:08	RKY	
Toluene-d8	61	1	50.0	122 %	59-134	1K09032	EPA 8260D	11/10/21 02:08	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
1,4-Dioxane [123-91-1]^	250	D	ug/L	25	20	50	1K02042	EPA 8260D	11/03/21 02:26	KKW	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Toluene-d8	5.3	1	5.00	106 %	75-125	1K02042	EPA 8260D	11/03/21 02:26	KKW	

ANALYTICAL RESULTS

Description: 4401-OWLFS2

Lab Sample ID: CE13949-10

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 12:15

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
1,1-Dichloroethane [75-34-3]^	0.79	J	ug/L	1	0.13	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Benzene [71-43-2]^	7.0		ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Chlorobenzene [108-90-7]^	3.8		ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Chloroethane [75-00-3]^	1.3		ug/L	1	0.23	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-OWLFS2

Lab Sample ID: CE13949-10

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 12:15

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Vinyl chloride [75-01-4]^	1.4		ug/L	1	0.32	1.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K09032	EPA 8260D	11/10/21 02:35	RKY	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
4-Bromofluorobenzene	61	1	50.0	122 %	53-136	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Dibromofluoromethane	56	1	50.0	113 %	67-129	1K09032	EPA 8260D	11/10/21 02:35	RKY	
Toluene-d8	62	1	50.0	124 %	59-134	1K09032	EPA 8260D	11/10/21 02:35	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
1,4-Dioxane [123-91-1]^	270	D	ug/L	10	8.0	20	1K02042	EPA 8260D	11/03/21 02:52	KKW	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Toluene-d8	5.4	1	5.00	107 %	75-125	1K02042	EPA 8260D	11/03/21 02:52	KKW	

ANALYTICAL RESULTS

Description: 4401-PW3D

Lab Sample ID: CE13949-11

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/27/21 14:15

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	85	UD	ug/L	500	85	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
1,1,1-Trichloroethane [71-55-6]^	890	D	ug/L	500	60	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	140	UD	ug/L	500	140	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
1,1,2-Trichloroethane [79-00-5]^	70	UD	ug/L	500	70	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
1,1-Dichloroethane [75-34-3]^	660	D	ug/L	500	65	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
1,1-Dichloroethene [75-35-4]^	1500	D	ug/L	500	100	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
1,2,3-Trichloropropane [96-18-4]^	120	UD	ug/L	500	120	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	240	UD	ug/L	500	240	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
1,2-Dibromoethane [106-93-4]^	330	UD	ug/L	500	330	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
1,2-Dichlorobenzene [95-50-1]^	95	UD	ug/L	500	95	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
1,2-Dichloroethane [107-06-2]^	17000	D	ug/L	500	100	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
1,2-Dichloropropane [78-87-5]^	50	UD	ug/L	500	50	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
1,4-Dichlorobenzene [106-46-7]^	95	UD	ug/L	500	95	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
2-Butanone [78-93-3]^	650	UD	ug/L	500	650	2500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
2-Hexanone [591-78-6]^	440	UD	ug/L	500	440	2500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
4-Methyl-2-pentanone [108-10-1]^	550	UD	ug/L	500	550	2500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Acetone [67-64-1]^	5000	UD	ug/L	500	5000	10000	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Acrylonitrile [107-13-1]^	1800	UD	ug/L	500	1800	5000	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Benzene [71-43-2]^	280	JD	ug/L	500	75	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Bromochloromethane [74-97-5]^	240	UD	ug/L	500	240	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	QV-01
Bromodichloromethane [75-27-4]^	85	UD	ug/L	500	85	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Bromoform [75-25-2]^	110	UD	ug/L	500	110	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Bromomethane [74-83-9]^	70	UD	ug/L	500	70	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Carbon disulfide [75-15-0]^	750	UD	ug/L	500	750	2500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Carbon tetrachloride [56-23-5]^	85	UD	ug/L	500	85	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	QV-01
Chlorobenzene [108-90-7]^	18000	D	ug/L	500	85	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Chloroethane [75-00-3]^	120	UD	ug/L	500	120	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Chloroform [67-66-3]^	90	UD	ug/L	500	90	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Chloromethane [74-87-3]^	65	UD	ug/L	500	65	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
cis-1,2-Dichloroethene [156-59-2]^	380	JD	ug/L	500	75	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	100	UD	ug/L	500	100	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Dibromochloromethane [124-48-1]^	85	UD	ug/L	500	85	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Dibromomethane [74-95-3]^	140	UD	ug/L	500	140	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Ethylbenzene [100-41-4]^	65	UD	ug/L	500	65	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Iodomethane [74-88-4]^	850	UD	ug/L	500	850	2500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	85	UD	ug/L	500	85	1000	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Methylene chloride [75-09-2]^	1800	D	ug/L	500	120	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
o-Xylene [95-47-6]^	32	UD	ug/L	500	32	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Styrene [100-42-5]^	55	UD	ug/L	500	55	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Tetrachloroethene [127-18-4]^	1200	D	ug/L	500	85	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Toluene [108-88-3]^	670	D	ug/L	500	70	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
trans-1,2-Dichloroethene [156-60-5]^	100	UD	ug/L	500	100	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	75	UD	ug/L	500	75	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	350	UD	ug/L	500	350	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Trichloroethene [79-01-6]^	4200	D	ug/L	500	75	500	1K09032	EPA 8260D	11/10/21 00:44	RKY	
Trichlorofluoromethane [75-69-4]^	120	UD	ug/L	500	120	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Vinyl acetate [108-05-4]^	480	UD	ug/L	500	480	2500	1K05042	EPA 8260D	11/06/21 18:40	RKY	

ANALYTICAL RESULTS

Description: 4401-PW3D

Lab Sample ID: CE13949-11

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/27/21 14:15

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	160	UD	ug/L	500	160	500	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Xylenes (Total) [1330-20-7]^	220	UD	ug/L	500	220	1500	1K05042	EPA 8260D	11/06/21 18:40	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	50	1	50.0	99 %	53-136	1K05042	EPA 8260D	11/06/21 18:40	RKY	
4-Bromofluorobenzene	59	1	50.0	118 %	53-136	1K09032	EPA 8260D	11/10/21 00:44	RKY	
Dibromofluoromethane	48	1	50.0	96 %	67-129	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Dibromofluoromethane	54	1	50.0	108 %	67-129	1K09032	EPA 8260D	11/10/21 00:44	RKY	
Toluene-d8	49	1	50.0	98 %	59-134	1K05042	EPA 8260D	11/06/21 18:40	RKY	
Toluene-d8	60	1	50.0	119 %	59-134	1K09032	EPA 8260D	11/10/21 00:44	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	160	D	ug/L	5	4.0	10	1K02042	EPA 8260D	11/03/21 03:18	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	6.1	1	5.00	121 %	75-125	1K02042	EPA 8260D	11/03/21 03:18	KKW	

ANALYTICAL RESULTS

Description: 4401-PW5D

Lab Sample ID: CE13949-12

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 10:40

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	1.7	UD	ug/L	10	1.7	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
1,1,1-Trichloroethane [71-55-6]^	7.6	JD	ug/L	10	1.2	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	2.8	UD	ug/L	10	2.8	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
1,1,2-Trichloroethane [79-00-5]^	1.4	UD	ug/L	10	1.4	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
1,1-Dichloroethane [75-34-3]^	200	D	ug/L	10	1.3	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
1,1-Dichloroethene [75-35-4]^	4.3	JD	ug/L	10	2.1	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
1,2,3-Trichloropropane [96-18-4]^	2.3	UD	ug/L	10	2.3	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	4.8	UD	ug/L	10	4.8	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
1,2-Dibromoethane [106-93-4]^	6.6	UD	ug/L	10	6.6	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
1,2-Dichlorobenzene [95-50-1]^	1.9	UD	ug/L	10	1.9	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
1,2-Dichloroethane [107-06-2]^	15	D	ug/L	10	2.1	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
1,2-Dichloropropane [78-87-5]^	1.0	UD	ug/L	10	1.0	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
1,4-Dichlorobenzene [106-46-7]^	1.9	UD	ug/L	10	1.9	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
2-Butanone [78-93-3]^	13	UD	ug/L	10	13	50	1K09032	EPA 8260D	11/10/21 03:03	RKY	
2-Hexanone [591-78-6]^	8.8	UD	ug/L	10	8.8	50	1K09032	EPA 8260D	11/10/21 03:03	RKY	
4-Methyl-2-pentanone [108-10-1]^	11	UD	ug/L	10	11	50	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Acetone [67-64-1]^	100	UD	ug/L	10	100	200	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Acrylonitrile [107-13-1]^	35	UD	ug/L	10	35	100	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Benzene [71-43-2]^	5.4	JD	ug/L	10	1.5	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Bromochloromethane [74-97-5]^	4.8	UD	ug/L	10	4.8	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Bromodichloromethane [75-27-4]^	1.7	UD	ug/L	10	1.7	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Bromoform [75-25-2]^	2.2	UD	ug/L	10	2.2	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Bromomethane [74-83-9]^	1.4	UD	ug/L	10	1.4	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Carbon disulfide [75-15-0]^	15	UD	ug/L	10	15	50	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Carbon tetrachloride [56-23-5]^	1.7	UD	ug/L	10	1.7	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Chlorobenzene [108-90-7]^	180	D	ug/L	10	1.7	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Chloroethane [75-00-3]^	2.3	UD	ug/L	10	2.3	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Chloroform [67-66-3]^	1.8	UD	ug/L	10	1.8	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Chloromethane [74-87-3]^	1.3	UD	ug/L	10	1.3	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
cis-1,2-Dichloroethene [156-59-2]^	12	D	ug/L	10	1.5	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	2.0	UD	ug/L	10	2.0	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Dibromochloromethane [124-48-1]^	1.7	UD	ug/L	10	1.7	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Dibromomethane [74-95-3]^	2.7	UD	ug/L	10	2.7	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Ethylbenzene [100-41-4]^	1.3	UD	ug/L	10	1.3	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Iodomethane [74-88-4]^	17	UD	ug/L	10	17	50	1K09032	EPA 8260D	11/10/21 03:03	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	1.7	UD	ug/L	10	1.7	20	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Methylene chloride [75-09-2]^	2.3	UD	ug/L	10	2.3	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
o-Xylene [95-47-6]^	0.65	UD	ug/L	10	0.65	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Styrene [100-42-5]^	1.1	UD	ug/L	10	1.1	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Tetrachloroethene [127-18-4]^	1.7	UD	ug/L	10	1.7	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Toluene [108-88-3]^	1.4	UD	ug/L	10	1.4	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
trans-1,2-Dichloroethene [156-60-5]^	2.1	UD	ug/L	10	2.1	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	1.5	UD	ug/L	10	1.5	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	7.0	UD	ug/L	10	7.0	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Trichloroethene [79-01-6]^	1.5	UD	ug/L	10	1.5	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Trichlorofluoromethane [75-69-4]^	2.4	UD	ug/L	10	2.4	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Vinyl acetate [108-05-4]^	9.5	UD	ug/L	10	9.5	50	1K09032	EPA 8260D	11/10/21 03:03	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-PW5D

Lab Sample ID: CE13949-12

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 10:40

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	9.5	JD	ug/L	10	3.2	10	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Xylenes (Total) [1330-20-7]^	4.5	UD	ug/L	10	4.5	30	1K09032	EPA 8260D	11/10/21 03:03	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	59	1	50.0	118 %	53-136	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Dibromofluoromethane	55	1	50.0	110 %	67-129	1K09032	EPA 8260D	11/10/21 03:03	RKY	
Toluene-d8	62	1	50.0	123 %	59-134	1K09032	EPA 8260D	11/10/21 03:03	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	400	D	ug/L	50	40	100	1K02042	EPA 8260D	11/03/21 03:44	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.0	1	5.00	100 %	75-125	1K02042	EPA 8260D	11/03/21 03:44	KKW	

ANALYTICAL RESULTS

Description: 4401-PW4I

Lab Sample ID: CE13949-13

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/27/21 15:05

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.85	UD	ug/L	5	0.85	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
1,1,1-Trichloroethane [71-55-6]^	26	D	ug/L	5	0.60	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	1.4	UD	ug/L	5	1.4	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.70	UD	ug/L	5	0.70	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
1,1-Dichloroethane [75-34-3]^	43	D	ug/L	5	0.65	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
1,1-Dichloroethene [75-35-4]^	32	D	ug/L	5	1.0	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
1,2,3-Trichloropropane [96-18-4]^	1.2	UD	ug/L	5	1.2	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	2.4	UD	ug/L	5	2.4	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
1,2-Dibromoethane [106-93-4]^	3.3	UD	ug/L	5	3.3	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.95	UD	ug/L	5	0.95	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
1,2-Dichloroethane [107-06-2]^	22	D	ug/L	5	1.0	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
1,2-Dichloropropane [78-87-5]^	0.50	UD	ug/L	5	0.50	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
1,4-Dichlorobenzene [106-46-7]^	2.6	JD	ug/L	5	0.95	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
2-Butanone [78-93-3]^	6.5	UD	ug/L	5	6.5	25	1K05042	EPA 8260D	11/06/21 19:09	RKY	
2-Hexanone [591-78-6]^	4.4	UD	ug/L	5	4.4	25	1K05042	EPA 8260D	11/06/21 19:09	RKY	
4-Methyl-2-pentanone [108-10-1]^	5.5	UD	ug/L	5	5.5	25	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Acetone [67-64-1]^	50	UD	ug/L	5	50	100	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Acrylonitrile [107-13-1]^	18	UD	ug/L	5	18	50	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Benzene [71-43-2]^	2.1	JD	ug/L	5	0.75	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Bromochloromethane [74-97-5]^	2.4	UD	ug/L	5	2.4	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	QV-01
Bromodichloromethane [75-27-4]^	0.85	UD	ug/L	5	0.85	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Bromoform [75-25-2]^	1.1	UD	ug/L	5	1.1	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Bromomethane [74-83-9]^	0.70	UD	ug/L	5	0.70	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Carbon disulfide [75-15-0]^	7.5	UD	ug/L	5	7.5	25	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Carbon tetrachloride [56-23-5]^	0.85	UD	ug/L	5	0.85	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	QV-01
Chlorobenzene [108-90-7]^	60	D	ug/L	5	0.85	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Chloroethane [75-00-3]^	1.2	UD	ug/L	5	1.2	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Chloroform [67-66-3]^	0.90	UD	ug/L	5	0.90	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Chloromethane [74-87-3]^	0.65	UD	ug/L	5	0.65	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
cis-1,2-Dichloroethene [156-59-2]^	170	D	ug/L	5	0.75	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	1.0	UD	ug/L	5	1.0	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Dibromochloromethane [124-48-1]^	0.85	UD	ug/L	5	0.85	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Dibromomethane [74-95-3]^	1.4	UD	ug/L	5	1.4	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Ethylbenzene [100-41-4]^	0.65	UD	ug/L	5	0.65	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Iodomethane [74-88-4]^	8.5	UD	ug/L	5	8.5	25	1K05042	EPA 8260D	11/06/21 19:09	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.85	UD	ug/L	5	0.85	10	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Methylene chloride [75-09-2]^	2.2	JD	ug/L	5	1.2	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
o-Xylene [95-47-6]^	0.32	UD	ug/L	5	0.32	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Styrene [100-42-5]^	0.55	UD	ug/L	5	0.55	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Tetrachloroethene [127-18-4]^	12	D	ug/L	5	0.85	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Toluene [108-88-3]^	0.70	UD	ug/L	5	0.70	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
trans-1,2-Dichloroethene [156-60-5]^	1.0	UD	ug/L	5	1.0	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.75	UD	ug/L	5	0.75	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	3.5	UD	ug/L	5	3.5	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Trichloroethene [79-01-6]^	41	D	ug/L	5	0.75	5.0	1K09032	EPA 8260D	11/10/21 00:16	RKY	
Trichlorofluoromethane [75-69-4]^	1.2	UD	ug/L	5	1.2	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Vinyl acetate [108-05-4]^	4.8	UD	ug/L	5	4.8	25	1K05042	EPA 8260D	11/06/21 19:09	RKY	

ANALYTICAL RESULTS

Description: 4401-PW4I

Lab Sample ID: CE13949-13

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/27/21 15:05

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	33	D	ug/L	5	1.6	5.0	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Xylenes (Total) [1330-20-7]^	2.2	UD	ug/L	5	2.2	15	1K05042	EPA 8260D	11/06/21 19:09	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	50	1	50.0	101 %	53-136	1K05042	EPA 8260D	11/06/21 19:09	RKY	
4-Bromofluorobenzene	60	1	50.0	120 %	53-136	1K09032	EPA 8260D	11/10/21 00:16	RKY	
Dibromofluoromethane	50	1	50.0	100 %	67-129	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Dibromofluoromethane	55	1	50.0	110 %	67-129	1K09032	EPA 8260D	11/10/21 00:16	RKY	
Toluene-d8	48	1	50.0	96 %	59-134	1K05042	EPA 8260D	11/06/21 19:09	RKY	
Toluene-d8	61	1	50.0	122 %	59-134	1K09032	EPA 8260D	11/10/21 00:16	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	180	D	ug/L	10	8.0	20	1K02042	EPA 8260D	11/03/21 04:09	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.1	1	5.00	102 %	75-125	1K02042	EPA 8260D	11/03/21 04:09	KKW	

ANALYTICAL RESULTS

Description: 4401-PW6I

Lab Sample ID: CE13949-14

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 11:45

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
1,1-Dichloroethane [75-34-3]^	11		ug/L	1	0.13	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
1,1-Dichloroethene [75-35-4]^	0.74	J	ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
1,2-Dichloroethane [107-06-2]^	2.1		ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
1,4-Dichlorobenzene [106-46-7]^	2.0		ug/L	1	0.19	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Benzene [71-43-2]^	0.62	J	ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Chlorobenzene [108-90-7]^	9.6		ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
cis-1,2-Dichloroethene [156-59-2]^	18		ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Tetrachloroethene [127-18-4]^	0.50	J	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-PW6I

Lab Sample ID: CE13949-14

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 11:45

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	3.2		ug/L	1	0.32	1.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K09032	EPA 8260D	11/10/21 03:31	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	59	1	50.0	118 %	53-136	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Dibromofluoromethane	55	1	50.0	110 %	67-129	1K09032	EPA 8260D	11/10/21 03:31	RKY	
Toluene-d8	62	1	50.0	123 %	59-134	1K09032	EPA 8260D	11/10/21 03:31	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	69		ug/L	1	0.80	2.0	1K02042	EPA 8260D	11/03/21 04:35	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.0	1	5.00	101 %	75-125	1K02042	EPA 8260D	11/03/21 04:35	KKW	

ANALYTICAL RESULTS

Description: 4401-PW6D

Lab Sample ID: CE13949-15

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 11:15

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.85	UD	ug/L	5	0.85	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
1,1,1-Trichloroethane [71-55-6]^	3.4	JD	ug/L	5	0.60	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	1.4	UD	ug/L	5	1.4	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.70	UD	ug/L	5	0.70	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
1,1-Dichloroethane [75-34-3]^	110	D	ug/L	5	0.65	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
1,1-Dichloroethene [75-35-4]^	38	D	ug/L	5	1.0	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
1,2,3-Trichloropropane [96-18-4]^	1.2	UD	ug/L	5	1.2	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	2.4	UD	ug/L	5	2.4	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
1,2-Dibromoethane [106-93-4]^	3.3	UD	ug/L	5	3.3	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.95	UD	ug/L	5	0.95	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
1,2-Dichloroethane [107-06-2]^	5.3	D	ug/L	5	1.0	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
1,2-Dichloropropane [78-87-5]^	0.50	UD	ug/L	5	0.50	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.95	UD	ug/L	5	0.95	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
2-Butanone [78-93-3]^	6.5	UD	ug/L	5	6.5	25	1K09032	EPA 8260D	11/10/21 03:59	RKY	
2-Hexanone [591-78-6]^	4.4	UD	ug/L	5	4.4	25	1K09032	EPA 8260D	11/10/21 03:59	RKY	
4-Methyl-2-pentanone [108-10-1]^	5.5	UD	ug/L	5	5.5	25	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Acetone [67-64-1]^	50	UD	ug/L	5	50	100	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Acrylonitrile [107-13-1]^	18	UD	ug/L	5	18	50	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Benzene [71-43-2]^	2.2	JD	ug/L	5	0.75	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Bromochloromethane [74-97-5]^	2.4	UD	ug/L	5	2.4	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Bromodichloromethane [75-27-4]^	0.85	UD	ug/L	5	0.85	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Bromoform [75-25-2]^	1.1	UD	ug/L	5	1.1	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Bromomethane [74-83-9]^	0.70	UD	ug/L	5	0.70	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Carbon disulfide [75-15-0]^	7.5	UD	ug/L	5	7.5	25	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Carbon tetrachloride [56-23-5]^	0.85	UD	ug/L	5	0.85	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Chlorobenzene [108-90-7]^	93	D	ug/L	5	0.85	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Chloroethane [75-00-3]^	5.6	D	ug/L	5	1.2	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Chloroform [67-66-3]^	0.90	UD	ug/L	5	0.90	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Chloromethane [74-87-3]^	0.65	UD	ug/L	5	0.65	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
cis-1,2-Dichloroethene [156-59-2]^	150	D	ug/L	5	0.75	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	1.0	UD	ug/L	5	1.0	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Dibromochloromethane [124-48-1]^	0.85	UD	ug/L	5	0.85	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Dibromomethane [74-95-3]^	1.4	UD	ug/L	5	1.4	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Ethylbenzene [100-41-4]^	0.65	UD	ug/L	5	0.65	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Iodomethane [74-88-4]^	8.5	UD	ug/L	5	8.5	25	1K09032	EPA 8260D	11/10/21 03:59	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.85	UD	ug/L	5	0.85	10	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Methylene chloride [75-09-2]^	1.2	UD	ug/L	5	1.2	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
o-Xylene [95-47-6]^	0.32	UD	ug/L	5	0.32	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Styrene [100-42-5]^	0.55	UD	ug/L	5	0.55	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Tetrachloroethene [127-18-4]^	0.85	UD	ug/L	5	0.85	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Toluene [108-88-3]^	0.70	UD	ug/L	5	0.70	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
trans-1,2-Dichloroethene [156-60-5]^	1.0	UD	ug/L	5	1.0	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.75	UD	ug/L	5	0.75	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	3.5	UD	ug/L	5	3.5	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Trichloroethene [79-01-6]^	0.75	UD	ug/L	5	0.75	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Trichlorofluoromethane [75-69-4]^	1.2	UD	ug/L	5	1.2	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Vinyl acetate [108-05-4]^	4.8	UD	ug/L	5	4.8	25	1K09032	EPA 8260D	11/10/21 03:59	RKY	

ANALYTICAL RESULTS

Description: 4401-PW6D

Lab Sample ID: CE13949-15

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 11:15

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Vinyl chloride [75-01-4]^	22	D	ug/L	5	1.6	5.0	1K09032	EPA 8260D	11/10/21 03:59	RKY	
Xylenes (Total) [1330-20-7]^	2.2	UD	ug/L	5	2.2	15	1K09032	EPA 8260D	11/10/21 03:59	RKY	

Surrogates

<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
4-Bromofluorobenzene	60	1	50.0	119 %	53-136	1K09032	EPA 8260D	11/10/21 03:59	RKY
Dibromofluoromethane	56	1	50.0	112 %	67-129	1K09032	EPA 8260D	11/10/21 03:59	RKY
Toluene-d8	62	1	50.0	125 %	59-134	1K09032	EPA 8260D	11/10/21 03:59	RKY

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
1,4-Dioxane [123-91-1]^	190	D	ug/L	10	8.0	20	1K02042	EPA 8260D	11/03/21 05:01	KKW	

Surrogates

<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Toluene-d8	5.1	1	5.00	102 %	75-125	1K02042	EPA 8260D	11/03/21 05:01	KKW

ANALYTICAL RESULTS

Description: 4401-PW10I

Lab Sample ID: CE13949-16

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 12:00

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	QV-01
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
1,1-Dichloroethane [75-34-3]^	7.0		ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	QV-01
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
1,4-Dichlorobenzene [106-46-7]^	1.7		ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Benzene [71-43-2]^	1.2		ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Chlorobenzene [108-90-7]^	2.2		ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Chloroethane [75-00-3]^	2.9		ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-PW10I

Lab Sample ID: CE13949-16

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 12:00

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	1.9		ug/L	1	0.32	1.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K04051	EPA 8260D	11/05/21 16:20	RKY	

Surrogates

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	49	1	50.0	98 %	53-136	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Dibromofluoromethane	50	1	50.0	101 %	67-129	1K04051	EPA 8260D	11/05/21 16:20	RKY	
Toluene-d8	49	1	50.0	98 %	59-134	1K04051	EPA 8260D	11/05/21 16:20	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	310	D	ug/L	10	8.0	20	1K02042	EPA 8260D	11/03/21 05:26	KKW	

Surrogates

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.4	1	5.00	108 %	75-125	1K02042	EPA 8260D	11/03/21 05:26	KKW	

ANALYTICAL RESULTS

Description: 4401-PW10D

Lab Sample ID: CE13949-17

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 11:10

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	QV-01
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	QV-01
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-PW10D

Lab Sample ID: CE13949-17

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 11:10

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K04051	EPA 8260D	11/05/21 16:49	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	50	1	50.0	101 %	53-136	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Dibromofluoromethane	50	1	50.0	101 %	67-129	1K04051	EPA 8260D	11/05/21 16:49	RKY	
Toluene-d8	49	1	50.0	99 %	59-134	1K04051	EPA 8260D	11/05/21 16:49	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	0.80	U	ug/L	1	0.80	2.0	1K02042	EPA 8260D	11/03/21 01:35	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.5	1	5.00	110 %	75-125	1K02042	EPA 8260D	11/03/21 01:35	KKW	

ANALYTICAL RESULTS

Description: 4401-MW12I

Lab Sample ID: CE13949-18

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 13:25

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-MW12I

Lab Sample ID: CE13949-18

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 13:25

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K09032	EPA 8260D	11/10/21 04:27	RKY	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
4-Bromofluorobenzene	59	1	50.0	118 %	53-136	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Dibromofluoromethane	54	1	50.0	109 %	67-129	1K09032	EPA 8260D	11/10/21 04:27	RKY	
Toluene-d8	62	1	50.0	123 %	59-134	1K09032	EPA 8260D	11/10/21 04:27	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
1,4-Dioxane [123-91-1]^	0.80	U	ug/L	1	0.80	2.0	1K02042	EPA 8260D	11/03/21 05:52	KKW	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Toluene-d8	5.0	1	5.00	99 %	75-125	1K02042	EPA 8260D	11/03/21 05:52	KKW	

ANALYTICAL RESULTS

Description: 4401-PW131

Lab Sample ID: CE13949-19

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 09:00

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
1,1-Dichloroethane [75-34-3]^	87		ug/L	1	0.13	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
1,2-Dichloroethane [107-06-2]^	1.2		ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.74	J	ug/L	1	0.19	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Benzene [71-43-2]^	2.3		ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Chlorobenzene [108-90-7]^	9.4		ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Chloroethane [75-00-3]^	1.2		ug/L	1	0.23	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Toluene [108-88-3]^	0.53	J	ug/L	1	0.14	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-PW13I

Lab Sample ID: CE13949-19

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/28/21 09:00

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	0.94	J	ug/L	1	0.32	1.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K09032	EPA 8260D	11/10/21 04:55	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	60	1	50.0	120 %	53-136	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Dibromofluoromethane	55	1	50.0	111 %	67-129	1K09032	EPA 8260D	11/10/21 04:55	RKY	
Toluene-d8	61	1	50.0	122 %	59-134	1K09032	EPA 8260D	11/10/21 04:55	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	70		ug/L	1	0.80	2.0	1K02042	EPA 8260D	11/03/21 06:18	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.1	1	5.00	102 %	75-125	1K02042	EPA 8260D	11/03/21 06:18	KKW	

ANALYTICAL RESULTS

Description: 4401-PW14D

Lab Sample ID: CE13949-20

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/27/21 11:00

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	QV-01
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	QV-01
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	QV-01
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	QV-01
Chlorobenzene [108-90-7]^	0.80	J	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.76	J	ug/L	1	0.15	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Ethylbenzene [100-41-4]^	0.67	J	ug/L	1	0.13	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	2.8		ug/L	1	0.17	2.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
o-Xylene [95-47-6]^	1.4		ug/L	1	0.065	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Toluene [108-88-3]^	1.7		ug/L	1	0.14	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-PW14D

Lab Sample ID: CE13949-20

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/27/21 11:00

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Xylenes (Total) [1330-20-7]^	4.2		ug/L	1	0.45	3.0	1K03032	EPA 8260D	11/03/21 22:24	RKY	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
4-Bromofluorobenzene	50	1	50.0	99 %	53-136	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Dibromofluoromethane	51	1	50.0	101 %	67-129	1K03032	EPA 8260D	11/03/21 22:24	RKY	
Toluene-d8	49	1	50.0	98 %	59-134	1K03032	EPA 8260D	11/03/21 22:24	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
1,4-Dioxane [123-91-1]^	0.80	U	ug/L	1	0.80	2.0	1K02042	EPA 8260D	11/03/21 06:43	KKW	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Toluene-d8	5.1	1	5.00	102 %	75-125	1K02042	EPA 8260D	11/03/21 06:43	KKW	

ANALYTICAL RESULTS

Description: 4401-PW15D

Lab Sample ID: CE13949-21

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/27/21 10:20

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	QV-01
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
1,1-Dichloroethane [75-34-3]^	18		ug/L	1	0.13	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
1,1-Dichloroethene [75-35-4]^	5.2		ug/L	1	0.21	1.0	1K05042	EPA 8260D	11/06/21 17:12	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
1,2-Dichloroethane [107-06-2]^	0.53	J	ug/L	1	0.21	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	QV-01
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	QV-01
Chlorobenzene [108-90-7]^	2.0		ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
cis-1,2-Dichloroethene [156-59-2]^	27		ug/L	1	0.15	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-PW15D

Lab Sample ID: CE13949-21

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/27/21 10:20

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	1.1		ug/L	1	0.32	1.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K03032	EPA 8260D	11/03/21 22:53	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	50	1	50.0	100 %	53-136	1K03032	EPA 8260D	11/03/21 22:53	RKY	
4-Bromofluorobenzene	50	1	50.0	99 %	53-136	1K05042	EPA 8260D	11/06/21 17:12	RKY	
Dibromofluoromethane	50	1	50.0	99 %	67-129	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Dibromofluoromethane	49	1	50.0	98 %	67-129	1K05042	EPA 8260D	11/06/21 17:12	RKY	
Toluene-d8	49	1	50.0	98 %	59-134	1K03032	EPA 8260D	11/03/21 22:53	RKY	
Toluene-d8	48	1	50.0	95 %	59-134	1K05042	EPA 8260D	11/06/21 17:12	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	53		ug/L	1	0.80	2.0	1K02042	EPA 8260D	11/03/21 07:09	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.4	1	5.00	109 %	75-125	1K02042	EPA 8260D	11/03/21 07:09	KKW	

ANALYTICAL RESULTS

Description: 4401-PW16D

Lab Sample ID: CE13949-22

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/27/21 09:10

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	QV-01
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
1,1-Dichloroethane [75-34-3]^	20		ug/L	1	0.13	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
1,1-Dichloroethene [75-35-4]^	7.1		ug/L	1	0.21	1.0	1K05042	EPA 8260D	11/06/21 17:42	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	QV-01
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	QV-01
Chlorobenzene [108-90-7]^	40		ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Chloroethane [75-00-3]^	1.5		ug/L	1	0.23	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
cis-1,2-Dichloroethene [156-59-2]^	32		ug/L	1	0.15	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-PW16D

Lab Sample ID: CE13949-22

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/27/21 09:10

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	3.6		ug/L	1	0.32	1.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K03032	EPA 8260D	11/03/21 23:22	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	50	1	50.0	100 %	53-136	1K03032	EPA 8260D	11/03/21 23:22	RKY	
4-Bromofluorobenzene	50	1	50.0	100 %	53-136	1K05042	EPA 8260D	11/06/21 17:42	RKY	
Dibromofluoromethane	50	1	50.0	100 %	67-129	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Dibromofluoromethane	49	1	50.0	98 %	67-129	1K05042	EPA 8260D	11/06/21 17:42	RKY	
Toluene-d8	49	1	50.0	98 %	59-134	1K03032	EPA 8260D	11/03/21 23:22	RKY	
Toluene-d8	47	1	50.0	94 %	59-134	1K05042	EPA 8260D	11/06/21 17:42	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	23		ug/L	1	0.80	2.0	1K02042	EPA 8260D	11/03/21 07:35	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.3	1	5.00	106 %	75-125	1K02042	EPA 8260D	11/03/21 07:35	KKW	

ANALYTICAL RESULTS

Description: 4401-PWSF1

Lab Sample ID: CE13949-23

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/27/21 13:05

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	85	UD	ug/L	500	85	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
1,1,1-Trichloroethane [71-55-6]^	3300	D	ug/L	500	60	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	140	UD	ug/L	500	140	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
1,1,2-Trichloroethane [79-00-5]^	70	UD	ug/L	500	70	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
1,1-Dichloroethane [75-34-3]^	6200	D	ug/L	500	65	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
1,1-Dichloroethene [75-35-4]^	5300	D	ug/L	500	100	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
1,2,3-Trichloropropane [96-18-4]^	120	UD	ug/L	500	120	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	240	UD	ug/L	500	240	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
1,2-Dibromoethane [106-93-4]^	330	UD	ug/L	500	330	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
1,2-Dichlorobenzene [95-50-1]^	95	UD	ug/L	500	95	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
1,2-Dichloroethane [107-06-2]^	100	UD	ug/L	500	100	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
1,2-Dichloropropane [78-87-5]^	50	UD	ug/L	500	50	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
1,4-Dichlorobenzene [106-46-7]^	95	UD	ug/L	500	95	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
2-Butanone [78-93-3]^	650	UD	ug/L	500	650	2500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
2-Hexanone [591-78-6]^	440	UD	ug/L	500	440	2500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
4-Methyl-2-pentanone [108-10-1]^	550	UD	ug/L	500	550	2500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Acetone [67-64-1]^	5000	UD	ug/L	500	5000	10000	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Acrylonitrile [107-13-1]^	1800	UD	ug/L	500	1800	5000	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Benzene [71-43-2]^	75	UD	ug/L	500	75	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Bromochloromethane [74-97-5]^	240	UD	ug/L	500	240	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	QV-01
Bromodichloromethane [75-27-4]^	85	UD	ug/L	500	85	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Bromoform [75-25-2]^	110	UD	ug/L	500	110	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Bromomethane [74-83-9]^	70	UD	ug/L	500	70	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Carbon disulfide [75-15-0]^	750	UD	ug/L	500	750	2500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Carbon tetrachloride [56-23-5]^	85	UD	ug/L	500	85	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	QV-01
Chlorobenzene [108-90-7]^	2100	D	ug/L	500	85	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Chloroethane [75-00-3]^	120	UD	ug/L	500	120	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Chloroform [67-66-3]^	90	UD	ug/L	500	90	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Chloromethane [74-87-3]^	65	UD	ug/L	500	65	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
cis-1,2-Dichloroethene [156-59-2]^	38000	D	ug/L	500	75	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	100	UD	ug/L	500	100	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Dibromochloromethane [124-48-1]^	85	UD	ug/L	500	85	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Dibromomethane [74-95-3]^	140	UD	ug/L	500	140	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Ethylbenzene [100-41-4]^	65	UD	ug/L	500	65	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Iodomethane [74-88-4]^	850	UD	ug/L	500	850	2500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	85	UD	ug/L	500	85	1000	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Methylene chloride [75-09-2]^	260	JD	ug/L	500	120	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
o-Xylene [95-47-6]^	32	UD	ug/L	500	32	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Styrene [100-42-5]^	55	UD	ug/L	500	55	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Tetrachloroethene [127-18-4]^	85	UD	ug/L	500	85	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Toluene [108-88-3]^	720	D	ug/L	500	70	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
trans-1,2-Dichloroethene [156-60-5]^	100	UD	ug/L	500	100	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	75	UD	ug/L	500	75	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	350	UD	ug/L	500	350	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Trichloroethene [79-01-6]^	75	UD	ug/L	500	75	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	QL-02, QV-01
Trichlorofluoromethane [75-69-4]^	400	JD	ug/L	500	120	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	

ANALYTICAL RESULTS

Description: 4401-PWSF1

Lab Sample ID: CE13949-23

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/27/21 13:05

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4]^	480	UD	ug/L	500	480	2500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Vinyl chloride [75-01-4]^	3200	D	ug/L	500	160	500	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Xylenes (Total) [1330-20-7]^	220	UD	ug/L	500	220	1500	1K05042	EPA 8260D	11/06/21 19:38	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	49	1	50.0	99 %	53-136	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Dibromofluoromethane	50	1	50.0	99 %	67-129	1K05042	EPA 8260D	11/06/21 19:38	RKY	
Toluene-d8	49	1	50.0	98 %	59-134	1K05042	EPA 8260D	11/06/21 19:38	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	2300	D	ug/L	100	80	200	1K02042	EPA 8260D	11/03/21 08:00	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.3	1	5.00	107 %	75-125	1K02042	EPA 8260D	11/03/21 08:00	KKW	

ANALYTICAL RESULTS

Description: 4401-W4A

Lab Sample ID: CE13949-24

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/27/21 12:35

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.85	UD	ug/L	5	0.85	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
1,1,1-Trichloroethane [71-55-6]^	24	D	ug/L	5	0.60	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	1.4	UD	ug/L	5	1.4	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.70	UD	ug/L	5	0.70	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
1,1-Dichloroethane [75-34-3]^	110	D	ug/L	5	0.65	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
1,1-Dichloroethene [75-35-4]^	43	D	ug/L	5	1.0	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
1,2,3-Trichloropropane [96-18-4]^	1.2	UD	ug/L	5	1.2	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	2.4	UD	ug/L	5	2.4	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
1,2-Dibromoethane [106-93-4]^	3.3	UD	ug/L	5	3.3	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.95	UD	ug/L	5	0.95	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
1,2-Dichloroethane [107-06-2]^	2.8	JD	ug/L	5	1.0	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
1,2-Dichloropropane [78-87-5]^	0.50	UD	ug/L	5	0.50	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.95	UD	ug/L	5	0.95	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
2-Butanone [78-93-3]^	6.5	UD	ug/L	5	6.5	25	1K08031	EPA 8260D	11/08/21 20:29	RKY	
2-Hexanone [591-78-6]^	4.4	UD	ug/L	5	4.4	25	1K08031	EPA 8260D	11/08/21 20:29	RKY	
4-Methyl-2-pentanone [108-10-1]^	5.5	UD	ug/L	5	5.5	25	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Acetone [67-64-1]^	50	UD	ug/L	5	50	100	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Acrylonitrile [107-13-1]^	18	UD	ug/L	5	18	50	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Benzene [71-43-2]^	6.6	D	ug/L	5	0.75	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Bromochloromethane [74-97-5]^	2.4	UD	ug/L	5	2.4	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Bromodichloromethane [75-27-4]^	0.85	UD	ug/L	5	0.85	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Bromoform [75-25-2]^	1.1	UD	ug/L	5	1.1	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Bromomethane [74-83-9]^	0.70	UD	ug/L	5	0.70	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Carbon disulfide [75-15-0]^	7.5	UD	ug/L	5	7.5	25	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Carbon tetrachloride [56-23-5]^	0.85	UD	ug/L	5	0.85	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Chlorobenzene [108-90-7]^	0.85	UD	ug/L	5	0.85	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Chloroethane [75-00-3]^	4.6	JD	ug/L	5	1.2	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Chloroform [67-66-3]^	0.90	UD	ug/L	5	0.90	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Chloromethane [74-87-3]^	0.65	UD	ug/L	5	0.65	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
cis-1,2-Dichloroethene [156-59-2]^	170	D	ug/L	5	0.75	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	1.0	UD	ug/L	5	1.0	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Dibromochloromethane [124-48-1]^	0.85	UD	ug/L	5	0.85	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Dibromomethane [74-95-3]^	1.4	UD	ug/L	5	1.4	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Ethylbenzene [100-41-4]^	0.65	UD	ug/L	5	0.65	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Iodomethane [74-88-4]^	8.5	UD	ug/L	5	8.5	25	1K08031	EPA 8260D	11/08/21 20:29	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.85	UD	ug/L	5	0.85	10	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Methylene chloride [75-09-2]^	1.2	UD	ug/L	5	1.2	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
o-Xylene [95-47-6]^	0.32	UD	ug/L	5	0.32	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Styrene [100-42-5]^	0.55	UD	ug/L	5	0.55	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Tetrachloroethene [127-18-4]^	0.85	UD	ug/L	5	0.85	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Toluene [108-88-3]^	0.70	UD	ug/L	5	0.70	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
trans-1,2-Dichloroethene [156-60-5]^	1.0	UD	ug/L	5	1.0	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.75	UD	ug/L	5	0.75	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	3.5	UD	ug/L	5	3.5	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Trichloroethene [79-01-6]^	0.75	UD	ug/L	5	0.75	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Trichlorofluoromethane [75-69-4]^	1.2	UD	ug/L	5	1.2	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Vinyl acetate [108-05-4]^	4.8	UD	ug/L	5	4.8	25	1K08031	EPA 8260D	11/08/21 20:29	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-W4A

Lab Sample ID: CE13949-24

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/27/21 12:35

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: Ronald Barron

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	98	D	ug/L	5	1.6	5.0	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Xylenes (Total) [1330-20-7]^	2.2	UD	ug/L	5	2.2	15	1K08031	EPA 8260D	11/08/21 20:29	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	63	1	50.0	125 %	53-136	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Dibromofluoromethane	61	1	50.0	121 %	67-129	1K08031	EPA 8260D	11/08/21 20:29	RKY	
Toluene-d8	62	1	50.0	124 %	59-134	1K08031	EPA 8260D	11/08/21 20:29	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	54		ug/L	1	0.80	2.0	1K02042	EPA 8260D	11/03/21 08:27	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.0	1	5.00	99 %	75-125	1K02042	EPA 8260D	11/03/21 08:27	KKW	

ANALYTICAL RESULTS

Description: 4401-TripBlank

Lab Sample ID: CE13949-25

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 08:30

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	QV-01
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	QV-01
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-TripBlank

Lab Sample ID: CE13949-25

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 08:30

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K04051	EPA 8260D	11/05/21 11:55	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	49	1	50.0	99 %	53-136	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Dibromofluoromethane	50	1	50.0	99 %	67-129	1K04051	EPA 8260D	11/05/21 11:55	RKY	
Toluene-d8	47	1	50.0	95 %	59-134	1K04051	EPA 8260D	11/05/21 11:55	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	0.80	U	ug/L	1	0.80	2.0	1K02042	EPA 8260D	11/03/21 08:53	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.2	1	5.00	105 %	75-125	1K02042	EPA 8260D	11/03/21 08:53	KKW	

ANALYTICAL RESULTS

Description: 4401-TripBlank

Lab Sample ID: CE13949-26

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 08:30

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	QV-01
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	QV-01
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ANALYTICAL RESULTS

Description: 4401-TripBlank

Lab Sample ID: CE13949-26

Received: 10/29/21 10:45

Matrix: Water

Sampled: 10/26/21 08:30

Work Order: CE13949

Project: Seaboard/Riverdale Landfill

Sampled By: ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K04051	EPA 8260D	11/05/21 12:24	RKY	

Surrogates

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	50	1	50.0	100 %	53-136	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Dibromofluoromethane	49	1	50.0	98 %	67-129	1K04051	EPA 8260D	11/05/21 12:24	RKY	
Toluene-d8	48	1	50.0	97 %	59-134	1K04051	EPA 8260D	11/05/21 12:24	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	0.80	U	ug/L	1	0.80	2.0	1K02042	EPA 8260D	11/03/21 09:18	KKW	

Surrogates

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.2	1	5.00	103 %	75-125	1K02042	EPA 8260D	11/03/21 09:18	KKW	

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K03032 - EPA 5030B_MS

Blank (1K03032-BLK1)

Prepared: 11/03/2021 16:23 Analyzed: 11/03/2021 20:27

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	10	U	20	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K03032 - EPA 5030B_MS - Continued

Blank (1K03032-BLK1) Continued

Prepared: 11/03/2021 16:23 Analyzed: 11/03/2021 20:27

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Bromofluorobenzene	49			ug/L	50.0		99	53-136			
Dibromofluoromethane	48			ug/L	50.0		96	67-129			
Toluene-d8	47			ug/L	50.0		95	59-134			

LCS (1K03032-BS1)

Prepared: 11/03/2021 16:23 Analyzed: 11/03/2021 18:31

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0		113	75-133			
Benzene	22		1.0	ug/L	20.0		111	80-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	80-120			
Toluene	18		1.0	ug/L	20.0		88	71-120			
Trichloroethene	23		1.0	ug/L	20.0		116	74-120			
4-Bromofluorobenzene	50			ug/L	50.0		100	53-136			
Dibromofluoromethane	50			ug/L	50.0		99	67-129			
Toluene-d8	48			ug/L	50.0		95	59-134			

Matrix Spike (1K03032-MS1)

Prepared: 11/03/2021 16:23 Analyzed: 11/03/2021 19:00

Source: CE16709-03

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.21 U	114	75-133			
Benzene	21		1.0	ug/L	20.0	0.15 U	107	80-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	94	80-120			
Toluene	17		1.0	ug/L	20.0	0.14 U	87	71-120			
Trichloroethene	23		1.0	ug/L	20.0	0.15 U	114	74-120			
4-Bromofluorobenzene	49			ug/L	50.0		99	53-136			
Dibromofluoromethane	50			ug/L	50.0		100	67-129			
Toluene-d8	47			ug/L	50.0		95	59-134			

Matrix Spike Dup (1K03032-MSD1)

Prepared: 11/03/2021 16:23 Analyzed: 11/03/2021 19:29

Source: CE16709-03

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.21 U	104	75-133	9	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	101	80-134	5	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	93	80-120	1	16	
Toluene	17		1.0	ug/L	20.0	0.14 U	84	71-120	3	17	
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	110	74-120	3	22	
4-Bromofluorobenzene	50			ug/L	50.0		99	53-136			
Dibromofluoromethane	48			ug/L	50.0		97	67-129			
Toluene-d8	46			ug/L	50.0		93	59-134			

Batch 1K04051 - EPA 5030B_MS

Blank (1K04051-BLK1)

Prepared: 11/04/2021 18:41 Analyzed: 11/05/2021 11:26

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K04051 - EPA 5030B_MS - Continued

Blank (1K04051-BLK1) Continued

Prepared: 11/04/2021 18:41 Analyzed: 11/05/2021 11:26

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	10	U	20	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
4-Bromofluorobenzene	49			ug/L	50.0		98	53-136			
Dibromofluoromethane	50			ug/L	50.0		99	67-129			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K04051 - EPA 5030B_MS - Continued

Blank (1K04051-BLK1) Continued

Prepared: 11/04/2021 18:41 Analyzed: 11/05/2021 11:26

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Toluene-d8	47			ug/L	50.0		95	59-134			

LCS (1K04051-BS1)

Prepared: 11/04/2021 18:41 Analyzed: 11/05/2021 09:28

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		107	75-133			
Benzene	20		1.0	ug/L	20.0		100	80-134			
Chlorobenzene	17		1.0	ug/L	20.0		85	80-120			
Toluene	16		1.0	ug/L	20.0		80	71-120			
Trichloroethene	22		1.0	ug/L	20.0		108	74-120			
4-Bromofluorobenzene	50			ug/L	50.0		100	53-136			
Dibromofluoromethane	50			ug/L	50.0		99	67-129			
Toluene-d8	49			ug/L	50.0		98	59-134			

Matrix Spike (1K04051-MS1)

Prepared: 11/04/2021 18:41 Analyzed: 11/05/2021 09:58

Source: CE16709-05

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.21 U	120	75-133			
Benzene	24		1.0	ug/L	20.0	0.15 U	119	80-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	80-120			
Toluene	19		1.0	ug/L	20.0	0.14 U	95	71-120			
Trichloroethene	27		1.0	ug/L	20.0	0.15 U	133	74-120			QM-07
4-Bromofluorobenzene	50			ug/L	50.0		101	53-136			
Dibromofluoromethane	50			ug/L	50.0		100	67-129			
Toluene-d8	48			ug/L	50.0		96	59-134			

Matrix Spike Dup (1K04051-MSD1)

Prepared: 11/04/2021 18:41 Analyzed: 11/05/2021 10:27

Source: CE16709-05

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.21 U	105	75-133	14	20	
Benzene	21		1.0	ug/L	20.0	0.15 U	105	80-134	12	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	90	80-120	9	16	
Toluene	17		1.0	ug/L	20.0	0.14 U	83	71-120	13	17	
Trichloroethene	24		1.0	ug/L	20.0	0.15 U	120	74-120	10	22	
4-Bromofluorobenzene	49			ug/L	50.0		99	53-136			
Dibromofluoromethane	49			ug/L	50.0		98	67-129			
Toluene-d8	48			ug/L	50.0		96	59-134			

Batch 1K05042 - EPA 5030B_MS

Blank (1K05042-BLK1)

Prepared: 11/05/2021 17:42 Analyzed: 11/06/2021 13:18

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K05042 - EPA 5030B_MS - Continued

Blank (1K05042-BLK1) Continued

Prepared: 11/05/2021 17:42 Analyzed: 11/06/2021 13:18

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	10	U	20	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
4-Bromofluorobenzene	47			ug/L	50.0		95	53-136			
Dibromofluoromethane	46			ug/L	50.0		91	67-129			
Toluene-d8	45			ug/L	50.0		89	59-134			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K05042 - EPA 5030B_MS - Continued

LCS (1K05042-BS1)

Prepared: 11/05/2021 17:42 Analyzed: 11/06/2021 11:21

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		106	75-133			
Benzene	20		1.0	ug/L	20.0		102	80-134			
Chlorobenzene	18		1.0	ug/L	20.0		91	80-120			
Toluene	16		1.0	ug/L	20.0		79	71-120			
Trichloroethene	25		1.0	ug/L	20.0		124	74-120			QL-02
4-Bromofluorobenzene	46			ug/L	50.0		92	53-136			
Dibromofluoromethane	47			ug/L	50.0		93	67-129			
Toluene-d8	46			ug/L	50.0		91	59-134			

Matrix Spike (1K05042-MS1)

Prepared: 11/05/2021 17:42 Analyzed: 11/06/2021 11:50

Source: CE17193-04

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.21 U	113	75-133			
Benzene	22		1.0	ug/L	20.0	0.15 U	112	80-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	100	80-120			
Toluene	17		1.0	ug/L	20.0	0.14 U	87	71-120			
Trichloroethene	29		1.0	ug/L	20.0	0.15 U	146	74-120			QM-07
4-Bromofluorobenzene	47			ug/L	50.0		95	53-136			
Dibromofluoromethane	46			ug/L	50.0		91	67-129			
Toluene-d8	45			ug/L	50.0		90	59-134			

Matrix Spike Dup (1K05042-MSD1)

Prepared: 11/05/2021 17:42 Analyzed: 11/06/2021 12:20

Source: CE17193-04

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.21 U	101	75-133	12	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	100	80-134	11	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	90	80-120	11	16	
Toluene	15		1.0	ug/L	20.0	0.14 U	76	71-120	13	17	
Trichloroethene	26		1.0	ug/L	20.0	0.15 U	131	74-120	11	22	QM-07
4-Bromofluorobenzene	47			ug/L	50.0		94	53-136			
Dibromofluoromethane	46			ug/L	50.0		92	67-129			
Toluene-d8	45			ug/L	50.0		90	59-134			

Batch 1K08031 - EPA 5030B_MS

Blank (1K08031-BLK1)

Prepared: 11/08/2021 17:00 Analyzed: 11/08/2021 20:02

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							

FINAL

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K08031 - EPA 5030B_MS - Continued

Blank (1K08031-BLK1) Continued

Prepared: 11/08/2021 17:00 Analyzed: 11/08/2021 20:02

Analyte	Result	Flaq	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	10	U	20	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
4-Bromofluorobenzene	62			ug/L	50.0		123	53-136			
Dibromofluoromethane	60			ug/L	50.0		120	67-129			
Toluene-d8	61			ug/L	50.0		122	59-134			

LCS (1K08031-BS1)

Prepared: 11/08/2021 17:00 Analyzed: 11/08/2021 18:12

Analyte	Result	Flaq	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		99	75-133			
Benzene	19		1.0	ug/L	20.0		96	80-134			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K08031 - EPA 5030B_MS - Continued

LCS (1K08031-BS1) Continued

Prepared: 11/08/2021 17:00 Analyzed: 11/08/2021 18:12

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	20		1.0	ug/L	20.0		99	80-120			
Toluene	20		1.0	ug/L	20.0		100	71-120			
Trichloroethene	20		1.0	ug/L	20.0		102	74-120			
4-Bromofluorobenzene	62			ug/L	50.0		124	53-136			
Dibromofluoromethane	60			ug/L	50.0		119	67-129			
Toluene-d8	61			ug/L	50.0		122	59-134			

Matrix Spike (1K08031-MS1)

Prepared: 11/08/2021 17:00 Analyzed: 11/08/2021 18:40

Source: CE17193-07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.21 U	102	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	98	80-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	101	80-120			
Toluene	20		1.0	ug/L	20.0	0.14 U	102	71-120			
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	104	74-120			
4-Bromofluorobenzene	62			ug/L	50.0		125	53-136			
Dibromofluoromethane	61			ug/L	50.0		121	67-129			
Toluene-d8	62			ug/L	50.0		123	59-134			

Matrix Spike Dup (1K08031-MSD1)

Prepared: 11/08/2021 17:00 Analyzed: 11/08/2021 19:07

Source: CE17193-07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.21 U	98	75-133	4	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	96	80-134	2	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	96	80-120	5	16	
Toluene	19		1.0	ug/L	20.0	0.14 U	97	71-120	5	17	
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	102	74-120	2	22	
4-Bromofluorobenzene	61			ug/L	50.0		123	53-136			
Dibromofluoromethane	61			ug/L	50.0		122	67-129			
Toluene-d8	61			ug/L	50.0		123	59-134			

Batch 1K08033 - EPA 5030B_MS

Blank (1K08033-BLK1)

Prepared: 11/08/2021 21:22 Analyzed: 11/09/2021 08:38

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K08033 - EPA 5030B_MS - Continued

Blank (1K08033-BLK1) Continued

Prepared: 11/08/2021 21:22 Analyzed: 11/09/2021 08:38

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	10	U	20	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
4-Bromofluorobenzene	47			ug/L	50.0		94	53-136			
Dibromofluoromethane	48			ug/L	50.0		96	67-129			
Toluene-d8	46			ug/L	50.0		92	59-134			

LCS (1K08033-BS1)

Prepared: 11/08/2021 21:22 Analyzed: 11/09/2021 06:42

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		108	75-133			
Benzene	21		1.0	ug/L	20.0		107	80-134			
Chlorobenzene	19		1.0	ug/L	20.0		96	80-120			
Toluene	17		1.0	ug/L	20.0		86	71-120			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K08033 - EPA 5030B_MS - Continued

LCS (1K08033-BS1) Continued

Prepared: 11/08/2021 21:22 Analyzed: 11/09/2021 06:42

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	25		1.0	ug/L	20.0		126	74-120			
4-Bromofluorobenzene	49			ug/L	50.0		98	53-136			
Dibromofluoromethane	48			ug/L	50.0		96	67-129			
Toluene-d8	46			ug/L	50.0		92	59-134			

Matrix Spike (1K08033-MS1)

Prepared: 11/08/2021 21:22 Analyzed: 11/09/2021 07:11

Source: CE17198-04

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.21 U	113	75-133			
Benzene	22		1.0	ug/L	20.0	0.15 U	110	80-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	97	80-120			
Toluene	17		1.0	ug/L	20.0	0.14 U	86	71-120			
Trichloroethene	26		1.0	ug/L	20.0	0.15 U	130	74-120			
4-Bromofluorobenzene	48			ug/L	50.0		95	53-136			
Dibromofluoromethane	47			ug/L	50.0		94	67-129			
Toluene-d8	46			ug/L	50.0		92	59-134			

Matrix Spike Dup (1K08033-MSD1)

Prepared: 11/08/2021 21:22 Analyzed: 11/09/2021 07:40

Source: CE17198-04

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	108	75-133	5	20	
Benzene	21		1.0	ug/L	20.0	0.15 U	105	80-134	4	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	95	80-120	3	16	
Toluene	17		1.0	ug/L	20.0	0.14 U	84	71-120	3	17	
Trichloroethene	25		1.0	ug/L	20.0	0.15 U	125	74-120	4	22	
4-Bromofluorobenzene	48			ug/L	50.0		96	53-136			
Dibromofluoromethane	47			ug/L	50.0		94	67-129			
Toluene-d8	47			ug/L	50.0		94	59-134			

Batch 1K09032 - EPA 5030B_MS

Blank (1K09032-BLK1)

Prepared: 11/09/2021 16:12 Analyzed: 11/09/2021 21:58

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K09032 - EPA 5030B_MS - Continued

Blank (1K09032-BLK1) Continued

Prepared: 11/09/2021 16:12 Analyzed: 11/09/2021 21:58

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	10	U	20	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
4-Bromofluorobenzene	61			ug/L	50.0		121	53-136			
Dibromofluoromethane	55			ug/L	50.0		111	67-129			
Toluene-d8	61			ug/L	50.0		122	59-134			

LCS (1K09032-BS1)

Prepared: 11/09/2021 16:12 Analyzed: 11/09/2021 20:06

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		93	75-133			
Benzene	19		1.0	ug/L	20.0		94	80-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	80-120			
Toluene	19		1.0	ug/L	20.0		95	71-120			
Trichloroethene	19		1.0	ug/L	20.0		96	74-120			
4-Bromofluorobenzene	60			ug/L	50.0		120	53-136			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K09032 - EPA 5030B_MS - Continued

LCS (1K09032-BS1) Continued

Prepared: 11/09/2021 16:12 Analyzed: 11/09/2021 20:06

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dibromofluoromethane	57			ug/L	50.0		113	67-129			
Toluene-d8	60			ug/L	50.0		121	59-134			

Matrix Spike (1K09032-MS1)

Prepared: 11/09/2021 16:12 Analyzed: 11/09/2021 20:34

Source: CE17193-09

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	96	75-133			
Benzene	19		1.0	ug/L	20.0	0.15 U	97	80-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	97	80-120			
Toluene	20		1.0	ug/L	20.0	0.14 U	99	71-120			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	99	74-120			
4-Bromofluorobenzene	60			ug/L	50.0		121	53-136			
Dibromofluoromethane	56			ug/L	50.0		113	67-129			
Toluene-d8	60			ug/L	50.0		121	59-134			

Matrix Spike Dup (1K09032-MSD1)

Prepared: 11/09/2021 16:12 Analyzed: 11/09/2021 21:02

Source: CE17193-09

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.21 U	92	75-133	4	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	94	80-134	3	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	95	80-120	2	16	
Toluene	19		1.0	ug/L	20.0	0.14 U	97	71-120	2	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	96	74-120	2	22	
4-Bromofluorobenzene	61			ug/L	50.0		122	53-136			
Dibromofluoromethane	57			ug/L	50.0		114	67-129			
Toluene-d8	60			ug/L	50.0		121	59-134			

Batch 1K10033 - EPA 5030B_MS

Blank (1K10033-BLK1)

Prepared: 11/10/2021 13:59 Analyzed: 11/11/2021 00:31

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K10033 - EPA 5030B_MS - Continued

Blank (1K10033-BLK1) Continued

Prepared: 11/10/2021 13:59 Analyzed: 11/11/2021 00:31

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetone	10	U	20	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
4-Bromofluorobenzene	58			ug/L	50.0		116	53-136			
Dibromofluoromethane	53			ug/L	50.0		106	67-129			
Toluene-d8	60			ug/L	50.0		120	59-134			

LCS (1K10033-BS1)

Prepared: 11/10/2021 13:59 Analyzed: 11/10/2021 22:40

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		90	75-133			
Benzene	18		1.0	ug/L	20.0		92	80-134			
Chlorobenzene	18		1.0	ug/L	20.0		89	80-120			
Toluene	18		1.0	ug/L	20.0		92	71-120			
Trichloroethene	18		1.0	ug/L	20.0		89	74-120			
4-Bromofluorobenzene	58			ug/L	50.0		115	53-136			
Dibromofluoromethane	56			ug/L	50.0		112	67-129			
Toluene-d8	60			ug/L	50.0		119	59-134			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K10033 - EPA 5030B_MS - Continued

Matrix Spike (1K10033-MS1)

Prepared: 11/10/2021 13:59 Analyzed: 11/10/2021 23:08

Source: CE16371-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	109	75-133			
Benzene	21		1.0	ug/L	20.0	0.15 U	105	80-134			
Chlorobenzene	24		1.0	ug/L	20.0	3.8	102	80-120			
Toluene	21		1.0	ug/L	20.0	0.14 U	106	71-120			
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	109	74-120			
4-Bromofluorobenzene	58			ug/L	50.0		116	53-136			
Dibromofluoromethane	56			ug/L	50.0		111	67-129			
Toluene-d8	59			ug/L	50.0		118	59-134			

Matrix Spike Dup (1K10033-MSD1)

Prepared: 11/10/2021 13:59 Analyzed: 11/10/2021 23:36

Source: CE16371-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	109	75-133	0.4	20	
Benzene	21		1.0	ug/L	20.0	0.15 U	105	80-134	0.2	17	
Chlorobenzene	25		1.0	ug/L	20.0	3.8	104	80-120	1	16	
Toluene	22		1.0	ug/L	20.0	0.14 U	109	71-120	2	17	
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	108	74-120	0.6	22	
4-Bromofluorobenzene	59			ug/L	50.0		118	53-136			
Dibromofluoromethane	56			ug/L	50.0		112	67-129			
Toluene-d8	58			ug/L	50.0		117	59-134			

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 1K02027 - EPA 5030B_MS

Blank (1K02027-BLK1)

Prepared: 11/02/2021 00:00 Analyzed: 11/02/2021 12:02

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.80	U	2.0	ug/L							
Toluene-d8	5.5			ug/L	5.00		110	75-125			

LCS (1K02027-BS1)

Prepared: 11/02/2021 00:00 Analyzed: 11/02/2021 11:37

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	25		2.0	ug/L	25.0		102	80-133			
Toluene-d8	5.1			ug/L	5.00		103	75-125			

Matrix Spike (1K02027-MS1)

Prepared: 11/02/2021 00:00 Analyzed: 11/02/2021 21:19

Source: AE08658-12

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	26		2.0	ug/L	25.0	0.80 U	104	80-133			
Toluene-d8	5.4			ug/L	5.00		108	75-125			

Matrix Spike Dup (1K02027-MSD1)

Prepared: 11/02/2021 00:00 Analyzed: 11/02/2021 21:44

Source: AE08658-12

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	25		2.0	ug/L	25.0	0.80 U	102	80-133	2	19	

FINAL

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 1K02027 - EPA 5030B_MS - Continued

Matrix Spike Dup (1K02027-MSD1) Continued

Prepared: 11/02/2021 00:00 Analyzed: 11/02/2021 21:44

Source: AE08658-12

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Toluene-d8	5.5			ug/L	5.00		110	75-125			

Batch 1K02042 - EPA 5030B_MS

Blank (1K02042-BLK1)

Prepared: 11/02/2021 13:32 Analyzed: 11/03/2021 00:44

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.80	U	2.0	ug/L							
Toluene-d8	5.5			ug/L	5.00		109	75-125			

LCS (1K02042-BS1)

Prepared: 11/02/2021 13:32 Analyzed: 11/02/2021 23:01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	25		2.0	ug/L	25.0		100	80-133			
Toluene-d8	5.3			ug/L	5.00		106	75-125			

Matrix Spike (1K02042-MS1)

Prepared: 11/02/2021 13:32 Analyzed: 11/02/2021 23:27

Source: CE13949-17

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	27		2.0	ug/L	25.0	0.80 U	109	80-133			
Toluene-d8	5.4			ug/L	5.00		108	75-125			

Matrix Spike Dup (1K02042-MSD1)

Prepared: 11/02/2021 13:32 Analyzed: 11/02/2021 23:52

Source: CE13949-17

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	27		2.0	ug/L	25.0	0.80 U	108	80-133	0.9	19	
Toluene-d8	5.1			ug/L	5.00		103	75-125			

FLAGS/NOTES AND DEFINITIONS

- B** The analyte was detected in the associated method blank.
- D** The sample was analyzed at dilution.
- J** The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
- U** The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
- E** The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- MRL** Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
- PQL** PQL: Practical Quantitation Limit. The PQL presented is the laboratory MRL.
- N** The analysis indicates the presence of an analyte for which there is presumptive evidence (85% or greater confidence) to make a "tentative identification".
- P** Greater than 25% concentration difference was observed between the primary and secondary GC column. The lower concentration is reported.
- [CALC]** Calculated analyte - MDL/MRL reported to the highest reporting limit of the component analyses.
- QL-02** The associated laboratory control sample exhibited high bias; since the result is ND, there is no impact.
- QM-07** The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QV-01** The associated continuing calibration verification standard exhibited high bias; since the result is ND, there is no impact.



4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

Page 1 of 3

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary)								Sample Comments
MW-1		10-26-21	0830	G	WA	6	X								
MW-3C		10-26-21	0930	G	WA	6	X								
MW-6		10-28-21	1250	G	WA	6	X								
MW-10		10-26-21	1020	G	WA	6	X								
MW-12A		10-26-21	1310	G	WA	6	X								
MW-12B		10-26-21	1410	G	WA	6	X								
MW-12D		10-26-21	1440	G	WA	6	X								
MW-15A		10-28-21	0825	G	WA	6	X								
QW-DR2		10-28-21	0945	G	WA	6	X								
QW-LFS2		10-28-21	1215	G	WA	6	X								
PW-3D		10-27-21	1415	G	WA	6	X								
PW-5D		10-28-21	1040		WA	6	X								

Sample Kit Prepared By SGB	Date/Time 9/23/21	<-- Total # of Containers		
	Relinquished By <i>[Signature]</i>	Date/Time 10-28-21/1400	Received By <i>[Signature]</i>	Date/Time 10/29/21
	Relinquished By	Date/Time	Received By	Date/Time
	Relinquished By	Date/Time	Received By	Date/Time
	Cooler #'s & Temps on Receipt C-103	C-2184	Condition Upon Receipt X	Acceptable Unacceptable

GW-Groundwater	SO-Soil	DW-Drinking Water	SE-Sediment	SW-Surface Water	WW-Wastewater	A-Air	O-Other (detail in comments)	P-Preservation: I-Ice H-HCl N-NH ₃ S-H ₂ SO ₄ NO-NaOH O-Other (detail in comments)
Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist								



Client Name Babb & Associates (BA024)	Project Number [none]	Requested Analyses		Requested Turnaround Times
Address 5506 Bradford Pear Court	Project Name/Disc Seaboard/Riverdale Landfill			Note: Rush requests subject to acceptance by the facility
City/ST/Zip Raleigh, NC 27606	PO # / Billing Info			☒ Standard
Tel (919) 605-4719	Reporting Contact Gary Babb			☐ Expedited
Fax	Billing Contact Randy Smith			Due <u> </u> / <u> </u> / <u> </u>
Sampler(s) Name, Affiliation (Print) <i>Ronald Barton / PLS</i>	Site Location / Time Zone <i>High Point / EDT</i>			Lab Workorder CE13949
Sampler(s) Signature <i>Ronald Barton</i>				

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Preservation (See Codes)												Sample Comments
							10-27-21	10-28-21	10-29-21	10-30-21	11-01-21	11-02-21	11-03-21	11-04-21	11-05-21	11-06-21	11-07-21	11-08-21	
	PW-4I	10-27-21	1505	G	WA	6	X												
	PW-6I	10-28-21	1145	G	WA	6	X												
	PW-6D	10-28-21	1115	G	WA	6	X												
	PW-10I	10-26-21	1200	G	WA	6	X												
	PW-10D	10-26-21	1110	G	WA	6	X												
	PW-12I	10-28-21	1325	G	WA	6	X												
	PW-13I	10-28-21	0900		WA	6	X												
	PW-14D	10-27-21	1100	G	WA	6	X												
	PW-15D	10-27-21	1020	G	WA	6	X												
	PW-16D	10-27-21	0910	G	WA	6	X												
	PW-18				WA	6	X												
	PW-SF1	10-27-21	1305	G	WA	6	X												

Sample Kit Prepared By <i>SqB</i>	Date/Time <i>9/23/21</i>	Relinquished By <i>Ronald Barton</i>	Date/Time <i>10-28-21/1400</i>	Received By <i>James Depas</i>	Date/Time <i>10/29/21/1045</i>
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
Cooler #'s & Temps on Receipt			Condition Upon Receipt		
			<i>1.0°</i> ☒ Acceptable ☐ Unacceptable		
GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.					

[illegible]

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
SQB	9/23/21	12 Wall Bauer	10-28-21/1400	James	10/29/21 1015
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
Cooler #'s & Temps on Receipt					
				Condition Upon Receipt	Unacceptable
				1.0	Acceptable



ENCO Laboratories

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102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515

Monday, November 8, 2021

Babb & Associates (BA024)

Attn: Gary Babb

5506 Bradford Pear Court

Raleigh, NC 27606

RE: Laboratory Results for

Project Number: [none], Project Name/Desc: Seaboard/Riverdale Landfill- SW Sampling

ENCO Workorder(s): CE13951

Dear Gary Babb,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, October 22, 2021.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative if applicable. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Bill Scott

Project Manager

Enclosure(s)

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4401-SW3		Lab ID: CE13951-01	Sampled: 10/21/21 09:20		Received: 10/22/21 10:30
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/04/21	10/28/21	11:10	10/28/21 14:58
EPA 8260D	EPA 5030B_MS	11/04/21	11/02/21	09:27	11/02/21 21:02
Client ID: 4401-SW4		Lab ID: CE13951-02	Sampled: 10/21/21 09:35		Received: 10/22/21 10:30
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/04/21	11/01/21	20:16	11/02/21 08:35
Client ID: 4401-SW4		Lab ID: CE13951-02RE1	Sampled: 10/21/21 09:35		Received: 10/22/21 10:30
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/04/21	10/29/21	11:05	10/29/21 21:33
EPA 8260D	EPA 5030B_MS	11/04/21	11/02/21	19:29	11/03/21 16:02
Client ID: 4401-SW5		Lab ID: CE13951-03	Sampled: 10/21/21 09:10		Received: 10/22/21 10:30
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/04/21	11/01/21	20:16	11/02/21 09:02
Client ID: 4401-SW5		Lab ID: CE13951-03RE1	Sampled: 10/21/21 09:10		Received: 10/22/21 10:30
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/04/21	10/29/21	11:05	10/29/21 13:24
EPA 8260D	EPA 5030B_MS	11/04/21	11/02/21	16:29	11/02/21 22:57
Client ID: 4401-SW6Surface		Lab ID: CE13951-04	Sampled: 10/21/21 10:10		Received: 10/22/21 10:30
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/04/21	10/28/21	11:10	10/28/21 16:15
EPA 8260D	EPA 5030B_MS	11/04/21	11/01/21	20:16	11/02/21 09:30
Client ID: 4401-SW6Bottom		Lab ID: CE13951-05	Sampled: 10/21/21 10:20		Received: 10/22/21 10:30
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/04/21	10/28/21	11:10	10/28/21 16:40
EPA 8260D	EPA 5030B_MS	11/04/21	11/01/21	20:16	11/02/21 09:57
Client ID: 4401-SW7Bottom		Lab ID: CE13951-06	Sampled: 10/21/21 11:55		Received: 10/22/21 10:30
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/04/21	10/28/21	11:10	10/28/21 17:06
EPA 8260D	EPA 5030B_MS	11/04/21	11/01/21	20:16	11/02/21 10:25
Client ID: 4401-SW7Surface		Lab ID: CE13951-07	Sampled: 10/21/21 11:50		Received: 10/22/21 10:30
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/04/21	10/28/21	11:10	10/28/21 17:32
EPA 8260D	EPA 5030B_MS	11/04/21	11/01/21	20:16	11/02/21 10:52
Client ID: 4401-SWDRP2Bottom		Lab ID: CE13951-08	Sampled: 10/21/21 11:30		Received: 10/22/21 10:30
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/04/21	10/28/21	11:10	10/28/21 17:58
EPA 8260D	EPA 5030B_MS	11/04/21	11/01/21	20:16	11/02/21 11:20
Client ID: 4401-SWDRP2Surface		Lab ID: CE13951-09	Sampled: 10/21/21 11:15		Received: 10/22/21 10:30
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/04/21	10/28/21	11:10	10/28/21 18:23
EPA 8260D	EPA 5030B_MS	11/04/21	11/01/21	20:16	11/02/21 11:47
Client ID: 4401-SWDRP11Surface		Lab ID: CE13951-10	Sampled: 10/21/21 12:30		Received: 10/22/21 10:30
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	11/04/21	10/28/21	11:10	10/28/21 18:49
EPA 8260D	EPA 5030B_MS	11/04/21	11/01/21	20:16	11/02/21 12:15

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4401-SWDRP11Bottom	Lab ID: CE13951-11	Sampled: 10/21/21 12:40	Received: 10/22/21 10:30
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<u>Parameter</u>	<u>Preparation</u>	<u>Hold Date/Time(s)</u>	<u>Prep Date/Time(s)</u>	<u>Analysis Date/Time(s)</u>
EPA 8260D	EPA 5030B_MS	11/04/21	10/28/21 11:10	10/28/21 19:15
EPA 8260D	EPA 5030B_MS	11/04/21	11/01/21 20:16	11/02/21 12:42

Client ID: 4401-TripBlank	Lab ID: CE13951-12	Sampled: 10/21/21 09:10	Received: 10/22/21 10:30
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<u>Parameter</u>	<u>Preparation</u>	<u>Hold Date/Time(s)</u>	<u>Prep Date/Time(s)</u>	<u>Analysis Date/Time(s)</u>
EPA 8260D	EPA 5030B_MS	11/04/21	10/28/21 11:10	10/28/21 19:40
EPA 8260D	EPA 5030B_MS	11/04/21	11/01/21 20:16	11/02/21 08:07

SAMPLE DETECTION SUMMARY

Client ID: 4401-SW3

Lab ID: CE13951-01

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1,1-Trichloroethane	0.95	J	0.12	1.0	ug/L	EPA 8260D	
1,1-Dichloroethane	2.1		0.13	1.0	ug/L	EPA 8260D	
1,4-Dioxane	4.6		0.80	2.0	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	2.6		0.15	1.0	ug/L	EPA 8260D	

Client ID: 4401-SW4

Lab ID: CE13951-02

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1,1-Trichloroethane	170	D	1.2	10	ug/L	EPA 8260D	
1,1-Dichloroethane	1100	D	1.3	10	ug/L	EPA 8260D	
1,1-Dichloroethene	670	D	2.1	10	ug/L	EPA 8260D	
1,2-Dichlorobenzene	9.3	JD	1.9	10	ug/L	EPA 8260D	
1,2-Dichloroethane	120	D	2.1	10	ug/L	EPA 8260D	
Chlorobenzene	1700	D	1.7	10	ug/L	EPA 8260D	
Chloroethane	100	D	2.3	10	ug/L	EPA 8260D	
Tetrachloroethene	18	D	1.7	10	ug/L	EPA 8260D	
Toluene	11	D	1.4	10	ug/L	EPA 8260D	

Client ID: 4401-SW4

Lab ID: CE13951-02RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dioxane	1500	D	40	100	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	3300	D	7.5	50	ug/L	EPA 8260D	
Vinyl chloride	1500	D	16	50	ug/L	EPA 8260D	

Client ID: 4401-SW5

Lab ID: CE13951-03RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dioxane	2.2		0.80	2.0	ug/L	EPA 8260D	

Client ID: 4401-SWDRP11Surface

Lab ID: CE13951-10

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dioxane	1.4	J	0.80	2.0	ug/L	EPA 8260D	

Client ID: 4401-SWDRP11Bottom

Lab ID: CE13951-11

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dioxane	1.2	J	0.80	2.0	ug/L	EPA 8260D	

ANALYTICAL RESULTS

Description: 4401-SW3

Lab Sample ID: CE13951-01

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 09:20

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
1,1,1-Trichloroethane [71-55-6]^	0.95	J	ug/L	1	0.12	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
1,1-Dichloroethane [75-34-3]^	2.1		ug/L	1	0.13	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K02007	EPA 8260D	11/02/21 21:02	ref	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K02007	EPA 8260D	11/02/21 21:02	ref	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
cis-1,2-Dichloroethene [156-59-2]^	2.6		ug/L	1	0.15	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	

ANALYTICAL RESULTS

Description: 4401-SW3

Lab Sample ID: CE13951-01

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 09:20

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K02007	EPA 8260D	11/02/21 21:02	ref	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K02007	EPA 8260D	11/02/21 21:02	ref	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	53	1	50.0	105 %	53-136	1K02007	EPA 8260D	11/02/21 21:02	ref	
Dibromofluoromethane	57	1	50.0	115 %	67-129	1K02007	EPA 8260D	11/02/21 21:02	ref	
Toluene-d8	58	1	50.0	116 %	59-134	1K02007	EPA 8260D	11/02/21 21:02	ref	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	4.6		ug/L	1	0.80	2.0	1J28029	EPA 8260D	10/28/21 14:58	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.0	1	5.00	100 %	75-125	1J28029	EPA 8260D	10/28/21 14:58	KKW	

ANALYTICAL RESULTS

Description: 4401-SW4

Lab Sample ID: CE13951-02

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 09:35

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	1.7	UD	ug/L	10	1.7	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
1,1,1-Trichloroethane [71-55-6]^	170	D	ug/L	10	1.2	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	2.8	UD	ug/L	10	2.8	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
1,1,2-Trichloroethane [79-00-5]^	1.4	UD	ug/L	10	1.4	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
1,1-Dichloroethane [75-34-3]^	1100	D	ug/L	10	1.3	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
1,1-Dichloroethene [75-35-4]^	670	D	ug/L	10	2.1	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
1,2,3-Trichloropropane [96-18-4]^	2.3	UD	ug/L	10	2.3	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	4.8	UD	ug/L	10	4.8	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
1,2-Dibromoethane [106-93-4]^	6.6	UD	ug/L	10	6.6	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
1,2-Dichlorobenzene [95-50-1]^	9.3	JD	ug/L	10	1.9	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
1,2-Dichloroethane [107-06-2]^	120	D	ug/L	10	2.1	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
1,2-Dichloropropane [78-87-5]^	1.0	UD	ug/L	10	1.0	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
1,4-Dichlorobenzene [106-46-7]^	1.9	UD	ug/L	10	1.9	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
2-Butanone [78-93-3]^	13	UD	ug/L	10	13	50	1K01045	EPA 8260D	11/02/21 08:35	RKY	
2-Hexanone [591-78-6]^	8.8	UD	ug/L	10	8.8	50	1K01045	EPA 8260D	11/02/21 08:35	RKY	
4-Methyl-2-pentanone [108-10-1]^	11	UD	ug/L	10	11	50	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Acetone [67-64-1]^	100	UD	ug/L	10	100	200	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Acrylonitrile [107-13-1]^	35	UD	ug/L	10	35	100	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Benzene [71-43-2]^	1.5	UD	ug/L	10	1.5	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Bromochloromethane [74-97-5]^	4.8	UD	ug/L	10	4.8	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Bromodichloromethane [75-27-4]^	1.7	UD	ug/L	10	1.7	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Bromoform [75-25-2]^	2.2	UD	ug/L	10	2.2	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Bromomethane [74-83-9]^	1.4	UD	ug/L	10	1.4	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Carbon disulfide [75-15-0]^	15	UD	ug/L	10	15	50	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Carbon tetrachloride [56-23-5]^	1.7	UD	ug/L	10	1.7	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Chlorobenzene [108-90-7]^	1700	D	ug/L	10	1.7	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Chloroethane [75-00-3]^	100	D	ug/L	10	2.3	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Chloroform [67-66-3]^	1.8	UD	ug/L	10	1.8	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Chloromethane [74-87-3]^	1.3	UD	ug/L	10	1.3	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
cis-1,2-Dichloroethene [156-59-2]^	3300	D	ug/L	50	7.5	50	1K02032	EPA 8260D	11/03/21 16:02	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	2.0	UD	ug/L	10	2.0	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Dibromochloromethane [124-48-1]^	1.7	UD	ug/L	10	1.7	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Dibromomethane [74-95-3]^	2.7	UD	ug/L	10	2.7	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Ethylbenzene [100-41-4]^	1.3	UD	ug/L	10	1.3	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Iodomethane [74-88-4]^	17	UD	ug/L	10	17	50	1K01045	EPA 8260D	11/02/21 08:35	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	1.7	UD	ug/L	10	1.7	20	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Methylene chloride [75-09-2]^	2.3	UD	ug/L	10	2.3	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
o-Xylene [95-47-6]^	0.65	UD	ug/L	10	0.65	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Styrene [100-42-5]^	1.1	UD	ug/L	10	1.1	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Tetrachloroethene [127-18-4]^	18	D	ug/L	10	1.7	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Toluene [108-88-3]^	11	D	ug/L	10	1.4	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
trans-1,2-Dichloroethene [156-60-5]^	2.1	UD	ug/L	10	2.1	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	1.5	UD	ug/L	10	1.5	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	7.0	UD	ug/L	10	7.0	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Trichloroethene [79-01-6]^	1.5	UD	ug/L	10	1.5	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Trichlorofluoromethane [75-69-4]^	2.4	UD	ug/L	10	2.4	10	1K01045	EPA 8260D	11/02/21 08:35	RKY	

ANALYTICAL RESULTS

Description: 4401-SW4

Lab Sample ID: CE13951-02

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 09:35

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4]^	9.5	UD	ug/L	10	9.5	50	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Vinyl chloride [75-01-4]^	1500	D	ug/L	50	16	50	1K02032	EPA 8260D	11/03/21 16:02	RKY	
Xylenes (Total) [1330-20-7]^	4.5	UD	ug/L	10	4.5	30	1K01045	EPA 8260D	11/02/21 08:35	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	60	1	50.0	120 %	53-136	1K01045	EPA 8260D	11/02/21 08:35	RKY	
4-Bromofluorobenzene	51	1	50.0	101 %	53-136	1K02032	EPA 8260D	11/03/21 16:02	RKY	
Dibromofluoromethane	47	1	50.0	95 %	67-129	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Dibromofluoromethane	51	1	50.0	102 %	67-129	1K02032	EPA 8260D	11/03/21 16:02	RKY	
Toluene-d8	50	1	50.0	100 %	59-134	1K01045	EPA 8260D	11/02/21 08:35	RKY	
Toluene-d8	49	1	50.0	97 %	59-134	1K02032	EPA 8260D	11/03/21 16:02	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

<u>Analyte</u> [<u>CAS Number</u>]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
1,4-Dioxane [123-91-1] [^]	1500	D	ug/L	50	40	100	1J29022	EPA 8260D	10/29/21 21:33	KKW	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>	
Toluene-d8	5.4	1	5.00	107 %	75-125	1J29022	EPA 8260D	10/29/21 21:33	KKW		

ANALYTICAL RESULTS

Description: 4401-SW5

Lab Sample ID: CE13951-03

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 09:10

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K02031	EPA 8260D	11/02/21 22:57	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	

ANALYTICAL RESULTS

Description: 4401-SW5

Lab Sample ID: CE13951-03

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 09:10

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K01045	EPA 8260D	11/02/21 09:02	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	61	1	50.0	123 %	53-136	1K01045	EPA 8260D	11/02/21 09:02	RKY	
4-Bromofluorobenzene	66	1	50.0	131 %	53-136	1K02031	EPA 8260D	11/02/21 22:57	RKY	
Dibromofluoromethane	50	1	50.0	99 %	67-129	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Dibromofluoromethane	57	1	50.0	114 %	67-129	1K02031	EPA 8260D	11/02/21 22:57	RKY	
Toluene-d8	52	1	50.0	103 %	59-134	1K01045	EPA 8260D	11/02/21 09:02	RKY	
Toluene-d8	61	1	50.0	121 %	59-134	1K02031	EPA 8260D	11/02/21 22:57	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

<u>Analyte</u> [<u>CAS Number</u>]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
1,4-Dioxane [123-91-1]^	2.2		ug/L	1	0.80	2.0	1J29022	EPA 8260D	10/29/21 13:24	KKW	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>	
Toluene-d8	5.1	1	5.00	101 %	75-125	1J29022	EPA 8260D	10/29/21 13:24	KKW		

ANALYTICAL RESULTS

Description: 4401-SW6Surface

Lab Sample ID: CE13951-04

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 10:10

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	

ANALYTICAL RESULTS

Description: 4401-SW6Surface

Lab Sample ID: CE13951-04

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 10:10

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K01045	EPA 8260D	11/02/21 09:30	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	57	1	50.0	114 %	53-136	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Dibromofluoromethane	49	1	50.0	97 %	67-129	1K01045	EPA 8260D	11/02/21 09:30	RKY	
Toluene-d8	52	1	50.0	103 %	59-134	1K01045	EPA 8260D	11/02/21 09:30	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	0.80	U	ug/L	1	0.80	2.0	1J28029	EPA 8260D	10/28/21 16:15	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.2	1	5.00	103 %	75-125	1J28029	EPA 8260D	10/28/21 16:15	KKW	

ANALYTICAL RESULTS

Description: 4401-SW6Bottom

Lab Sample ID: CE13951-05

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 10:20

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	

ANALYTICAL RESULTS

Description: 4401-SW6Bottom

Lab Sample ID: CE13951-05

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 10:20

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K01045	EPA 8260D	11/02/21 09:57	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	61	1	50.0	122 %	53-136	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Dibromofluoromethane	54	1	50.0	109 %	67-129	1K01045	EPA 8260D	11/02/21 09:57	RKY	
Toluene-d8	52	1	50.0	105 %	59-134	1K01045	EPA 8260D	11/02/21 09:57	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	0.80	U	ug/L	1	0.80	2.0	1J28029	EPA 8260D	10/28/21 16:40	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	4.7	1	5.00	95 %	75-125	1J28029	EPA 8260D	10/28/21 16:40	KKW	

ANALYTICAL RESULTS

Description: 4401-SW7Bottom

Lab Sample ID: CE13951-06

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 11:55

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	

ANALYTICAL RESULTS

Description: 4401-SW7Bottom

Lab Sample ID: CE13951-06

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 11:55

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K01045	EPA 8260D	11/02/21 10:25	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	61	1	50.0	122 %	53-136	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Dibromofluoromethane	57	1	50.0	115 %	67-129	1K01045	EPA 8260D	11/02/21 10:25	RKY	
Toluene-d8	53	1	50.0	106 %	59-134	1K01045	EPA 8260D	11/02/21 10:25	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	0.80	U	ug/L	1	0.80	2.0	1J28029	EPA 8260D	10/28/21 17:06	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.2	1	5.00	104 %	75-125	1J28029	EPA 8260D	10/28/21 17:06	KKW	

ANALYTICAL RESULTS

Description: 4401-SW7Surface

Lab Sample ID: CE13951-07

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 11:50

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	

ANALYTICAL RESULTS

Description: 4401-SW7Surface

Lab Sample ID: CE13951-07

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 11:50

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K01045	EPA 8260D	11/02/21 10:52	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	62	1	50.0	125 %	53-136	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Dibromofluoromethane	49	1	50.0	98 %	67-129	1K01045	EPA 8260D	11/02/21 10:52	RKY	
Toluene-d8	51	1	50.0	103 %	59-134	1K01045	EPA 8260D	11/02/21 10:52	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	0.80	U	ug/L	1	0.80	2.0	1J28029	EPA 8260D	10/28/21 17:32	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.0	1	5.00	101 %	75-125	1J28029	EPA 8260D	10/28/21 17:32	KKW	

ANALYTICAL RESULTS

Description: 4401-SWDRP2Bottom

Lab Sample ID: CE13951-08

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 11:30

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	

ANALYTICAL RESULTS

Description: 4401-SWDRP2Bottom

Lab Sample ID: CE13951-08

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 11:30

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K01045	EPA 8260D	11/02/21 11:20	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	65	1	50.0	129 %	53-136	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Dibromofluoromethane	55	1	50.0	111 %	67-129	1K01045	EPA 8260D	11/02/21 11:20	RKY	
Toluene-d8	54	1	50.0	109 %	59-134	1K01045	EPA 8260D	11/02/21 11:20	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	0.80	U	ug/L	1	0.80	2.0	1J28029	EPA 8260D	10/28/21 17:58	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.4	1	5.00	107 %	75-125	1J28029	EPA 8260D	10/28/21 17:58	KKW	

ANALYTICAL RESULTS

Description: 4401-SWDRP2Surface

Lab Sample ID: CE13951-09

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 11:15

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	

ANALYTICAL RESULTS

Description: 4401-SWDRP2Surface

Lab Sample ID: CE13951-09

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 11:15

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K01045	EPA 8260D	11/02/21 11:47	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	66	1	50.0	132 %	53-136	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Dibromofluoromethane	53	1	50.0	106 %	67-129	1K01045	EPA 8260D	11/02/21 11:47	RKY	
Toluene-d8	56	1	50.0	112 %	59-134	1K01045	EPA 8260D	11/02/21 11:47	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	0.80	U	ug/L	1	0.80	2.0	1J28029	EPA 8260D	10/28/21 18:23	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.0	1	5.00	101 %	75-125	1J28029	EPA 8260D	10/28/21 18:23	KKW	

ANALYTICAL RESULTS

Description: 4401-SWDRP11Surface

Lab Sample ID: CE13951-10

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 12:30

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	

ANALYTICAL RESULTS

Description: 4401-SWDRP11Surface

Lab Sample ID: CE13951-10

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 12:30

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K01045	EPA 8260D	11/02/21 12:15	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	64	1	50.0	128 %	53-136	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Dibromofluoromethane	53	1	50.0	107 %	67-129	1K01045	EPA 8260D	11/02/21 12:15	RKY	
Toluene-d8	56	1	50.0	111 %	59-134	1K01045	EPA 8260D	11/02/21 12:15	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	1.4	J	ug/L	1	0.80	2.0	1J28029	EPA 8260D	10/28/21 18:49	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.1	1	5.00	103 %	75-125	1J28029	EPA 8260D	10/28/21 18:49	KKW	

ANALYTICAL RESULTS

Description: 4401-SWDRP11Bottom

Lab Sample ID: CE13951-11

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 12:40

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	

ANALYTICAL RESULTS

Description: 4401-SWDRP11Bottom

Lab Sample ID: CE13951-11

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 12:40

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: Ronald Barron

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K01045	EPA 8260D	11/02/21 12:42	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	62	1	50.0	125 %	53-136	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Dibromofluoromethane	54	1	50.0	108 %	67-129	1K01045	EPA 8260D	11/02/21 12:42	RKY	
Toluene-d8	56	1	50.0	111 %	59-134	1K01045	EPA 8260D	11/02/21 12:42	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	1.2	J	ug/L	1	0.80	2.0	1J28029	EPA 8260D	10/28/21 19:15	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.1	1	5.00	103 %	75-125	1J28029	EPA 8260D	10/28/21 19:15	KKW	

ANALYTICAL RESULTS

Description: 4401-TripBlank

Lab Sample ID: CE13951-12

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 09:10

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: ENCO

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
1,1,1-Trichloroethane [71-55-6]^	0.12	U	ug/L	1	0.12	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.28	U	ug/L	1	0.28	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
1,1,2-Trichloroethane [79-00-5]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
1,1-Dichloroethane [75-34-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
1,1-Dichloroethene [75-35-4]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
1,2,3-Trichloropropane [96-18-4]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
1,2-Dibromoethane [106-93-4]^	0.66	U	ug/L	1	0.66	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
1,2-Dichlorobenzene [95-50-1]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
1,2-Dichloroethane [107-06-2]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
1,2-Dichloropropane [78-87-5]^	0.10	U	ug/L	1	0.10	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
1,4-Dichlorobenzene [106-46-7]^	0.19	U	ug/L	1	0.19	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
2-Butanone [78-93-3]^	1.3	U	ug/L	1	1.3	5.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
2-Hexanone [591-78-6]^	0.88	U	ug/L	1	0.88	5.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
4-Methyl-2-pentanone [108-10-1]^	1.1	U	ug/L	1	1.1	5.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Acrylonitrile [107-13-1]^	3.5	U	ug/L	1	3.5	10	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Benzene [71-43-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Bromochloromethane [74-97-5]^	0.48	U	ug/L	1	0.48	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Bromodichloromethane [75-27-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Bromoform [75-25-2]^	0.22	U	ug/L	1	0.22	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Bromomethane [74-83-9]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Carbon disulfide [75-15-0]^	1.5	U	ug/L	1	1.5	5.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Carbon tetrachloride [56-23-5]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Chlorobenzene [108-90-7]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Chloroethane [75-00-3]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Chloroform [67-66-3]^	0.18	U	ug/L	1	0.18	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Chloromethane [74-87-3]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
cis-1,2-Dichloroethene [156-59-2]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
cis-1,3-Dichloropropene [10061-01-5]^	0.20	U	ug/L	1	0.20	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Dibromochloromethane [124-48-1]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Dibromomethane [74-95-3]^	0.27	U	ug/L	1	0.27	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Ethylbenzene [100-41-4]^	0.13	U	ug/L	1	0.13	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Iodomethane [74-88-4]^	1.7	U	ug/L	1	1.7	5.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
m,p-Xylenes [108-38-3/106-42-3]^	0.17	U	ug/L	1	0.17	2.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Methylene chloride [75-09-2]^	0.23	U	ug/L	1	0.23	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
o-Xylene [95-47-6]^	0.065	U	ug/L	1	0.065	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Styrene [100-42-5]^	0.11	U	ug/L	1	0.11	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Tetrachloroethene [127-18-4]^	0.17	U	ug/L	1	0.17	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Toluene [108-88-3]^	0.14	U	ug/L	1	0.14	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
trans-1,2-Dichloroethene [156-60-5]^	0.21	U	ug/L	1	0.21	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
trans-1,3-Dichloropropene [10061-02-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.70	U	ug/L	1	0.70	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Trichloroethene [79-01-6]^	0.15	U	ug/L	1	0.15	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Trichlorofluoromethane [75-69-4]^	0.24	U	ug/L	1	0.24	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	

ANALYTICAL RESULTS

Description: 4401-TripBlank

Lab Sample ID: CE13951-12

Received: 10/22/21 10:30

Matrix: Water

Sampled: 10/21/21 09:10

Work Order: CE13951

Project: Seaboard/Riverdale Landfill- SW

Sampled By: ENCO

Sampling

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4]^	0.95	U	ug/L	1	0.95	5.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Vinyl chloride [75-01-4]^	0.32	U	ug/L	1	0.32	1.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Xylenes (Total) [1330-20-7]^	0.45	U	ug/L	1	0.45	3.0	1K01045	EPA 8260D	11/02/21 08:07	RKY	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	62	1	50.0	124 %	53-136	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Dibromofluoromethane	48	1	50.0	95 %	67-129	1K01045	EPA 8260D	11/02/21 08:07	RKY	
Toluene-d8	50	1	50.0	100 %	59-134	1K01045	EPA 8260D	11/02/21 08:07	RKY	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	0.80	U	ug/L	1	0.80	2.0	1J28029	EPA 8260D	10/28/21 19:40	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Toluene-d8	5.4	1	5.00	109 %	75-125	1J28029	EPA 8260D	10/28/21 19:40	KKW	

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K01045 - EPA 5030B_MS

Blank (1K01045-BLK1)

Prepared: 11/01/2021 20:16 Analyzed: 11/02/2021 07:40

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	10	U	20	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K01045 - EPA 5030B_MS - Continued

Blank (1K01045-BLK1) Continued

Prepared: 11/01/2021 20:16 Analyzed: 11/02/2021 07:40

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Bromofluorobenzene	64			ug/L	50.0		128	53-136			
Dibromofluoromethane	51			ug/L	50.0		102	67-129			
Toluene-d8	51			ug/L	50.0		102	59-134			

LCS (1K01045-BS1)

Prepared: 11/01/2021 20:16 Analyzed: 11/02/2021 05:50

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0		85	75-133			
Benzene	17		1.0	ug/L	20.0		85	80-134			
Chlorobenzene	18		1.0	ug/L	20.0		91	80-120			
Toluene	22		1.0	ug/L	20.0		108	71-120			
Trichloroethene	21		1.0	ug/L	20.0		106	74-120			
4-Bromofluorobenzene	61			ug/L	50.0		122	53-136			
Dibromofluoromethane	48			ug/L	50.0		96	67-129			
Toluene-d8	51			ug/L	50.0		103	59-134			

Matrix Spike (1K01045-MS1)

Prepared: 11/01/2021 20:16 Analyzed: 11/02/2021 06:17

Source: CE16545-10

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	109	75-133			
Benzene	18		1.0	ug/L	20.0	0.15 U	92	80-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	103	80-120			
Toluene	24		1.0	ug/L	20.0	0.14 U	121	71-120			QM-07
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	103	74-120			
4-Bromofluorobenzene	60			ug/L	50.0		120	53-136			
Dibromofluoromethane	46			ug/L	50.0		93	67-129			
Toluene-d8	50			ug/L	50.0		99	59-134			

Matrix Spike Dup (1K01045-MSD1)

Prepared: 11/01/2021 20:16 Analyzed: 11/02/2021 06:45

Source: CE16545-10

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.21 U	84	75-133	26	20	QM-11
Benzene	16		1.0	ug/L	20.0	0.15 U	80	80-134	13	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	88	80-120	16	16	
Toluene	20		1.0	ug/L	20.0	0.14 U	102	71-120	17	17	
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	88	74-120	16	22	
4-Bromofluorobenzene	62			ug/L	50.0		124	53-136			
Dibromofluoromethane	47			ug/L	50.0		95	67-129			
Toluene-d8	50			ug/L	50.0		100	59-134			

Batch 1K02007 - EPA 5030B_MS

Blank (1K02007-BLK1)

Prepared: 11/02/2021 09:27 Analyzed: 11/02/2021 17:52

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K02007 - EPA 5030B_MS - Continued

Blank (1K02007-BLK1) Continued

Prepared: 11/02/2021 09:27 Analyzed: 11/02/2021 17:52

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	10	U	20	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
4-Bromofluorobenzene	53			ug/L	50.0		106	53-136			
Dibromofluoromethane	55			ug/L	50.0		110	67-129			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K02007 - EPA 5030B_MS - Continued

Blank (1K02007-BLK1) Continued

Prepared: 11/02/2021 09:27 Analyzed: 11/02/2021 17:52

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Toluene-d8	58			ug/L	50.0		115	59-134			

LCS (1K02007-BS1)

Prepared: 11/02/2021 09:27 Analyzed: 11/02/2021 16:03

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		102	75-133			
Benzene	20		1.0	ug/L	20.0		100	80-134			
Chlorobenzene	18		1.0	ug/L	20.0		92	80-120			
Toluene	18		1.0	ug/L	20.0		92	71-120			
Trichloroethene	21		1.0	ug/L	20.0		104	74-120			
4-Bromofluorobenzene	55			ug/L	50.0		109	53-136			
Dibromofluoromethane	55			ug/L	50.0		110	67-129			
Toluene-d8	57			ug/L	50.0		115	59-134			

Matrix Spike (1K02007-MS1)

Prepared: 11/02/2021 09:27 Analyzed: 11/02/2021 16:30

Source: CE16545-05

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.21 U	113	75-133			
Benzene	22		1.0	ug/L	20.0	0.15 U	108	80-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	96	80-120			
Toluene	20		1.0	ug/L	20.0	0.14 U	100	71-120			
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	108	74-120			
4-Bromofluorobenzene	55			ug/L	50.0		109	53-136			
Dibromofluoromethane	56			ug/L	50.0		111	67-129			
Toluene-d8	58			ug/L	50.0		116	59-134			

Matrix Spike Dup (1K02007-MSD1)

Prepared: 11/02/2021 09:27 Analyzed: 11/02/2021 16:58

Source: CE16545-05

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.21 U	104	75-133	8	20	
Benzene	21		1.0	ug/L	20.0	0.15 U	104	80-134	4	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	91	80-120	6	16	
Toluene	19		1.0	ug/L	20.0	0.14 U	94	71-120	6	17	
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	109	74-120	0.4	22	
4-Bromofluorobenzene	55			ug/L	50.0		110	53-136			
Dibromofluoromethane	55			ug/L	50.0		110	67-129			
Toluene-d8	56			ug/L	50.0		112	59-134			

Batch 1K02031 - EPA 5030B_MS

Blank (1K02031-BLK1)

Prepared: 11/02/2021 16:29 Analyzed: 11/02/2021 20:40

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K02031 - EPA 5030B_MS - Continued

Blank (1K02031-BLK1) Continued

Prepared: 11/02/2021 16:29 Analyzed: 11/02/2021 20:40

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	10	U	20	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
4-Bromofluorobenzene	69			ug/L	50.0		138	53-136			QS-03
Dibromofluoromethane	59			ug/L	50.0		118	67-129			
Toluene-d8	62			ug/L	50.0		124	59-134			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K02031 - EPA 5030B_MS - Continued

LCS (1K02031-BS1)

Prepared: 11/02/2021 16:29 Analyzed: 11/02/2021 18:50

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		91	75-133			
Benzene	17		1.0	ug/L	20.0		83	80-134			
Chlorobenzene	19		1.0	ug/L	20.0		95	80-120			
Toluene	21		1.0	ug/L	20.0		107	71-120			
Trichloroethene	17		1.0	ug/L	20.0		85	74-120			
4-Bromofluorobenzene	65			ug/L	50.0		130	53-136			
Dibromofluoromethane	60			ug/L	50.0		120	67-129			
Toluene-d8	61			ug/L	50.0		122	59-134			

Matrix Spike (1K02031-MS1)

Prepared: 11/02/2021 16:29 Analyzed: 11/02/2021 19:17

Source: CE16545-07

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.21 U	88	75-133			
Benzene	17		1.0	ug/L	20.0	0.15 U	87	80-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	96	80-120			
Toluene	22		1.0	ug/L	20.0	0.14 U	112	71-120			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	95	74-120			
4-Bromofluorobenzene	66			ug/L	50.0		133	53-136			
Dibromofluoromethane	56			ug/L	50.0		113	67-129			
Toluene-d8	61			ug/L	50.0		122	59-134			

Matrix Spike Dup (1K02031-MSD1)

Prepared: 11/02/2021 16:29 Analyzed: 11/02/2021 19:45

Source: CE16545-07

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.21 U	89	75-133	0.2	20	
Benzene	18		1.0	ug/L	20.0	0.15 U	89	80-134	2	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	96	80-120	0	16	
Toluene	23		1.0	ug/L	20.0	0.14 U	113	71-120	1	17	
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	91	74-120	4	22	
4-Bromofluorobenzene	67			ug/L	50.0		134	53-136			
Dibromofluoromethane	54			ug/L	50.0		108	67-129			
Toluene-d8	61			ug/L	50.0		122	59-134			

Batch 1K02032 - EPA 5030B_MS

Blank (1K02032-BLK1)

Prepared: 11/02/2021 19:29 Analyzed: 11/03/2021 07:41

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K02032 - EPA 5030B_MS - Continued

Blank (1K02032-BLK1) Continued

Prepared: 11/02/2021 19:29 Analyzed: 11/03/2021 07:41

Analyte	Result	Flaq	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	10	U	20	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
4-Bromofluorobenzene	48			ug/L	50.0		97	53-136			
Dibromofluoromethane	47			ug/L	50.0		93	67-129			
Toluene-d8	46			ug/L	50.0		91	59-134			

LCS (1K02032-BS1)

Prepared: 11/02/2021 19:29 Analyzed: 11/03/2021 05:44

Analyte	Result	Flaq	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		102	75-133			
Benzene	20		1.0	ug/L	20.0		102	80-134			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K02032 - EPA 5030B_MS - Continued

LCS (1K02032-BS1) Continued

Prepared: 11/02/2021 19:29 Analyzed: 11/03/2021 05:44

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	15		1.0	ug/L	20.0		75	80-120			A-07
Toluene	19		1.0	ug/L	20.0		94	71-120			
Trichloroethene	25		1.0	ug/L	20.0		126	74-120			QL-02
4-Bromofluorobenzene	55			ug/L	50.0		110	53-136			
Dibromofluoromethane	48			ug/L	50.0		96	67-129			
Toluene-d8	46			ug/L	50.0		93	59-134			

Matrix Spike (1K02032-MS1)

Prepared: 11/02/2021 19:29 Analyzed: 11/03/2021 06:14

Source: CE15679-16

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.21 U	114	75-133			
Benzene	21		1.0	ug/L	20.0	0.15 U	103	80-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	92	80-120			
Toluene	16		1.0	ug/L	20.0	0.14 U	82	71-120			
Trichloroethene	23		1.0	ug/L	20.0	0.15 U	116	74-120			
4-Bromofluorobenzene	49			ug/L	50.0		98	53-136			
Dibromofluoromethane	47			ug/L	50.0		94	67-129			
Toluene-d8	46			ug/L	50.0		91	59-134			

Matrix Spike Dup (1K02032-MSD1)

Prepared: 11/02/2021 19:29 Analyzed: 11/03/2021 06:43

Source: CE15679-16

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.21 U	122	75-133	7	20	
Benzene	23		1.0	ug/L	20.0	0.15 U	115	80-134	11	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	99	80-120	8	16	
Toluene	18		1.0	ug/L	20.0	0.14 U	88	71-120	6	17	
Trichloroethene	26		1.0	ug/L	20.0	0.15 U	128	74-120	10	22	QM-07
4-Bromofluorobenzene	48			ug/L	50.0		95	53-136			
Dibromofluoromethane	47			ug/L	50.0		95	67-129			
Toluene-d8	46			ug/L	50.0		92	59-134			

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 1J28029 - EPA 5030B_MS

Blank (1J28029-BLK1)

Prepared: 10/28/2021 00:00 Analyzed: 10/28/2021 12:17

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.80	U	2.0	ug/L							
Toluene-d8	5.0			ug/L	5.00		101	75-125			

LCS (1J28029-BS1)

Prepared: 10/28/2021 00:00 Analyzed: 10/28/2021 11:51

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	26		2.0	ug/L	25.0		104	80-133			
Toluene-d8	5.2			ug/L	5.00		103	75-125			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 1J28029 - EPA 5030B_MS - Continued

Matrix Spike (1J28029-MS1)

Prepared: 10/28/2021 00:00 Analyzed: 10/28/2021 21:23

Source: AE08570-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	26		2.0	ug/L	25.0	0.80 U	103	80-133			
Toluene-d8	5.3			ug/L	5.00		107	75-125			

Matrix Spike Dup (1J28029-MSD1)

Prepared: 10/28/2021 00:00 Analyzed: 10/28/2021 21:48

Source: AE08570-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	26		2.0	ug/L	25.0	0.80 U	104	80-133	0.4	19	
Toluene-d8	5.1			ug/L	5.00		101	75-125			

Batch 1J29022 - EPA 5030B_MS

Blank (1J29022-BLK1)

Prepared: 10/29/2021 00:00 Analyzed: 10/29/2021 11:35

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.80	U	2.0	ug/L							
Toluene-d8	5.2			ug/L	5.00		104	75-125			

LCS (1J29022-BS1)

Prepared: 10/29/2021 00:00 Analyzed: 10/29/2021 11:09

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	24		2.0	ug/L	25.0		96	80-133			
Toluene-d8	5.5			ug/L	5.00		109	75-125			

Matrix Spike (1J29022-MS1)

Prepared: 10/29/2021 00:00 Analyzed: 10/29/2021 21:58

Source: AE08586-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	30		2.0	ug/L	25.0	5.8	97	80-133			
Toluene-d8	5.0			ug/L	5.00		101	75-125			

Matrix Spike Dup (1J29022-MSD1)

Prepared: 10/29/2021 00:00 Analyzed: 10/29/2021 22:24

Source: AE08586-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	30		2.0	ug/L	25.0	5.8	98	80-133	0.2	19	
Toluene-d8	5.1			ug/L	5.00		101	75-125			

FLAGS/NOTES AND DEFINITIONS

- B** The analyte was detected in the associated method blank.
- D** The sample was analyzed at dilution.
- J** The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
- U** The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
- E** The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- MRL** Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
- PQL** PQL: Practical Quantitation Limit. The PQL presented is the laboratory MRL.
- N** The analysis indicates the presence of an analyte for which there is presumptive evidence (85% or greater confidence) to make a "tentative identification".
- P** Greater than 25% concentration difference was observed between the primary and secondary GC column. The lower concentration is reported.
- [CALC]** Calculated analyte - MDL/MRL reported to the highest reporting limit of the component analyses.
- A-07** Analyte biased low in LCS but detected in the reporting limit standard. Since the analyte in the associated sample was not detected, there is no impact on data quality.
- QL-02** The associated laboratory control sample exhibited high bias; since the result is ND, there is no impact.
- QM-07** The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-11** Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
- QS-03** Surrogate recovery outside acceptance limits
- QV-01** The associated continuing calibration verification standard exhibited high bias; since the result is ND, there is no impact.



Client Name Babb & Associates (BA024)	Project Number [none]	8260D Appendix 1, 8260D SIM ID
Address 5506 Bradford Pear Court	Project Name/Desc Seaboard/Riverdale Landfill - SW Sampling	
City/ST/Zip Raleigh, NC 27606	PO # / Billing Info	
Tel (919) 605-4719	Reporting Contact Gary Babb	
Fax	Billing Contact Randy Smith	
Sampler(s) Name, Affiliation (Print) Ronak Bhatta / PIS	Site Location / Time Zone Hwy 4 Point / EST	
Sampler(s) Signature <i>Ronald Babb</i>		

[illegible]

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
SQB	9/23/21	Ruell Brea	10-21-21/1515	<i>[Signature]</i>	10/22/21 1030
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
Cooler #'s & Temps on Receipt				Condition Upon Receipt	
				1.0	Acceptable ☒ Unacceptable ☐



10775 Central Port Dr.

Orlando, FL 32824

(407) 826-5314

4810 Executive Park Court, Suite 111

Jacksonville, FL 32216-6069

(904) 296-3007 Fax (904) 296-6210

Client Name Babb & Associates (BA024)		Project Number [none]	
Address 5506 Bradford Pear Court		Project Name/Disc Se aboard/Riverdale Landfill- SW Sampling	
City/ST/Zip Raleigh, NC 27606		PO # / Billing Info	
Tel (919) 605-4718		Reporting Contact Gary Babb	
Fax		Billing Contact Randy Smith	
Sampler(s) Name, Affiliation (Print) Ronald Barton / PIS		Site Location / Time Zone High Point / EST	
Sampler(s) Signature <i>Ronald Barton</i>		8260D Appendix 1, 8260D SIM ID	

Requested Analyses				Preservation (See Codes) (Combine as necessary)				Requested Turnaround Times			
Note: Rush requests subject to acceptance by the facility				Due ___ / ___ / ___				X Standard ___ Expedited			
Lab Workorder CE13951				Sample Comments							
Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers					
	SW-1 Dry				WA	6	X				
	SW-2 Dry				WA	6	X				
✓	SW-3	10-21-21	0920	G	WA	6	X				
✓	SW-4		0935		WA	6	X				
✓	SW-5		0910		WA	6	X				
✓	SW-6 Surface		1010		WA	6	X				
✓	SW-6 Bottom		1020		WA	6	X				
✓	SW-7 Bottom		1155		WA	6	X				
✓	SW-7 Surface		1150		WA	6	X				
✓	SW-DRP2 Bottom		1150		WA	6	X				
✓	SW-DRP2 Surface		1115		WA	6	X				
✓	SW-DRP11 Surface		1230		WA	6	X				

Sample Kit Prepared By <i>SJB</i>	Date/Time 9/23/21	Relinquished By <i>Ronald Barton</i>	Date/Time 10-21-21/1115	Received By <i>James Dwyer</i>	Date/Time 10/22/21 1030
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
Cooler #'s & Temps on Receipt		Condition Upon Receipt		Unacceptable	
C-2112		1.0°		X Acceptable	

GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist