Annual Groundwater Monitoring Report
Former Eastgate Landfill
Bellevue, Washington

September 17, 2021

Prepared for

The Boeing Company
Seattle, Washington

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LIST OF ABBREVIATIONS AND ACRONYMS

µg/L ..... micrograms per liter
Advanta ..... Advanta Office Holdings
BCF ..... bioaccumulation factor
bgs ..... below ground surface
Boeing ..... The Boeing Company
City ..... City of Bellevue
COC ..... chain of custody
COD ..... chemical oxygen demand
CSF ..... cancer slope factor
Ecology ..... Washington State Department of Ecology
EPA ..... US Environmental Protection Agency
ft ..... feet
I-90 ..... Interstate 90
LAI ..... Landau Associates, Inc.
LLI ..... Eurofins Lancaster Laboratories Environmental
MCL ..... maximum contaminant level
mg/L ..... milligrams per liter
NFA ..... no further action
PVC ..... polyvinylchloride
Schnitzer ..... Schnitzer Northwest LLC
SDWA ..... Safe Drinking Water Act
TOC ..... total organic carbon
VCP ..... Voluntary Cleanup Program
VOCs ..... volatile organic compounds

1.0 INTRODUCTION

This report summarizes the results of groundwater monitoring in 2021 at the former Eastgate Landfill for The Boeing Company (Boeing). The former Eastgate Landfill is located within and adjacent to the Interstate 90 (I-90) Business Park in Bellevue, Washington. The location of the site is shown on Figure 1. The approximate area of the former landfill is shown on Figure 2. This monitoring report includes an evaluation of the data and recommendations for continued interim groundwater monitoring.

1.1 Background

The former Eastgate Landfill was operated by King County from about 1951 until 1964. After closure of the landfill, Cabot, Cabot, & Forbes developed a portion of the property to the east of the former landfill as the I-90 Business Park. In about 1980, Boeing purchased developed and undeveloped property at the I-90 Business Park, as well as most of the 9.6-acre former landfill. In April 2003, the City of Bellevue (City) purchased approximately 16 acres of the undeveloped portion of the business park property from Boeing, as well as a majority of the former landfill. In December 2005, Schnitzer Northwest LLC (Schnitzer) purchased approximately 13.3 acres of the undeveloped portion of the business park property, as well as a small portion of the southern edge of the landfill. Schnitzer constructed three office buildings in 2007–2008 to the south of the former landfill; the property was sold to Advanta Office Holdings (Advanta) in 2010. Current ownership of the landfill is split between three owners: Boeing, the City, and Advanta.

Closure activities were performed at the landfill by King County, the City, and Boeing and included construction of a cover system, a groundwater monitoring network, a leachate collection system, and a landfill gas collection and control system. Under the 2003 purchase and sale agreement for the property between Boeing and the City, the City agreed to assume operation of the landfill gas extraction system, and Boeing agreed to retain responsibility for continued groundwater monitoring activities at the site, including groundwater monitoring wells located on property that is now owned by Advanta. These closure activities were conducted with oversight from the Washington State Department of Ecology (Ecology) under the Voluntary Cleanup Program (VCP; VCP Site No. NW0471) through October 2019. Ecology terminated the VCP agreement in October 2019 as activities at the site did not satisfy Ecology's VCP participation requirement of active cleanup; however, closure activities have continued in accordance with the applicable work plans since termination of the VCP agreement.

Groundwater monitoring activities at the former landfill began in 2000 and included installation of monitoring wells and collection and analysis of groundwater samples on a quarterly, semiannual, or annual groundwater monitoring schedule. In 2000, Boeing requested a no-further-action (NFA) determination from Ecology for the Boeing-owned portion of the landfill. Based on requests from Ecology in a response to the NFA request, six monitoring wells (EL-101 through EL-106) were installed around the perimeter of the landfill in July 2000, and four quarterly groundwater monitoring events

were conducted in 2000–2001. Results for the four quarterly groundwater monitoring events were submitted to Ecology (Landau Associates, Inc. [LAI] 2001). Based on those results, Ecology agreed to the initiation of a groundwater compliance monitoring program, and a work plan for the groundwater compliance monitoring program was prepared and submitted to Ecology in March 2002 (LAI 2002). The monitoring program outlined in the Ecology-approved work plan included 1 year of semiannual monitoring (completed in 2002) followed by annual groundwater monitoring (ongoing). Monitoring will continue until groundwater cleanup levels are met for four consecutive sampling events or a change in frequency is agreed to by Ecology. The work plan also allows for reduction in the number of wells sampled, and lists of constituents analyzed for, if a constituent or group of constituents is not detected or is detected at concentrations less than or equal to the groundwater cleanup levels for four consecutive sampling events at a particular well.

In 2003, Ecology issued an NFA determination under Ecology's VCP for soil and groundwater at the former landfill site (Ecology 2003), but required continued annual performance groundwater compliance monitoring, in accordance with the work plan (LAI 2002). A requirement was also included for confirmational groundwater compliance monitoring, which is to be performed after the conclusion of performance groundwater compliance monitoring.

In 2006, Ecology determined that further action was required to refine the conceptual model of groundwater flow beneath the site and to monitor the impacts on groundwater, if any, due to the development of the office complex by Schnitzer (Ecology 2006). Boeing prepared a work plan (LAI 2006) to address the further action requirements. The work plan included installation of a piezometer north of the landfill and modification to the frequency and locations of groundwater elevation monitoring. Also, because of construction activities related to development of the Schnitzer-owned portion of the landfill, the work plan included decommissioning and replacement of wells EL-101 and EL-106. Boeing implemented the replacement of two monitoring wells, installation of the new piezometer (EL-107), and adjustments to groundwater compliance monitoring in 2007.

This report describes performance groundwater compliance monitoring performed in 2021. For clarity, this stage of monitoring is defined as interim groundwater monitoring in this report. The results for the interim groundwater monitoring conducted since 2002 are documented in previous annual reports.

1.2 Site Description

The former Eastgate Landfill consists of an approximately 9.6-acre area located adjacent to the I-90 Business Park in Bellevue, Washington. A number of office buildings are located in the surrounding business park; however, no buildings have been constructed on the former landfill. In 2008, an office building complex (including three buildings: designated buildings A, B, and C) was constructed by Schnitzer adjacent to the southern end of the landfill, which included low-permeability surfaces (asphalt roadways and parking areas) over a small portion of the south end of the landfill.

The landfill is capped with soil and has leachate and active landfill gas collection systems in place, along with landfill gas and groundwater monitoring networks. Leachate is collected on the north side of the landfill in the French Drain (located on City-owned property) and is discharged to the sanitary sewer. Six monitoring wells (EL-101R, EL-102, EL-103, EL-104, EL-105, and EL-106R), ranging in depth from 26.5 to 75 feet (ft) below ground surface (bgs), are located along the perimeter of the landfill. A piezometer, EL-107, is located approximately 450 ft north of the landfill on City-owned property. Monitoring well and piezometer locations are shown on Figure 2. Landfill gas extraction wells are also located within the limits of the solid waste landfill and landfill gas monitoring wells are located along the perimeter of the landfill, as shown on Figure 2.

Previous investigations identified two aquifers below the site: a shallow perched aquifer and a deeper intermediate aquifer. The shallow perched aquifer is encountered in the solid waste and alluvial materials and, in some locations, the glacial till underlying the fill and alluvial materials. The deeper intermediate aquifer (advance outwash aquifer) is encountered in the advance outwash. The site monitoring wells and piezometer are screened in the advance outwash aquifer.

2.0 GROUNDWATER MONITORING ACTIVITIES

This section describes water level measurement, groundwater sampling, and groundwater analyses associated with the annual interim groundwater monitoring event conducted on April 20, 2021. Monitoring was conducted in accordance with the planned scope for interim groundwater monitoring presented in the 2020 annual report (LAI 2020); on-site monitoring activities were completed by LAI under Boeing's regional groundwater monitoring contract.

2.1 Water Level Measurements

Static water levels were measured prior to groundwater sampling at each of the six monitoring wells (EL-101R, EL-102, EL-103, EL-104, EL-105, and EL-106R); at piezometer EL-107; and at stormwater Pond A. The depth to groundwater was measured to the nearest 0.01 ft from the top of the north side of the polyvinyl chloride (PVC) casing to groundwater using an electric water level indicator. Depth to water measurements at each well and the piezometer were converted to groundwater elevations using surveyed elevations for the top of the PVC casing. At Pond A, the water level was measured utilizing the staff gauge installed in the pond. This measurement was converted to a surface water elevation using the surveyed elevation for the top of the staff gauge. Groundwater and surface water elevations are listed in Table 1. Groundwater and surface water elevations, and groundwater elevation contours, are shown on Figure 3.

2.2 Groundwater Sampling

Groundwater monitoring was conducted in accordance with the *Confirmational Groundwater Sampling Work Plan* (LAI 2002), the *Further Action Groundwater Monitoring Work Plan* (LAI 2006), and the subsequent scope reduction described in the 2010 Annual Groundwater Monitoring report (LAI 2011). Groundwater samples were collected from wells EL-103, EL-105, and EL-106R, and a surface water sample was collected from the French Drain. Dedicated bladder pumps were used to purge and collect groundwater samples from EL-103 and EL-105; a disposable bailer was used to purge and collect a groundwater sample from EL-106R. The surface water sample collected from the French Drain was collected using a peristaltic pump.

The groundwater samples and the surface water sample were collected in appropriate containers, labeled, logged on a chain-of-custody (COC) document, and kept on ice until delivered to the laboratory. Sample containers, preservatives, and holding times were appropriate for the types of samples collected and the specified analytical methods. Sample custody and documentation in the field and during transportation to the laboratory was conducted in general conformance with the procedures described in the *Confirmational Groundwater Monitoring Work Plan* (LAI 2002).

One blind field duplicate sample, EL-100, was collected at well EL-103. A field trip blank was provided by the analytical laboratory, stored with the collected samples, and analyzed for volatile organic compounds (VOCs).

2.3 Groundwater Analysis

In accordance with the current approved scope of interim groundwater monitoring (LAI 2006) and the scope reductions described in the 2010 Annual Groundwater Monitoring Report (LAI 2011), chemical analysis of the samples collected at the three monitoring wells consisted of the following:

- VOCs by US Environmental Protection Agency (EPA) Method 8260C at well EL-103
- Dissolved metals (iron and manganese) by EPA Method 6010B at wells EL-103, EL-105, and EL-106R
- Dissolved metals (arsenic) by EPA Method 200.8 at wells EL-103 and EL-105.

Samples for dissolved metals analysis (iron, manganese, and arsenic) were field-filtered using a 0.45-micron filter.

The surface water sample collected from the French Drain was analyzed for the following compounds:

- VOCs by EPA Method 8260C
- Dissolved metals (iron, manganese) by EPA Method 6010B
- Chloride by EPA Method 300.0
- N-Ammonia by Standard Method SM20 4500D
- N-Nitrate calculated
- N-Nitrite by EPA Method 353.2
- Nitrate + Nitrite by EPA Method 353.2
- Sulfate by EPA Method 300.0
- Total organic carbon (TOC) by Standard Method SM20 5310C
- Chemical oxygen demand (COD) by EPA Method 410.4.

3.0 GROUNDWATER MONITORING RESULTS

This section presents the results of the 2021 interim groundwater monitoring event, which consists of groundwater level data and groundwater quality data.

3.1 Groundwater Levels

Groundwater elevations calculated using water level measurements collected from each monitoring well and piezometer and a surface water level measurement at the staff gauge in Pond A in April 2021 were used to evaluate groundwater flow direction in the advance outwash aquifer. The calculated groundwater elevations are presented in Table 1. Groundwater elevation contours were plotted using the calculated groundwater elevations and are shown on Figure 3. The contours indicate the groundwater at the landfill has a generally easterly flow, which is consistent with flow directions previously observed at the landfill. Monitoring well EL-105 is located directly hydraulically downgradient of the former landfill; wells EL-103 and EL-106R are also hydraulically downgradient of the outer boundaries of the landfill.

3.2 Groundwater Quality

Eurofins Lancaster Laboratories Environmental (LLI) located in Lancaster, Pennsylvania, conducted the analyses of the groundwater samples using the analytical procedures referenced in Section 2.3. Following receipt of the analytical results, the data was validated as described in Section 4.2 of the *Confirmational Groundwater Monitoring Work Plan* (LAI 2002). A summary of the analytical results (with data qualifiers added as appropriate) for the 2021 annual sampling event and historical events at each well are provided in Table 2. Concentrations of detected constituents in the groundwater and surface water samples for the last four sampling events (April 2018, April 2019, April 2020, and April 2021) at wells EL-103, EL-105, EL-106R, and the French Drain were tabulated and are presented in Table 3. The laboratory data reports for the 2021 sampling event are provided in Appendix A. A data quality evaluation for the 2021 sampling event is provided in Appendix B.

The groundwater analytical results for the 2021 annual sampling event are consistent with previous sampling events. At well EL-103, and at downgradient wells EL-105 and EL-106R, analytical results indicate the presence of dissolved iron and dissolved manganese at concentrations greater than the cleanup levels of 0.3 milligrams per liter (mg/L), and 0.05 mg/L, respectively. The dissolved iron concentration at well EL-103 was 21.7 mg/L, and the concentrations were 2.71 mg/L and 2.55 mg/L at downgradient wells EL-105 and EL-106R, respectively. Dissolved manganese concentrations at all three wells ranged between 2.39 mg/L and 9.21 mg/L. Dissolved arsenic was detected at EL-103 (0.0291 mg/L), which is greater than the cleanup level of 0.004 mg/L and at EL-105 (0.00252 mg/L), which is less than the cleanup level. Dissolved arsenic concentrations at EL-105 were below the cleanup level for the fourth year in a row. This is the first year in 10 years the detected concentration of 1,4-dichlorobenzene (1.73 micrograms per liter [µg/L]) at well EL-103 was below the cleanup level (1.8 µg/L).

At the French Drain, dissolved iron, dissolved manganese, and 1,4-dichlorobenzene were detected at concentrations above cleanup levels, which is also consistent with previous results. Concentrations of conventional analyses were all below the respective cleanup levels and were also consistent with previous results.

4.0 SCOPE OF CONTINUED INTERIM GROUNDWATER MONITORING

Prior to initiating confirmational groundwater compliance monitoring sampling (which will include analysis for a larger list of constituents), interim groundwater monitoring is being conducted on an annual schedule. Analytical results from this interim monitoring event are used to evaluate the likelihood of achieving the confirmational groundwater cleanup levels and to adjust the scope of continued monitoring events, as needed.

As shown in Table 3, dissolved iron and manganese have been detected at concentrations above the cleanup level at each location (EL-103, EL-105, and EL-106R) where they have been monitored during the last four annual monitoring events. Dissolved arsenic has also been detected at concentrations above the cleanup level at EL-103 during the last four monitoring events. Although arsenic cleanup levels should be re-evaluated because detections may be representative of naturally occurring background concentrations, arsenic remains elevated at EL-103 above 10 µg/L.[1] At EL-105, this monitoring event was the fourth consecutive monitoring event with dissolved arsenic concentrations less than the cleanup level, which meets the criteria for removal of this analysis during interim groundwater monitoring. At well EL-103, 1,4-dichlorobenzene has also been detected above the cleanup level during three of the last four monitoring events. These results suggest that achieving confirmational groundwater cleanup levels is unlikely at this time. As a result, groundwater monitoring at the landfill will continue as an interim program for 2021; the analyte list recommended for 2022 is unchanged except for removal of dissolved arsenic analysis at EL-105.

The scope for the 2022 annual interim groundwater monitoring is summarized below and is presented in Table 4:

- Groundwater elevation measurement at monitoring wells EL-101R, EL-102, EL-103, EL-104, EL-105, and EL-106R, and at piezometer EL-107
- Surface water elevation measurement at Pond A
- Chemical analysis as follows:
  - EL-103 for VOCs and dissolved metals (arsenic, iron, and manganese)
  - EL-105 for dissolved metals (iron and manganese only; no arsenic)
  - EL-106R for dissolved metals (iron and manganese)
  - French Drain for VOCs, dissolved metals (iron and manganese), and conventional parameters.

[1] The site-specific cleanup level for arsenic is 4.0 µg/L. Ecology reverted to a surface water criterion for arsenic of 10 µg/L, which is the Safe Drinking Water Act (SDWA) maximum contaminant level (MCL) for groundwater (Ecology 2016). This was done for three primary reasons: 1) there are elevated natural background concentrations of arsenic in groundwater in many areas of Washington State (Ecology 2016, page 70); 2) EPA has acknowledged that the cancer slope factor (CSF) for arsenic is unreliable (Ecology 2016, page 73); and 3) EPA's bioaccumulation factor (BCF) for arsenic should be based on inorganic arsenic (the toxic portion) rather than total arsenic (Ecology 2016, page 73).

The scope of groundwater monitoring will be re-evaluated following the 2022 sampling event.

5.0 SCHEDULE AND REPORTING

The annual groundwater monitoring will be conducted in April or May 2022 and, in accordance with the *Further Action Groundwater Monitoring Work Plan*, annual groundwater monitoring activities and results will be documented in a report to be retained by Boeing (LAI 2006).

6.0 USE OF THIS REPORT

This annual report has been prepared for the exclusive use of The Boeing Company for specific application to the former Eastgate Landfill. No other party is entitled to rely on the information, conclusions, and recommendations included in this document without the express written consent of LAI. Further, the reuse of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and authorization by LAI, shall be at the user's sole risk. LAI warrants that within the limitations of scope, schedule, and budget, our services have been provided in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as this project. We make no other warranty, either express or implied.

7.0 REFERENCES

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Ecology. 2016. Draft: Natural Background Groundwater Arsenic Concentrations in Washington State. Publication No. 14-09-044. Washington State Department of Ecology.

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LAI. 2011. Annual Groundwater Monitoring Report Former Eastgate Landfill, Bellevue, Washington. Landau Associates, Inc. January 18.

LAI. 2020. Annual Groundwater Monitoring Report, Former Eastgate Landfill, Bellevue, Washington. Landau Associates, Inc. August 26.

N

0 0.5 1

Miles

Data Source: Esri 2012

G:\Projects\025\089\116\110\F01VicMap.mxd 7/8/2016 NAD 1983 StatePlane Washington North FIPS 4601 Feet

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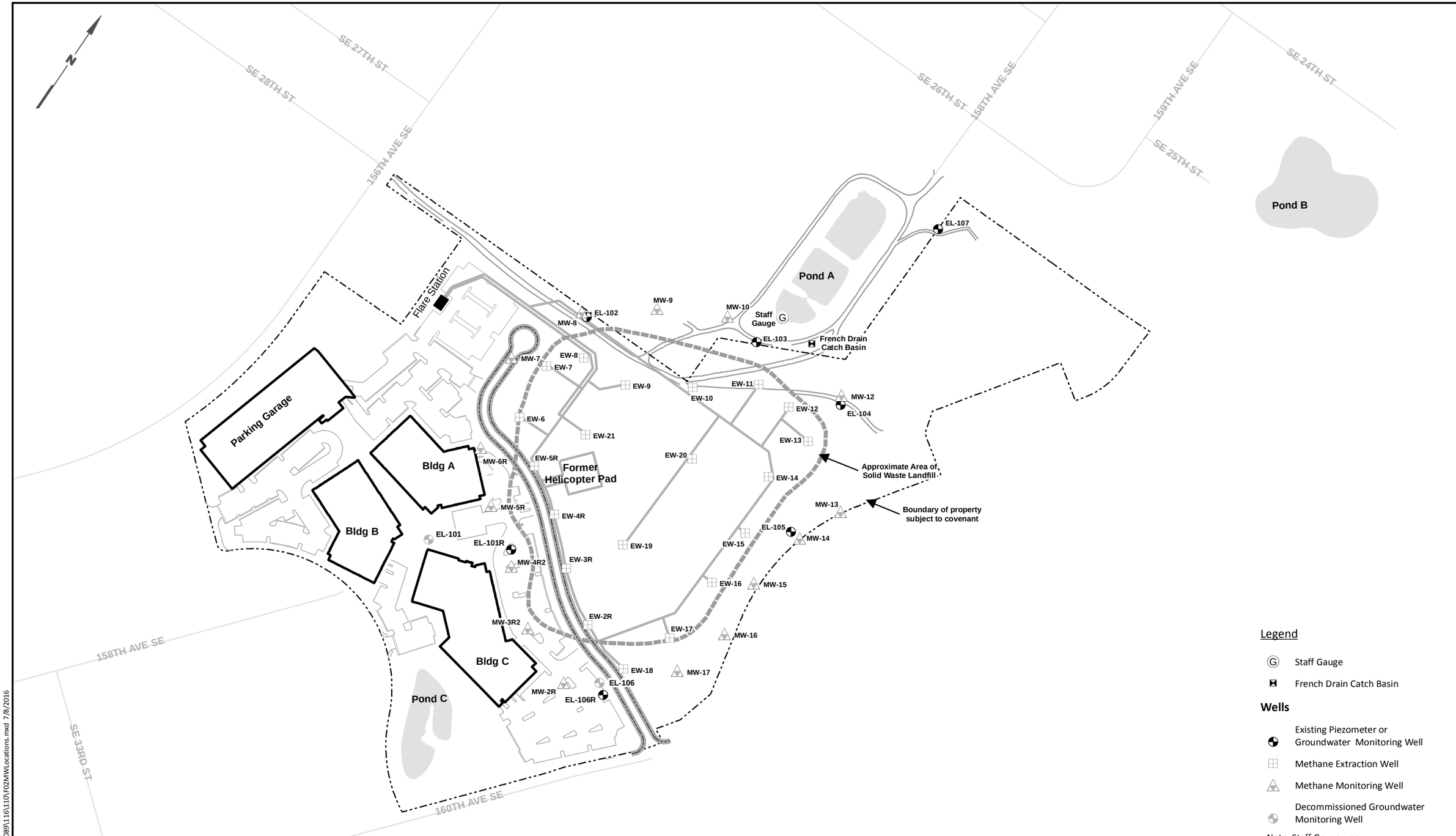
Former Eastgate Landfill Bellevue, Washington	**Vicinity Map**	Figure 1



Legend

- Staff Gauge
- French Drain Catch Basin

Wells

- Existing Piezometer or Groundwater Monitoring Well
- Methane Extraction Well
- Methane Monitoring Well
- Decommissioned Groundwater Monitoring Well

Note: Staff Gauge was installed in January 2008.

Data Source: Adapted from GeoEngineers 2008.

0 200 400

Scale in Feet

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Former Eastgate Landfill Bellevue, Washington	**Groundwater Monitoring Locations**	Figure 2

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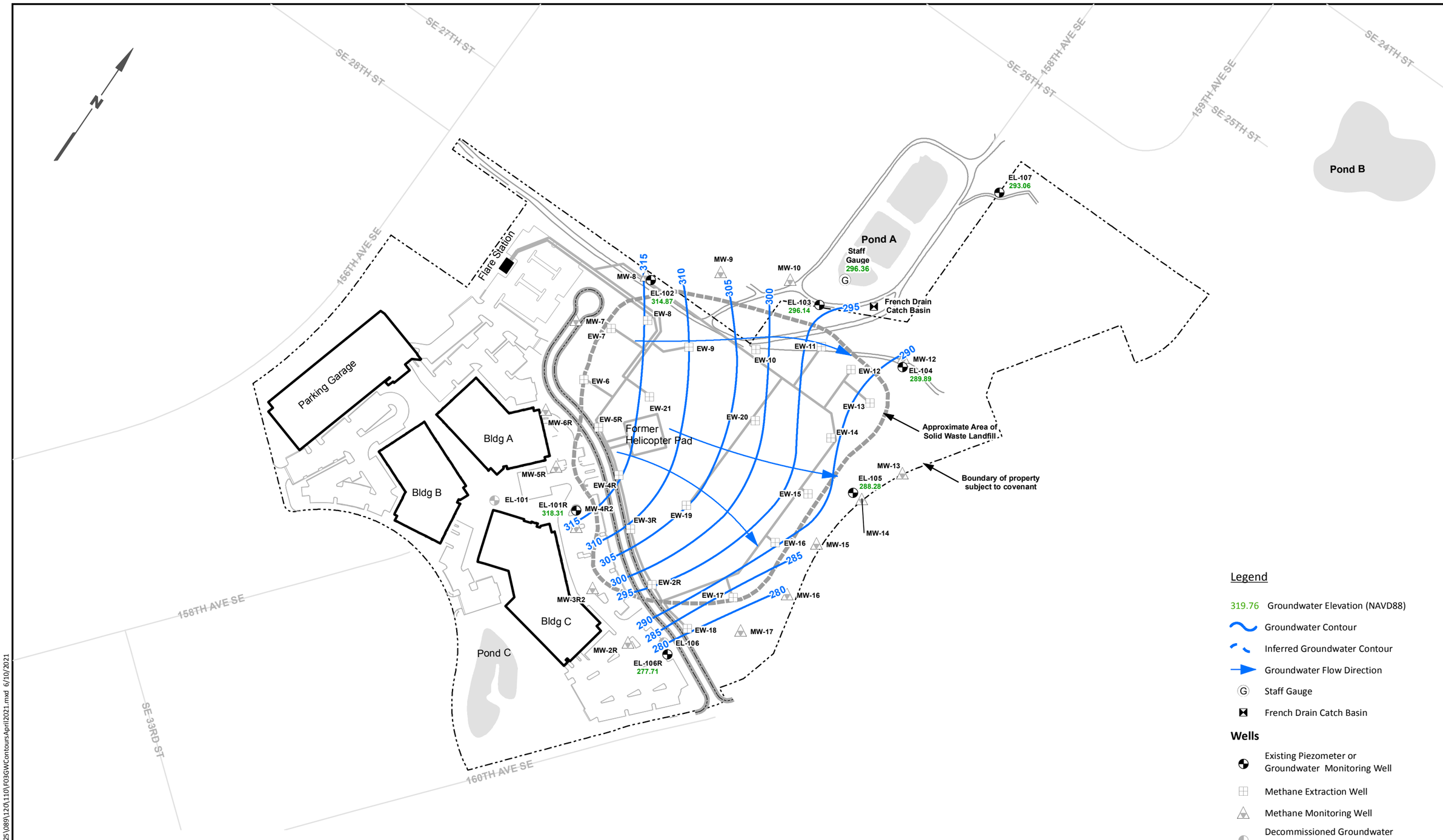

Legend

319.76 Groundwater Elevation (NAVD88)

Groundwater Contour

Inferred Groundwater Contour

Groundwater Flow Direction

Staff Gauge

French Drain Catch Basin

Wells

Existing Piezometer or Groundwater Monitoring Well

Methane Extraction Well

Methane Monitoring Well

Decommissioned Groundwater Monitoring Well

Data Source: Adapted from GeoEngineers 2008.

Note

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

0 200 400

Scale in Feet

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Former Eastgate Landfill
Bellevue, Washington

Groundwater Elevations Contours April 20, 2021

Figure 3

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Table 1
Summary of Groundwater Elevations
Former Eastgate Landfill

Well Name	Top of Casing Elevation	Water Elevation																			
		3/18/2002 Water Elevation	8/28/2002 Water Elevation	4/17/2003 Water Elevation	4/8/2004 Water Elevation	5/9/2005 Water Elevation	5/9/2006 Water Elevation	10/9/2007 Water Elevation	1/29/2008 Water Elevation	4/10/2008 Water Elevation	7/9/2008 Water Elevation	10/21/2008 Water Elevation	2/13/2009 Water Elevation	6/24/2009 Water Elevation	9/24/2009 Water Elevation	11/11/2009 Water Elevation	5/13/2010 Water Elevation	5/23/2011 Water Elevation	5/8/2012 Water Elevation	5/13/2013 Water Elevation	5/13/2014 Water Elevation	5/7/2015 Water Elevation
EL-101	349.56	NM	322.42	317.05	326.06	323.81	326.21	-- (a)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EL-101R	347.20	--	--	--	--	--	--	317.04	319.61	--	318.52	319.66	302.02	317.74	317.97	318.30	319.02	320.94	320.30	319.83	320.17	319.76
EL-102	352.83	315.41	318.13	313.81	316.63	313.42	317.01	316.01	313.35	314.38	315.03	313.72	313.45	315.06	313.03	311.83	317.16	322.38	317.22	319.85	317.34	318.34
EL-103	310.07	293.49	292.90	293.47	293.94	294.90	295.43	295.05	295.98	296.03	294.64	294.65	295.33	295.24	294.49	294.85	295.48	296.47	296.68	296.05	296.11	295.86
EL-104	345.33	NM	289.50	288.55	289.33	288.60	289.68	289.51	289.26	289.45	289.42	288.52	288.69	288.95	288.42	288.11	289.32	291.13	290.66	290.53	289.95	290.29
EL-105	343.69	287.25	287.39	286.91	287.48	286.65	287.87	287.47	287.21	287.45	287.19	286.59	286.79	287.05	286.49	286.14	287.47	289.27	288.56	288.59	288.14	288.44
EL-106	345.55	288.93	278.77	278.89	279.15	277.99	279.68	-- (a)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EL-106R	346.17	--	--	--	--	--	--	276.78	276.48	276.73	276.66	276.38	276.41	276.71	276.37	276.25	277.23	278.78	277.76	277.95	277.73	277.84
EL-107	313.43	--	--	--	--	--	--	291.90	292.20	292.74	292.11	291.51	291.39	291.96	291.15	291.05	292.54	292.95	292.92	292.80	292.28	293.24
Pond A/Staff Gauge (b)	301.52	--	--	--	--	--	--	NM	296.30	296.52	296.20	296.22	296.24	296.20	296.18	296.31	296.24	296.23	295.92	296.07	296.02	296.03

Table 1
Summary of Groundwater Elevations
Former Eastgate Landfill

Well Name	Top of Casing Elevation	Water Elevation					
		5/13/2016 Water Elevation	5/4/2017 Water Elevation	4/26/2018 Water Elevation	4/24/2019 Water Elevation	4/28/2020 Water Elevation	4/20/2021 Water Elevation
EL-101	349.56	--	--	--	--	--	--
EL-101R	347.20	320.11	322.51	321.05	318.36	318.32	318.31
EL-102	352.83	321.16	323.60	321.31	314.22	313.71	314.87
EL-103	310.07	295.85	296.97	296.92	295.60	295.63	296.14
EL-104	345.33	290.83	293.10	291.45	289.26	289.25	289.89
EL-105	343.69	289.02	290.36	289.53	287.52	287.60	288.28
EL-106	345.55	--	--	--	--	--	--
EL-106R	346.17	278.48	279.54	278.61	276.97	277.38	277.71
EL-107	313.43	293.57	295.10	294.29	292.33	292.33	293.06
Pond A/Staff Gauge (b)	301.52	295.99	296.06	296.02	296.02	296.06	296.36

Abbreviations and Acronyms:
NM = not measured.
-- = location does not exist on this date

Notes:
(a) Monitoring wells EL-101 and EL-106 were abandoned in 2007.
(b) Staff Gauge Top of Casing Elevation is the surveyed elevation of the top of the staff guage, which measures 6.4 feet in length.

Horizontal Datum: NAD 83(91)
Vertical Datum: NAVD 88
To convert elevation shown herein to NGVD 29 Datum subtract 3.48 feet.

Table 2
Summary of Groundwater and Surface Water Analytical Results
2021 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																
	EL-103 BY07C BY07 7/28/2000	EL-103-Dup BY07G BY07 7/28/2000	EL-103 CO72D CO72 12/13/2000	EL-103-SDup B0L0365-02 B0L0365 12/13/2000	EL-103 CX61C CX61 3/29/2001	EL-103 DG04C DG04 6/14/2001	EL-103-SDup DG04G DG04 6/14/2001	EL-103 EE52C EE52 3/18/2002	EL-103 ER96C ER96 8/28/2002	EL-103 FK21D FK21 4/17/2003	EL-103 GN17B GN17 4/8/2004	EL-103-DUP GN17C GN17 4/8/2004	EL-103 IA68D IA68 5/9/2005	EL-103 JI58D JI58 5/9/2006	EL-103-DUP JI58F JI58 5/9/2006	EL-103 LT43D LT43 10/10/2007	EL-103-DUP LT43B LT43 10/10/2007
Volatiles (µg/L; Method SW8260B/C)																	
1,1,1,2-Tetrachloroethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1-Trichloroethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0 U	2.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloropropene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3-Trichlorobenzene	5.0 U	5.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	3.0 U	3.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	5.0 U	5.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	1.0 U	1.0 U	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.4	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-chloropropane	5.0 U	5.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	4.0 U	4.0 U	2.0 U	2.0 U	2.0 U	0.5 U	0.5 U
1,2-Dichlorobenzene	1.0 U	1.0 U	1.0	0.939	1.3	1.3	1.4	1.9	1.9	1.8	1.9	1.7	1.8	1.7	1.7	1.4	1.4
1,2-Dichloroethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3,5-Trimethylbenzene	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichlorobenzene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichloropropane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	1.0 U	1.0 U	0.7	0.674	1.1	1.0	1.1	2.0	1.8	2.3	2.4	2.2	2.4	1.7	1.7	1.7	1.7
2,2-Dichloropropane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone	5.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chloroethylvinylether	R	R	0.5 U	NA	R	R	R	R	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Hexanone	5.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	3.0 U	3.0 U
4-Chlorotoluene	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-Isopropyltoluene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.7	2.1	3.6	4.4	3.7	1.8	2.9 U	3.5 U	3 U	3 U
Acrolein	50 U	50 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acrylonitrile	5.0 U	5.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	6.1	6.5	4.7	4.98	4.9	4.4	4.7	5.8 J	5.3	5.3	5.5	5.1	5.6	6.4	6.2	6.3	6.3
Bromobenzene	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoethane	2.0 U	2.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	1.0 U	1.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromomethane	1.0 U	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Disulfide	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	12	12	9.6	9.50	14	11	11	15 J	17	21 J	23	22	22	19	19	19	19
Chloroethane	1.0 U	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroform	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	1.0 U	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	1.0 U	1.0 U	0.4	0.353	0.4	0.3	0.3	0.3	0.2	0.4 U	0.4 U	0.4 U	0.2	0.2	0.2	0.2 U	0.2 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromomethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dichlorodifluoromethane	NA	NA	NA	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	1.0 U	1.0 U	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylene Dibromide	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobutadiene	5.0 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	1.1	1.1	0.7	0.906	0.9	0.8	0.9	1.6	1.5	1.5	1.4	1.2	1.2	1.4	1.3	1.8	1.8

Table 2
Summary of Groundwater and Surface Water Analytical Results
2021 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																
	EL-103 BY07C BY07 7/28/2000	EL-103-Dup BY07G BY07 7/28/2000	EL-103 CO72D CO72 12/13/2000	EL-103-SDup B0L0365-02 B0L0365 12/13/2000	EL-103 CX61C CX61 3/29/2001	EL-103 DG04C DG04 6/14/2001	EL-103-SDup DG04G DG04 6/14/2001	EL-103 EE52C EE52 3/18/2002	EL-103 ER96C ER96 8/28/2002	EL-103 FK21D FK21 4/17/2003	EL-103 GN17B GN17 4/8/2004	EL-103-DUP GN17C GN17 4/8/2004	EL-103 IA68D IA68 5/9/2005	EL-103 JI58D JI58 5/9/2006	EL-103-DUP JI58F JI58 5/9/2006	EL-103 LT43D LT43 10/10/2007	EL-103-DUP LT43B LT43 10/10/2007
m,p-Xylene	1.0 U	1.0 U	0.4 U	0.5 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.8 U	0.8 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Methyl Iodide	1.0 U	1.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methylene Chloride	2.0 U	2.0 U	0.3 U	5.0 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.6 U	0.6 U	0.6 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Naphthalene	5.0 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Butylbenzene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
n-Propylbenzene	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.3	0.3	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2	0.2
o-Xylene	1.0 U	1.0 U	0.2 U	0.25 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
sec-Butylbenzene	1.0 U	1.0 U	0.4	0.550	0.6	0.5	0.5	1.0	0.9	1.1	0.9	0.8	0.8	0.8	0.8	1	1
Styrene	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
tert-Butylbenzene	1.0 U	1.0 U	0.2 U	0.5 U	0.2	0.2 U	0.2 U	0.3	0.2	0.4 U	0.4 U	0.4 U	0.3	0.3	0.3	0.3	0.3
Tetrachloroethene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,4-Dichloro-2-butene	5.0 U	5.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Acetate	5.0 U	5.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	1.0 U	1.0 U	0.2 U	0.968	0.5	0.4	0.4	0.3	0.2 U	0.4 U	0.4 U	0.4 U	0.2	0.2 U	0.2 U	0.2 U	0.2 U
Pesticides (µg/L; Method 8081A)																	
Dieldrin	0.10 U	0.10 U	0.10 U	0.07 U	0.10 U	0.10 U	0.10 U	0.0033 U	0.010 U	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)																	
Arsenic (7060A/200.8)	0.044	0.044	0.039	0.0516	0.040	0.036	0.036	0.028	0.033	0.030	0.031	0.031	0.030	0.037	0.037	0.0152	0.0157
Cadmium (6010)	0.002 U	0.002 U	0.002 U	0.001 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA	NA	NA	NA
Chromium (6010)	0.005 U	0.005 U	0.005 U	0.00352	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA	NA	NA	NA
Iron (6010B/200.8)	14.8	14.7	11.7	13.1	12.1	11.9	12.1	16.6	14.4	16.8	18.8	17.7	19.7	26.5	26.2	6.7	7.25
Manganese (6010B/200.8)	3.97	3.91	2.81	0.520	2.84	2.53	2.51	3.36	2.72	3.01	3.16	3.00	3.03	4.66	4.69	3.40	3.54
Conventionals																	
Chloride (mg/L) (325.2, 300.0)	23	24	13	16.0	18	16	17	30	22	26	23.3	23.0	NA	NA	NA	NA	NA
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	100	98	87	85.4	67	62	65	76	81	72	82.6	74.6	NA	NA	NA	NA	NA
N-Nitrate (mg-N/L) (calc.)	0.010 U	0.010 U	0.010 U	0.1 U	0.019	0.022	0.015	0.010 U	0.026	0.011	0.010 U	0.010 U	NA	NA	NA	NA	NA
N-Nitrite (mg-N/L) (353.2)	0.010 U	0.012	0.011	0.1 U	0.010 U	0.010 U	0.010 U	0.045	0.010	0.010 U	0.049	0.038	NA	NA	NA	NA	NA
Nitrate + Nitrite (mg-N/L) (353.2)	0.010 U	0.010 U	0.015	NA	0.019	0.022	0.015	0.032	0.036	0.011	0.032	0.023	NA	NA	NA	NA	NA
Sulfate (mg/L) (375.2, 300.0)	19	18	11	2.37	9.2	8.8	9.2	6.1	9.5	6.3	8.6 J	7.8 J	NA	NA	NA	NA	NA
Chemical Oxygen Demand (mg/L) (410.4)	64	70	50 UJ	22.5	37	47	47	55	53	NA	54	55	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L) (415.1, SM5310C)	24	22	22	20.0 U	20	16	18	19	18	NA	18.7	18.9	NA	NA	NA	NA	NA
Un-ionized Ammonia (µg NH_3/L) (a)																	
Minimum (b)	40	39	34	34	26	24	26	30	32	28	32.6	29.5	NC	NC	NC	NC	NC
Maximum (c)	36,000	36,000	32,000	31,000	24,000	22,000	24,000	28,000	29,000	26,000	30,000	27,100	NC	NC	NC	NC	NC
Field Parameters																	
pH	6.24	6.24	6.8	6.8	6.54	6.93	6.93	6.71	6.49	6.59	6.65	6.65	6.72	6.58	6.58	7.51	7.51
Temperature (ºC)	20.9	20.9	11.7	11.7	14.0	15.3	15.3	10.6	13.3	11.0	11.1	11.1	11.3	11.0	11.0	11.9	11.9
Specific Conductivity (µS)	1,129	1,129	1,385	1,385	1,348	1,334	1,334	1,179	1,112	1,133	1,158	1,158	1,138	1,126	1,126	1,074	1,074

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Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date															
	EL-103 NV83F NV83 10/21/2008	EL-108 EL-103-DUP NV83C NV83 10/21/2008	EL-103 PE53C PE53 6/24/2009	EL-108 EL-103-DUP PE53B PE53 6/24/2009	EL-103 QW57D QW57 5/13/2010	EL-100 EL-103-DUP QW57F QW57 5/13/2010	EL-103 SY24A SY24 05/23/2011	EL-100 EL-103-DUP SY24B SY24 05/23/2011	EL-103 6644943 1307589 5/8/2012	EL-100 EL-103-DUP 6644945 1307589 5/8/2012	EL-103 7055035 1389676 05/13/2013	EL-100 EL-103-DUP 7055037 1389676 05/13/2013	EL-103 7462651 1474176 5/13/2014	EL-100 EL-103-DUP 7462647 1474176 5/13/2014	EL-103 7879583 1559679 5/7/2015	EL-100 EL-103-DUP 7879581 1559679 5/7/2015
Volatiles (µg/L; Method SW8260B/C)																
1,1,1,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	1.3	1.2	1.4	1.4	1.3	1.3	1.4	1.4	1.5	1.5	1.4	1.4	1.5	1.5	1.4	1.3
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	1.5	1.5	2.1	2.0	1.9	1.7	1.8	1.9	2.3	2.2	2.3	2.2	1.9	2.0	2.2	2.1
2,2-Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloroethylvinylether	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Isopropyltoluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-Pentanone (MIBK)	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	3.0 U	3.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	16	15	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acrolein	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	25 U	25 U	25 U	25 UJ	25 UJ	25 U	25 U
Acrylonitrile	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	5.1	4.8	4.2	4.1	3.3	3.2	2.8	2.7	2.2	2.2	2.1	2.0	2.1	2.1	1.9	1.9
Bromobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	23	23	22	22	21	20	19	20	24	23	24	24	23	23	24	23
Chloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylene Dibromide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	1.7	1.6	1.3	1.3	1.0	1.0	1.0	1.1	1.2	1.1	1.0	1.0	0.9	0.8	0.8	0.7

Table 2
Summary of Groundwater and Surface Water Analytical Results
2021 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date															
	EL-103 NV83F NV83 10/21/2008	EL-108 EL-103-DUP NV83C NV83 10/21/2008	EL-103 PE53C PE53 6/24/2009	EL-108 EL-103-DUP PE53B PE53 6/24/2009	EL-103 QW57D QW57 5/13/2010	EL-100 EL-103-DUP QW57F QW57 5/13/2010	EL-103 SY24A SY24 05/23/2011	EL-100 EL-103-DUP SY24B SY24 05/23/2011	EL-103 6644943 1307589 5/8/2012	EL-100 EL-103-DUP 6644945 1307589 5/8/2012	EL-103 7055035 1389676 05/13/2013	EL-100 EL-103-DUP 7055037 1389676 05/13/2013	EL-103 7462651 1474176 5/13/2014	EL-100 EL-103-DUP 7462647 1474176 5/13/2014	EL-103 7879583 1559679 5/7/2015	EL-100 EL-103-DUP 7879581 1559679 5/7/2015
m,p-Xylene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Iodide	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Butylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Propylbenzene	0.2 U	0.2 U	0.2	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	0.8	0.8	0.7	0.8	0.6	0.5	0.6	0.7	0.8	0.8	0.7	0.7	0.5	0.5	0.6	0.6
Styrene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,4-Dichloro-2-butene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Pesticides (µg/L; Method 8081A)																
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)																
Arsenic (7060A/200.8)	0.038	0.037	0.035	0.0351	0.0337	0.0345	0.0349	0.0362	0.0338	0.0348	0.0289	0.0282	0.0332	0.0335	0.0352	0.0363
Cadmium (6010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (6010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (6010B/200.8)	18.5	18.2	22.3	23.1	21.8	21.9	22.9	22.2	20.2	20.5	20.8	20.4	23.2	20.9	22.6	21.1
Manganese (6010B/200.8)	3.04	3.02	3.18	3.21	2.95	3.04	3.3	3.19	2.93	3.26	3.64	3.68	3.78	3.41	2.97	2.83
Conventionals																
Chloride (mg/L) (325.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrate (mg-N/L) (calc.)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate + Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (mg/L) (375.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (mg/L) (410.4)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L) (415.1, SM5310C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Un-ionized Ammonia (µg NH_3/L) (a)																
Minimum (b)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Maximum (c)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Field Parameters																
pH	7.26	7.26	6.93	6.93	7.59	7.59	6.51	6.51	5.99	5.99	6.01	6.01	7.59	7.59	6.36	6.36
Temperature (ºC)	11.6	11.6	11.5	11.5	12.1	12.1	10.7	10.7	10.7	10.7	10.7	10.7	10.9	10.9	11.3	11.3
Specific Conductivity (µS)	1,172	1,172	225	225	2,402	2,402	950	950	1,071	1,071	886	886	996	996	1,054	1,054

Table 2
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2021 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date														
	EL-103 8382537 1661845 5/13/2016	EL-100 EL-103-DUP 8382532 1661845 5/13/2016	EL-103 8977635 1797829 5/4/2017	EL-100 EL-103-DUP 8977628 1797829 5/4/2017	EL-103 9580974 1936930 4/26/2018	EL-100 EL-103-DUP 9580972 1936930 4/26/2018	EL-103 2040573 1041948 4/24/2019	EL-100 EL-103-DUP 2040573 1041950 4/24/2019	EL-103 1306499 2097790 4/28/2020	EL-100 EL-103-DUP 1306501 2097790 4/28/2020	EL-103 410-36712-4 410-36712-1 4/20/2021	EL-100 EL-103-DUP 410-36712-3 410-36712-1 4/20/2021	EL-105 BY07E BY07 7/28/2000	EL-105 CO72C CO72 12/13/2000	EL-105-SDup B0L0365-03 B0L0365 12/13/2000
Volatiles (µg/L; Method SW8260B/C)															
1,1,1,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	1.0 U	0.2 U	0.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	2.0 U	0.2 U	NA
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	1.0 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	1.0 U	0.2 U	0.2 U
1,1-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	5.0 U	0.5 U	0.2 U
1,2,3-Trichloropropane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	3.0 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	5.0 U	0.5 U	0.2 U
1,2,4-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
1,2-Dibromo-3-chloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.500 U	0.500 U	5.0 U	1.0 U	0.5 U
1,2-Dichlorobenzene	1.6	1.6	1.3	1.4	1.2	1.2	1.4 J	1.4	1.4	1.4	1.35	1.22	1.0 U	0.2 U	0.2 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	1.0 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.227
1,3,5-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.5 U
1,3-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
1,3-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
1,4-Dichlorobenzene	2.3	2.3	2.1	2.2	2.0	2.0	2.0 J	2.0	2.0	2.1	1.73	1.57	1.0 U	0.2 U	0.2 U
2,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.0 U	1.0 U	2.0 U
2-Chloroethylvinylether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	0.5 U	NA
2-Chlorotoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.0 U	1.0 U	2.0 U
4-Chlorotoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.5 U
4-Isopropyltoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.0 U	1.0 U	2.0 U
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.0 U	1.0 U	5.0 U
Acrolein	25 U	25 U	25 U	25 U	25 U	25 U	25 UJ	25 U	25 UJ	25 UJ	25.0 UJ	25.0 UJ	50 U	5.0 U	NA
Acrylonitrile	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ	5.00 UJ	5.00 UJ	5.0 U	1.0 U	NA
Benzene	2.0	2.0	1.6	1.6	1.4	1.5	1.6 J	1.6	1.5	1.6	1.25	1.19	1.0 U	0.3	0.304
Bromobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.5 U
Bromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
Bromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	0.2 U	NA
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	1.00 U	1.00 U	1.0 U	0.5 U	0.2 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	1.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	1.0 U	0.2 U	0.2 U
Chlorobenzene	24	21	23	23	20	20	22 J	22	22	23	19.3	18.4	1.0 U	0.2	0.2 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	1.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	1.0 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	1.0 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	1.4	2.0	2.10
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	1.0 U	0.2 U	0.2 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
Dibromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
Ethylene Dibromide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	5.0 U	0.5 U	0.5 U
Isopropylbenzene	0.9	0.9	0.9	0.9	0.9	0.9	0.6 J	0.6	0.7	0.7	0.579	0.520	1.0 U	0.2 U	0.5 U

Table 2
Summary of Groundwater and Surface Water Analytical Results
2021 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date														
	EL-103 8382537 1661845 5/13/2016	EL-100 EL-103-DUP 8382532 1661845 5/13/2016	EL-103 8977635 1797829 5/4/2017	EL-100 EL-103-DUP 8977628 1797829 5/4/2017	EL-103 9580974 1936930 4/26/2018	EL-100 EL-103-DUP 9580972 1936930 4/26/2018	EL-103 2040573 1041948 4/24/2019	EL-100 EL-103-DUP 2040573 1041950 4/24/2019	EL-103 1306499 2097790 4/28/2020	EL-100 EL-103-DUP 1306501 2097790 4/28/2020	EL-103 410-36712-4 410-36712-1 4/20/2021	EL-100 EL-103-DUP 410-36712-3 410-36712-1 4/20/2021	EL-105 BY07E BY07 7/28/2000	EL-105 CO72C CO72 12/13/2000	EL-105-SDup B0L0365-03 B0L0365 12/13/2000
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.4 U	0.5 U
Methyl Iodide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	NA
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	2.0 U	0.3 U	5.0 U
Naphthalene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	5.0 U	0.5 U	0.5 U
n-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
n-Propylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.25 U
sec-Butylbenzene	0.6	0.6	0.6	0.6	0.5 U	0.5	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.2 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.5 U
tert-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	1.0 U	0.2 U	0.230
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	1.0 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	1.0 U	0.2 U	0.201
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	1.0 U	0.2 U	0.2 U
trans-1,4-Dichloro-2-butene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.00 UJ	5.00 UJ	5.0 U	1.0 U	NA
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	1.0 U	0.2	0.323
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	1.0 U	0.2 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 UJ	0.500 UJ	5.0 U	0.2 U	NA
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.254	0.217	1.0 U	0.2	0.2 U
Pesticides (µg/L; Method 8081A)															
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.10 U	0.10 U	0.07 U
Dissolved Metals (mg/L)															
Arsenic (7060A/200.8)	0.0329	0.0353	0.0320	0.0306	0.0362	0.0340	0.0365	0.0345	0.0314	0.0330	0.0291	0.0293	0.008	0.009	0.00994
Cadmium (6010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	0.002 U	0.001 U
Chromium (6010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	0.001 U
Iron (6010B/200.8)	22.9	24.2	24.1	23.7	24.1	24.3	25.5	23.3	25.3	25.4	21.7	21.5	5.61	6.34	6.91
Manganese (6010B/200.8)	3.69	3.83	3.82	3.81	3.85	3.91	3.75	3.50	3.76	3.71	3.72	3.71	6.04	5.64	5.27
Conventionals															
Chloride (mg/L) (325.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.9	3.7	3.82
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.9	3.8	6.35
N-Nitrate (mg-N/L) (calc.)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.010 U	0.010 U	0.1 U
N-Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.010 U	0.010 U	0.1 U
Nitrate + Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.010 U	0.010 U	NA
Sulfate (mg/L) (375.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26	28	28.1
Chemical Oxygen Demand (mg/L) (410.4)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	7.6 UJ	10.0 U
Total Organic Carbon (mg/L) (415.1, SM5310C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.1	3.7	8.61
Un-ionized Ammonia (µg NH_3/L) (a)															
Minimum (b)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1.1	1.5	2.5
Maximum (c)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1,100	1,400	2,300
Field Parameters															
pH	6.4	6.4	6.43	6.43	6.41	6.42	6.42	6.42	6.43	6.43	6.36	6.4	5.78	6.4	6.4
Temperature (ºC)	12.1	12.1	12.4	12.4	15.6	7.0	13.6	13.7	13.5	13.5	14.2	14.1	19.6	12.6	12.6
Specific Conductivity (µS)	1,120	1,119	1,430	1,433	1,164	1,165	1,085	1,086	1,080	1,067	1,098	1,097	244	360	360

Table 2
Summary of Groundwater and Surface Water Analytical Results
2021 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																	
	EL-105 CX61E CX61 3/29/2001	EL-105-Dup CX61G CX61 3/29/2001	EL-105 DG04E DG04 6/14/2001	EL-105 EE52F EE52 3/18/2002	EL-105 ER96A ER96 8/28/2002	EL-105 FK21A FK21 4/17/2003	EL-105 GN17F GN17 4/8/2004	EL-105 IA68A IA68 5/9/2005	EL-105 JI58A JI58 5/9/2006	EL-105 LT43A LT43 10/10/2007	EL-105 NV83B NV83 10/21/2008	EL-105 PE53G PE53 6/25/2009	EL-105 QW57A QW57 5/13/2010	EL-105 SY24C SY24 05/23/2011	EL-105 6644947 1307589 5/8/2012	EL-105 7055039 1389676 05/13/2013	EL-105 7462650 1474176 5/13/2014
Volatiles (µg/L; Method SW8260B/C)																		
1,1,1,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	0.2 U	0.2 U	0.2	0.2	0.2 U	0.2	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	0.2 U	0.2 U	0.2	0.2	0.2	0.2	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroethylvinylether	R	R	R	R	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Isopropyltoluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1.0 U	1.0 U	1.0 U	1.0 U	1.3 U	1.1	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.3	0.2	0.3	0.3	0.2	0.2	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	0.2	0.2	0.3	0.3	0.2	0.3 J	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	1.8	1.8	1.7	1.6	1.7	1.7	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylene Dibromide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Summary of Groundwater and Surface Water Analytical Results
2021 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																
	EL-105 CX61E CX61 3/29/2001	EL-105-Dup CX61G CX61 3/29/2001	EL-105 DG04E DG04 6/14/2001	EL-105 EE52F EE52 3/18/2002	EL-105 ER96A ER96 8/28/2002	EL-105 FK21A FK21 4/17/2003	EL-105 GN17F GN17 4/8/2004	EL-105 IA68A IA68 5/9/2005	EL-105 JI58A JI58 5/9/2006	EL-105 LT43A LT43 10/10/2007	EL-105 NV83B NV83 10/21/2008	EL-105 PE53G PE53 6/25/2009	EL-105 QW57A QW57 5/13/2010	EL-105 SY24C SY24 05/23/2011	EL-105 6644947 1307589 5/8/2012	EL-105 7055039 1389676 05/13/2013	EL-105 7462650 1474176 5/13/2014
m,p-Xylene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Iodide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.3	0.3	0.2	0.3	0.3	0.3	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	0.2 U	0.2 U	0.2	0.8	0.5	0.3	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides (µg/L; Method 8081A)																	
Dieldrin	0.10 U	0.10 U	0.10 U	0.0033 U	0.010 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)																	
Arsenic (7060A/200.8)	0.010	0.011	0.010	0.005	0.005	0.007	0.005	0.008	0.006	0.004	0.0071	0.0098	0.0086	0.0048	0.0088	0.0072	0.009
Cadmium (6010)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (6010)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (6010B/200.8)	7.63	7.77	7.08	3.78	3.25	6.23	3.44	6.30	4.27	2.92	7.10	7.92	6.93	3.20	6.9	6.12	6.42
Manganese (6010B/200.8)	5.75	5.80	5.11	4.17	3.56	4.66	3.66	4.19	3.92	3.76	4.7	4.70	4.03	3.06	4.26	4.60	4.49
Conventionals																	
Chloride (mg/L) (325.2, 300.0)	4.9	4.5	4.1	5.4	4.7	4.0	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	2.7	2.7	2.4	1.8	1.6	2.0	1.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrate (mg-N/L) (calc.)	0.013	0.014	0.13	0.22	0.040	0.026	0.112	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrite (mg-N/L) (353.2)	0.010 U	0.010 U	0.010 U	0.026	0.010 U	0.010 U	0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate + Nitrite (mg-N/L) (353.2)	0.013	0.014	0.13	0.25	0.040	0.026	0.125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (mg/L) (375.2, 300.0)	24	24	27	23	31	23	24.8 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (mg/L) (410.4)	10	7.2	16	14	10	NA	9.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L) (415.1, SM5310C)	5.5	5.2	3.7	3.9	1.6	NA	4.42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Un-ionized Ammonia (µg NH_3/L) (a)																	
Minimum (b)	1.1	1.1	0.95	0.71	0.63	0.79	0.6	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Maximum (c)	979	979	870	653	580	725	533	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Field Parameters																	
pH	6.24	6.24	6.52	6.47	6.84	6.38	6.32	6.75	6.1	6.92	6.16	6.88	6.63	6.08	5.22	5.54	6.43
Temperature (ºC)	16.4	16.4	18.4	12.9	14.1	13.2	13.6	13.4	13.7	14.3	13.6	13.9	15.4	13.9	13.5	13.5	13.3
Specific Conductivity (µS)	359	359	375	242	252	289	245	301	285	271	347	66	8	303	339	273	274

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2021 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																
	EL-105 7879588 1559679 5/7/2015	EL-105 8382536 1661845 5/13/2016	EL-105 8977632 1797829 5/4/2017	EL-105 9580971 1936930 4/26/2018	EL-105 2040573 1041947 4/24/2019	EL-105 1306498 2097790 4/28/2020	EL-105 410-36712-2 410-36712-1 4/20/2021	EL-106 BY07F BY07 7/28/2000	EL-106 CO72B CO72 12/13/2000	EL-106-SDup B0L0318-03 B0L0365 12/13/2000	EL-106 CX61F CX61 3/29/2001	EL-106 DG04F DG04 6/14/2001	EL-106 EE52E EE52 3/18/2002	EL-106 ER96B ER96 8/28/2002	EL-106 FK21B FK21 4/17/2003	EL-106 GN17E GN17 4/8/2004	EL-106 IA68B IA68 5/9/2005
Volatiles (µg/L; Method SW8260B/C)																	
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA	NA	2.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
1,1-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	NA	3.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
1,3-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
2,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
2-Chloroethylvinylether	NA	NA	NA	NA	NA	NA	NA	R	0.5 U	NA	R	R	R	0.5 U	0.5 U	0.5 U	NA
2-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
4-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
4-Isopropyltoluene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
4-Methyl-2-Pentanone (MIBK)	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2	1.8	NA
Acrolein	NA	NA	NA	NA	NA	NA	NA	50 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
Benzene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Bromobenzene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Bromochloromethane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Bromoethane	NA	NA	NA	NA	NA	NA	NA	2.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Carbon Disulfide	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Chloroform	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Chloromethane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.8	0.85	0.7	0.6	0.5	0.4	0.4	0.4	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Dibromomethane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Ethylene Dibromide	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA

Table 2
Summary of Groundwater and Surface Water Analytical Results
2021 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																
	EL-105 7879588 1559679 5/7/2015	EL-105 8382536 1661845 5/13/2016	EL-105 8977632 1797829 5/4/2017	EL-105 9580971 1936930 4/26/2018	EL-105 2040573 1041947 4/24/2019	EL-105 1306498 2097790 4/28/2020	EL-105 410-36712-2 410-36712-1 4/20/2021	EL-106 BY07F BY07 7/28/2000	EL-106 CO72B CO72 12/13/2000	EL-106-SDup B0L0318-03 B0L0365 12/13/2000	EL-106 CX61F CX61 3/29/2001	EL-106 DG04F DG04 6/14/2001	EL-106 EE52E EE52 3/18/2002	EL-106 ER96B ER96 8/28/2002	EL-106 FK21B FK21 4/17/2003	EL-106 GN17E GN17 4/8/2004	EL-106 IA68B IA68 5/9/2005
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.4 U	0.5 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NA
Methyl Iodide	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	2.0 U	0.3 U	5.0 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA
n-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
o-Xylene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.25 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
sec-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
tert-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Toluene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Vinyl Chloride	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Pesticides (µg/L; Method 8081A)																	
Dieldrin	NA	NA	NA	NA	NA	NA	NA	0.10 U	0.10 U	0.07 U	0.10 UJ	0.10 U	0.0033 U	0.010 U	NA	NA	NA
Dissolved Metals (mg/L)																	
Arsenic (7060A/200.8)	0.0076	0.0020 U	0.0070	0.0023	0.0025	0.0021 U	0.00252	0.006	0.008	0.00912	0.007	0.008	0.001	0.002	0.002	0.001	NA
Cadmium (6010)	NA	NA	NA	NA	NA	NA	NA	0.002 U	0.002 U	0.001 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA
Chromium (6010)	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	0.00169	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA
Iron (6010B/200.8)	5.47	2.01	5.49	4.35	3.53	1.20	2.71	1.52	8.71	8.88	7.15	6.97	0.46	3.47	3.41	0.12	1.13
Manganese (6010B/200.8)	4.11	3.07	3.40	3.23	2.93	2.22	2.39	5.56	11.3	9.77	10.4	8.00	0.621	4.55	4.08	0.550	2.18
Conventionals																	
Chloride (mg/L) (325.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	8.0	18	18.5	8.7	4.5	3.4	8.9	7.4	3.5	NA
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	NA	NA	NA	NA	NA	NA	NA	2.7	4.1	5.83	4.3	4.1	0.20	0.46	1.7	0.277	NA
N-Nitrate (mg-N/L) (calc.)	NA	NA	NA	NA	NA	NA	NA	2.2	0.20	0.393	0.072	0.073	3.0	1.3	1.1	1.98	NA
N-Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	0.022	0.021	0.1 U	0.021	0.010 U	0.012	0.010 U	0.010 U	0.016	NA
Nitrate + Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	2.3	0.22	NA	0.093	0.073	3.0	1.3	1.1	2.00	NA
Sulfate (mg/L) (375.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	22	30	25.7	18	17	24	23	19	22.5 J	NA
Chemical Oxygen Demand (mg/L) (410.4)	NA	NA	NA	NA	NA	NA	NA	18	32 UJ	56.5	34	25	9.8	13	NA	15.5	NA
Total Organic Carbon (mg/L) (415.1, SM5310C)	NA	NA	NA	NA	NA	NA	NA	5.6	12	14	12	9.3	4.4	3.7	NA	6.19	NA
Un-ionized Ammonia (µg NH_3/L) (a)																	
Minimum (b)	NC	NC	NC	NC	NC	NC	NC	1.1	1.6	2.3	1.7	1.6	0.08	0.18	0.67	0.1	NC
Maximum (c)	NC	NC	NC	NC	NC	NC	NC	979	1,500	2,100	1,600	1,500	73	167	617	100	NC
Field Parameters																	
pH	6.17	6.21	6.16	6.07	6.21	6.25	6.06	5.95	6.5	6.5	6.27	6.81	6.37	6.44	6.31	6.23	6.57
Temperature (ºC)	14.0	15.4	14.1	13.9	14.8	14.3	15.3	18.8	15.1	15.1	15.4	19.1	12.4	13.6	12.7	12.9	13.0
Specific Conductivity (µS)	251	248	332	251	255	196	219	379	764	764	734	624	207	270	359	247	330

Table 2
Summary of Groundwater and Surface Water Analytical Results
2021 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																
	EL-106-DUP IA68F IA68 5/9/2005	EL-106 JI58B JI58 5/9/2006	EL-106R LT21B LT21 10/10/2007	EL-106R NV83A NV83 10/21/2008	EL-106R PE53E PE53 6/24/2009	EL-106R QW57B QW57 5/13/2010	EL-106R SY24D SY24 5/23/2011	EL-106R 6644940 1307589 5/8/2012	EL-106R 7055032 1389676 05/13/2013	EL-106R 7462649 1474176 5/13/2014	EL-106R 7879585 1559679 5/7/2015	EL-106R 8382534 1661845 5/13/2016	EL-106R 8977630 1797829 5/4/2017	EL-106R 9580970 1936930 4/26/2018	EL-106R 2040573 1041946 4/24/2019	EL-106R 1306497 2097790 4/28/2020	EL-106R 410-36712-1 410-36712-1 4/20/2021
Volatiles (µg/L; Method SW8260B/C)																	
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroethylvinylether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Isopropyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylene Dibromide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																
	EL-106-DUP IA68F IA68 5/9/2005	EL-106 JI58B JI58 5/9/2006	EL-106R LT21B LT21 10/10/2007	EL-106R NV83A NV83 10/21/2008	EL-106R PE53E PE53 6/24/2009	EL-106R QW57B QW57 5/13/2010	EL-106R SY24D SY24 5/23/2011	EL-106R 6644940 1307589 5/8/2012	EL-106R 7055032 1389676 05/13/2013	EL-106R 7462649 1474176 5/13/2014	EL-106R 7879585 1559679 5/7/2015	EL-106R 8382534 1661845 5/13/2016	EL-106R 8977630 1797829 5/4/2017	EL-106R 9580970 1936930 4/26/2018	EL-106R 2040573 1041946 4/24/2019	EL-106R 1306497 2097790 4/28/2020	EL-106R 410-36712-1 410-36712-1 4/20/2021
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Iodide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides (µg/L; Method 8081A)																	
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)																	
Arsenic (7060A/200.8)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (6010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (6010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (6010B/200.8)	1.37	1.29	0.25	2.12	2.13	2.54	2.69	3.39	2.49	2.75	2.04	2.01	2.40	1.94	1.97	2.62	2.55
Manganese (6010B/200.8)	2.15	0.079	6.43	8.3	8.59	6.48	7.39	8.28	7.85	6.74	6.36	6.52	6.05	7.02	6.62	7.97	9.21
Conventionals																	
Chloride (mg/L) (325.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrate (mg-N/L) (calc.)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate + Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (mg/L) (375.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (mg/L) (410.4)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L) (415.1, SM5310C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Un-ionized Ammonia (µg NH_3/L) (a)																	
Minimum (b)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Maximum (c)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Field Parameters																	
pH	NM	6.21	6.84	6.94	7.02	6.78	6.36	6.56	5.76	6.00	6.23	6.52	NA	6.45	6.55	6.77	6.30
Temperature (ºC)	NM	12.7	13.6	12.6	13.6	14.0	13.8	16.9	13.8	12.7	12.7	13.7	NA	14.3	13.8	14.1	14.3
Specific Conductivity (µS)	NM	252	469	645	121	19	500	564	515	476	405	349	NA	555	538	499	723

Table 2
Summary of Groundwater and Surface Water Analytical Results
2021 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Lab ID, Lab Data Package ID, Sample Date																	
	French Drain CB90 CB90 9/1/2000	French Drain CO72E CO72 12/13/2000	French Drain CX61H CX61 3/29/2001	French Drain DG04H DG04 6/14/2001	French Drain EE52B EE52 3/18/2002	French Drain EE52A EE52 3/18/2002	French Drain ER96D ER96 8/28/2002	French Drain FK21E FK21 4/17/2003	French Drain GN17D GN17 4/087/2004	French Drain IA68E IA68 5/9/2005	French Drain JI58E JI58 5/9/2006	French Drain LT21A LT21 10/10/2007	French Drain NV83E NV83 10/21/2008	French Drain PE53A PE53 6/24/2009	French Drain QW57E QW57 5/14/2010	French Drain SY24E SY24 05/23/2011	French Drain 6644941 1307589 5/8/2012	French Drain 7055033 1389676 05/13/2013
Volatiles (µg/L; Method SW8260B/C)																		
1,1,1,2-Tetrachloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
1,1,1-Trichloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
1,1-Dichloroethene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloropropene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	3.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	1.0 U	0.2	0.2 U	0.3	0.3	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2	0.2 U	8.2	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	4.0 U	2.0 U	2.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	1.0 J	1.8	0.9	1.9	1.6	0.2 U	1.7	1.3	1.7	1.8	1.3	0.5	1.0	1.6	1.4	0.9	0.9	1.2
1,2-Dichloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	3.1	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
1,3-Dichlorobenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
1,3-Dichloropropane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
1,4-Dichlorobenzene	3.8	7.0	5.6	8.8	7.0	0.2 U	6.6	6.3	8.3	8.6	6.0	1.9	4.1	5.9	5.1	3.8	3.7	4.5
2,2-Dichloropropane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
2-Butanone	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloroethylvinylether	5.0 U	0.5 U	R	R	R	R	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
2-Chlorotoluene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
2-Hexanone	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	3.0 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
4-Isopropyltoluene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	10	1.0 U	1.0 U	1.0 U	2.4	3.1	4.5	4.3	4.4	3.3	2.7 U	4.3	3.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acrolein	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	25 U
Acrylonitrile	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U
Benzene	2.2	6.0	3.3	6.6	4.0	0.2 U	4.3	3.5	5.2	5.2	3.8	0.8	2.3	3.2	2.4	1.5	1.5	1.5
Bromobenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
Bromochloromethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
Bromodichloromethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
Bromoethane	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA
Bromoform	1.0 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
Bromomethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U
Carbon Disulfide	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
Carbon Tetrachloride	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	12	24	12	22	19	0.2 U	19	17 J	27	26	20	5.1	16	24	22	15	16	21
Chloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
Chloroform	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	1.0 U	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,3-Dichloropropene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
Dibromomethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
Ethylene Dibromide	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
Hexachlorobutadiene	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	1.0 U	3.1	1.4	3.3	3.3	0.2 U	2.1	2.3	2.8	3.0	2.7	0.2	0.6	3.0	2.6	1.9	1.9	2.5

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	French Drain CB90 CB90 9/1/2000	French Drain CO72E CO72 12/13/2000	French Drain CX61H CX61 3/29/2001	French Drain DG04H DG04 6/14/2001	French Drain EE52B EE52 3/18/2002	French Drain EE52A EE52 3/18/2002	French Drain ER96D ER96 8/28/2002	French Drain FK21E FK21 4/17/2003	French Drain GN17D GN17 4/087/2004	French Drain IA68E IA68 5/9/2005	French Drain JI58E JI58 5/9/2006	French Drain LT21A LT21 10/10/2007	French Drain NV83E NV83 10/21/2008	French Drain PE53A PE53 6/24/2009	French Drain QW57E QW57 5/14/2010	French Drain SY24E SY24 05/23/2011	French Drain 6644941 1307589 5/8/2012	French Drain 7055033 1389676 05/13/2013
m,p-Xylene	1.0 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.8 U	0.4 U	0.4 U	0.4 U	1.1	0.4 U	0.4 U	0.4 U	0.5 U	0.5 U
Methyl Iodide	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U
Methylene Chloride	2.0 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.6 U	0.6 U	0.3 U	0.3 U	0.3 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	4.7 J	18	5.1	17	17	0.5 U	12	9.9	12	15	11	0.5	1.6 J	11	7.5	3.6	3.3	4.1
n-Butylbenzene	1.0 U	0.8	0.4	1.1	1.2	0.2 U	0.7	0.6 M	0.9	1.0	0.8	0.2 U	0.7	0.9	0.9	0.6	0.6	0.8
n-Propylbenzene	1.0 U	2.4	1.1	3.0	3.6	0.2 U	1.8	2.3	2.6	2.9	2.8	0.2	1.1	2.7	2.8	1.9	1.8	2.3
o-Xylene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
sec-Butylbenzene	1.0 U	1.1	0.7	1.3	1.4	0.2 U	0.9	1.0	1.2	1.3	1.1	0.2 U	0.4	1.3	1.2	0.9	0.9	1.2
Styrene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
tert-Butylbenzene	1.0 U	0.2	0.2 U	0.3	0.2	0.2 U	0.2 U	0.4 U	0.4 U	0.3	0.2	0.2 U	0.2 U	0.3	0.2	0.2	0.5 U	0.5 U
Tetrachloroethene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	1.0 U	0.2 U	0.2 U	0.2	0.2	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,4-Dichloro-2-butene	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U
Trichloroethene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
Vinyl Acetate	5.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U
Vinyl Chloride	1.0 U	0.2 U	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Pesticides (µg/L; Method 8081A)																		
Dieldrin	0.10 U	0.10 U	0.10 U	0.10 U	0.0033 U	0.0033 U	0.010 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)																		
Arsenic (7060A/200.8)	0.001 U	0.001	0.002	0.001 U	0.001 U	0.0007	0.001	0.001 U	0.002	0.001 U	0.001 U	0.001	0.0006	0.0016	0.0017	NA	NA	NA
Cadmium (6010)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (6010)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (6010B/200.8)	2.76	35.1	35.9	42.8	45.8	0.76	15.8	38.9	62.9	66.7	54.3	2.0	3.86	60.6	62.5	54.1	48.6	65.1
Manganese (6010B/200.8)	0.361	0.645	0.767	0.575	0.719	1.35	0.385	0.700	0.777	0.812	0.741	0.352	0.373	0.629	0.748	0.835	0.668	0.747
Conventionals																		
Chloride (mg/L) (325.2, 300.0)	76	22	12	25	8.8	1.7	61	8.7	12.4	11.6	11.1	21.7	28.1	12.0	8.5	5.2	5.9	8.0
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	100	61	33	60	28	0.67	100	38	46.3	46.4	44.5	40.8	70.9	45.7	34.1	24.9	25.4	30.2
N-Nitrate (mg-N/L) (calc.)	0.72	0.021	0.010 U	0.010	0.010 U	0.34	0.031	0.012	0.010 U	0.050 U	0.020 UJ	0.225	0.177	0.500 U	0.500 U	0.500 U	0.100 U	0.060
N-Nitrite (mg-N/L) (353.2)	0.05	0.035	0.038	0.043	0.070	0.010 U	0.052	0.032	0.075	0.092	0.024 J	0.012	0.111	0.500 U	0.500 U	0.100 U	0.073	0.070
Nitrate + Nitrite (mg-N/L) (353.2)	0.77	0.056	0.046	0.042	0.035	0.34	0.083	0.044	0.010 U	0.050 U	0.020 U	0.237 J	0.288	0.500 U	0.500 U	0.500 UJ	0.10 U	0.13
Sulfate (mg/L) (375.2, 300.0)	23	19	18	12	11	8.5	8.5	12	29.0 J	7.6	3.8 U	537	24.5	9.5	14.1	0.6	2.1	1.0 U
Chemical Oxygen Demand (mg/L) (410.4)	88	54 UJ	39	66	40	16	83	NA	48.8	45.8	44.8	NA	57.1	48.3	40.1	43.5	55.5	59.4
Total Organic Carbon (mg/L) (415.1, SM5310C)	28	18	14	20	12	6.4	30	NA	16.0	16.3	13.5	14.9	19.2	16.1	13.0	13.7	24.4	17.9
Un-ionized Ammonia (µg NH_3/L) (a)																		
Minimum (b)	40	24	13	24	11	0.26	40	15	18.3	18.3	17.6	16.1	28.0	NC	NC	NC	NC	NC
Maximum (c)	36,000	22,000	12,000	22,000	10,000	243	36,000	14,000	16,800	16,800	16,100	14,800	25,700	NC	NC	NC	NC	NC
Field Parameters																		
pH	6.96 J	NM	6.46	6.82	NM	NM	7.03	6.64	6.53	6.71	6.73	7.41	7.75	6.96	7.65	7.09	5.91	6.42
Temperature (ºC)	NM	NM	11.9	15.2	NM	NM	16.4	10.3	10.2	11.5	10.3	14.2	12.9	13.1	11.0	11.8	11.3	13.6
Specific Conductivity (µS)	2,000	NM	628	1,529	NM	NM	1,665	700	917	949	778	741	1,193	188	1,697	537	666	664

Table 2
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Analyte	Sample Location, Lab ID, Lab Data Package ID, Sample Date							
	French Drain 7462653 1474176 5/13/2014	French Drain 7879586 1559679 5/7/2015	French Drain 8382539 1661845 5/13/2016	French Drain 8977633 1797829 5/4/2017	French Drain 9580976 1936930 4/26/2018	French Drain 2040573 1041952 4/24/2019	French Drain 1306503 2097790 4/28/2020	French Drain 410-36712-5 410-36712-1 4/20/2021
Volatiles (µg/L; Method SW8260B/C)								
1,1,1,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U
1,1-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
1,2,3-Trichloropropane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.00 U
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
1,2,4-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
1,2-Dibromo-3-chloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.500 U
1,2-Dichlorobenzene	0.9	1.2	1.3	0.9	0.9	0.9	1.0	1.02
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
1,3,5-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
1,3-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
1,3-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
1,4-Dichlorobenzene	3.6	4.5	4.4	3.1	3.2	3.1	3.7	3.58
2,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U
2-Chloroethylvinylether	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U
4-Chlorotoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
4-Isopropyltoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U
Acrolein	25 UJ	25 U	25 U	25 U	25 U	25 UJ	25 UJ	25.0 UJ
Acrylonitrile	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.00 UJ
Benzene	1.1	1.2	1.2	0.9	0.8	0.6	0.7	0.643
Bromobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Bromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Bromoethane	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.00 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Carbon Disulfide	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U
Chlorobenzene	18	21	23	16	16	16	18	17.6
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U
Chloromethane	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
cis-1,2-Dichloroethene	0.4	0.2 U	0.2 U	0.4	0.6	0.2 U	0.3	0.200 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Dibromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Ethylene Dibromide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Isopropylbenzene	2.2	2.2	2.0	1.6	1.5	1.2	1.3	1.52

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m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Methyl Iodide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Naphthalene	2.9	2.5	1.3	0.8	0.8	0.5 U	0.5 U	0.500 U
n-Butylbenzene	0.7	0.7	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.500 U
n-Propylbenzene	1.9	1.9	1.5	1.4	1.3	1.0	1.1	1.24
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
sec-Butylbenzene	1	1.1	0.9	0.8	0.8	0.7	0.7	0.843
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
tert-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U
Toluene	0.2 U	0.2 U	0.2	0.2	0.2 U	0.2 U	0.2 U	0.200 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U
trans-1,4-Dichloro-2-butene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.00 UJ
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 UJ
Vinyl Chloride	0.3	0.2 U	0.2 U	0.5	0.3	0.2 U	0.4	0.200 U
Pesticides (µg/L; Method 8081A)								
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)								
Arsenic (7060A/200.8)	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (6010)	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (6010)	NA	NA	NA	NA	NA	NA	NA	NA
Iron (6010B/200.8)	53.1	60.9	62.7	55.2	59.3	55.4	55.1	56.1
Manganese (6010B/200.8)	0.778	0.657	0.600	0.777	0.908	0.673	0.654	0.741
Conventionals								
Chloride (mg/L) (325.2, 300.0)	5.7	6.5	12.6	6.7	6.6	4.3	8.2	9.06
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	24.9	43.8	47.8	25.3	24.7	34.7	36.4	40.4
N-Nitrate (mg-N/L) (calc.)	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.100 U
N-Nitrite (mg-N/L) (353.2)	0.065	0.18	0.089	0.10	0.050 U	0.050 U	0.050 U	0.0500 U
Nitrate + Nitrite (mg-N/L) (353.2)	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA
Sulfate (mg/L) (375.2, 300.0)	3.0	1.8	1.2	1.8	4.2	10.3	5.8	5.00 U
Chemical Oxygen Demand (mg/L) (410.4)	50.0 U	50.0 U	64.7	50.0 U	50.0 U	50.0 U	75.0 U	75.0 U
Total Organic Carbon (mg/L) (415.1, SM5310C)	12.8	14.0	14.2	10.6	9.8	10.6	11.6	11.4
Un-ionized Ammonia (µg NH_3/L) (a)								
Minimum (b)	NC	NC	NC	NC	NC	NC	NC	NC
Maximum (c)	NC	NC	NC	NC	NC	NC	NC	NC
Field Parameters								
pH	7.32	6.35	6.43	6.43	6.38	6.35	6.43	6.48
Temperature (ºC)	10.8	11.2	13.0	12.0	12.1	11.5	11.6	11.6
Specific Conductivity (µS)	637	775	923	859	647	692	760	794

Abbreviations and Acronyms:

°C = degrees Celsius
µg/L = micrograms per liter
µg/S = micrograms per Siemen
µg NH_3/L = micrograms ammonia per liter
Calc = calculated
ID = identification
mg/L = milligrams per liter
mg-N/L = milligrams nitrate per liter
NA = not analyzed.
NC = not calculated
NM = not measured
SDup = Split sample collected by Dalton, Olmsted & Fuglevand, Inc. for Spieker Properties, prospective purchaser of property and analyzed by North Creek Analytical, Inc.

Notes:

U = Indicates compound was analyzed for, but was not detected at the given reporting limit.
UJ = Indicates the analyte was not detected in the sample; the sample reporting limit is an estimate.
M = Indicates an estimated value of analyte found and confirmed by analyst, but with low spectral match.
J = Indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

(a) Un-ionized ammonia concentrations calculated for T = 5 - 25 ºC, and pH = 6.5 - 9 in Lake Sammamish.
(b) Minimum un-ionized ammonia concentrations calculated based on a temperature of 5 ºC and a pH of 6.5.
(c) Maximum un-ionized ammonia concentrations calculated based on a temperature of 25 ºC and a pH of 9.

Table 3
Summary of Groundwater and Surface Water Analytical Results
for Detected Constituents for Last Four Consecutive Sampling Events
Former Eastgate Landfill

Analyte	Screening Levels (a)	Sample Location, Lab Sample ID, Lab SDG, and Sample Date															
		EL-103 9580974 1936930 4/26/2018	EL-100 EL-103-DUP 9580972 1936930 4/26/2018	EL-103 2040573 1041948 4/24/2019	EL-100 EL-103-DUP 2040573 1041950 4/24/2019	EL-103 1306499 2097790 4/28/2020	EL-100 EL-103-DUP 1306501 2097790 4/28/2020	EL-103 410-36712-4 410-36712-1 4/20/2021	EL-100 EL-103-DUP 410-36712-3 410-36712-1 4/20/2021	EL-105 9580971 1936930 4/26/2018	EL-105 2040573 1041947 4/24/2019	EL-105 1306498 2097790 4/28/2020	EL-105 410-36712-2 410-36712-1 4/20/2021	EL-106R 9580970 1936930 4/26/2018	EL-106R 2040573 1041946 4/24/2019	EL-106R 1306497 2097790 4/28/2020	EL-106R 410-36712-1 410-36712-1 4/20/2021
Volatiles (µg/L; Method SW8260B/C)																	
1,2-Dichlorobenzene	600	1.2	1.2	1.4 J	1.4	1.4	1.4	1.35	1.22	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	1.8	**2.0**	**2.0**	**2.0** J	**2.0**	**2.0**	**2.1**	1.73	1.57	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	5	1.4	1.5	1.6 J	1.6	1.5	1.6	1.25	1.19	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	100	20	20	22 J	22	22	23	19.3	18.4	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	1600	0.9	0.9	0.6 J	0.6	0.7	0.7	0.579	0.520	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	320	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	--	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	--	0.5 U	0.5	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	0.8	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.254	0.217	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)																	
Arsenic (7060A/200.8)	0.004	**0.0362**	**0.0340**	**0.0365**	**0.0345**	**0.0314**	**0.0330**	**0.0291**	**0.0293**	0.0023	0.0025	0.0021 U	0.00252	NA	NA	NA	NA
Iron (6010B/200.8)	0.3	**24.1**	**24.3**	**25.5**	**23.3**	**25.3**	**25.4**	**21.7**	**21.5**	**4.35**	**3.53**	**1.2**	**2.71**	**1.94**	**1.97**	**2.62**	**2.55**
Manganese (6010B/200.8)	0.05	**3.85**	**3.91**	**3.75**	**3.50**	**3.76**	**3.71**	**3.72**	**3.71**	**3.23**	**2.93**	**2.22**	**2.39**	**7.02**	**6.62**	**7.97**	**9.21**
Conventionals																	
Chloride (mg/L) (325.2, 300.0)	230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ammonia (mg-N/L) (350.1M, SM4500NH3D)	--(b)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrate (mg-N/L) (calc.)	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrite (mg-N/L) (353.2)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate + Nitrite (mg-N/L) (353.2)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (mg/L) (375.2, 300.0)	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (mg/L) (410.4)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L) (415.1, SM5310C)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters																	
pH	--	6.41	6.42	6.42	6.42	6.43	6.43	6.36	6.4	6.07	6.21	6.25	6.06	6.45	6.55	6.77	6.30
Temperature (°C)	--	15.6	15.7	13.6	13.7	13.5	13.5	14.2	14.1	13.9	14.8	14.3	15.3	14.3	13.8	14.1	14.3
Specific Conductivity (µS)	--	1,164	1,165	1,085	1,086	1,080	1,067	1,098	1,097	251	255	196	218.8	555	538	498.5	723

Table 3
Summary of Groundwater and Surface Water Analytical Results
for Detected Constituents for Last Four Consecutive Sampling Events
Former Eastgate Landfill

Analyte	Screening Levels (a)	Sample Location, Lab Sample ID, Lab SDG, and Sample Date			
		French Drain 9580976 1936930 4/26/2018	French Drain 2040573 1041952 4/24/2019	French Drain 1306503 2097790 4/28/2020	French Drain 410-36712-5 410-36712-1 4/20/2021
Volatiles (µg/L; Method SW8260B/C)					
1,2-Dichlorobenzene	600	0.9	0.9	1	1.02
1,4-Dichlorobenzene	1.8	**3.2**	**3.1**	**3.7**	**3.58**
Benzene	5	0.8	0.6	0.7	0.643
Chlorobenzene	100	16	16	18	17.6
cis-1,2-Dichloroethene	70	0.6	0.2 U	0.3	0.200 U
Isopropylbenzene	1600	1.5	1.2	1.3	1.52
Naphthalene	320	0.8	0.5 U	0.5 U	0.500 U
n-Propylbenzene	--	1.3	1.0	1.1	1.24
sec-Butylbenzene	--	0.8	0.7	0.7	0.843
Vinyl Chloride	0.8	0.3	0.2 U	0.4	0.200 U
Dissolved Metals (mg/L)					
Arsenic (7060A/200.8)	0.004	NA	NA	NA	NA
Iron (6010B/200.8)	0.3	**59.3**	**55.4**	**55.1**	**56.1**
Manganese (6010B/200.8)	0.05	**0.908**	**0.673**	**0.654**	**0.741**
Conventionals					
Chloride (mg/L) (325.2, 300.0)	230	6.6	4.3	8.2	9.06
N-Ammonia (mg-N/L) (350.1M, SM4500NH3D)	--(b)	24.7	34.7	36.4	40.4
N-Nitrate (mg-N/L) (calc.)	10	0.10 U	0.10 U	0.10 U	0.100 U
N-Nitrite (mg-N/L) (353.2)	1	0.050 U	0.050 U	0.050 U	0.0500 U
Nitrate + Nitrite (mg-N/L) (353.2)	--	0.10 U	0.10 U	0.10 U	NA
Sulfate (mg/L) (375.2, 300.0)	250	4.2	10.3	5.8	5.00 U
Chemical Oxygen Demand (mg/L) (410.4)	--	50.0 U	50.0 U	75.0 U	75.0 U
Total Organic Carbon (mg/L) (415.1, SM5310C)	--	9.8	10.6	11.6	11.4
Field Parameters					
pH	--	6.38	6.35	6.43	6.48
Temperature (°C)	--	12.1	11.5	11.6	11.6
Specific Conductivity (µS)	--	647	692	760	794

Abbreviations and Acronyms:

°C = degrees Celsius
µg/L = micrograms per liter
µg/S = micrograms per Siemen
ID = identification
mg/L = milligrams per liter
mg-N/L = milligrams nitrate per liter
NA = not analyzed
SDG = sample delivery group

Notes:

U = Indicates compound was analyzed for, but was not detected at the given reporting limit.
Bold = Exceedance of screening level.

(a) Screening levels were developed based on federal criteria for drinking water and fresh surface water and practical quantitation limits.
(b) Cleanup level is based on un-ionized ammonia, which is calculated based on total ammonia, pH, and temperature.

Table 4
Groundwater Monitoring Scope
Former Eastgate Landfill

Groundwater Monitoring Event and Activity	Location and Planned Scope of Groundwater Monitoring								
	EL-101R	EL-102	EL-103	EL-104	EL-105	EL-106R	EL-107	French Drain	Pond A
Groundwater Sampling	--	--	VOCs (a), Dissolved Metals (b)	--	Dissolved Metals (c)	Dissolved Metals (c)	--	VOCs (a), Dissolved Metals (c), and Conventional Parameters (d)	--
Water Level Measurements	X	X	X	X	X	X	X		X

Notes:

(a) US Environmental Protection Agency (EPA) Method 8260C, Boeing 69.

(b) Dissolved metals include arsenic, iron, and manganese. Dissolved metals will be filtered in the field.

(c) Dissolved metals include only iron and manganese. Dissolved metals will be filtered in the field.

(d) Conventionals include chloride, N-ammonia, N-nitrate, N-nitrite, nitrate + nitrite, sulfate, total organic carbon, and chemical oxygen demand.

Abbreviations and Acronyms:

VOCs = volatile organic compounds

APPENDIX A

Laboratory Data Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-36712-1
Client Project/Site: Boeing: Eastgate Landfill

For:
The Boeing Company
Support Services
PO BOX 34083
Seattle, Washington 98124

Attn: Jennifer A Parsons

Vanessa M. Badman

Authorized for release by:
5/4/2021 3:37:51 AM

Vanessa Badman, Project Manager
(717)556-9762
vanessa.badman@eurofinset.com

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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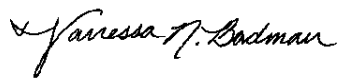

Vanessa Badman
Project Manager
5/4/2021 3:37:51 AM

Table of Contents

Definitions/Glossary

Client: The Boeing Company
Job ID: 410-36712-1
Project/Site: Boeing: Eastgate Landfill

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: The Boeing Company
Project/Site: Boeing: Eastgate Landfill

Job ID: 410-36712-1

Job ID: 410-36712-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-36712-1

Receipt
The samples were received on 4/21/2021 10:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

GC/MS VOA
Method 8260D_LL: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: EL-100-210420 (410-36712-3), EL-103-210420 (410-36712-4), FrenchDrain-210420 (410-36712-5) and TripBlanks (410-36712-6). The requested target analyte list includes Acrolein and Acrylonitrile an acid-labile compound that degrades in an acidic medium.

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-118816 recovered outside acceptance criteria, low biased, for Vinyl acetate and trans-1,4-Dichloro-2-butene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: The Boeing Company
Job ID: 410-36712-1
Project/Site: Boeing: Eastgate Landfill

Client Sample ID: EL-106R-210420 — Lab Sample ID: 410-36712-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2.55		0.206		mg/L	1		6010D	Dissolved
Manganese	9.21		0.0103		mg/L	1		6010D	Dissolved

Client Sample ID: EL-105-210420 — Lab Sample ID: 410-36712-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.52		2.06		ug/L	1		200.8 Rev 5.4	Dissolved
Iron	2.71		0.206		mg/L	1		6010D	Dissolved
Manganese	2.39		0.0103		mg/L	1		6010D	Dissolved

Client Sample ID: EL-100-210420 — Lab Sample ID: 410-36712-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.22		0.500		ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	1.57		0.500		ug/L	1		8260D	Total/NA
Benzene	1.19		0.200		ug/L	1		8260D	Total/NA
Chlorobenzene	18.4		0.500		ug/L	1		8260D	Total/NA
Isopropylbenzene	0.520		0.500		ug/L	1		8260D	Total/NA
Vinyl chloride	0.217		0.200		ug/L	1		8260D	Total/NA
Arsenic	29.3		2.06		ug/L	1		200.8 Rev 5.4	Dissolved
Iron	21.5		0.206		mg/L	1		6010D	Dissolved
Manganese	3.71		0.0103		mg/L	1		6010D	Dissolved

Client Sample ID: EL-103-210420 — Lab Sample ID: 410-36712-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.35		0.500		ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	1.73		0.500		ug/L	1		8260D	Total/NA
Benzene	1.25		0.200		ug/L	1		8260D	Total/NA
Chlorobenzene	19.3		0.500		ug/L	1		8260D	Total/NA
Isopropylbenzene	0.579		0.500		ug/L	1		8260D	Total/NA
Vinyl chloride	0.254		0.200		ug/L	1		8260D	Total/NA
Arsenic	29.1		2.06		ug/L	1		200.8 Rev 5.4	Dissolved
Iron	21.7		0.206		mg/L	1		6010D	Dissolved
Manganese	3.72		0.0103		mg/L	1		6010D	Dissolved

Client Sample ID: FrenchDrain-210420 — Lab Sample ID: 410-36712-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.02		0.500		ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	3.58		0.500		ug/L	1		8260D	Total/NA
Benzene	0.643		0.200		ug/L	1		8260D	Total/NA
Chlorobenzene	17.6		0.500		ug/L	1		8260D	Total/NA
Isopropylbenzene	1.52		0.500		ug/L	1		8260D	Total/NA
N-Propylbenzene	1.24		0.500		ug/L	1		8260D	Total/NA
sec-Butylbenzene	0.843		0.500		ug/L	1		8260D	Total/NA
Chloride	9.06		2.00		mg/L	5		EPA 300.0 R2.1	Total/NA
Iron	56.1		0.206		mg/L	1		6010D	Dissolved
Manganese	0.741		0.0103		mg/L	1		6010D	Dissolved
Ammonia-N	40.4		2.40		mg/L	10		4500 NH3 D-2011	Total/NA
Total Organic Carbon	11.4		1.00		mg/L	1		5310C-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: The Boeing Company
Job ID: 410-36712-1
Project/Site: Boeing: Eastgate Landfill

Client Sample ID: TripBlanks **Lab Sample ID: 410-36712-6**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: EL-106R-210420
Lab Sample ID: 410-36712-1

Date Collected: 04/20/21 10:55
Matrix: Water
Date Received: 04/21/21 10:54

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.55		0.206		mg/L		04/22/21 07:34	04/23/21 18:31	1
Manganese	9.21		0.0103		mg/L		04/22/21 07:34	04/23/21 18:31	1

Client Sample ID: EL-105-210420
Lab Sample ID: 410-36712-2

Date Collected: 04/20/21 13:10
Matrix: Water
Date Received: 04/21/21 10:54

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.52		2.06		ug/L		04/22/21 06:41	04/22/21 15:34	1

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.71		0.206		mg/L		04/22/21 07:34	04/23/21 18:34	1
Manganese	2.39		0.0103		mg/L		04/22/21 07:34	04/23/21 18:34	1

Client Sample ID: EL-100-210420
Lab Sample ID: 410-36712-3

Date Collected: 04/20/21 13:27
Matrix: Water
Date Received: 04/21/21 10:54

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.500	U	0.500		ug/L			04/26/21 15:34	1
1,1,1-Trichloroethane	0.500	U	0.500		ug/L			04/26/21 15:34	1
1,1,2,2-Tetrachloroethane	0.200	U	0.200		ug/L			04/26/21 15:34	1
1,1,2-Trichloroethane	0.200	U	0.200		ug/L			04/26/21 15:34	1
1,1-Dichloroethane	0.500	U	0.500		ug/L			04/26/21 15:34	1
1,1-Dichloroethene	0.200	U	0.200		ug/L			04/26/21 15:34	1
1,1-Dichloropropene	0.500	U	0.500		ug/L			04/26/21 15:34	1
1,2,3-Trichlorobenzene	0.500	U	0.500		ug/L			04/26/21 15:34	1
1,2,3-Trichloropropane	1.00	U	1.00		ug/L			04/26/21 15:34	1
1,2,4-Trichlorobenzene	0.500	U	0.500		ug/L			04/26/21 15:34	1
1,2,4-Trimethylbenzene	0.500	U	0.500		ug/L			04/26/21 15:34	1
1,2-Dibromo-3-Chloropropane	0.500	U	0.500		ug/L			04/26/21 15:34	1
1,2-Dibromoethane	0.500	U	0.500		ug/L			04/26/21 15:34	1
1,2-Dichlorobenzene	1.22		0.500		ug/L			04/26/21 15:34	1
1,2-Dichloroethane	0.200	U	0.200		ug/L			04/26/21 15:34	1
1,2-Dichloropropane	0.500	U	0.500		ug/L			04/26/21 15:34	1
1,3,5-Trimethylbenzene	0.500	U	0.500		ug/L			04/26/21 15:34	1
1,3-Dichlorobenzene	0.500	U	0.500		ug/L			04/26/21 15:34	1
1,3-Dichloropropane	0.500	U	0.500		ug/L			04/26/21 15:34	1
1,4-Dichlorobenzene	1.57		0.500		ug/L			04/26/21 15:34	1
2,2-Dichloropropane	0.500	U	0.500		ug/L			04/26/21 15:34	1
2-Butanone	5.00	U	5.00		ug/L			04/26/21 15:34	1
2-Chlorotoluene	0.500	U	0.500		ug/L			04/26/21 15:34	1
2-Hexanone	5.00	U	5.00		ug/L			04/26/21 15:34	1
4-Chlorotoluene	0.500	U	0.500		ug/L			04/26/21 15:34	1
4-Methyl-2-pentanone	5.00	U	5.00		ug/L			04/26/21 15:34	1
Acetone	5.00	U	5.00		ug/L			04/26/21 15:34	1
Acrolein	25.0	U	25.0		ug/L			04/26/21 15:34	1
Acrylonitrile	5.00	U	5.00		ug/L			04/26/21 15:34	1

Client: The Boeing Company
Project/Site: Boeing: Eastgate Landfill

Job ID: 410-36712-1

Client Sample ID: EL-100-210420
Date Collected: 04/20/21 13:27
Date Received: 04/21/21 10:54

Lab Sample ID: 410-36712-3
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.19**		0.200		ug/L			04/26/21 15:34	1
Bromobenzene	0.500	U	0.500		ug/L			04/26/21 15:34	1
Bromochloromethane	0.500	U	0.500		ug/L			04/26/21 15:34	1
Bromodichloromethane	0.500	U	0.500		ug/L			04/26/21 15:34	1
Bromoform	1.00	U	1.00		ug/L			04/26/21 15:34	1
Bromomethane	0.500	U	0.500		ug/L			04/26/21 15:34	1
Carbon disulfide	0.500	U	0.500		ug/L			04/26/21 15:34	1
Carbon tetrachloride	0.200	U	0.200		ug/L			04/26/21 15:34	1
Chlorobenzene	**18.4**		0.500		ug/L			04/26/21 15:34	1
Chloroethane	0.500	U	0.500		ug/L			04/26/21 15:34	1
Chloroform	0.200	U	0.200		ug/L			04/26/21 15:34	1
Chloromethane	0.500	U	0.500		ug/L			04/26/21 15:34	1
cis-1,2-Dichloroethene	0.200	U	0.200		ug/L			04/26/21 15:34	1
cis-1,3-Dichloropropene	0.200	U	0.200		ug/L			04/26/21 15:34	1
Dibromochloromethane	0.500	U	0.500		ug/L			04/26/21 15:34	1
Dibromomethane	0.500	U	0.500		ug/L			04/26/21 15:34	1
Ethylbenzene	0.500	U	0.500		ug/L			04/26/21 15:34	1
Freon 113	0.500	U	0.500		ug/L			04/26/21 15:34	1
Hexachlorobutadiene	0.500	U	0.500		ug/L			04/26/21 15:34	1
Isopropylbenzene	**0.520**		0.500		ug/L			04/26/21 15:34	1
m&p-Xylene	0.500	U	0.500		ug/L			04/26/21 15:34	1
Methyl iodide	0.500	U	0.500		ug/L			04/26/21 15:34	1
Methylene Chloride	0.500	U	0.500		ug/L			04/26/21 15:34	1
Naphthalene	0.500	U	0.500		ug/L			04/26/21 15:34	1
n-Butylbenzene	0.500	U	0.500		ug/L			04/26/21 15:34	1
N-Propylbenzene	0.500	U	0.500		ug/L			04/26/21 15:34	1
o-Xylene	0.500	U	0.500		ug/L			04/26/21 15:34	1
p-Isopropyltoluene	0.500	U	0.500		ug/L			04/26/21 15:34	1
sec-Butylbenzene	0.500	U	0.500		ug/L			04/26/21 15:34	1
Styrene	0.500	U	0.500		ug/L			04/26/21 15:34	1
tert-Butylbenzene	0.500	U	0.500		ug/L			04/26/21 15:34	1
Tetrachloroethene	0.200	U	0.200		ug/L			04/26/21 15:34	1
Toluene	0.200	U	0.200		ug/L			04/26/21 15:34	1
trans-1,2-Dichloroethene	0.200	U	0.200		ug/L			04/26/21 15:34	1
trans-1,3-Dichloropropene	0.200	U	0.200		ug/L			04/26/21 15:34	1
trans-1,4-Dichloro-2-butene	5.00	U	5.00		ug/L			04/26/21 15:34	1
Trichloroethene	0.200	U	0.200		ug/L			04/26/21 15:34	1
Trichlorofluoromethane	0.500	U	0.500		ug/L			04/26/21 15:34	1
Vinyl acetate	0.500	U	0.500		ug/L			04/26/21 15:34	1
Vinyl chloride	**0.217**		0.200		ug/L			04/26/21 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*04/26/21 15:34*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*04/26/21 15:34*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*04/26/21 15:34*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*04/26/21 15:34*	*1*

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**29.3**		2.06		ug/L		04/22/21 06:41	04/22/21 15:18	1

Client Sample ID: EL-100-210420
Lab Sample ID: 410-36712-3

Date Collected: 04/20/21 13:27
Matrix: Water
Date Received: 04/21/21 10:54

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**21.5**		0.206		mg/L		04/22/21 07:34	04/23/21 18:37	1
Manganese	**3.71**		0.0103		mg/L		04/22/21 07:34	04/23/21 18:37	1

Client Sample ID: EL-103-210420
Lab Sample ID: 410-36712-4

Date Collected: 04/20/21 13:47
Matrix: Water
Date Received: 04/21/21 10:54

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.500	U	0.500		ug/L			04/26/21 15:56	1
1,1,1-Trichloroethane	0.500	U	0.500		ug/L			04/26/21 15:56	1
1,1,2,2-Tetrachloroethane	0.200	U	0.200		ug/L			04/26/21 15:56	1
1,1,2-Trichloroethane	0.200	U	0.200		ug/L			04/26/21 15:56	1
1,1-Dichloroethane	0.500	U	0.500		ug/L			04/26/21 15:56	1
1,1-Dichloroethene	0.200	U	0.200		ug/L			04/26/21 15:56	1
1,1-Dichloropropene	0.500	U	0.500		ug/L			04/26/21 15:56	1
1,2,3-Trichlorobenzene	0.500	U	0.500		ug/L			04/26/21 15:56	1
1,2,3-Trichloropropane	1.00	U	1.00		ug/L			04/26/21 15:56	1
1,2,4-Trichlorobenzene	0.500	U	0.500		ug/L			04/26/21 15:56	1
1,2,4-Trimethylbenzene	0.500	U	0.500		ug/L			04/26/21 15:56	1
1,2-Dibromo-3-Chloropropane	0.500	U	0.500		ug/L			04/26/21 15:56	1
1,2-Dibromoethane	0.500	U	0.500		ug/L			04/26/21 15:56	1
1,2-Dichlorobenzene	**1.35**		0.500		ug/L			04/26/21 15:56	1
1,2-Dichloroethane	0.200	U	0.200		ug/L			04/26/21 15:56	1
1,2-Dichloropropane	0.500	U	0.500		ug/L			04/26/21 15:56	1
1,3,5-Trimethylbenzene	0.500	U	0.500		ug/L			04/26/21 15:56	1
1,3-Dichlorobenzene	0.500	U	0.500		ug/L			04/26/21 15:56	1
1,3-Dichloropropane	0.500	U	0.500		ug/L			04/26/21 15:56	1
1,4-Dichlorobenzene	**1.73**		0.500		ug/L			04/26/21 15:56	1
2,2-Dichloropropane	0.500	U	0.500		ug/L			04/26/21 15:56	1
2-Butanone	5.00	U	5.00		ug/L			04/26/21 15:56	1
2-Chlorotoluene	0.500	U	0.500		ug/L			04/26/21 15:56	1
2-Hexanone	5.00	U	5.00		ug/L			04/26/21 15:56	1
4-Chlorotoluene	0.500	U	0.500		ug/L			04/26/21 15:56	1
4-Methyl-2-pentanone	5.00	U	5.00		ug/L			04/26/21 15:56	1
Acetone	5.00	U	5.00		ug/L			04/26/21 15:56	1
Acrolein	25.0	U	25.0		ug/L			04/26/21 15:56	1
Acrylonitrile	5.00	U	5.00		ug/L			04/26/21 15:56	1
Benzene	**1.25**		0.200		ug/L			04/26/21 15:56	1
Bromobenzene	0.500	U	0.500		ug/L			04/26/21 15:56	1
Bromochloromethane	0.500	U	0.500		ug/L			04/26/21 15:56	1
Bromodichloromethane	0.500	U	0.500		ug/L			04/26/21 15:56	1
Bromoform	1.00	U	1.00		ug/L			04/26/21 15:56	1
Bromomethane	0.500	U	0.500		ug/L			04/26/21 15:56	1
Carbon disulfide	0.500	U	0.500		ug/L			04/26/21 15:56	1
Carbon tetrachloride	0.200	U	0.200		ug/L			04/26/21 15:56	1
Chlorobenzene	**19.3**		0.500		ug/L			04/26/21 15:56	1
Chloroethane	0.500	U	0.500		ug/L			04/26/21 15:56	1
Chloroform	0.200	U	0.200		ug/L			04/26/21 15:56	1
Chloromethane	0.500	U	0.500		ug/L			04/26/21 15:56	1

Client Sample ID: EL-103-210420

Lab Sample ID: 410-36712-4

Date Collected: 04/20/21 13:47

Matrix: Water

Date Received: 04/21/21 10:54

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.200	U	0.200		ug/L			04/26/21 15:56	1
cis-1,3-Dichloropropene	0.200	U	0.200		ug/L			04/26/21 15:56	1
Dibromochloromethane	0.500	U	0.500		ug/L			04/26/21 15:56	1
Dibromomethane	0.500	U	0.500		ug/L			04/26/21 15:56	1
Ethylbenzene	0.500	U	0.500		ug/L			04/26/21 15:56	1
Freon 113	0.500	U	0.500		ug/L			04/26/21 15:56	1
Hexachlorobutadiene	0.500	U	0.500		ug/L			04/26/21 15:56	1
Isopropylbenzene	**0.579**		0.500		ug/L			04/26/21 15:56	1
m&p-Xylene	0.500	U	0.500		ug/L			04/26/21 15:56	1
Methyl iodide	0.500	U	0.500		ug/L			04/26/21 15:56	1
Methylene Chloride	0.500	U	0.500		ug/L			04/26/21 15:56	1
Naphthalene	0.500	U	0.500		ug/L			04/26/21 15:56	1
n-Butylbenzene	0.500	U	0.500		ug/L			04/26/21 15:56	1
N-Propylbenzene	0.500	U	0.500		ug/L			04/26/21 15:56	1
o-Xylene	0.500	U	0.500		ug/L			04/26/21 15:56	1
p-Isopropyltoluene	0.500	U	0.500		ug/L			04/26/21 15:56	1
sec-Butylbenzene	0.500	U	0.500		ug/L			04/26/21 15:56	1
Styrene	0.500	U	0.500		ug/L			04/26/21 15:56	1
tert-Butylbenzene	0.500	U	0.500		ug/L			04/26/21 15:56	1
Tetrachloroethene	0.200	U	0.200		ug/L			04/26/21 15:56	1
Toluene	0.200	U	0.200		ug/L			04/26/21 15:56	1
trans-1,2-Dichloroethene	0.200	U	0.200		ug/L			04/26/21 15:56	1
trans-1,3-Dichloropropene	0.200	U	0.200		ug/L			04/26/21 15:56	1
trans-1,4-Dichloro-2-butene	5.00	U	5.00		ug/L			04/26/21 15:56	1
Trichloroethene	0.200	U	0.200		ug/L			04/26/21 15:56	1
Trichlorofluoromethane	0.500	U	0.500		ug/L			04/26/21 15:56	1
Vinyl acetate	0.500	U	0.500		ug/L			04/26/21 15:56	1
Vinyl chloride	**0.254**		0.200		ug/L			04/26/21 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*04/26/21 15:56*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*04/26/21 15:56*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/26/21 15:56*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*04/26/21 15:56*	*1*

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**29.1**		2.06		ug/L		04/22/21 06:41	04/22/21 15:32	1

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**21.7**		0.206		mg/L		04/22/21 07:34	04/23/21 18:41	1
Manganese	**3.72**		0.0103		mg/L		04/22/21 07:34	04/23/21 18:41	1

Client Sample ID: FrenchDrain-210420

Lab Sample ID: 410-36712-5

Date Collected: 04/20/21 14:37

Matrix: Water

Date Received: 04/21/21 10:54

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.500	U	0.500		ug/L			04/26/21 16:18	1

Client: The Boeing Company
Project/Site: Boeing: Eastgate Landfill

Job ID: 410-36712-1

Client Sample ID: FrenchDrain-210420
Date Collected: 04/20/21 14:37
Date Received: 04/21/21 10:54

Lab Sample ID: 410-36712-5
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.500	U	0.500		ug/L			04/26/21 16:18	1
1,1,2,2-Tetrachloroethane	0.200	U	0.200		ug/L			04/26/21 16:18	1
1,1,2-Trichloroethane	0.200	U	0.200		ug/L			04/26/21 16:18	1
1,1-Dichloroethane	0.500	U	0.500		ug/L			04/26/21 16:18	1
1,1-Dichloroethene	0.200	U	0.200		ug/L			04/26/21 16:18	1
1,1-Dichloropropene	0.500	U	0.500		ug/L			04/26/21 16:18	1
1,2,3-Trichlorobenzene	0.500	U	0.500		ug/L			04/26/21 16:18	1
1,2,3-Trichloropropane	1.00	U	1.00		ug/L			04/26/21 16:18	1
1,2,4-Trichlorobenzene	0.500	U	0.500		ug/L			04/26/21 16:18	1
1,2,4-Trimethylbenzene	0.500	U	0.500		ug/L			04/26/21 16:18	1
1,2-Dibromo-3-Chloropropane	0.500	U	0.500		ug/L			04/26/21 16:18	1
1,2-Dibromoethane	0.500	U	0.500		ug/L			04/26/21 16:18	1
1,2-Dichlorobenzene	**1.02**		0.500		ug/L			04/26/21 16:18	1
1,2-Dichloroethane	0.200	U	0.200		ug/L			04/26/21 16:18	1
1,2-Dichloropropane	0.500	U	0.500		ug/L			04/26/21 16:18	1
1,3,5-Trimethylbenzene	0.500	U	0.500		ug/L			04/26/21 16:18	1
1,3-Dichlorobenzene	0.500	U	0.500		ug/L			04/26/21 16:18	1
1,3-Dichloropropane	0.500	U	0.500		ug/L			04/26/21 16:18	1
1,4-Dichlorobenzene	**3.58**		0.500		ug/L			04/26/21 16:18	1
2,2-Dichloropropane	0.500	U	0.500		ug/L			04/26/21 16:18	1
2-Butanone	5.00	U	5.00		ug/L			04/26/21 16:18	1
2-Chlorotoluene	0.500	U	0.500		ug/L			04/26/21 16:18	1
2-Hexanone	5.00	U	5.00		ug/L			04/26/21 16:18	1
4-Chlorotoluene	0.500	U	0.500		ug/L			04/26/21 16:18	1
4-Methyl-2-pentanone	5.00	U	5.00		ug/L			04/26/21 16:18	1
Acetone	5.00	U	5.00		ug/L			04/26/21 16:18	1
Acrolein	25.0	U	25.0		ug/L			04/26/21 16:18	1
Acrylonitrile	5.00	U	5.00		ug/L			04/26/21 16:18	1
Benzene	**0.643**		0.200		ug/L			04/26/21 16:18	1
Bromobenzene	0.500	U	0.500		ug/L			04/26/21 16:18	1
Bromochloromethane	0.500	U	0.500		ug/L			04/26/21 16:18	1
Bromodichloromethane	0.500	U	0.500		ug/L			04/26/21 16:18	1
Bromoform	1.00	U	1.00		ug/L			04/26/21 16:18	1
Bromomethane	0.500	U	0.500		ug/L			04/26/21 16:18	1
Carbon disulfide	0.500	U	0.500		ug/L			04/26/21 16:18	1
Carbon tetrachloride	0.200	U	0.200		ug/L			04/26/21 16:18	1
Chlorobenzene	**17.6**		0.500		ug/L			04/26/21 16:18	1
Chloroethane	0.500	U	0.500		ug/L			04/26/21 16:18	1
Chloroform	0.200	U	0.200		ug/L			04/26/21 16:18	1
Chloromethane	0.500	U	0.500		ug/L			04/26/21 16:18	1
cis-1,2-Dichloroethene	0.200	U	0.200		ug/L			04/26/21 16:18	1
cis-1,3-Dichloropropene	0.200	U	0.200		ug/L			04/26/21 16:18	1
Dibromochloromethane	0.500	U	0.500		ug/L			04/26/21 16:18	1
Dibromomethane	0.500	U	0.500		ug/L			04/26/21 16:18	1
Ethylbenzene	0.500	U	0.500		ug/L			04/26/21 16:18	1
Freon 113	0.500	U	0.500		ug/L			04/26/21 16:18	1
Hexachlorobutadiene	0.500	U	0.500		ug/L			04/26/21 16:18	1
Isopropylbenzene	**1.52**		0.500		ug/L			04/26/21 16:18	1
m&p-Xylene	0.500	U	0.500		ug/L			04/26/21 16:18	1

Client Sample ID: FrenchDrain-210420

Lab Sample ID: 410-36712-5

Date Collected: 04/20/21 14:37

Matrix: Water

Date Received: 04/21/21 10:54

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl iodide	0.500	U	0.500		ug/L			04/26/21 16:18	1
Methylene Chloride	0.500	U	0.500		ug/L			04/26/21 16:18	1
Naphthalene	0.500	U	0.500		ug/L			04/26/21 16:18	1
n-Butylbenzene	0.500	U	0.500		ug/L			04/26/21 16:18	1
N-Propylbenzene	**1.24**		0.500		ug/L			04/26/21 16:18	1
o-Xylene	0.500	U	0.500		ug/L			04/26/21 16:18	1
p-Isopropyltoluene	0.500	U	0.500		ug/L			04/26/21 16:18	1
sec-Butylbenzene	**0.843**		0.500		ug/L			04/26/21 16:18	1
Styrene	0.500	U	0.500		ug/L			04/26/21 16:18	1
tert-Butylbenzene	0.500	U	0.500		ug/L			04/26/21 16:18	1
Tetrachloroethene	0.200	U	0.200		ug/L			04/26/21 16:18	1
Toluene	0.200	U	0.200		ug/L			04/26/21 16:18	1
trans-1,2-Dichloroethene	0.200	U	0.200		ug/L			04/26/21 16:18	1
trans-1,3-Dichloropropene	0.200	U	0.200		ug/L			04/26/21 16:18	1
trans-1,4-Dichloro-2-butene	5.00	U	5.00		ug/L			04/26/21 16:18	1
Trichloroethene	0.200	U	0.200		ug/L			04/26/21 16:18	1
Trichlorofluoromethane	0.500	U	0.500		ug/L			04/26/21 16:18	1
Vinyl acetate	0.500	U	0.500		ug/L			04/26/21 16:18	1
Vinyl chloride	0.200	U	0.200		ug/L			04/26/21 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*04/26/21 16:18*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*04/26/21 16:18*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/26/21 16:18*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*04/26/21 16:18*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5.00	U	5.00		mg/L			04/27/21 07:50	5
Chloride	**9.06**		2.00		mg/L			04/27/21 07:50	5

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**56.1**		0.206		mg/L		04/22/21 07:34	04/23/21 18:44	1
Manganese	**0.741**		0.0103		mg/L		04/22/21 07:34	04/23/21 18:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.100	U	0.100		mg/L			04/22/21 04:58	1
Nitrite as N	0.0500	U	0.0500		mg/L			04/22/21 11:07	1
Chemical Oxygen Demand	75.0	U	75.0		mg/L			04/26/21 15:18	1
Ammonia-N	**40.4**		2.40		mg/L			04/30/21 10:38	10
Total Organic Carbon	**11.4**		1.00		mg/L			04/28/21 19:00	1

Client Sample ID: TripBlanks

Lab Sample ID: 410-36712-6

Date Collected: 04/20/21 00:00

Matrix: Water

Date Received: 04/21/21 10:54

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.500	U	0.500		ug/L			04/26/21 13:43	1

Client: The Boeing Company
Project/Site: Boeing: Eastgate Landfill

Job ID: 410-36712-1

Client Sample ID: TripBlanks
Date Collected: 04/20/21 00:00
Date Received: 04/21/21 10:54

Lab Sample ID: 410-36712-6
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.500	U	0.500		ug/L			04/26/21 13:43	1
1,1,2,2-Tetrachloroethane	0.200	U	0.200		ug/L			04/26/21 13:43	1
1,1,2-Trichloroethane	0.200	U	0.200		ug/L			04/26/21 13:43	1
1,1-Dichloroethane	0.500	U	0.500		ug/L			04/26/21 13:43	1
1,1-Dichloroethene	0.200	U	0.200		ug/L			04/26/21 13:43	1
1,1-Dichloropropene	0.500	U	0.500		ug/L			04/26/21 13:43	1
1,2,3-Trichlorobenzene	0.500	U	0.500		ug/L			04/26/21 13:43	1
1,2,3-Trichloropropane	1.00	U	1.00		ug/L			04/26/21 13:43	1
1,2,4-Trichlorobenzene	0.500	U	0.500		ug/L			04/26/21 13:43	1
1,2,4-Trimethylbenzene	0.500	U	0.500		ug/L			04/26/21 13:43	1
1,2-Dibromo-3-Chloropropane	0.500	U	0.500		ug/L			04/26/21 13:43	1
1,2-Dibromoethane	0.500	U	0.500		ug/L			04/26/21 13:43	1
1,2-Dichlorobenzene	0.500	U	0.500		ug/L			04/26/21 13:43	1
1,2-Dichloroethane	0.200	U	0.200		ug/L			04/26/21 13:43	1
1,2-Dichloropropane	0.500	U	0.500		ug/L			04/26/21 13:43	1
1,3,5-Trimethylbenzene	0.500	U	0.500		ug/L			04/26/21 13:43	1
1,3-Dichlorobenzene	0.500	U	0.500		ug/L			04/26/21 13:43	1
1,3-Dichloropropane	0.500	U	0.500		ug/L			04/26/21 13:43	1
1,4-Dichlorobenzene	0.500	U	0.500		ug/L			04/26/21 13:43	1
2,2-Dichloropropane	0.500	U	0.500		ug/L			04/26/21 13:43	1
2-Butanone	5.00	U	5.00		ug/L			04/26/21 13:43	1
2-Chlorotoluene	0.500	U	0.500		ug/L			04/26/21 13:43	1
2-Hexanone	5.00	U	5.00		ug/L			04/26/21 13:43	1
4-Chlorotoluene	0.500	U	0.500		ug/L			04/26/21 13:43	1
4-Methyl-2-pentanone	5.00	U	5.00		ug/L			04/26/21 13:43	1
Acetone	5.00	U	5.00		ug/L			04/26/21 13:43	1
Acrolein	25.0	U	25.0		ug/L			04/26/21 13:43	1
Acrylonitrile	5.00	U	5.00		ug/L			04/26/21 13:43	1
Benzene	0.200	U	0.200		ug/L			04/26/21 13:43	1
Bromobenzene	0.500	U	0.500		ug/L			04/26/21 13:43	1
Bromochloromethane	0.500	U	0.500		ug/L			04/26/21 13:43	1
Bromodichloromethane	0.500	U	0.500		ug/L			04/26/21 13:43	1
Bromoform	1.00	U	1.00		ug/L			04/26/21 13:43	1
Bromomethane	0.500	U	0.500		ug/L			04/26/21 13:43	1
Carbon disulfide	0.500	U	0.500		ug/L			04/26/21 13:43	1
Carbon tetrachloride	0.200	U	0.200		ug/L			04/26/21 13:43	1
Chlorobenzene	0.500	U	0.500		ug/L			04/26/21 13:43	1
Chloroethane	0.500	U	0.500		ug/L			04/26/21 13:43	1
Chloroform	0.200	U	0.200		ug/L			04/26/21 13:43	1
Chloromethane	0.500	U	0.500		ug/L			04/26/21 13:43	1
cis-1,2-Dichloroethene	0.200	U	0.200		ug/L			04/26/21 13:43	1
cis-1,3-Dichloropropene	0.200	U	0.200		ug/L			04/26/21 13:43	1
Dibromochloromethane	0.500	U	0.500		ug/L			04/26/21 13:43	1
Dibromomethane	0.500	U	0.500		ug/L			04/26/21 13:43	1
Ethylbenzene	0.500	U	0.500		ug/L			04/26/21 13:43	1
Freon 113	0.500	U	0.500		ug/L			04/26/21 13:43	1
Hexachlorobutadiene	0.500	U	0.500		ug/L			04/26/21 13:43	1
Isopropylbenzene	0.500	U	0.500		ug/L			04/26/21 13:43	1
m&p-Xylene	0.500	U	0.500		ug/L			04/26/21 13:43	1

Client: The Boeing Company
Job ID: 410-36712-1
Project/Site: Boeing: Eastgate Landfill

Client Sample ID: TripBlanks
Lab Sample ID: 410-36712-6
Date Collected: 04/20/21 00:00
Matrix: Water
Date Received: 04/21/21 10:54

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl iodide	0.500	U	0.500		ug/L			04/26/21 13:43	1
Methylene Chloride	0.500	U	0.500		ug/L			04/26/21 13:43	1
Naphthalene	0.500	U	0.500		ug/L			04/26/21 13:43	1
n-Butylbenzene	0.500	U	0.500		ug/L			04/26/21 13:43	1
N-Propylbenzene	0.500	U	0.500		ug/L			04/26/21 13:43	1
o-Xylene	0.500	U	0.500		ug/L			04/26/21 13:43	1
p-Isopropyltoluene	0.500	U	0.500		ug/L			04/26/21 13:43	1
sec-Butylbenzene	0.500	U	0.500		ug/L			04/26/21 13:43	1
Styrene	0.500	U	0.500		ug/L			04/26/21 13:43	1
tert-Butylbenzene	0.500	U	0.500		ug/L			04/26/21 13:43	1
Tetrachloroethene	0.200	U	0.200		ug/L			04/26/21 13:43	1
Toluene	0.200	U	0.200		ug/L			04/26/21 13:43	1
trans-1,2-Dichloroethene	0.200	U	0.200		ug/L			04/26/21 13:43	1
trans-1,3-Dichloropropene	0.200	U	0.200		ug/L			04/26/21 13:43	1
trans-1,4-Dichloro-2-butene	5.00	U	5.00		ug/L			04/26/21 13:43	1
Trichloroethene	0.200	U	0.200		ug/L			04/26/21 13:43	1
Trichlorofluoromethane	0.500	U	0.500		ug/L			04/26/21 13:43	1
Vinyl acetate	0.500	U	0.500		ug/L			04/26/21 13:43	1
Vinyl chloride	0.200	U	0.200		ug/L			04/26/21 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*04/26/21 13:43*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*04/26/21 13:43*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*04/26/21 13:43*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*04/26/21 13:43*	*1*

Surrogate Summary

Client: The Boeing Company
Job ID: 410-36712-1
Project/Site: Boeing: Eastgate Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-36712-3	EL-100-210420	93	98	89	93
410-36712-4	EL-103-210420	97	99	90	92
410-36712-5	FrenchDrain-210420	92	99	90	92
410-36712-6	TripBlanks	98	101	89	93
LCS 410-118816/4	Lab Control Sample	94	100	89	94
LCS 410-118816/7	Lab Control Sample	96	100	90	93
LCSD 410-118816/5	Lab Control Sample Dup	95	99	90	94
LCSD 410-118816/8	Lab Control Sample Dup	96	99	90	93
MB 410-118816/11	Method Blank	97	100	89	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-118816/11
Matrix: Water
Analysis Batch: 118816

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.500	U	0.500		ug/L			04/26/21 13:21	1
1,1,1-Trichloroethane	0.500	U	0.500		ug/L			04/26/21 13:21	1
1,1,2,2-Tetrachloroethane	0.200	U	0.200		ug/L			04/26/21 13:21	1
1,1,2-Trichloroethane	0.200	U	0.200		ug/L			04/26/21 13:21	1
1,1-Dichloroethane	0.500	U	0.500		ug/L			04/26/21 13:21	1
1,1-Dichloroethene	0.200	U	0.200		ug/L			04/26/21 13:21	1
1,1-Dichloropropene	0.500	U	0.500		ug/L			04/26/21 13:21	1
1,2,3-Trichlorobenzene	0.500	U	0.500		ug/L			04/26/21 13:21	1
1,2,3-Trichloropropane	1.00	U	1.00		ug/L			04/26/21 13:21	1
1,2,4-Trichlorobenzene	0.500	U	0.500		ug/L			04/26/21 13:21	1
1,2,4-Trimethylbenzene	0.500	U	0.500		ug/L			04/26/21 13:21	1
1,2-Dibromo-3-Chloropropane	0.500	U	0.500		ug/L			04/26/21 13:21	1
1,2-Dibromoethane	0.500	U	0.500		ug/L			04/26/21 13:21	1
1,2-Dichlorobenzene	0.500	U	0.500		ug/L			04/26/21 13:21	1
1,2-Dichloroethane	0.200	U	0.200		ug/L			04/26/21 13:21	1
1,2-Dichloropropane	0.500	U	0.500		ug/L			04/26/21 13:21	1
1,3,5-Trimethylbenzene	0.500	U	0.500		ug/L			04/26/21 13:21	1
1,3-Dichlorobenzene	0.500	U	0.500		ug/L			04/26/21 13:21	1
1,3-Dichloropropane	0.500	U	0.500		ug/L			04/26/21 13:21	1
1,4-Dichlorobenzene	0.500	U	0.500		ug/L			04/26/21 13:21	1
2,2-Dichloropropane	0.500	U	0.500		ug/L			04/26/21 13:21	1
2-Butanone	5.00	U	5.00		ug/L			04/26/21 13:21	1
2-Chlorotoluene	0.500	U	0.500		ug/L			04/26/21 13:21	1
2-Hexanone	5.00	U	5.00		ug/L			04/26/21 13:21	1
4-Chlorotoluene	0.500	U	0.500		ug/L			04/26/21 13:21	1
4-Methyl-2-pentanone	5.00	U	5.00		ug/L			04/26/21 13:21	1
Acetone	5.00	U	5.00		ug/L			04/26/21 13:21	1
Acrolein	25.0	U	25.0		ug/L			04/26/21 13:21	1
Acrylonitrile	5.00	U	5.00		ug/L			04/26/21 13:21	1
Benzene	0.200	U	0.200		ug/L			04/26/21 13:21	1
Bromobenzene	0.500	U	0.500		ug/L			04/26/21 13:21	1
Bromochloromethane	0.500	U	0.500		ug/L			04/26/21 13:21	1
Bromodichloromethane	0.500	U	0.500		ug/L			04/26/21 13:21	1
Bromoform	1.00	U	1.00		ug/L			04/26/21 13:21	1
Bromomethane	0.500	U	0.500		ug/L			04/26/21 13:21	1
Carbon disulfide	0.500	U	0.500		ug/L			04/26/21 13:21	1
Carbon tetrachloride	0.200	U	0.200		ug/L			04/26/21 13:21	1
Chlorobenzene	0.500	U	0.500		ug/L			04/26/21 13:21	1
Chloroethane	0.500	U	0.500		ug/L			04/26/21 13:21	1
Chloroform	0.200	U	0.200		ug/L			04/26/21 13:21	1
Chloromethane	0.500	U	0.500		ug/L			04/26/21 13:21	1
cis-1,2-Dichloroethene	0.200	U	0.200		ug/L			04/26/21 13:21	1
cis-1,3-Dichloropropene	0.200	U	0.200		ug/L			04/26/21 13:21	1
Dibromochloromethane	0.500	U	0.500		ug/L			04/26/21 13:21	1
Dibromomethane	0.500	U	0.500		ug/L			04/26/21 13:21	1
Ethylbenzene	0.500	U	0.500		ug/L			04/26/21 13:21	1
Freon 113	0.500	U	0.500		ug/L			04/26/21 13:21	1
Hexachlorobutadiene	0.500	U	0.500		ug/L			04/26/21 13:21	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-118816/11
Matrix: Water
Analysis Batch: 118816

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	0.500	U	0.500		ug/L			04/26/21 13:21	1
m&p-Xylene	0.500	U	0.500		ug/L			04/26/21 13:21	1
Methyl iodide	0.500	U	0.500		ug/L			04/26/21 13:21	1
Methylene Chloride	0.500	U	0.500		ug/L			04/26/21 13:21	1
Naphthalene	0.500	U	0.500		ug/L			04/26/21 13:21	1
n-Butylbenzene	0.500	U	0.500		ug/L			04/26/21 13:21	1
N-Propylbenzene	0.500	U	0.500		ug/L			04/26/21 13:21	1
o-Xylene	0.500	U	0.500		ug/L			04/26/21 13:21	1
p-Isopropyltoluene	0.500	U	0.500		ug/L			04/26/21 13:21	1
sec-Butylbenzene	0.500	U	0.500		ug/L			04/26/21 13:21	1
Styrene	0.500	U	0.500		ug/L			04/26/21 13:21	1
tert-Butylbenzene	0.500	U	0.500		ug/L			04/26/21 13:21	1
Tetrachloroethene	0.200	U	0.200		ug/L			04/26/21 13:21	1
Toluene	0.200	U	0.200		ug/L			04/26/21 13:21	1
trans-1,2-Dichloroethene	0.200	U	0.200		ug/L			04/26/21 13:21	1
trans-1,3-Dichloropropene	0.200	U	0.200		ug/L			04/26/21 13:21	1
trans-1,4-Dichloro-2-butene	5.00	U	5.00		ug/L			04/26/21 13:21	1
Trichloroethene	0.200	U	0.200		ug/L			04/26/21 13:21	1
Trichlorofluoromethane	0.500	U	0.500		ug/L			04/26/21 13:21	1
Vinyl acetate	0.500	U	0.500		ug/L			04/26/21 13:21	1
Vinyl chloride	0.200	U	0.200		ug/L			04/26/21 13:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*04/26/21 13:21*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*04/26/21 13:21*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*04/26/21 13:21*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*04/26/21 13:21*	*1*

Lab Sample ID: LCS 410-118816/4
Matrix: Water
Analysis Batch: 118816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	4.673		ug/L		93	71 - 134
1,1,1-Trichloroethane	5.00	4.230		ug/L		85	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.357		ug/L		87	75 - 123
1,1,2-Trichloroethane	5.00	4.693		ug/L		94	80 - 120
1,1-Dichloroethane	5.00	4.019		ug/L		80	74 - 120
1,1-Dichloroethene	5.00	4.501		ug/L		90	80 - 131
1,1-Dichloropropene	5.00	3.982		ug/L		80	74 - 120
1,2,3-Trichlorobenzene	5.00	4.895		ug/L		98	68 - 125
1,2,3-Trichloropropane	5.00	4.531		ug/L		91	80 - 125
1,2,4-Trichlorobenzene	5.00	4.729		ug/L		95	68 - 122
1,2,4-Trimethylbenzene	5.00	4.185		ug/L		84	80 - 120
1,2-Dibromo-3-Chloropropane	5.00	4.367		ug/L		87	56 - 148
1,2-Dibromoethane	5.00	4.600		ug/L		92	80 - 120
1,2-Dichlorobenzene	5.00	4.702		ug/L		94	80 - 120
1,2-Dichloroethane	5.00	4.108		ug/L		82	69 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-118816/4
Matrix: Water
Analysis Batch: 118816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	5.00	4.120		ug/L		82	80 - 120
1,3,5-Trimethylbenzene	5.00	4.148		ug/L		83	80 - 120
1,3-Dichlorobenzene	5.00	4.598		ug/L		92	80 - 120
1,3-Dichloropropane	5.00	4.235		ug/L		85	80 - 120
1,4-Dichlorobenzene	5.00	4.627		ug/L		93	80 - 120
2,2-Dichloropropane	5.00	3.732		ug/L		75	61 - 141
2-Butanone	37.5	35.84		ug/L		96	59 - 141
2-Chlorotoluene	5.00	4.409		ug/L		88	80 - 120
2-Hexanone	25.0	24.90		ug/L		100	52 - 140
4-Chlorotoluene	5.00	4.516		ug/L		90	80 - 120
4-Methyl-2-pentanone	25.0	23.27		ug/L		93	55 - 140
Acetone	37.5	33.80		ug/L		90	60 - 146
Acrolein	37.5	34.09		ug/L		91	45 - 140
Acrylonitrile	25.0	26.05		ug/L		104	64 - 139
Benzene	5.00	4.274		ug/L		85	80 - 120
Bromobenzene	5.00	4.676		ug/L		94	80 - 120
Bromochloromethane	5.00	4.819		ug/L		96	80 - 120
Bromodichloromethane	5.00	4.433		ug/L		89	73 - 124
Bromoform	5.00	4.731		ug/L		95	49 - 144
Bromomethane	5.00	4.687		ug/L		94	60 - 136
Carbon disulfide	5.00	4.264		ug/L		85	67 - 130
Carbon tetrachloride	5.00	4.189		ug/L		84	64 - 141
Chlorobenzene	5.00	4.568		ug/L		91	80 - 120
Chloroethane	5.00	4.109		ug/L		82	63 - 120
Chloroform	5.00	4.423		ug/L		88	80 - 120
Chloromethane	5.00	4.058		ug/L		81	56 - 124
cis-1,2-Dichloroethene	5.00	4.569		ug/L		91	80 - 122
cis-1,3-Dichloropropene	5.00	3.994		ug/L		80	67 - 121
Dibromochloromethane	5.00	4.537		ug/L		91	64 - 138
Dibromomethane	5.00	4.743		ug/L		95	80 - 122
Ethylbenzene	5.00	4.206		ug/L		84	80 - 120
Freon 113	5.00	4.919		ug/L		98	75 - 133
Hexachlorobutadiene	5.00	4.587		ug/L		92	72 - 132
Isopropylbenzene	5.00	4.091		ug/L		82	80 - 120
m&p-Xylene	10.0	8.693		ug/L		87	80 - 120
Methyl iodide	5.00	5.047		ug/L		101	77 - 120
Methylene Chloride	5.00	4.639		ug/L		93	80 - 120
Naphthalene	5.00	4.439		ug/L		89	64 - 122
n-Butylbenzene	5.00	4.007		ug/L		80	74 - 123
N-Propylbenzene	5.00	4.039		ug/L		81	74 - 122
o-Xylene	5.00	4.385		ug/L		88	80 - 120
p-Isopropyltoluene	5.00	4.175		ug/L		83	80 - 120
sec-Butylbenzene	5.00	4.079		ug/L		82	80 - 120
Styrene	5.00	4.435		ug/L		89	80 - 120
tert-Butylbenzene	5.00	4.157		ug/L		83	79 - 120
Tetrachloroethene	5.00	4.647		ug/L		93	80 - 120
Toluene	5.00	4.283		ug/L		86	80 - 120
trans-1,2-Dichloroethene	5.00	4.369		ug/L		87	80 - 122
trans-1,3-Dichloropropene	5.00	4.007		ug/L		80	61 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-118816/4
Matrix: Water
Analysis Batch: 118816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
trans-1,4-Dichloro-2-butene			25.0	15.31		ug/L		61	10 - 172		
Trichloroethene			5.00	4.384		ug/L		88	80 - 120		
Trichlorofluoromethane			5.00	4.624		ug/L		92	62 - 136		
Vinyl chloride			5.00	4.329		ug/L		87	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: LCS 410-118816/7
Matrix: Water
Analysis Batch: 118816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Vinyl acetate			12.5	8.591		ug/L		69	38 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: LCSD 410-118816/5
Matrix: Water
Analysis Batch: 118816

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			5.00	4.620		ug/L		92	71 - 134	1	30
1,1,1-Trichloroethane			5.00	4.165		ug/L		83	78 - 126	2	30
1,1,2,2-Tetrachloroethane			5.00	4.406		ug/L		88	75 - 123	1	30
1,1,2-Trichloroethane			5.00	4.647		ug/L		93	80 - 120	1	30
1,1-Dichloroethane			5.00	3.983		ug/L		80	74 - 120	1	30
1,1-Dichloroethene			5.00	4.430		ug/L		89	80 - 131	2	30
1,1-Dichloropropene			5.00	3.920		ug/L		78	74 - 120	2	30
1,2,3-Trichlorobenzene			5.00	4.853		ug/L		97	68 - 125	1	30
1,2,3-Trichloropropane			5.00	4.609		ug/L		92	80 - 125	2	30
1,2,4-Trichlorobenzene			5.00	4.728		ug/L		95	68 - 122	0	30
1,2,4-Trimethylbenzene			5.00	4.164		ug/L		83	80 - 120	0	30
1,2-Dibromo-3-Chloropropane			5.00	4.636		ug/L		93	56 - 148	6	30
1,2-Dibromoethane			5.00	4.589		ug/L		92	80 - 120	0	30
1,2-Dichlorobenzene			5.00	4.694		ug/L		94	80 - 120	0	30
1,2-Dichloroethane			5.00	4.077		ug/L		82	69 - 122	1	30
1,2-Dichloropropane			5.00	4.123		ug/L		82	80 - 120	0	30
1,3,5-Trimethylbenzene			5.00	4.156		ug/L		83	80 - 120	0	30
1,3-Dichlorobenzene			5.00	4.573		ug/L		91	80 - 120	1	30
1,3-Dichloropropane			5.00	4.292		ug/L		86	80 - 120	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-118816/5
Matrix: Water
Analysis Batch: 118816

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	5.00	4.602		ug/L		92	80 - 120	1	30
2,2-Dichloropropane	5.00	3.677		ug/L		74	61 - 141	1	30
2-Butanone	37.5	34.45		ug/L		92	59 - 141	4	30
2-Chlorotoluene	5.00	4.504		ug/L		90	80 - 120	2	30
2-Hexanone	25.0	23.57		ug/L		94	52 - 140	5	30
4-Chlorotoluene	5.00	4.469		ug/L		89	80 - 120	1	30
4-Methyl-2-pentanone	25.0	22.67		ug/L		91	55 - 140	3	30
Acetone	37.5	32.78		ug/L		87	60 - 146	3	30
Acrolein	37.5	32.50		ug/L		87	45 - 140	5	30
Acrylonitrile	25.0	25.52		ug/L		102	64 - 139	2	30
Benzene	5.00	4.260		ug/L		85	80 - 120	0	30
Bromobenzene	5.00	4.757		ug/L		95	80 - 120	2	30
Bromochloromethane	5.00	4.841		ug/L		97	80 - 120	0	30
Bromodichloromethane	5.00	4.411		ug/L		88	73 - 124	0	30
Bromoform	5.00	4.642		ug/L		93	49 - 144	2	30
Bromomethane	5.00	4.642		ug/L		93	60 - 136	1	30
Carbon disulfide	5.00	4.193		ug/L		84	67 - 130	2	30
Carbon tetrachloride	5.00	4.180		ug/L		84	64 - 141	0	30
Chlorobenzene	5.00	4.499		ug/L		90	80 - 120	2	30
Chloroethane	5.00	3.987		ug/L		80	63 - 120	3	30
Chloroform	5.00	4.364		ug/L		87	80 - 120	1	30
Chloromethane	5.00	4.157		ug/L		83	56 - 124	2	30
cis-1,2-Dichloroethene	5.00	4.529		ug/L		91	80 - 122	1	30
cis-1,3-Dichloropropene	5.00	3.943		ug/L		79	67 - 121	1	30
Dibromochloromethane	5.00	4.493		ug/L		90	64 - 138	1	30
Dibromomethane	5.00	4.717		ug/L		94	80 - 122	1	30
Ethylbenzene	5.00	4.206		ug/L		84	80 - 120	0	30
Freon 113	5.00	4.885		ug/L		98	75 - 133	1	30
Hexachlorobutadiene	5.00	4.527		ug/L		91	72 - 132	1	30
Isopropylbenzene	5.00	4.079		ug/L		82	80 - 120	0	30
m&p-Xylene	10.0	8.647		ug/L		86	80 - 120	1	30
Methyl iodide	5.00	4.970		ug/L		99	77 - 120	2	30
Methylene Chloride	5.00	4.668		ug/L		93	80 - 120	1	30
Naphthalene	5.00	4.546		ug/L		91	64 - 122	2	30
n-Butylbenzene	5.00	3.967		ug/L		79	74 - 123	1	30
N-Propylbenzene	5.00	4.055		ug/L		81	74 - 122	0	30
o-Xylene	5.00	4.372		ug/L		87	80 - 120	0	30
p-Isopropyltoluene	5.00	4.196		ug/L		84	80 - 120	1	30
sec-Butylbenzene	5.00	4.094		ug/L		82	80 - 120	0	30
Styrene	5.00	4.446		ug/L		89	80 - 120	0	30
tert-Butylbenzene	5.00	4.321		ug/L		86	79 - 120	4	30
Tetrachloroethene	5.00	4.580		ug/L		92	80 - 120	1	30
Toluene	5.00	4.286		ug/L		86	80 - 120	0	30
trans-1,2-Dichloroethene	5.00	4.373		ug/L		87	80 - 122	0	30
trans-1,3-Dichloropropene	5.00	4.082		ug/L		82	61 - 129	2	30
trans-1,4-Dichloro-2-butene	25.0	13.96		ug/L		56	10 - 172	9	30
Trichloroethene	5.00	4.384		ug/L		88	80 - 120	0	30
Trichlorofluoromethane	5.00	4.575		ug/L		91	62 - 136	1	30
Vinyl chloride	5.00	4.239		ug/L		85	60 - 125	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	90		80 - 120
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: LCSD 410-118816/8
Matrix: Water
Analysis Batch: 118816

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate			12.5	8.289		ug/L		66	38 - 145	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	90		80 - 120
Toluene-d8 (Surr)	93		80 - 120

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-119389/4
Matrix: Water
Analysis Batch: 119389

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.00	U	1.00		mg/L			04/27/21 07:34	1
Chloride	0.400	U	0.400		mg/L			04/27/21 07:34	1

Lab Sample ID: LCS 410-119389/3
Matrix: Water
Analysis Batch: 119389

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			7.50	7.791		mg/L		104	90 - 110		
Chloride			3.00	3.116		mg/L		104	90 - 110		

Lab Sample ID: 410-36712-5 MS
Matrix: Water
Analysis Batch: 119389

Client Sample ID: FrenchDrain-210420
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	5.00	U	25.0	30.59		mg/L		105	90 - 110		
Chloride	9.06		10.0	19.88		mg/L		108	90 - 110		

Lab Sample ID: 410-36712-5 DU
Matrix: Water
Analysis Batch: 119389

Client Sample ID: FrenchDrain-210420
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfate	5.00	U		5.00	U	mg/L				5	15
Chloride	9.06			9.636		mg/L				6	15

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-117668/1-A
Matrix: Water
Analysis Batch: 118009

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117668

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.06	U	2.06		ug/L		04/22/21 06:41	04/22/21 14:30	1

Lab Sample ID: LCS 410-117668/2-A
Matrix: Water
Analysis Batch: 118009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117668

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	60.0	62.92		ug/L		105	85 - 115

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-117716/1-A
Matrix: Water
Analysis Batch: 118688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.206	U	0.206		mg/L		04/22/21 07:34	04/23/21 17:41	1
Manganese	0.0103	U	0.0103		mg/L		04/22/21 07:34	04/23/21 17:41	1

Lab Sample ID: LCS 410-117716/2-A
Matrix: Water
Analysis Batch: 118688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.400	0.3708		mg/L		93	80 - 120
Manganese	0.0200	0.02226		mg/L		111	80 - 120

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 410-117909/17
Matrix: Water
Analysis Batch: 117909

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0500	U	0.0500		mg/L			04/22/21 11:01	1

Lab Sample ID: LCS 410-117909/16
Matrix: Water
Analysis Batch: 117909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.699	0.6970		mg/L		100	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 410-119316/4
Matrix: Water
Analysis Batch: 119316

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	75.0	U	75.0		mg/L			04/26/21 15:10	1

Method: 410.4 - COD

Lab Sample ID: LCS 410-119316/5
Matrix: Water
Analysis Batch: 119316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			500	490.8		mg/L		98	94 - 110		

Lab Sample ID: LCSD 410-119316/6
Matrix: Water
Analysis Batch: 119316

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand			500	490.0		mg/L		98	94 - 110	0	5

Method: 4500 NH3 D-2011 - Ammonia

Lab Sample ID: MB 410-121082/3
Matrix: Water
Analysis Batch: 121082

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia-N	0.240	U	0.240		mg/L			04/30/21 10:28	1

Lab Sample ID: LCS 410-121082/4
Matrix: Water
Analysis Batch: 121082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia-N			5.00	5.270		mg/L		105	82 - 124		

Lab Sample ID: 410-36712-5 MS
Matrix: Water
Analysis Batch: 121082

Client Sample ID: FrenchDrain-210420
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia-N	40.4		50.0	99.60		mg/L		118	82 - 124		

Lab Sample ID: 410-36712-5 MSD
Matrix: Water
Analysis Batch: 121082

Client Sample ID: FrenchDrain-210420
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia-N	40.4		50.0	95.60		mg/L		110	82 - 124	4	15

Lab Sample ID: 410-36712-5 DU
Matrix: Water
Analysis Batch: 121082

Client Sample ID: FrenchDrain-210420
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia-N	40.4		37.20		mg/L		8	11

Client: The Boeing Company
Job ID: 410-36712-1
Project/Site: Boeing: Eastgate Landfill

Method: 5310C-2011 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 410-120677/5
Matrix: Water
Analysis Batch: 120677

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.00	U	1.00		mg/L			04/28/21 15:29	1

Lab Sample ID: LCS 410-120677/4
Matrix: Water
Analysis Batch: 120677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	25.0	23.43		mg/L		94	91 - 113

GC/MS VOA

Analysis Batch: 118816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36712-3	EL-100-210420	Total/NA	Water	8260D	
410-36712-4	EL-103-210420	Total/NA	Water	8260D	
410-36712-5	FrenchDrain-210420	Total/NA	Water	8260D	
410-36712-6	TripBlanks	Total/NA	Water	8260D	
MB 410-118816/11	Method Blank	Total/NA	Water	8260D	
LCS 410-118816/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 410-118816/7	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-118816/5	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 410-118816/8	Lab Control Sample Dup	Total/NA	Water	8260D	

HPLC/IC

Analysis Batch: 119389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36712-5	FrenchDrain-210420	Total/NA	Water	EPA 300.0 R2.1	
MB 410-119389/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-119389/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
410-36712-5 MS	FrenchDrain-210420	Total/NA	Water	EPA 300.0 R2.1	
410-36712-5 DU	FrenchDrain-210420	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 117668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36712-2	EL-105-210420	Dissolved	Water	Non-Digest Prep	
410-36712-3	EL-100-210420	Dissolved	Water	Non-Digest Prep	
410-36712-4	EL-103-210420	Dissolved	Water	Non-Digest Prep	
MB 410-117668/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-117668/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 117716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36712-1	EL-106R-210420	Dissolved	Water	Non-Digest Prep	
410-36712-2	EL-105-210420	Dissolved	Water	Non-Digest Prep	
410-36712-3	EL-100-210420	Dissolved	Water	Non-Digest Prep	
410-36712-4	EL-103-210420	Dissolved	Water	Non-Digest Prep	
410-36712-5	FrenchDrain-210420	Dissolved	Water	Non-Digest Prep	
MB 410-117716/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-117716/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 118009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36712-2	EL-105-210420	Dissolved	Water	200.8 Rev 5.4	117668
410-36712-3	EL-100-210420	Dissolved	Water	200.8 Rev 5.4	117668
410-36712-4	EL-103-210420	Dissolved	Water	200.8 Rev 5.4	117668
MB 410-117668/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	117668
LCS 410-117668/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	117668

Analysis Batch: 118688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36712-1	EL-106R-210420	Dissolved	Water	6010D	117716
410-36712-2	EL-105-210420	Dissolved	Water	6010D	117716

Metals (Continued)

Analysis Batch: 118688 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36712-3	EL-100-210420	Dissolved	Water	6010D	117716
410-36712-4	EL-103-210420	Dissolved	Water	6010D	117716
410-36712-5	FrenchDrain-210420	Dissolved	Water	6010D	117716
MB 410-117716/1-A	Method Blank	Total/NA	Water	6010D	117716
LCS 410-117716/2-A	Lab Control Sample	Total/NA	Water	6010D	117716

General Chemistry

Analysis Batch: 116384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36712-5	FrenchDrain-210420	Total/NA	Water	353.2	

Analysis Batch: 117909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36712-5	FrenchDrain-210420	Total/NA	Water	353.2	
MB 410-117909/17	Method Blank	Total/NA	Water	353.2	
LCS 410-117909/16	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 119316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36712-5	FrenchDrain-210420	Total/NA	Water	410.4	
MB 410-119316/4	Method Blank	Total/NA	Water	410.4	
LCS 410-119316/5	Lab Control Sample	Total/NA	Water	410.4	
LCSD 410-119316/6	Lab Control Sample Dup	Total/NA	Water	410.4	

Analysis Batch: 120677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36712-5	FrenchDrain-210420	Total/NA	Water	5310C-2011	
MB 410-120677/5	Method Blank	Total/NA	Water	5310C-2011	
LCS 410-120677/4	Lab Control Sample	Total/NA	Water	5310C-2011	

Analysis Batch: 121082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36712-5	FrenchDrain-210420	Total/NA	Water	4500 NH3 D-2011	
MB 410-121082/3	Method Blank	Total/NA	Water	4500 NH3 D-2011	
LCS 410-121082/4	Lab Control Sample	Total/NA	Water	4500 NH3 D-2011	
410-36712-5 MS	FrenchDrain-210420	Total/NA	Water	4500 NH3 D-2011	
410-36712-5 MSD	FrenchDrain-210420	Total/NA	Water	4500 NH3 D-2011	
410-36712-5 DU	FrenchDrain-210420	Total/NA	Water	4500 NH3 D-2011	

Lab Chronicle

Client: The Boeing Company
Job ID: 410-36712-1
Project/Site: Boeing: Eastgate Landfill

Client Sample ID: EL-106R-210420
Lab Sample ID: 410-36712-1
Date Collected: 04/20/21 10:55
Matrix: Water
Date Received: 04/21/21 10:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			117716	04/22/21 07:34	UJL8	ELLE
Dissolved	Analysis	6010D		1	118688	04/23/21 18:31	MDP5	ELLE

Client Sample ID: EL-105-210420
Lab Sample ID: 410-36712-2
Date Collected: 04/20/21 13:10
Matrix: Water
Date Received: 04/21/21 10:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			117668	04/22/21 06:41	UJL8	ELLE
Dissolved	Analysis	200.8 Rev 5.4		1	118009	04/22/21 15:34	S4PD	ELLE
Dissolved	Prep	Non-Digest Prep			117716	04/22/21 07:34	UJL8	ELLE
Dissolved	Analysis	6010D		1	118688	04/23/21 18:34	MDP5	ELLE

Client Sample ID: EL-100-210420
Lab Sample ID: 410-36712-3
Date Collected: 04/20/21 13:27
Matrix: Water
Date Received: 04/21/21 10:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	118816	04/26/21 15:34	LCW8	ELLE
Dissolved	Prep	Non-Digest Prep			117668	04/22/21 06:41	UJL8	ELLE
Dissolved	Analysis	200.8 Rev 5.4		1	118009	04/22/21 15:18	S4PD	ELLE
Dissolved	Prep	Non-Digest Prep			117716	04/22/21 07:34	UJL8	ELLE
Dissolved	Analysis	6010D		1	118688	04/23/21 18:37	MDP5	ELLE

Client Sample ID: EL-103-210420
Lab Sample ID: 410-36712-4
Date Collected: 04/20/21 13:47
Matrix: Water
Date Received: 04/21/21 10:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	118816	04/26/21 15:56	LCW8	ELLE
Dissolved	Prep	Non-Digest Prep			117668	04/22/21 06:41	UJL8	ELLE
Dissolved	Analysis	200.8 Rev 5.4		1	118009	04/22/21 15:32	S4PD	ELLE
Dissolved	Prep	Non-Digest Prep			117716	04/22/21 07:34	UJL8	ELLE
Dissolved	Analysis	6010D		1	118688	04/23/21 18:41	MDP5	ELLE

Client Sample ID: FrenchDrain-210420
Lab Sample ID: 410-36712-5
Date Collected: 04/20/21 14:37
Matrix: Water
Date Received: 04/21/21 10:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	118816	04/26/21 16:18	LCW8	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	119389	04/27/21 07:50	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			117716	04/22/21 07:34	UJL8	ELLE
Dissolved	Analysis	6010D		1	118688	04/23/21 18:44	MDP5	ELLE
Total/NA	Analysis	353.2		1	117909	04/22/21 11:07	MFV9	ELLE

Lab Chronicle

Client: The Boeing Company
Job ID: 410-36712-1
Project/Site: Boeing: Eastgate Landfill

Client Sample ID: FrenchDrain-210420
Lab Sample ID: 410-36712-5

Date Collected: 04/20/21 14:37
Matrix: Water
Date Received: 04/21/21 10:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	116384	04/22/21 04:58	UJE2	ELLE
Total/NA	Analysis	410.4		1	119316	04/26/21 15:18	USAE	ELLE
Total/NA	Analysis	4500 NH3 D-2011		10	121082	04/30/21 10:38	UML5	ELLE
Total/NA	Analysis	5310C-2011		1	120677	04/28/21 19:00	KGQ6	ELLE

Client Sample ID: TripBlanks
Lab Sample ID: 410-36712-6

Date Collected: 04/20/21 00:00
Matrix: Water
Date Received: 04/21/21 10:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	118816	04/26/21 13:43	LCW8	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: The Boeing Company
Job ID: 410-36712-1
Project/Site: Boeing: Eastgate Landfill

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C457	04-12-22

Method Summary

Client: The Boeing Company
Job ID: 410-36712-1
Project/Site: Boeing: Eastgate Landfill

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
353.2	Nitrogen, Nitrite	MCAWW	ELLE
410.4	COD	MCAWW	ELLE
4500 NH3 D-2011	Ammonia	SM	ELLE
5310C-2011	Total Organic Carbon/Persulfate - Ultrav	SM	ELLE
5030C	Purge and Trap	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: The Boeing Company
Job ID: 410-36712-1
Project/Site: Boeing: Eastgate Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-36712-1	EL-106R-210420	Water	04/20/21 10:55	04/21/21 10:54	
410-36712-2	EL-105-210420	Water	04/20/21 13:10	04/21/21 10:54	
410-36712-3	EL-100-210420	Water	04/20/21 13:27	04/21/21 10:54	
410-36712-4	EL-103-210420	Water	04/20/21 13:47	04/21/21 10:54	
410-36712-5	FrenchDrain-210420	Water	04/20/21 14:37	04/21/21 10:54	
410-36712-6	TripBlanks	Water	04/20/21 00:00	04/21/21 10:54	

Boeing Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # _____

410-36712 Chain of Custody

nmental use only

rrespond.

1 Client Information

Site Location: Eastgate Landfill / Bellevue, WA
Site Project: Boeing Regional GW - Eastgate Landfill April 2021
Site Program/#: 025217.094.049
Boeing PM: Jen Parsons
Consultant Contact: Chris Kimmel
Report To: J. Parsons AC. Kimmel
Invoice To: [X] Boeing EHS [ ] Other (specify): _____
Sampler: DSB # of Coolers: _____

4 Analyses Requested

2 Sample Identification	Collected Date	Collected Time	3 Matrix	No. of Containers	VOCs (8260) Boeing 69	Diss. Metals (As By 200.8)	Diss Metals (Fe, Mn By 6010B)	Chloride/Sulfate (300.0)	Nitrate, Nitrite N+N Nitrogen (353.2)	N-Ammonia (SM-4500-NH3-1997)	COD (410.4)	TOC (SM5310C-2000)	5 Remarks/Comments
EL-106R-210420	4/20/21	1055	AQ	1			X						81614708B342
EL-105-210420	4/20/21	1310	AQ	1		X	X						
EL-100-210420	4/20/21	1327	AQ	4	X	X	X						
EL-103-210420	4/20/21	1347	AQ	4	X	X	X						
FrenchDrain-210420	4/20/21	1437	AQ	11	X		X	X	X	X	X	X	
TripBlanks	—	—	AQ	1	X								

6 Turnaround Time Requested (please circle)

Standard | 5 day | 4 day
72 hour | 48 hour | 24 hour

Date needed: _____

Relinquished by:	Date/Time	Received by:	Date/Time
[signature]	4/20/21 1500		
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by: [signature]	4/21/21 1054

Relinquished by commercial carrier (circle): UPS FedEx Other: _____

Temperature upon Receipt: 0.6 °C

Custody Seals Intact?: Yes No

7

Eurofins Lancaster Laboratories Environmental, LLC, 2425 New Holland Pike, Lancaster, PA 17601 717-656-2300

7063 0913

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be given to the SeaTac Courier. The pink copy should be retained by the client.

5/4/2021

Login Sample Receipt Checklist

Client: The Boeing Company

Job Number: 410-36712-1

Login Number: 36712

List Source: Eurofins Lancaster Laboratories Env

List Number: 1

Creator: Rivera, Tatiana

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

APPENDIX B

Laboratory Data Quality Evaluation

Technical Memorandum

TO: Project File

FROM: Kristi Schultz

DATE: June 8, 2021

RE: **Boeing Former Eastgate Landfill**
April 20, 2021 Interim Groundwater Monitoring Sample Results
Laboratory Data Quality Evaluation

This technical memorandum provides the results of a data quality evaluation for five groundwater samples and one trip blank collected at the former Eastgate Landfill on April 20, 2021. A data quality evaluation was performed on the following analyses:

- Volatile organic compounds (VOCs; US Environmental Protection Agency [EPA] Method SW-846 8260D)
- Dissolved metals (EPA Method 200.8 Rev 5.4 [arsenic] and Method SW6010D [iron and manganese])
- Ammonia as nitrogen (EPA Method SM 4500-NH3 D-2011)
- Total Organic Carbon (TOC; Method SM 5310 C-2011)
- Chemical Oxygen Demand (COD; EPA Method 410.4)
- Chloride and sulfate (EPA Method 300.0)
- Nitrate as nitrogen and Nitrite as nitrogen (EPA Method 353.2).

All of the above analyses were performed by Eurofins Lancaster Laboratories Environmental, LLC (ELLE) located in Lancaster, Pennsylvania. This data quality evaluation covers ELLE data package 410-36712-1.

The Stage 2A verification and validation check was conducted in accordance with the Confirmational Groundwater Monitoring Former Eastgate Landfill Work Plan (LAI 2002), and with guidance from applicable portions of the EPA Contract Laboratory Program National Functional Guidelines for Organic (EPA 2017b) and Inorganic Data Review (EPA 2017a).

The Stage 2A verification and validation check for each laboratory data package included the following:

- Verification that the laboratory data package contained all necessary documentation (including chain-of-custody records; identification of samples received by the laboratory; date and time of receipt of the samples at the laboratory; sample conditions upon receipt at the laboratory; date and time of sample analysis; and, if applicable, date of extraction, definition of laboratory data qualifiers, all sample-related quality control data, and quality control acceptance criteria).

- Verification that all requested analyses, special cleanups, and special handling methods were performed.
- Verification that quality control samples were performed as specified in the project Work Plan.
- Evaluation of sample holding times.
- Evaluation of quality control data compared to acceptance criteria, including method blanks, field trip blanks, surrogate recoveries, laboratory control sample results, and blind field duplicate pair relative percent differences (RPD).
- Evaluation of reporting limits compared to target reporting limits specified in the project Work Plan.

Data validation qualifiers are added to sample results based on the evaluation of data quality. The absence of a data qualifier indicates that the data is acceptable without qualification. Data qualifiers are summarized in Table 1. The data quality evaluation is summarized below.

Laboratory Data Package Completeness

Each laboratory data package contained a signed chain-of-custody, a cooler receipt form documenting the condition of the samples upon receipt at the laboratory, a cooler temperature compliance form, sample analytical results, and quality control results (method blanks, field trip blanks, surrogate recoveries, and laboratory control sample results). A case narrative identifying any complications was also provided with each laboratory data package. Definitions of laboratory qualifiers and quality control acceptance criteria were provided, as appropriate.

Sample Conditions and Analysis

A signed COC record was attached to the data packages. The laboratory received all samples in good condition, with the following exception:

- The laboratory noted the preservation requirements for acrolein and acrylonitrile associated with the VOC samples were not met (samples were preserved with hydrochloric acid; these compounds degrade in acidic mediums). The results for the associated compounds were qualified as estimated (UJ), as indicated in Table 1.

All analyses were performed as requested. No special cleanups or handling methods were requested.

Upon receipt by ELLE, the sample container information was compared to the associated chain-of-custody and the cooler temperatures were recorded. One cooler was received with a temperature of 0.6°C, which is within the EPA-recommended limit of ≤6°C. No qualification of the data was necessary.

Holding Times

For all analyses and all samples, the time between sample collection, extraction (if applicable), and analysis was determined to be within EPA- and project-specified holding times. No qualification of the data was necessary.

Blank Results

Method Blanks

At least one method blank was analyzed with each batch of samples. Target analytes were not detected at concentrations greater then than reporting limits in the associated method blanks. No qualification of the data was necessary.

Field Trip Blanks

At least one field (trip) blank was analyzed with each batch of samples submitted to the laboratory. Target analytes were not detected at concentrations greater than the reporting limits in the associated field blanks. No qualification of the data was necessary.

Surrogate Spike Recoveries

Appropriate compounds were used as surrogate spikes. Recovery values for the surrogate spikes were within the current laboratory-specified control limits for all project samples. No qualification of the data was necessary.

Laboratory Control Sample (Blank Spike) Results

At least one laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) was analyzed with this batch of samples for each analysis. Recoveries and relative percent differences (RPDs) for the laboratory control samples and associated duplicates were within the current laboratory-specified control limits. No qualification of the data was necessary.

Blind Field Duplicate Results

One blind field duplicate sample pair (EL-100/EL-103) was collected with the groundwater samples meeting the requirement specified in the work plan of one duplicate per 20 samples, but no less than one blank per sampling round. RPDs between the blind field duplicate sample and parent results were within the project-specified control limit of 20 percent. No qualification of the data was necessary.

Quantitation Limits

Method and/or project-specified reporting limits were met for each sample for each analysis.

Audit/Corrective Action Records

No corrective action records were generated for these sample batches. Based on the laboratory's case narratives, continuing calibration verification (CCV) recovery results were within laboratory-specified control limits, with the following exception:

- The CCV recovery for batch 410-118816 was low for vinyl acetate and trans-1,4-dichloro-2-butene. The associated sample results were qualified as estimated (J, UJ), as indicated in Table 1.

Overall Data Quality and Completeness

The completeness for this data set is 100 percent, which meets the project-specified goal of 95 percent minimum.

Data precision was evaluated through laboratory control duplicate samples, and blind field duplicate samples. Data accuracy was evaluated through laboratory control samples and surrogate spikes. Based on this Stage 2A data quality verification and validation, all of the data were determined to be acceptable. No data were rejected.

LANDAU ASSOCIATES, INC.

Kristi Schultz
Data Specialist

KES/DRJ/ljl
[P:\025\089\FILERM\T\DATA\DV MEMOS\2021 APRIL DV_TM.DOCX]

Attachments

Table 1. Summary of Data Qualifiers

References

EPA. 2017a. National Functional Guidelines for Inorganic Superfund Methods Data Review. Washington, DC: US Environmental Protection Agency.

EPA. 2017b. National Functional Guidelines for Organic Superfund Methods Data Review. Washington, DC: US Environmental Protection Agency.

LAI. 2002. Work Plan, Confirmational Groundwater Monitoring, Former Eastgate Landfill, Bellevue, Washington. Edmonds, Washington: Landau Associates.

Table 1
Summary of Data Qualifiers
April 2021 Event Water Sampling Results
Boeing Eastgate

Lab SDG	Sample ID	Analyte	Conc.	Lab Qualifier	Data Qualifier	Reason Code
410-36712-1	EL-100-210420	Acrolein	25.0	U	UJ	Sample improperly preserved
410-36712-1	EL-100-210420	Acrylonitrile	5.00	U	UJ	Sample improperly preserved
410-36712-1	EL-100-210420	trans-1,4-Dichloro-2-butene	5.00	U	UJ	Low continuing calibration recovery
410-36712-1	EL-100-210420	Vinyl Acetate	0.500	U	UJ	Low continuing calibration recovery
410-36712-1	EL-103-210420	Acrolein	25.0	U	UJ	Sample improperly preserved
410-36712-1	EL-103-210420	Acrylonitrile	5.00	U	UJ	Sample improperly preserved
410-36712-1	EL-103-210420	trans-1,4-Dichloro-2-butene	5.00	U	UJ	Low continuing calibration recovery
410-36712-1	EL-103-210420	Vinyl Acetate	0.500	U	UJ	Low continuing calibration recovery
410-36712-1	FrenchDrain-210420	Acrolein	25.0	U	UJ	Sample improperly preserved
410-36712-1	FrenchDrain-210420	Acrylonitrile	5.00	U	UJ	Sample improperly preserved
410-36712-1	FrenchDrain-210420	trans-1,4-Dichloro-2-butene	5.00	U	UJ	Low continuing calibration recovery
410-36712-1	FrenchDrain-210420	Vinyl Acetate	0.500	U	UJ	Low continuing calibration recovery

Notes:

U = The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Abbreviations/Acronyms:

ID = identification

SDG = sample delivery group