

June 8, 2023

Ms. Cindy Koepke
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg WI 53711

RE: May 2023 Groundwater Quality Monitoring Results
Refuse Hideaway Landfill
WDNR License #01953, WDNR Facility #113112010

Dear Ms. Koepke:

This letter summarizes the semi-annual May 2023 groundwater quality monitoring results for the Refuse Hideaway Landfill (the Landfill) located at 7562 USH 14, Middleton, Wisconsin. The Landfill is located in the southwest quarter of the northwest quarter, Section 8, Township 7 North, Range 8 East, Dane County, Wisconsin (Figure 1).

Cedar Corporation (Cedar) collected groundwater samples from 44 Landfill monitoring well locations on May 15 through May 17, 2023 (reference Figure 2 – Monitoring Well Locations). The samples were collected in accordance with the Wisconsin Department of Natural Resources (WDNR) guidance Groundwater Sampling Desk Reference (September 1996) and were submitted to Eurofins Test America in University Park, Illinois, for analysis of volatile organic compounds (VOCs).

Cedar collected depth to groundwater measurements at each of the groundwater monitoring wells at the Landfill prior to sampling. Groundwater elevations can be referenced on Table 1 – Groundwater Elevations in Attachment A. Groundwater flow at the Landfill can be reference on Figure 3 – Water Table Map.

An electronic format of the laboratory results were submitted on a CD for the GEMS database submittal. Accompanying the CD was the Environmental Monitoring Data Certification which is also included in Attachment A. Laboratory reports and figures were not included in the CD.

Groundwater Quality

The groundwater quality results were compared to Chapter NR 140, Wisconsin Administrative Code (NR 140 WAC) groundwater quality preventive action limits (PAL) and enforcement standards (ES) and/or the section NR 809.60 Wisconsin Administrative Code (s. 809.60, WAC) secondary drinking water standards. Analytical results from the May 2023 sampling event exceeding a NR 140 WAC ES and PAL are discussed below.

Exceedances Notification

There were 12 groundwater monitoring wells at the Landfill with NR 140 WAC ES exceedances; the groundwater monitoring wells are listed below.

- P-27D
- P-18S
- P-16D
- P-8S
- P-9S
- P-24E
- P-9D
- P-21D
- P-21BR
- P-8D
- P-24D
- FD-4

There were 21 groundwater monitoring wells at the Landfill with NR 140 WAC PAL exceedance; the groundwater monitoring wells are listed below.

- P-22E
- P-28S
- P-8S
- P-21D
- 7734 USH 14
- FD-3
- P-40D
- P-27D
- P-17S
- P-21BR
- P-311B
- P-40I
- P-27S
- P-9S
- P-8D
- P-311A
- P-25BR
- P-20SR
- P-9D
- P-24D
- P-23S

Results of the exceedances can be viewed in Table 2 – NR 140 PAL-ES Exceedance Report in Attachment B. Copies of the analytical laboratory results and chain-of-custody record are included in Attachment B.

Discussion

There were 12 groundwater monitoring wells with NR 140 WAC ES exceedances and 21 groundwater monitoring wells with NR 140 WAC PAL exceedances detected during the May 2023 groundwater sampling event. The cause for the exceedances is due to the historic use of the Site as a landfill and generally consistent with past sampling events.

Standard of Care

Please do not hesitate to contact me or Dan O’Connell at (920) 491-9081 should you have any questions regarding this project.

Sincerely,
Cedar Corporation



Quin Lenz, P.G.
Geologist



Dan O’Connell, P.G., C.P.G.
Environmental Manager

Enclosure

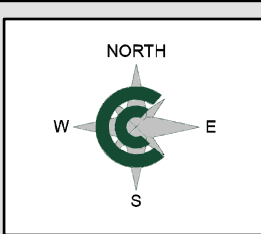
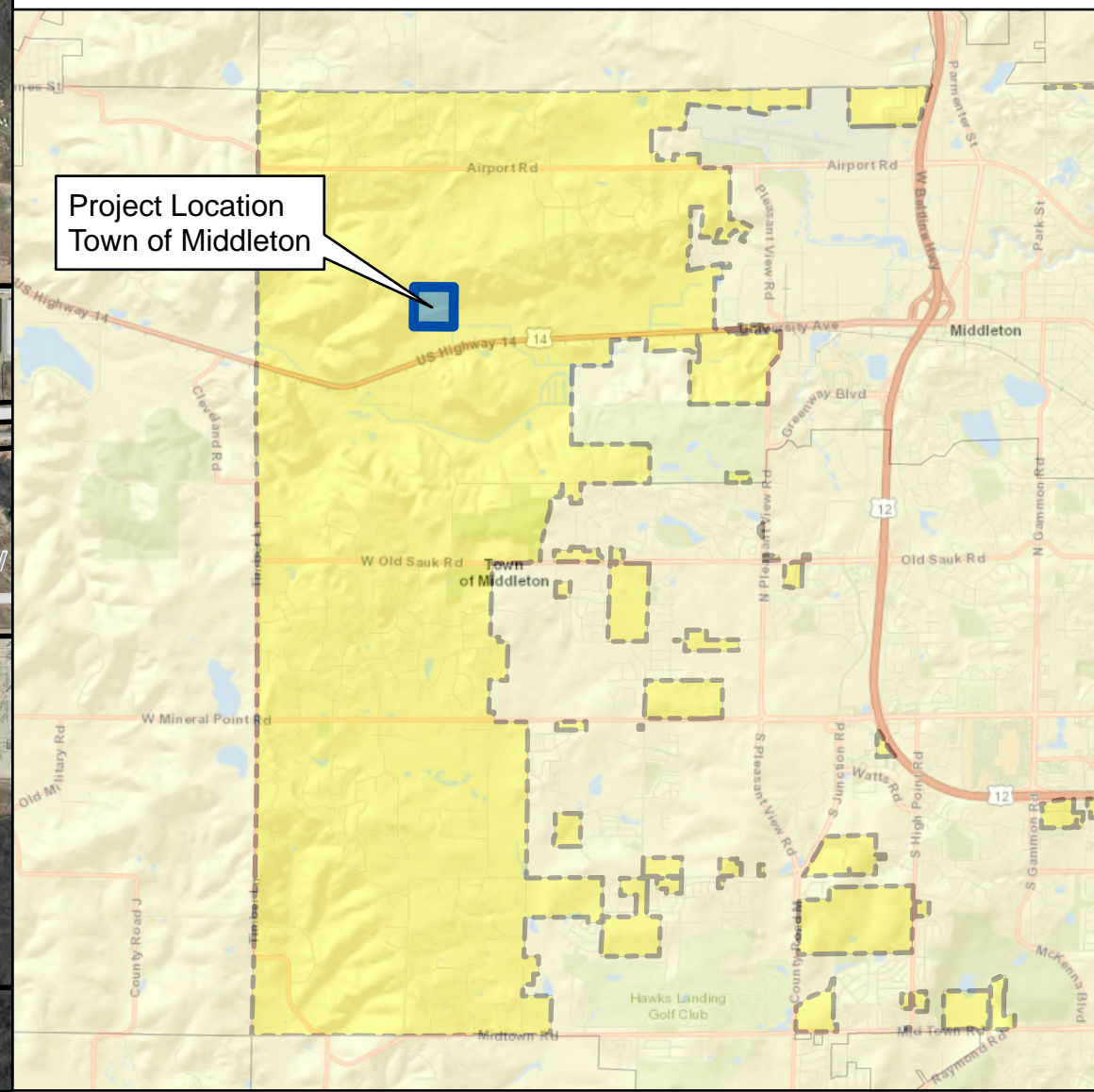
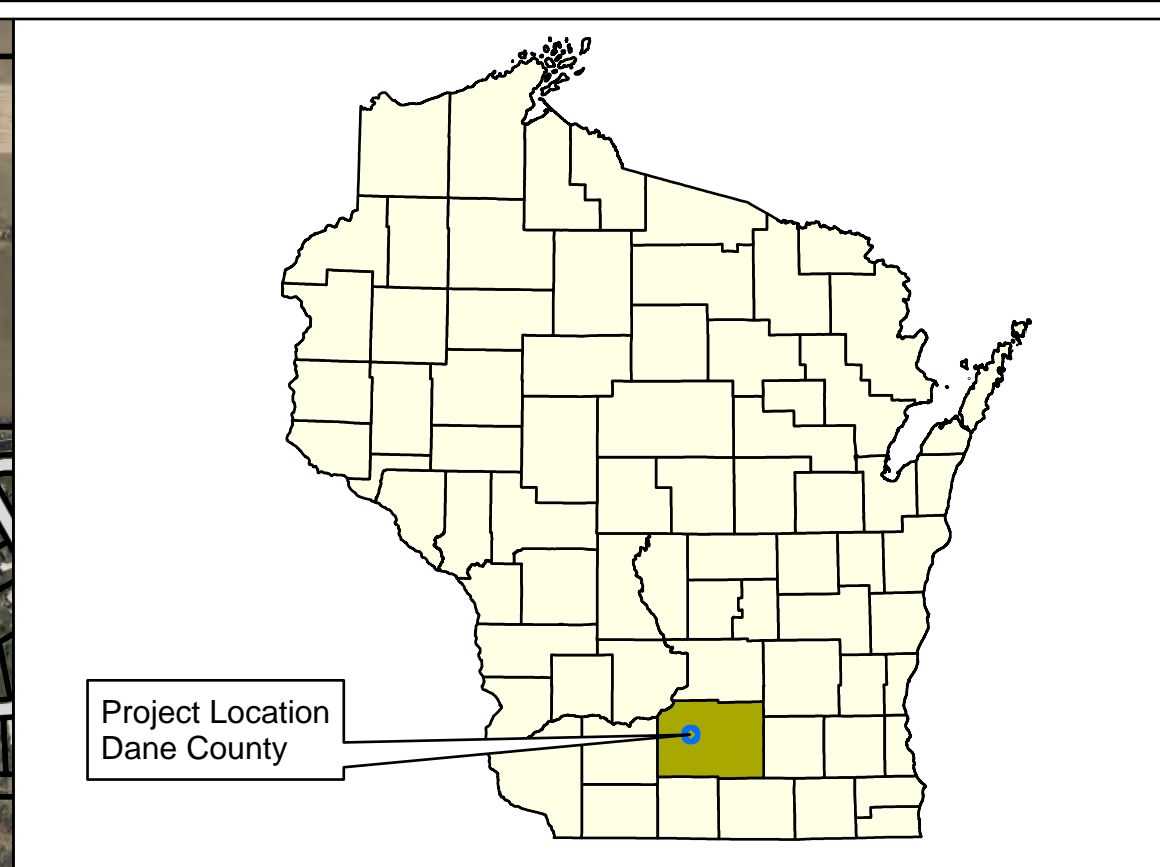
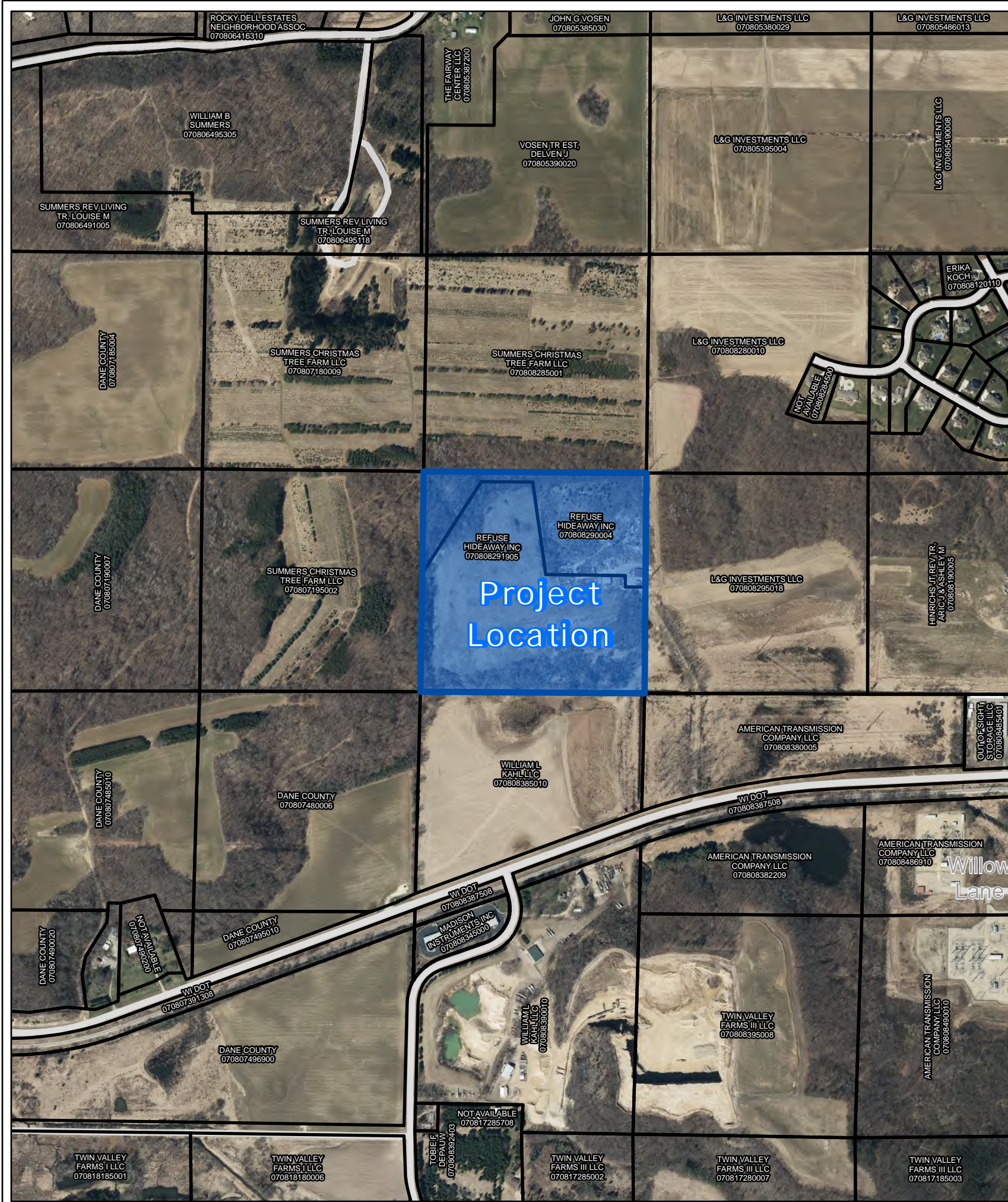
cc: GEMS Data Submittal Contact – WA/5, WDNR, P.O. Box 7921, Madison, WI 53707-7921 (Data Disk and Original Environmental Monitoring Data Certification form only)

References

Wisconsin Department of Natural Resources. "Groundwater Sampling Desk Reference," Publication No. DG-037-96, September 1996.

Wisconsin Department of Natural Resources. "Groundwater Quality," Wisconsin Administrative Code, Chapter NR 140, July 2015.

Figures

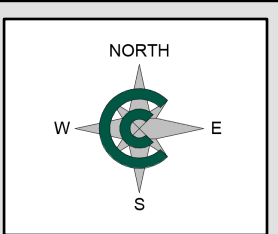


Location Map
Wisconsin DNR - Refuse Hideaway Landfill
 US HIGHWAY 14
 TOWN OF MIDDLETON
 DANE COUNTY, WISCONSIN

JOB NO.
W6719-001

DATE
6/8/2023

FIGURE
1



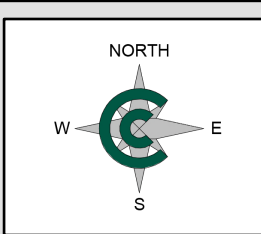
Monitoring Well Locations
Wisconsin DNR - Refuse Hideaway Landfill
 US HIGHWAY 14
 TOWN OF MIDDLETON
 DANE COUNTY, WISCONSIN

JOB NO.	W6719-001
DATE	6/8/2023
FIGURE	2

Legend

- Monitoring Well
- Contours (100 Ft Index)
- Contours (5 Ft Intervals)
- Parcels

0 500 1,000 Feet



Water Table Map - June 2023
Wisconsin DNR - Refuse Hideaway Landfill
 US HIGHWAY 14
 TOWN OF MIDDLETON
 DANE COUNTY, WISCONSIN

JOB NO.	W6719-001
DATE	6/8/2023
FIGURE	3

Attachment A

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats

Instructions:

- **Prepare one form for each license or monitoring ID.**
- **Please type or print legibly.**
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to: GEMS Data Submittal Contact - WA/5
Wisconsin Department of Natural Resources
P.O. Box 7921
Madison, WI 53707-7921

Monitoring Data Submittal Information

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

Cedar Corporation

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

Name Quin Lenz	Phone No. (include area code) (920) 491-9081
-------------------	---

Email quin.lenz@cedarcorp.com

Facility Name Refuse Hideaway Landfill

License # / Monitoring ID 01953	Facility ID (FID) 113112010
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Actual sampling dates (e.g., July 2-6, 2003) May 15-17, 2023	The enclosed results are for sampling required in the month(s) of: (e.g., June 2003) May 2023
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Type of Data Submitted (Check all that apply):

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input checked="" type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify): |

Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Facility Representative Name (Print) Quin Lenz	Title Staff Geologist	Phone No. (include area code) (920) 491-9081
---	--------------------------	---

Signature



06/08/2023
Date Signed (mm/dd/yyyy)

For DNR Use Only

Check action taken, and record date and your initials. Describe on back side if necessary.

- Found uploading problems on _____ Initials _____
- Notified contact of problems on _____ Uploaded data successfully on _____
- EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other: _____

Attachment B

Table 1
Groundwater Elevations
7562 USH 14
Middleton, Wisconsin
WDNR Facility #113112010

Location	Date	Time (24-hr)	DTW from TOC (ft)	Well Depth from TOC (ft)	Elevation Top of PVC	GW Elev.
P-8S	5/15/2023	9:22	6.96	20.5	932.5	925.54
P-8D	5/15/2023	9:24	5.7	42.2	930.98	925.28
P-9S	5/15/2023	9:31	6.47	16	932.09	925.62
P-9D	5/15/2023	9:30	0	43	930.43	Flowing
P-16S	5/15/2023	10:09	10.99	17.2	936.78	925.79
P-16D	5/15/2023	10:08	12.43	42.9	936.3	923.87
P-21S	5/15/2023	9:44	9.48	19.7	936.43	926.95
P-21D	5/15/2023	9:45	10.97	41.6	936.94	925.97
P-21BR	5/15/2023	9:48	11.22	148.3	935.19	923.97
P-24D	5/15/2023	9:13	0	25.2	927.25	Flowing
P-24E	5/15/2023	9:12	0	52.5	927.39	Flowing
P-25S	5/15/2023	10:18	19.26	29.4	943.14	923.88
P-28S	5/15/2023	13:32	196.83	207.4	1124.33	927.5
P-29S	5/15/2023	16:10	234.95	257.2	1163.1	928.15
P-31S	5/15/2023	8:44	5.23	28.8	916.59	911.36
P-32S	5/15/2023	8:30	19	39.5	943.73	924.73
P-32D	5/15/2023	8:33	19.84	176.2	942.66	922.82
P-33D	5/15/2023	9:00	0	103.4	928.5	Flowing
P-34S	5/15/2023	11:34	160.01	186	1091.1	931.09
P-34D	5/15/2023	11:33	161.82	276.1	1090.98	929.16
P-41D	5/15/2023	10:40	13.79	104.5	924.82	911.03
P-17S	5/15/2023	10:21	144.91	111.5	929.52	936.84
P-18S	5/15/2023	8:28	94.41	27.6	928.55	926.16
P-20SR	5/15/2023	8:52	35.41	184	1087.9	926.37
P-22S	5/15/2023	9:44	170.28	252.6	1087.7	917.92
P-22D	5/15/2023	9:38	171.32	158.8	1081.75	917.62
P-22E	5/15/2023	9:41	172.13	107.2	1020.57	917.59
P-23S	5/15/2023	8:40	36.16	66.3	961.78	925.55
P-23D	5/15/2023	8:44	35.83	184.7	1088.2	925.7
P-25D	5/15/2023	10:12	24.05	217.2	1088.94	919.81
P-25BR	5/15/2023	10:16	23.08	273	1089.72	920.19
P-26S	5/15/2023	12:50	219.65	48.1	961.71	931.3

Table 1
Groundwater Elevations
7562 USH 14
Middleton, Wisconsin
WDNR Facility #113112010

Location	Date	Time (24-hr)	DTW from TOC (ft)	Well Depth from TOC (ft)	Elevation Top of PVC	GW Elev.
P-27S	5/15/2023	14:55	171.82	80.1	961.53	923.41
P-27D	5/15/2023	14:57	172.39	96.3	943.86	923.17
P-30I	5/15/2023	8:55	17.53	140.3	943.27	913.41
P-30D	5/15/2023	8:57	19.49	237.6	1150.95	913.48
P-31IA	5/15/2023	8:45	0	188.8	1095.23	Flowing
P-31IB	5/15/2023	8:46	0	204.3	1095.56	Flowing
P-31D	5/15/2023	8:47	0	142.3	930.94	Flowing
P-40I	5/15/2023	10:30	8.07	104.8	922.28	914.21
P-40D	5/15/2023	10:32	9.26	255.2	922.98	913.72
P-43S	5/15/2023	9:28	189.96	289.5	932.97	920.64
P-43I	5/15/2023	9:32	189.7	95.6	916.77	920.54
P-43D	5/15/2023	9:24	189.27	135.7	916.49	920.65
P-8BR	5/15/2023	9:20	0	111.5	929.52	Flowing
P-33S	5/15/2023	9:02	4.09	27.6	928.55	924.46
P-35S	5/15/2023	14:23	162.34	184	1087.9	925.56
P-35D	5/15/2023	14:20	163.76	252.6	1087.7	923.94

Notes:

ft = feet

DTW = Depth to Water

GW Elev. = Groundwater elevation in feet

TOC = Top of casing

hr = hour

Table 2
NR 140 PAL-ES Exceedance Report
7562 USH 14
Middleton, Wisconsin
WDNR Facility #113112010

Sample No	Well ID	Well Name	Date Sampled	Parameter	Description	RESULT	PAL	ES	LOD	Units	PAL Exceeded?	ES Exceeded?
500-233874-1	174	P-22E	05/16/2023	34475	Tetrachloroethene	4.9	0.5	5	0.37	UG/L	PAL Exceeded	
500-233874-1	174	P-22E	05/16/2023	39180	Trichloroethene	1.5	0.5	5	0.16	UG/L	PAL Exceeded	
500-233874-1	161	P-40D	05/16/2023	34475	Tetrachloroethene	0.78	0.5	5	0.37	UG/L	PAL Exceeded	
500-233874-2	162	P-40I	05/16/2023	34475	Tetrachloroethene	3.7	0.5	5	0.37	UG/L	PAL Exceeded	
500-233874-2	162	P-40I	05/16/2023	39180	Trichloroethene	0.95	0.5	5	0.16	UG/L	PAL Exceeded	
500-233874-2	119	P-25BR	05/16/2023	34475	Tetrachloroethene	1.2	0.5	5	0.37	UG/L	PAL Exceeded	
500-233874-4	123	P-28S	05/15/2023	32106	Chloroform	0.76	0.6	6	0.37	UG/L	PAL Exceeded	
500-233874-5	122	P-27D	05/15/2023	34475	Tetrachloroethene	14	0.5	5	0.37	UG/L	PAL Exceeded	ES Exceeded
500-233874-5	122	P-27D	05/15/2023	39180	Trichloroethene	2.9	0.5	5	0.16	UG/L	PAL Exceeded	
500-233874-6	121	P-27S	05/15/2023	34475	Tetrachloroethene	2.9	0.5	5	0.37	UG/L	PAL Exceeded	
500-233874-8	129	P-18S	05/15/2023	34475	Tetrachloroethene	8.4	0.5	5	0.37	UG/L	PAL Exceeded	ES Exceeded
500-234144-1	127	P-16D	05/16/2023	81607	Tetrahydrofuran	59	10	50	1.9	UG/L	PAL Exceeded	ES Exceeded
500-234144-1	167	P-20SR	05/16/2023	34475	Tetrachloroethene	1.4	0.5	5	0.37	UG/L	PAL Exceeded	
500-234144-1	125	P-08S	05/16/2023	77093	cis-1,2-Dichloroethene	7.8	7	70	0.41	UG/L	PAL Exceeded	
500-234144-1	125	P-08S	05/16/2023	34475	Tetrachloroethene	0.78	0.5	5	0.37	UG/L	PAL Exceeded	
500-234144-1	125	P-08S	05/16/2023	81607	Tetrahydrofuran	58	10	50	1.9	UG/L	PAL Exceeded	ES Exceeded
500-234144-1	125	P-08S	05/16/2023	39180	Trichloroethene	1.3	0.5	5	0.16	UG/L	PAL Exceeded	
500-234144-1	128	P-17S	05/17/2023	34475	Tetrachloroethene	2.0	0.5	5	0.37	UG/L	PAL Exceeded	
500-234144-1	139	P-9S	05/17/2023	34475	Tetrachloroethene	0.59	0.5	5	0.37	UG/L	PAL Exceeded	
500-234144-1	139	P-9S	05/17/2023	81607	Tetrahydrofuran	55	10	50	1.9	UG/L	PAL Exceeded	ES Exceeded
500-234144-1	140	P-9D	05/17/2023	34030	Benzene	3.8	0.5	5	0.15	UG/L	PAL Exceeded	
500-234144-1	140	P-9D	05/17/2023	81607	Tetrahydrofuran	240	10	50	1.9	UG/L	PAL Exceeded	ES Exceeded
500-234144-1	113	P-21D	05/17/2023	34030	Benzene	2.4	0.5	5	0.15	UG/L	PAL Exceeded	
500-234144-1	113	P-21D	05/17/2023	81607	Tetrahydrofuran	300	10	50	1.9	UG/L	PAL Exceeded	ES Exceeded
500-234144-1	113	P-21D	05/17/2023	39175	Vinyl chloride	3.8	0.02	0.2	0.20	UG/L	PAL Exceeded	ES Exceeded
500-234144-2	134	P-21BR	05/17/2023	39180	Trichloroethene	1.9	0.5	5	0.16	UG/L	PAL Exceeded	

Table 2
NR 140 PAL-ES Exceedance Report
7562 USH 14
Middleton, Wisconsin
WDNR Facility #113112010

Sample No	Well ID	Well Name	Date Sampled	Parameter	Description	RESULT	PAL	ES	LOD	Units	PAL Exceeded?	ES Exceeded?
500-234144-2	134	P-21BR	05/17/2023	39175	Vinyl chloride	0.73	0.02	0.2	0.20	UG/L	PAL Exceeded	ES Exceeded
500-234144-2	114	P-08D	05/17/2023	34030	Benzene	0.68	0.5	5	0.15	UG/L	PAL Exceeded	
500-234144-2	114	P-08D	05/17/2023	81607	Tetrahydrofuran	92	10	50	1.9	UG/L	PAL Exceeded	ES Exceeded
500-234144-2	115	P-24D	05/17/2023	77093	cis-1,2-Dichloroethene	20	7	70	0.41	UG/L	PAL Exceeded	
500-234144-2	115	P-24D	05/17/2023	39175	Vinyl chloride	20	0.02	0.2	0.20	UG/L	PAL Exceeded	ES Exceeded
500-234144-2	116	P-24E	05/17/2023	39175	Vinyl chloride	0.63	0.02	0.2	0.20	UG/L	PAL Exceeded	ES Exceeded
500-234144-2	zzz	FD-4	05/17/2023	39175	Vinyl chloride	0.64	0.02	0.2	0.20	UG/L	PAL Exceeded	ES Exceeded
500-234144-2	312	7734 USH 14	05/17/2023	34475	Tetrachloroethene	3.3	0.5	5	0.20	UG/L	PAL Exceeded	
500-234144-2	312	7734 USH 14	05/17/2023	39180	Trichloroethene	0.73	0.5	5	0.20	UG/L	PAL Exceeded	
500-234144-2	311	7750 USH 14	05/17/2023	34475	Tetrachloroethene	2.3	0.5	5	0.20	UG/L	PAL Exceeded	
500-234144-3	147	P-31IB	05/16/2023	34475	Tetrachloroethene	2.1	0.5	5	0.37	UG/L	PAL Exceeded	
500-234144-3	147	P-31IB	05/16/2023	39180	Trichloroethene	0.74	0.5	5	0.16	UG/L	PAL Exceeded	
500-234144-6	146	P-31IA	05/16/2023	34475	Tetrachloroethene	1.9	0.5	5	0.37	UG/L	PAL Exceeded	
500-234144-6	146	P-31IA	05/16/2023	39180	Trichloroethene	0.63	0.5	5	0.16	UG/L	PAL Exceeded	
500-234144-8	137	P-23S	05/16/2023	34475	Tetrachloroethene	1.2	0.5	5	0.37	UG/L	PAL Exceeded	
500-234144-9	161	FD-3	05/16/2023	34475	Tetrachloroethene	1.2	0.5	5	0.37	UG/L	PAL Exceeded	

Notes:

Bold PAL

Bold ES

PAL = Preventative Action Limit

ES = Enforcement Standard

ug/L - Micrograms per liter



ANALYTICAL REPORT

PREPARED FOR

Attn: Quin Lenz
Cedar Corporation
1695 Bellevue Street
Green Bay, Wisconsin 54311

Generated 5/31/2023 10:36:52 AM

JOB DESCRIPTION

Refuse Hideaway Landfill

JOB NUMBER

500-233874-1

Eurofins Chicago

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Generated
5/31/2023 10:36:52 AM

Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660



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Case Narrative

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Job ID: 500-233874-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-233874-1**

Receipt

The samples were received on 5/17/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.8° C and 4.1° C.

GC/MS VOA

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-714685 were outside control limits for one or more analytes.

Method 8260D: The method blank for analytical batch 500-714685 contained Methylene Chloride and Hexachlorobutadiene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The laboratory control sample (LCS) for analytical batch 500-714960 recovered outside control limits for the following analytes: Vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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



Detection Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-34S

Lab Sample ID: 500-233874-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.49	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	160.01				ft		1	Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	579				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.35				SU	1		Field Sampling	Total/NA
Field Temperature	10.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	931.09				ft		1	Field Sampling	Total/NA

Client Sample ID: P-34D

Lab Sample ID: 500-233874-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	161.82				ft		1	Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	518				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.34				SU	1		Field Sampling	Total/NA
Field Temperature	10.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	929.16				ft		1	Field Sampling	Total/NA

Client Sample ID: P-26S

Lab Sample ID: 500-233874-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.53	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	219.65				ft		1	Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	791				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.09				SU	1		Field Sampling	Total/NA
Field Temperature	14.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	931.3				ft		1	Field Sampling	Total/NA

Client Sample ID: P-28S

Lab Sample ID: 500-233874-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.76	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	196.83				ft		1	Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	651				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.04				SU	1		Field Sampling	Total/NA
Field Temperature	10.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	927.5				ft		1	Field Sampling	Total/NA

Client Sample ID: P-27D

Lab Sample ID: 500-233874-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4		1.0	0.41	ug/L	1		8260D	Total/NA
Tetrachloroethene	14	^c *	1.0	0.37	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-27D (Continued)

Lab Sample ID: 500-233874-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.9		0.50	0.16	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	172.39				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	892				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	6.81				SU	1		Field Sampling	Total/NA
Field Temperature	12.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	923.17				ft	1		Field Sampling	Total/NA

Client Sample ID: P-27S

Lab Sample ID: 500-233874-6

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.9	^c *	1.0	0.37	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	171.82				ft	1		Field Sampling	Total/NA
Field Color	Y				NONE	1		Field Sampling	Total/NA
Field Conductivity	884				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	6.73				SU	1		Field Sampling	Total/NA
Field Temperature	11.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	Y				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	923.41				ft	1		Field Sampling	Total/NA

Client Sample ID: P-29S

Lab Sample ID: 500-233874-7

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.57	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	234.95				ft	1		Field Sampling	Total/NA
Field Color	Y				NONE	1		Field Sampling	Total/NA
Field Conductivity	558				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.39				SU	1		Field Sampling	Total/NA
Field Temperature	10.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	Y				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	928.15				ft	1		Field Sampling	Total/NA

Client Sample ID: P-18S

Lab Sample ID: 500-233874-8

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.58	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Tetrachloroethene	8.4	^c *	1.0	0.37	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	94.41				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	659				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.18				SU	1		Field Sampling	Total/NA
Field Temperature	10.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	926.16				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-41D

Lab Sample ID: 500-233874-9

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	13.79				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	689				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.23				SU	1		Field Sampling	Total/NA
Field Temperature	9.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	911.03				ft	1		Field Sampling	Total/NA

Client Sample ID: 4610 Rocky Dell Rd

Lab Sample ID: 500-233874-10

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	775				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.21				SU	1		Field Sampling	Total/NA
Field Temperature	12.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA

Client Sample ID: TB-1

Lab Sample ID: 500-233874-11

No Detections.

Client Sample ID: P-43S

Lab Sample ID: 500-233874-12

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	189.96				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	585				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.3				SU	1		Field Sampling	Total/NA
Field Temperature	9.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	920.64				ft	1		Field Sampling	Total/NA

Client Sample ID: P-43I

Lab Sample ID: 500-233874-13

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.54	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	189.7				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	702				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.18				SU	1		Field Sampling	Total/NA
Field Temperature	10.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	920.54				ft	1		Field Sampling	Total/NA

Client Sample ID: P-43D

Lab Sample ID: 500-233874-14

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.52	J B	2.0	0.37	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	189.27				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-43D (Continued)

Lab Sample ID: 500-233874-14

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Field Conductivity	627				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.4				SU	1		Field Sampling	Total/NA
Field Temperature	10.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	920.65				ft	1		Field Sampling	Total/NA

Client Sample ID: FD-1

Lab Sample ID: 500-233874-15

No Detections.

Client Sample ID: P-22S

Lab Sample ID: 500-233874-16

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	170.28				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	681				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.48				SU	1		Field Sampling	Total/NA
Field Temperature	10.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	917.92				ft	1		Field Sampling	Total/NA

Client Sample ID: P-22E

Lab Sample ID: 500-233874-17

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.4		1.0	0.41	ug/L	1		8260D	Total/NA
Tetrachloroethene	4.9	^c *	1.0	0.37	ug/L	1		8260D	Total/NA
Trichloroethene	1.5		0.50	0.16	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	172.13				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	531				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.16				SU	1		Field Sampling	Total/NA
Field Temperature	17.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	917.59				ft	1		Field Sampling	Total/NA

Client Sample ID: P-22D

Lab Sample ID: 500-233874-18

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	171.32				ft	1		Field Sampling	Total/NA
Field Color	Y				NONE	1		Field Sampling	Total/NA
Field Conductivity	681				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.29				SU	1		Field Sampling	Total/NA
Field Temperature	12.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	917.62				ft	1		Field Sampling	Total/NA

Client Sample ID: P-40D

Lab Sample ID: 500-233874-19

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.78	J ^c *	1.0	0.37	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Detection Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-40I

Lab Sample ID: 500-233874-20

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.1		1.0	0.41	ug/L	1		8260D	Total/NA
Tetrachloroethene	3.7	^c *	1.0	0.37	ug/L	1		8260D	Total/NA
Trichloroethene	0.95		0.50	0.16	ug/L	1		8260D	Total/NA

Client Sample ID: P-25S

Lab Sample ID: 500-233874-21

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	19.26				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	920				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.0				SU	1		Field Sampling	Total/NA
Field Temperature	10.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	923.88				ft	1		Field Sampling	Total/NA

Client Sample ID: P-25BR

Lab Sample ID: 500-233874-22

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.2		1.0	0.37	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	23.08				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	697				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.19				SU	1		Field Sampling	Total/NA
Field Temperature	11.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	920.19				ft	1		Field Sampling	Total/NA

Client Sample ID: P-25D

Lab Sample ID: 500-233874-23

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	24.0				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	549				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.27				SU	1		Field Sampling	Total/NA
Field Temperature	11.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	919.81				ft	1		Field Sampling	Total/NA

Client Sample ID: FD-2

Lab Sample ID: 500-233874-24

No Detections.

Client Sample ID: P-32S

Lab Sample ID: 500-233874-25

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	19				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	1353				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.13				SU	1		Field Sampling	Total/NA
Field Temperature	11.7				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Detection Summary

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-32S (Continued)

Lab Sample ID: 500-233874-25

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	924.73				ft	1		Field Sampling	Total/NA

Client Sample ID: P-32D

Lab Sample ID: 500-233874-26

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.1	J	10	1.7	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	19.84				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	712				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.11				SU	1		Field Sampling	Total/NA
Field Temperature	11.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	922.82				ft	1		Field Sampling	Total/NA

Client Sample ID: Trip Blank-2

Lab Sample ID: 500-233874-27

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.1	J	10	1.7	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	EA SB
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
Field Sampling	Field Sampling	EPA	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

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

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-233874-1	P-34S	Water	05/15/23 12:30	05/17/23 10:00
500-233874-2	P-34D	Water	05/15/23 12:40	05/17/23 10:00
500-233874-3	P-26S	Water	05/15/23 13:15	05/17/23 10:00
500-233874-4	P-28S	Water	05/15/23 14:05	05/17/23 10:00
500-233874-5	P-27D	Water	05/15/23 15:22	05/17/23 10:00
500-233874-6	P-27S	Water	05/15/23 15:40	05/17/23 10:00
500-233874-7	P-29S	Water	05/15/23 16:35	05/17/23 10:00
500-233874-8	P-18S	Water	05/15/23 19:00	05/17/23 10:00
500-233874-9	P-41D	Water	05/15/23 18:15	05/17/23 10:00
500-233874-10	4610 Rocky Dell Rd	Water	05/15/23 16:52	05/17/23 10:00
500-233874-11	TB-1	Water	05/15/23 08:00	05/17/23 10:00
500-233874-12	P-43S	Water	05/16/23 07:50	05/17/23 10:00
500-233874-13	P-43I	Water	05/16/23 07:55	05/17/23 10:00
500-233874-14	P-43D	Water	05/16/23 08:20	05/17/23 10:00
500-233874-15	FD-1	Water	05/16/23 07:52	05/17/23 10:00
500-233874-16	P-22S	Water	05/16/23 09:08	05/17/23 10:00
500-233874-17	P-22E	Water	05/16/23 09:25	05/17/23 10:00
500-233874-18	P-22D	Water	05/16/23 09:40	05/17/23 10:00
500-233874-19	P-40D	Water	05/16/23 10:18	05/17/23 10:00
500-233874-20	P-40I	Water	05/16/23 10:20	05/17/23 10:00
500-233874-21	P-25S	Water	05/16/23 11:12	05/17/23 10:00
500-233874-22	P-25BR	Water	05/16/23 11:15	05/17/23 10:00
500-233874-23	P-25D	Water	05/16/23 11:11	05/17/23 10:00
500-233874-24	FD-2	Water	05/16/23 11:14	05/17/23 10:00
500-233874-25	P-32S	Water	05/16/23 11:55	05/17/23 10:00
500-233874-26	P-32D	Water	05/16/23 12:00	05/17/23 10:00
500-233874-27	Trip Blank-2	Water	05/16/23 00:00	05/17/23 10:00

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-34S

Lab Sample ID: 500-233874-1

Date Collected: 05/15/23 12:30

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 11:20	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 11:20	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 11:20	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 11:20	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 11:20	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 11:20	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 11:20	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 11:20	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 11:20	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 11:20	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 11:20	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 11:20	1
Chloroform	0.49	J B	2.0	0.37	ug/L			05/23/23 11:20	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 11:20	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 11:20	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 11:20	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 11:20	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 11:20	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 11:20	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 11:20	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 11:20	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 11:20	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 11:20	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 11:20	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 11:20	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 11:20	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 11:20	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 11:20	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 11:20	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 11:20	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 11:20	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 11:20	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 11:20	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 11:20	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 11:20	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 11:20	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 11:20	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 11:20	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 11:20	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 11:20	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 11:20	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 11:20	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 11:20	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 11:20	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 11:20	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 11:20	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 11:20	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 11:20	1
Tetrachloroethene	<0.37	^c *	1.0	0.37	ug/L			05/23/23 11:20	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-34S

Lab Sample ID: 500-233874-1

Date Collected: 05/15/23 12:30

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 11:20	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 11:20	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 11:20	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 11:20	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 11:20	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 11:20	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 11:20	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 11:20	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 11:20	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 11:20	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 11:20	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 11:20	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 11:20	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 11:20	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106	^c	72 - 124		05/23/23 11:20	1
Dibromofluoromethane (Surr)	95		75 - 120		05/23/23 11:20	1
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		05/23/23 11:20	1
Toluene-d8 (Surr)	109		75 - 120		05/23/23 11:20	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	160.01				ft			05/15/23 12:30	1
Field Color	N				NONE			05/15/23 12:30	1
Field Conductivity	579				uS/cm			05/15/23 12:30	1
Field Odor	N				NONE			05/15/23 12:30	1
Field pH	7.35				SU			05/15/23 12:30	1
Field Temperature	10.4				Degrees C			05/15/23 12:30	1
Field Turbidity	N				NONE			05/15/23 12:30	1
Groundwater Elevation (ft MSL)	931.09				ft			05/15/23 12:30	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-34D

Lab Sample ID: 500-233874-2

Date Collected: 05/15/23 12:40

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 11:44	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 11:44	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 11:44	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 11:44	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 11:44	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 11:44	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 11:44	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 11:44	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 11:44	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 11:44	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 11:44	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 11:44	1
Chloroform	<0.37		2.0	0.37	ug/L			05/23/23 11:44	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 11:44	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 11:44	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 11:44	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 11:44	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 11:44	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 11:44	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 11:44	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 11:44	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 11:44	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 11:44	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 11:44	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 11:44	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 11:44	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 11:44	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 11:44	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 11:44	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 11:44	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 11:44	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 11:44	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 11:44	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 11:44	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 11:44	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 11:44	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 11:44	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 11:44	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 11:44	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 11:44	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 11:44	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 11:44	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 11:44	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 11:44	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 11:44	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 11:44	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 11:44	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 11:44	1
Tetrachloroethene	<0.37	^c *	1.0	0.37	ug/L			05/23/23 11:44	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-34D

Lab Sample ID: 500-233874-2

Date Collected: 05/15/23 12:40

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 11:44	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 11:44	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 11:44	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 11:44	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 11:44	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 11:44	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 11:44	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 11:44	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 11:44	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 11:44	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 11:44	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 11:44	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 11:44	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 11:44	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 11:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	^c	72 - 124		05/23/23 11:44	1
Dibromofluoromethane (Surr)	115		75 - 120		05/23/23 11:44	1
1,2-Dichloroethane-d4 (Surr)	121		75 - 126		05/23/23 11:44	1
Toluene-d8 (Surr)	97		75 - 120		05/23/23 11:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	161.82				ft			05/15/23 12:40	1
Field Color	N				NONE			05/15/23 12:40	1
Field Conductivity	518				uS/cm			05/15/23 12:40	1
Field Odor	N				NONE			05/15/23 12:40	1
Field pH	7.34				SU			05/15/23 12:40	1
Field Temperature	10.2				Degrees C			05/15/23 12:40	1
Field Turbidity	N				NONE			05/15/23 12:40	1
Groundwater Elevation (ft MSL)	929.16				ft			05/15/23 12:40	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-26S

Lab Sample ID: 500-233874-3

Date Collected: 05/15/23 13:15

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 12:09	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 12:09	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 12:09	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 12:09	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 12:09	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 12:09	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 12:09	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 12:09	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 12:09	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 12:09	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 12:09	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 12:09	1
Chloroform	0.53	J B	2.0	0.37	ug/L			05/23/23 12:09	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 12:09	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 12:09	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 12:09	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 12:09	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 12:09	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 12:09	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 12:09	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 12:09	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 12:09	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 12:09	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 12:09	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 12:09	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 12:09	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 12:09	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 12:09	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 12:09	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 12:09	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 12:09	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 12:09	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 12:09	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 12:09	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 12:09	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 12:09	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 12:09	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 12:09	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 12:09	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 12:09	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 12:09	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 12:09	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 12:09	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 12:09	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 12:09	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 12:09	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 12:09	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 12:09	1
Tetrachloroethene	<0.37	^c *	1.0	0.37	ug/L			05/23/23 12:09	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-26S

Lab Sample ID: 500-233874-3

Date Collected: 05/15/23 13:15

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 12:09	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 12:09	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 12:09	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 12:09	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 12:09	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 12:09	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 12:09	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 12:09	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 12:09	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 12:09	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 12:09	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 12:09	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 12:09	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 12:09	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 12:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104	^c	72 - 124		05/23/23 12:09	1
Dibromofluoromethane (Surr)	99		75 - 120		05/23/23 12:09	1
1,2-Dichloroethane-d4 (Surr)	110		75 - 126		05/23/23 12:09	1
Toluene-d8 (Surr)	106		75 - 120		05/23/23 12:09	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	219.65				ft			05/15/23 13:15	1
Field Color	N				NONE			05/15/23 13:15	1
Field Conductivity	791				uS/cm			05/15/23 13:15	1
Field Odor	N				NONE			05/15/23 13:15	1
Field pH	7.09				SU			05/15/23 13:15	1
Field Temperature	14.5				Degrees C			05/15/23 13:15	1
Field Turbidity	N				NONE			05/15/23 13:15	1
Groundwater Elevation (ft MSL)	931.3				ft			05/15/23 13:15	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-28S

Lab Sample ID: 500-233874-4

Date Collected: 05/15/23 14:05

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 12:33	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 12:33	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 12:33	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 12:33	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 12:33	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 12:33	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 12:33	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 12:33	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 12:33	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 12:33	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 12:33	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 12:33	1
Chloroform	0.76	J B	2.0	0.37	ug/L			05/23/23 12:33	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 12:33	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 12:33	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 12:33	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 12:33	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 12:33	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 12:33	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 12:33	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 12:33	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 12:33	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 12:33	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 12:33	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 12:33	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 12:33	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 12:33	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 12:33	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 12:33	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 12:33	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 12:33	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 12:33	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 12:33	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 12:33	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 12:33	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 12:33	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 12:33	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 12:33	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 12:33	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 12:33	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 12:33	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 12:33	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 12:33	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 12:33	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 12:33	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 12:33	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 12:33	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 12:33	1
Tetrachloroethene	<0.37	^c *	1.0	0.37	ug/L			05/23/23 12:33	1

Eurofins Chicago

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-28S

Lab Sample ID: 500-233874-4

Date Collected: 05/15/23 14:05

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 12:33	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 12:33	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 12:33	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 12:33	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 12:33	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 12:33	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 12:33	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 12:33	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 12:33	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 12:33	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 12:33	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 12:33	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 12:33	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 12:33	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100	^c	72 - 124		05/23/23 12:33	1
Dibromofluoromethane (Surr)	111		75 - 120		05/23/23 12:33	1
1,2-Dichloroethane-d4 (Surr)	122		75 - 126		05/23/23 12:33	1
Toluene-d8 (Surr)	101		75 - 120		05/23/23 12:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	196.83				ft			05/15/23 14:05	1
Field Color	N				NONE			05/15/23 14:05	1
Field Conductivity	651				uS/cm			05/15/23 14:05	1
Field Odor	N				NONE			05/15/23 14:05	1
Field pH	7.04				SU			05/15/23 14:05	1
Field Temperature	10.6				Degrees C			05/15/23 14:05	1
Field Turbidity	N				NONE			05/15/23 14:05	1
Groundwater Elevation (ft MSL)	927.5				ft			05/15/23 14:05	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-27D

Lab Sample ID: 500-233874-5

Date Collected: 05/15/23 15:22

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 12:58	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 12:58	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 12:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 12:58	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 12:58	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 12:58	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 12:58	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 12:58	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 12:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 12:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 12:58	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 12:58	1
Chloroform	<0.37		2.0	0.37	ug/L			05/23/23 12:58	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 12:58	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 12:58	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 12:58	1
cis-1,2-Dichloroethene	1.4		1.0	0.41	ug/L			05/23/23 12:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 12:58	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 12:58	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 12:58	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 12:58	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 12:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 12:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 12:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 12:58	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 12:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 12:58	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 12:58	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 12:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 12:58	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 12:58	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 12:58	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 12:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 12:58	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 12:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 12:58	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 12:58	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 12:58	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 12:58	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 12:58	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 12:58	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 12:58	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 12:58	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 12:58	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 12:58	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 12:58	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 12:58	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 12:58	1
Tetrachloroethene	14	^c *	1.0	0.37	ug/L			05/23/23 12:58	1

Eurofins Chicago

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-27D

Lab Sample ID: 500-233874-5

Date Collected: 05/15/23 15:22

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 12:58	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 12:58	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 12:58	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 12:58	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 12:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 12:58	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 12:58	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 12:58	1
Trichloroethene	2.9		0.50	0.16	ug/L			05/23/23 12:58	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 12:58	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 12:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 12:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 12:58	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 12:58	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105	^c	72 - 124		05/23/23 12:58	1
Dibromofluoromethane (Surr)	109		75 - 120		05/23/23 12:58	1
1,2-Dichloroethane-d4 (Surr)	124		75 - 126		05/23/23 12:58	1
Toluene-d8 (Surr)	99		75 - 120		05/23/23 12:58	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	172.39				ft			05/15/23 15:22	1
Field Color	N				NONE			05/15/23 15:22	1
Field Conductivity	892				uS/cm			05/15/23 15:22	1
Field Odor	N				NONE			05/15/23 15:22	1
Field pH	6.81				SU			05/15/23 15:22	1
Field Temperature	12.3				Degrees C			05/15/23 15:22	1
Field Turbidity	N				NONE			05/15/23 15:22	1
Groundwater Elevation (ft MSL)	923.17				ft			05/15/23 15:22	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-27S

Lab Sample ID: 500-233874-6

Date Collected: 05/15/23 15:40

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 13:23	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 13:23	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 13:23	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 13:23	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 13:23	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 13:23	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 13:23	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 13:23	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 13:23	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 13:23	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 13:23	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 13:23	1
Chloroform	<0.37		2.0	0.37	ug/L			05/23/23 13:23	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 13:23	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 13:23	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 13:23	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 13:23	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 13:23	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 13:23	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 13:23	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 13:23	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 13:23	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 13:23	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 13:23	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 13:23	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 13:23	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 13:23	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 13:23	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 13:23	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 13:23	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 13:23	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 13:23	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 13:23	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 13:23	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 13:23	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 13:23	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 13:23	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 13:23	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 13:23	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 13:23	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 13:23	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 13:23	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 13:23	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 13:23	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 13:23	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 13:23	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 13:23	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 13:23	1
Tetrachloroethene	2.9	^c *	1.0	0.37	ug/L			05/23/23 13:23	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-27S

Lab Sample ID: 500-233874-6

Date Collected: 05/15/23 15:40

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 13:23	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 13:23	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 13:23	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 13:23	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 13:23	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 13:23	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 13:23	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 13:23	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 13:23	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 13:23	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 13:23	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 13:23	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 13:23	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 13:23	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107	^c	72 - 124		05/23/23 13:23	1
Dibromofluoromethane (Surr)	113		75 - 120		05/23/23 13:23	1
1,2-Dichloroethane-d4 (Surr)	122		75 - 126		05/23/23 13:23	1
Toluene-d8 (Surr)	100		75 - 120		05/23/23 13:23	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	171.82				ft			05/15/23 15:40	1
Field Color	Y				NONE			05/15/23 15:40	1
Field Conductivity	884				uS/cm			05/15/23 15:40	1
Field Odor	N				NONE			05/15/23 15:40	1
Field pH	6.73				SU			05/15/23 15:40	1
Field Temperature	11.4				Degrees C			05/15/23 15:40	1
Field Turbidity	Y				NONE			05/15/23 15:40	1
Groundwater Elevation (ft MSL)	923.41				ft			05/15/23 15:40	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-29S

Lab Sample ID: 500-233874-7

Date Collected: 05/15/23 16:35

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 13:47	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 13:47	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 13:47	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 13:47	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 13:47	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 13:47	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 13:47	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 13:47	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 13:47	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 13:47	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 13:47	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 13:47	1
Chloroform	0.57	J B	2.0	0.37	ug/L			05/23/23 13:47	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 13:47	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 13:47	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 13:47	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 13:47	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 13:47	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 13:47	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 13:47	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 13:47	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 13:47	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 13:47	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 13:47	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 13:47	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 13:47	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 13:47	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 13:47	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 13:47	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 13:47	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 13:47	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 13:47	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 13:47	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 13:47	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 13:47	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 13:47	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 13:47	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 13:47	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 13:47	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 13:47	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 13:47	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 13:47	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 13:47	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 13:47	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 13:47	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 13:47	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 13:47	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 13:47	1
Tetrachloroethene	<0.37	^c *	1.0	0.37	ug/L			05/23/23 13:47	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-29S

Lab Sample ID: 500-233874-7

Date Collected: 05/15/23 16:35

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 13:47	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 13:47	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 13:47	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 13:47	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 13:47	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 13:47	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 13:47	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 13:47	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 13:47	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 13:47	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 13:47	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 13:47	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 13:47	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 13:47	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109	^c	72 - 124		05/23/23 13:47	1
Dibromofluoromethane (Surr)	104		75 - 120		05/23/23 13:47	1
1,2-Dichloroethane-d4 (Surr)	118		75 - 126		05/23/23 13:47	1
Toluene-d8 (Surr)	108		75 - 120		05/23/23 13:47	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	234.95				ft			05/15/23 16:35	1
Field Color	Y				NONE			05/15/23 16:35	1
Field Conductivity	558				uS/cm			05/15/23 16:35	1
Field Odor	N				NONE			05/15/23 16:35	1
Field pH	7.39				SU			05/15/23 16:35	1
Field Temperature	10.3				Degrees C			05/15/23 16:35	1
Field Turbidity	Y				NONE			05/15/23 16:35	1
Groundwater Elevation (ft MSL)	928.15				ft			05/15/23 16:35	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-18S

Lab Sample ID: 500-233874-8

Date Collected: 05/15/23 19:00

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 14:12	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 14:12	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 14:12	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 14:12	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 14:12	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 14:12	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 14:12	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 14:12	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 14:12	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 14:12	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 14:12	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 14:12	1
Chloroform	0.58	J B	2.0	0.37	ug/L			05/23/23 14:12	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 14:12	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 14:12	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 14:12	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 14:12	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 14:12	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 14:12	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 14:12	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 14:12	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 14:12	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 14:12	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 14:12	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 14:12	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 14:12	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 14:12	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 14:12	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 14:12	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 14:12	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 14:12	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 14:12	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 14:12	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 14:12	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 14:12	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 14:12	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 14:12	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 14:12	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 14:12	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 14:12	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 14:12	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 14:12	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 14:12	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 14:12	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 14:12	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 14:12	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 14:12	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 14:12	1
Tetrachloroethene	8.4	^c *	1.0	0.37	ug/L			05/23/23 14:12	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-18S

Lab Sample ID: 500-233874-8

Date Collected: 05/15/23 19:00

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 14:12	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 14:12	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 14:12	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 14:12	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 14:12	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 14:12	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 14:12	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 14:12	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 14:12	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 14:12	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 14:12	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 14:12	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 14:12	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 14:12	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105	^c	72 - 124		05/23/23 14:12	1
Dibromofluoromethane (Surr)	105		75 - 120		05/23/23 14:12	1
1,2-Dichloroethane-d4 (Surr)	118		75 - 126		05/23/23 14:12	1
Toluene-d8 (Surr)	104		75 - 120		05/23/23 14:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	94.41				ft			05/15/23 19:00	1
Field Color	N				NONE			05/15/23 19:00	1
Field Conductivity	659				uS/cm			05/15/23 19:00	1
Field Odor	N				NONE			05/15/23 19:00	1
Field pH	7.18				SU			05/15/23 19:00	1
Field Temperature	10.9				Degrees C			05/15/23 19:00	1
Field Turbidity	N				NONE			05/15/23 19:00	1
Groundwater Elevation (ft MSL)	926.16				ft			05/15/23 19:00	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-41D

Lab Sample ID: 500-233874-9

Date Collected: 05/15/23 18:15

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 14:37	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 14:37	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 14:37	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 14:37	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 14:37	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 14:37	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 14:37	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 14:37	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 14:37	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 14:37	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 14:37	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 14:37	1
Chloroform	<0.37		2.0	0.37	ug/L			05/23/23 14:37	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 14:37	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 14:37	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 14:37	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 14:37	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 14:37	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 14:37	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 14:37	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 14:37	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 14:37	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 14:37	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 14:37	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 14:37	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 14:37	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 14:37	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 14:37	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 14:37	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 14:37	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 14:37	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 14:37	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 14:37	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 14:37	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 14:37	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 14:37	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 14:37	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 14:37	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 14:37	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 14:37	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 14:37	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 14:37	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 14:37	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 14:37	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 14:37	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 14:37	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 14:37	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 14:37	1
Tetrachloroethene	<0.37	^c *	1.0	0.37	ug/L			05/23/23 14:37	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-41D

Lab Sample ID: 500-233874-9

Date Collected: 05/15/23 18:15

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 14:37	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 14:37	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 14:37	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 14:37	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 14:37	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 14:37	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 14:37	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 14:37	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 14:37	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 14:37	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 14:37	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 14:37	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 14:37	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 14:37	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109	^c	72 - 124		05/23/23 14:37	1
Dibromofluoromethane (Surr)	114		75 - 120		05/23/23 14:37	1
1,2-Dichloroethane-d4 (Surr)	125		75 - 126		05/23/23 14:37	1
Toluene-d8 (Surr)	100		75 - 120		05/23/23 14:37	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	13.79				ft			05/15/23 18:15	1
Field Color	N				NONE			05/15/23 18:15	1
Field Conductivity	689				uS/cm			05/15/23 18:15	1
Field Odor	N				NONE			05/15/23 18:15	1
Field pH	7.23				SU			05/15/23 18:15	1
Field Temperature	9.5				Degrees C			05/15/23 18:15	1
Field Turbidity	N				NONE			05/15/23 18:15	1
Groundwater Elevation (ft MSL)	911.03				ft			05/15/23 18:15	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: 4610 Rocky Dell Rd

Lab Sample ID: 500-233874-10

Date Collected: 05/15/23 16:52

Matrix: Water

Date Received: 05/17/23 10:00

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/24/23 03:44	1
Chlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
cis-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
1,2-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
1,4-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
1,2-Dichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
1,1-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
1,2-Dichloropropane	<0.20		0.25	0.20	ug/L			05/24/23 03:44	1
Ethylbenzene	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
Methylene Chloride	<0.40		0.50	0.40	ug/L			05/24/23 03:44	1
m-Xylene & p-Xylene	<0.50		0.50	0.50	ug/L			05/24/23 03:44	1
o-Xylene	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
Styrene	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
Toluene	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
trans-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
1,2,4-Trichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
1,1,1-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
1,1,2-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
Trichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 03:44	1
Vinyl chloride	<0.20		0.20	0.20	ug/L			05/24/23 03:44	1
Xylenes, Total	<0.50		0.50	0.50	ug/L			05/24/23 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130		05/24/23 03:44	1
1,2-Dichlorobenzene-d4 (Surr)	93		70 - 130		05/24/23 03:44	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		05/24/23 03:44	1
Toluene-d8 (Surr)	99		70 - 130		05/24/23 03:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Field Color	N				NONE			05/15/23 16:52	1
Field Conductivity	775				uS/cm			05/15/23 16:52	1
Field Odor	N				NONE			05/15/23 16:52	1
Field pH	7.21				SU			05/15/23 16:52	1
Field Temperature	12.3				Degrees C			05/15/23 16:52	1
Field Turbidity	N				NONE			05/15/23 16:52	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: TB-1

Lab Sample ID: 500-233874-11

Date Collected: 05/15/23 08:00

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 15:02	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 15:02	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 15:02	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 15:02	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 15:02	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 15:02	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 15:02	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 15:02	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 15:02	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 15:02	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 15:02	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 15:02	1
Chloroform	<0.37		2.0	0.37	ug/L			05/23/23 15:02	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 15:02	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 15:02	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 15:02	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 15:02	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 15:02	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 15:02	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 15:02	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 15:02	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 15:02	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 15:02	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 15:02	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 15:02	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 15:02	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 15:02	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 15:02	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 15:02	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 15:02	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 15:02	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 15:02	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 15:02	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 15:02	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 15:02	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 15:02	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 15:02	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 15:02	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 15:02	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 15:02	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 15:02	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 15:02	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 15:02	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 15:02	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 15:02	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 15:02	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 15:02	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 15:02	1
Tetrachloroethene	<0.37	^c *	1.0	0.37	ug/L			05/23/23 15:02	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: TB-1

Lab Sample ID: 500-233874-11

Date Collected: 05/15/23 08:00

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 15:02	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 15:02	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 15:02	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 15:02	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 15:02	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 15:02	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 15:02	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 15:02	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 15:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 15:02	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 15:02	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 15:02	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 15:02	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 15:02	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105	^c	72 - 124		05/23/23 15:02	1
Dibromofluoromethane (Surr)	105		75 - 120		05/23/23 15:02	1
1,2-Dichloroethane-d4 (Surr)	121		75 - 126		05/23/23 15:02	1
Toluene-d8 (Surr)	105		75 - 120		05/23/23 15:02	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-43S

Lab Sample ID: 500-233874-12

Date Collected: 05/16/23 07:50

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 15:26	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 15:26	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 15:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 15:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 15:26	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 15:26	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 15:26	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 15:26	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 15:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 15:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 15:26	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 15:26	1
Chloroform	<0.37		2.0	0.37	ug/L			05/23/23 15:26	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 15:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 15:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 15:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 15:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 15:26	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 15:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 15:26	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 15:26	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 15:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 15:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 15:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 15:26	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 15:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 15:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 15:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 15:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 15:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 15:26	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 15:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 15:26	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 15:26	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 15:26	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 15:26	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 15:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 15:26	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 15:26	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 15:26	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 15:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 15:26	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 15:26	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 15:26	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 15:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 15:26	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 15:26	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 15:26	1
Tetrachloroethene	<0.37	^c *	1.0	0.37	ug/L			05/23/23 15:26	1

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Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-43S

Lab Sample ID: 500-233874-12

Date Collected: 05/16/23 07:50

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 15:26	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 15:26	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 15:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 15:26	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 15:26	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 15:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 15:26	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 15:26	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 15:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 15:26	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 15:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 15:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 15:26	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 15:26	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	^c	72 - 124		05/23/23 15:26	1
Dibromofluoromethane (Surr)	116		75 - 120		05/23/23 15:26	1
1,2-Dichloroethane-d4 (Surr)	126		75 - 126		05/23/23 15:26	1
Toluene-d8 (Surr)	99		75 - 120		05/23/23 15:26	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	189.96				ft			05/16/23 07:50	1
Field Color	N				NONE			05/16/23 07:50	1
Field Conductivity	585				uS/cm			05/16/23 07:50	1
Field Odor	N				NONE			05/16/23 07:50	1
Field pH	7.3				SU			05/16/23 07:50	1
Field Temperature	9.6				Degrees C			05/16/23 07:50	1
Field Turbidity	N				NONE			05/16/23 07:50	1
Groundwater Elevation (ft MSL)	920.64				ft			05/16/23 07:50	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-431

Lab Sample ID: 500-233874-13

Date Collected: 05/16/23 07:55

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 15:51	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 15:51	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 15:51	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 15:51	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 15:51	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 15:51	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 15:51	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 15:51	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 15:51	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 15:51	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 15:51	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 15:51	1
Chloroform	0.54	J B	2.0	0.37	ug/L			05/23/23 15:51	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 15:51	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 15:51	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 15:51	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 15:51	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 15:51	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 15:51	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 15:51	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 15:51	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 15:51	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 15:51	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 15:51	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 15:51	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 15:51	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 15:51	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 15:51	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 15:51	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 15:51	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 15:51	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 15:51	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 15:51	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 15:51	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 15:51	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 15:51	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 15:51	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 15:51	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 15:51	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 15:51	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 15:51	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 15:51	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 15:51	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 15:51	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 15:51	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 15:51	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 15:51	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 15:51	1
Tetrachloroethene	<0.37	^c *	1.0	0.37	ug/L			05/23/23 15:51	1

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Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-43I

Lab Sample ID: 500-233874-13

Date Collected: 05/16/23 07:55

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 15:51	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 15:51	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 15:51	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 15:51	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 15:51	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 15:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 15:51	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 15:51	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 15:51	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 15:51	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 15:51	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 15:51	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 15:51	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 15:51	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108	^c	72 - 124		05/23/23 15:51	1
Dibromofluoromethane (Surr)	109		75 - 120		05/23/23 15:51	1
1,2-Dichloroethane-d4 (Surr)	121		75 - 126		05/23/23 15:51	1
Toluene-d8 (Surr)	102		75 - 120		05/23/23 15:51	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	189.7				ft			05/16/23 07:55	1
Field Color	N				NONE			05/16/23 07:55	1
Field Conductivity	702				uS/cm			05/16/23 07:55	1
Field Odor	N				NONE			05/16/23 07:55	1
Field pH	7.18				SU			05/16/23 07:55	1
Field Temperature	10.3				Degrees C			05/16/23 07:55	1
Field Turbidity	N				NONE			05/16/23 07:55	1
Groundwater Elevation (ft MSL)	920.54				ft			05/16/23 07:55	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-43D

Lab Sample ID: 500-233874-14

Date Collected: 05/16/23 08:20

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 16:16	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 16:16	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 16:16	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 16:16	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 16:16	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 16:16	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 16:16	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 16:16	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 16:16	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 16:16	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 16:16	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 16:16	1
Chloroform	0.52	J B	2.0	0.37	ug/L			05/23/23 16:16	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 16:16	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 16:16	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 16:16	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 16:16	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 16:16	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 16:16	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 16:16	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 16:16	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 16:16	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 16:16	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 16:16	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 16:16	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 16:16	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 16:16	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 16:16	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 16:16	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 16:16	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 16:16	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 16:16	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 16:16	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 16:16	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 16:16	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 16:16	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 16:16	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 16:16	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 16:16	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 16:16	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 16:16	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 16:16	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 16:16	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 16:16	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 16:16	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 16:16	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 16:16	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 16:16	1
Tetrachloroethene	<0.37	^c *	1.0	0.37	ug/L			05/23/23 16:16	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-43D

Lab Sample ID: 500-233874-14

Date Collected: 05/16/23 08:20

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 16:16	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 16:16	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 16:16	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 16:16	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 16:16	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 16:16	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 16:16	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 16:16	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 16:16	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 16:16	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 16:16	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 16:16	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 16:16	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 16:16	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109	^c	72 - 124		05/23/23 16:16	1
Dibromofluoromethane (Surr)	116		75 - 120		05/23/23 16:16	1
1,2-Dichloroethane-d4 (Surr)	124		75 - 126		05/23/23 16:16	1
Toluene-d8 (Surr)	98		75 - 120		05/23/23 16:16	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	189.27				ft			05/16/23 08:20	1
Field Color	N				NONE			05/16/23 08:20	1
Field Conductivity	627				uS/cm			05/16/23 08:20	1
Field Odor	N				NONE			05/16/23 08:20	1
Field pH	7.4				SU			05/16/23 08:20	1
Field Temperature	10.4				Degrees C			05/16/23 08:20	1
Field Turbidity	N				NONE			05/16/23 08:20	1
Groundwater Elevation (ft MSL)	920.65				ft			05/16/23 08:20	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: FD-1

Lab Sample ID: 500-233874-15

Date Collected: 05/16/23 07:52

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 16:40	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 16:40	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 16:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 16:40	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 16:40	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 16:40	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 16:40	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 16:40	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 16:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 16:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 16:40	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 16:40	1
Chloroform	<0.37		2.0	0.37	ug/L			05/23/23 16:40	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 16:40	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 16:40	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 16:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 16:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 16:40	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 16:40	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 16:40	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 16:40	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 16:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 16:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 16:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 16:40	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 16:40	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 16:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 16:40	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 16:40	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 16:40	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 16:40	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 16:40	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 16:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 16:40	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 16:40	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 16:40	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 16:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 16:40	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 16:40	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 16:40	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 16:40	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 16:40	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 16:40	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 16:40	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 16:40	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 16:40	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 16:40	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 16:40	1
Tetrachloroethene	<0.37	^c *	1.0	0.37	ug/L			05/23/23 16:40	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: FD-1

Lab Sample ID: 500-233874-15

Date Collected: 05/16/23 07:52

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 16:40	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 16:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 16:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 16:40	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 16:40	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 16:40	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 16:40	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 16:40	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 16:40	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 16:40	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 16:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 16:40	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 16:40	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 16:40	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107	^c	72 - 124					05/23/23 16:40	1
Dibromofluoromethane (Surr)	107		75 - 120					05/23/23 16:40	1
1,2-Dichloroethane-d4 (Surr)	119		75 - 126					05/23/23 16:40	1
Toluene-d8 (Surr)	105		75 - 120					05/23/23 16:40	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-22S

Lab Sample ID: 500-233874-16

Date Collected: 05/16/23 09:08

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 17:05	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 17:05	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 17:05	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 17:05	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 17:05	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 17:05	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 17:05	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 17:05	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 17:05	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 17:05	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 17:05	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 17:05	1
Chloroform	<0.37		2.0	0.37	ug/L			05/23/23 17:05	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 17:05	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 17:05	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 17:05	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 17:05	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 17:05	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 17:05	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 17:05	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 17:05	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 17:05	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 17:05	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 17:05	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 17:05	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 17:05	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 17:05	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 17:05	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 17:05	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 17:05	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 17:05	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 17:05	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 17:05	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 17:05	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 17:05	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 17:05	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 17:05	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 17:05	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 17:05	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 17:05	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 17:05	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 17:05	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 17:05	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 17:05	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 17:05	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 17:05	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 17:05	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 17:05	1
Tetrachloroethene	<0.37	^c *	1.0	0.37	ug/L			05/23/23 17:05	1

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Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-22S

Lab Sample ID: 500-233874-16

Date Collected: 05/16/23 09:08

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 17:05	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 17:05	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 17:05	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 17:05	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 17:05	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 17:05	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 17:05	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 17:05	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 17:05	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 17:05	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 17:05	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 17:05	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 17:05	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 17:05	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104	^c	72 - 124		05/23/23 17:05	1
Dibromofluoromethane (Surr)	103		75 - 120		05/23/23 17:05	1
1,2-Dichloroethane-d4 (Surr)	120		75 - 126		05/23/23 17:05	1
Toluene-d8 (Surr)	105		75 - 120		05/23/23 17:05	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	170.28				ft			05/16/23 09:08	1
Field Color	N				NONE			05/16/23 09:08	1
Field Conductivity	681				uS/cm			05/16/23 09:08	1
Field Odor	N				NONE			05/16/23 09:08	1
Field pH	7.48				SU			05/16/23 09:08	1
Field Temperature	10.7				Degrees C			05/16/23 09:08	1
Field Turbidity	N				NONE			05/16/23 09:08	1
Groundwater Elevation (ft MSL)	917.92				ft			05/16/23 09:08	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-22E

Lab Sample ID: 500-233874-17

Date Collected: 05/16/23 09:25

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 17:30	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 17:30	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 17:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 17:30	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 17:30	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 17:30	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 17:30	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 17:30	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 17:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 17:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 17:30	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 17:30	1
Chloroform	<0.37		2.0	0.37	ug/L			05/23/23 17:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 17:30	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 17:30	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 17:30	1
cis-1,2-Dichloroethene	2.4		1.0	0.41	ug/L			05/23/23 17:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 17:30	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 17:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 17:30	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 17:30	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 17:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 17:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 17:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 17:30	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 17:30	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 17:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 17:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 17:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 17:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 17:30	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 17:30	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 17:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 17:30	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 17:30	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 17:30	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 17:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 17:30	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 17:30	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 17:30	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 17:30	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 17:30	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 17:30	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 17:30	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 17:30	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 17:30	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 17:30	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 17:30	1
Tetrachloroethene	4.9	^c *	1.0	0.37	ug/L			05/23/23 17:30	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-22E

Lab Sample ID: 500-233874-17

Date Collected: 05/16/23 09:25

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 17:30	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 17:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 17:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 17:30	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 17:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 17:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 17:30	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 17:30	1
Trichloroethene	1.5		0.50	0.16	ug/L			05/23/23 17:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 17:30	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 17:30	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 17:30	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 17:30	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 17:30	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104	^c	72 - 124		05/23/23 17:30	1
Dibromofluoromethane (Surr)	106		75 - 120		05/23/23 17:30	1
1,2-Dichloroethane-d4 (Surr)	118		75 - 126		05/23/23 17:30	1
Toluene-d8 (Surr)	103		75 - 120		05/23/23 17:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	172.13				ft			05/16/23 09:25	1
Field Color	N				NONE			05/16/23 09:25	1
Field Conductivity	531				uS/cm			05/16/23 09:25	1
Field Odor	N				NONE			05/16/23 09:25	1
Field pH	7.16				SU			05/16/23 09:25	1
Field Temperature	17.5				Degrees C			05/16/23 09:25	1
Field Turbidity	N				NONE			05/16/23 09:25	1
Groundwater Elevation (ft MSL)	917.59				ft			05/16/23 09:25	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-22D

Lab Sample ID: 500-233874-18

Date Collected: 05/16/23 09:40

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 17:54	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 17:54	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 17:54	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 17:54	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 17:54	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 17:54	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 17:54	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 17:54	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 17:54	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 17:54	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 17:54	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 17:54	1
Chloroform	<0.37		2.0	0.37	ug/L			05/23/23 17:54	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 17:54	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 17:54	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 17:54	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 17:54	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 17:54	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 17:54	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 17:54	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 17:54	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 17:54	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 17:54	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 17:54	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 17:54	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 17:54	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 17:54	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 17:54	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 17:54	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 17:54	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 17:54	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 17:54	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 17:54	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 17:54	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 17:54	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 17:54	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 17:54	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 17:54	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 17:54	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 17:54	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 17:54	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 17:54	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 17:54	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 17:54	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 17:54	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 17:54	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 17:54	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 17:54	1
Tetrachloroethene	<0.37	^c *	1.0	0.37	ug/L			05/23/23 17:54	1

Eurofins Chicago

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-22D

Lab Sample ID: 500-233874-18

Date Collected: 05/16/23 09:40

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 17:54	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 17:54	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 17:54	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 17:54	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 17:54	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 17:54	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 17:54	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 17:54	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 17:54	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 17:54	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 17:54	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 17:54	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 17:54	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 17:54	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106	^c	72 - 124		05/23/23 17:54	1
Dibromofluoromethane (Surr)	103		75 - 120		05/23/23 17:54	1
1,2-Dichloroethane-d4 (Surr)	116		75 - 126		05/23/23 17:54	1
Toluene-d8 (Surr)	105		75 - 120		05/23/23 17:54	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	171.32				ft			05/16/23 09:40	1
Field Color	Y				NONE			05/16/23 09:40	1
Field Conductivity	681				uS/cm			05/16/23 09:40	1
Field Odor	N				NONE			05/16/23 09:40	1
Field pH	7.29				SU			05/16/23 09:40	1
Field Temperature	12.1				Degrees C			05/16/23 09:40	1
Field Turbidity	N				NONE			05/16/23 09:40	1
Groundwater Elevation (ft MSL)	917.62				ft			05/16/23 09:40	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-40D

Lab Sample ID: 500-233874-19

Date Collected: 05/16/23 10:18

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 18:18	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 18:18	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 18:18	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 18:18	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 18:18	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 18:18	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 18:18	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 18:18	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 18:18	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 18:18	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 18:18	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 18:18	1
Chloroform	<0.37		2.0	0.37	ug/L			05/23/23 18:18	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 18:18	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 18:18	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 18:18	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 18:18	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 18:18	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 18:18	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 18:18	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 18:18	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 18:18	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 18:18	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 18:18	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 18:18	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 18:18	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 18:18	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 18:18	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 18:18	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 18:18	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 18:18	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 18:18	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 18:18	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 18:18	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 18:18	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 18:18	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 18:18	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 18:18	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 18:18	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 18:18	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 18:18	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 18:18	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 18:18	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 18:18	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 18:18	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 18:18	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 18:18	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 18:18	1
Tetrachloroethene	0.78	J ^c *	1.0	0.37	ug/L			05/23/23 18:18	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-40D
Date Collected: 05/16/23 10:18
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-19
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 18:18	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 18:18	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 18:18	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 18:18	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 18:18	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 18:18	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 18:18	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 18:18	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 18:18	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 18:18	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 18:18	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 18:18	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 18:18	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 18:18	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98	^c	72 - 124					05/23/23 18:18	1
Dibromofluoromethane (Surr)	118		75 - 120					05/23/23 18:18	1
1,2-Dichloroethane-d4 (Surr)	126		75 - 126					05/23/23 18:18	1
Toluene-d8 (Surr)	100		75 - 120					05/23/23 18:18	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-401
Date Collected: 05/16/23 10:20
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-20
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 18:43	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 18:43	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 18:43	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 18:43	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 18:43	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 18:43	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 18:43	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 18:43	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 18:43	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 18:43	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 18:43	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 18:43	1
Chloroform	<0.37		2.0	0.37	ug/L			05/23/23 18:43	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 18:43	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 18:43	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 18:43	1
cis-1,2-Dichloroethene	1.1		1.0	0.41	ug/L			05/23/23 18:43	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 18:43	1
Dibromochloromethane	<0.49	^c *	1.0	0.49	ug/L			05/23/23 18:43	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 18:43	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 18:43	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 18:43	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 18:43	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 18:43	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 18:43	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 18:43	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 18:43	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 18:43	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 18:43	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 18:43	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 18:43	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 18:43	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 18:43	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 18:43	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 18:43	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 18:43	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 18:43	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 18:43	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 18:43	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 18:43	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 18:43	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 18:43	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 18:43	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 18:43	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 18:43	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 18:43	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 18:43	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 18:43	1
Tetrachloroethene	3.7	^c *	1.0	0.37	ug/L			05/23/23 18:43	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-40I
Date Collected: 05/16/23 10:20
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-20
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 18:43	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 18:43	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 18:43	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 18:43	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 18:43	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 18:43	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 18:43	1
1,1,2-Trichloroethane	<0.35	^c *	1.0	0.35	ug/L			05/23/23 18:43	1
Trichloroethene	0.95		0.50	0.16	ug/L			05/23/23 18:43	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 18:43	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 18:43	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 18:43	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 18:43	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 18:43	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100	^c	72 - 124					05/23/23 18:43	1
Dibromofluoromethane (Surr)	112		75 - 120					05/23/23 18:43	1
1,2-Dichloroethane-d4 (Surr)	122		75 - 126					05/23/23 18:43	1
Toluene-d8 (Surr)	99		75 - 120					05/23/23 18:43	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-25S
Date Collected: 05/16/23 11:12
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-21
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7	^c	10	1.7	ug/L			05/23/23 19:07	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 19:07	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 19:07	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 19:07	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 19:07	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/23/23 19:07	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 19:07	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 19:07	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 19:07	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 19:07	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 19:07	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/23/23 19:07	1
Chloroform	<0.37		2.0	0.37	ug/L			05/23/23 19:07	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 19:07	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 19:07	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 19:07	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 19:07	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 19:07	1
Dibromochloromethane	<0.49	^c * F1	1.0	0.49	ug/L			05/23/23 19:07	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 19:07	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 19:07	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 19:07	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/23/23 19:07	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 19:07	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 19:07	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 19:07	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 19:07	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 19:07	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 19:07	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 19:07	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 19:07	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 19:07	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 19:07	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 19:07	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/23/23 19:07	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 19:07	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/23/23 19:07	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/23/23 19:07	1
Methyl tert-butyl ether	<0.39	^c	1.0	0.39	ug/L			05/23/23 19:07	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/23/23 19:07	1
n-Butylbenzene	<0.39	^c	1.0	0.39	ug/L			05/23/23 19:07	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 19:07	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 19:07	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 19:07	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 19:07	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 19:07	1
1,1,1,2-Tetrachloroethane	<0.46	^c	1.0	0.46	ug/L			05/23/23 19:07	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 19:07	1
Tetrachloroethene	<0.37	^c * F1	1.0	0.37	ug/L			05/23/23 19:07	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-25S

Lab Sample ID: 500-233874-21

Date Collected: 05/16/23 11:12

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9	^c	10	1.9	ug/L			05/23/23 19:07	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 19:07	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 19:07	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 19:07	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 19:07	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 19:07	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 19:07	1
1,1,2-Trichloroethane	<0.35	^c * F1	1.0	0.35	ug/L			05/23/23 19:07	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 19:07	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 19:07	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 19:07	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 19:07	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 19:07	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 19:07	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105	^c	72 - 124		05/23/23 19:07	1
Dibromofluoromethane (Surr)	106		75 - 120		05/23/23 19:07	1
1,2-Dichloroethane-d4 (Surr)	124		75 - 126		05/23/23 19:07	1
Toluene-d8 (Surr)	103		75 - 120		05/23/23 19:07	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	19.26				ft			05/16/23 11:12	1
Field Color	N				NONE			05/16/23 11:12	1
Field Conductivity	920				uS/cm			05/16/23 11:12	1
Field Odor	N				NONE			05/16/23 11:12	1
Field pH	7.0				SU			05/16/23 11:12	1
Field Temperature	10.6				Degrees C			05/16/23 11:12	1
Field Turbidity	N				NONE			05/16/23 11:12	1
Groundwater Elevation (ft MSL)	923.88				ft			05/16/23 11:12	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-25BR

Lab Sample ID: 500-233874-22

Date Collected: 05/16/23 11:15

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/24/23 14:09	1
Benzene	<0.15		0.50	0.15	ug/L			05/24/23 14:09	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/24/23 14:09	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/24/23 14:09	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/24/23 14:09	1
Bromoform	<0.48		1.0	0.48	ug/L			05/24/23 14:09	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/24/23 14:09	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/24/23 14:09	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/24/23 14:09	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/24/23 14:09	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/24/23 14:09	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/24/23 14:09	1
Chloroform	<0.37		2.0	0.37	ug/L			05/24/23 14:09	1
Chloromethane	<0.32	^c	1.0	0.32	ug/L			05/24/23 14:09	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/24/23 14:09	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/24/23 14:09	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/24/23 14:09	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/24/23 14:09	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/24/23 14:09	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/24/23 14:09	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/24/23 14:09	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/24/23 14:09	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/24/23 14:09	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/24/23 14:09	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/24/23 14:09	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/24/23 14:09	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/24/23 14:09	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/24/23 14:09	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/24/23 14:09	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/24/23 14:09	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/24/23 14:09	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/24/23 14:09	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/24/23 14:09	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/24/23 14:09	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/24/23 14:09	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/24/23 14:09	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/24/23 14:09	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/24/23 14:09	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/24/23 14:09	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/24/23 14:09	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/24/23 14:09	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/24/23 14:09	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/24/23 14:09	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/24/23 14:09	1
Styrene	<0.39		1.0	0.39	ug/L			05/24/23 14:09	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/24/23 14:09	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/24/23 14:09	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/24/23 14:09	1
Tetrachloroethene	1.2		1.0	0.37	ug/L			05/24/23 14:09	1

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Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-25BR

Lab Sample ID: 500-233874-22

Date Collected: 05/16/23 11:15

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/24/23 14:09	1
Toluene	<0.15		0.50	0.15	ug/L			05/24/23 14:09	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/24/23 14:09	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/24/23 14:09	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/24/23 14:09	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/24/23 14:09	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/24/23 14:09	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/24/23 14:09	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/24/23 14:09	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/24/23 14:09	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/24/23 14:09	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/24/23 14:09	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/24/23 14:09	1
Vinyl chloride	<0.20	* ^c	1.0	0.20	ug/L			05/24/23 14:09	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/24/23 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124		05/24/23 14:09	1
Dibromofluoromethane (Surr)	94		75 - 120		05/24/23 14:09	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 126		05/24/23 14:09	1
Toluene-d8 (Surr)	90		75 - 120		05/24/23 14:09	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	23.08				ft			05/16/23 11:15	1
Field Color	N				NONE			05/16/23 11:15	1
Field Conductivity	697				uS/cm			05/16/23 11:15	1
Field Odor	N				NONE			05/16/23 11:15	1
Field pH	7.19				SU			05/16/23 11:15	1
Field Temperature	11.8				Degrees C			05/16/23 11:15	1
Field Turbidity	N				NONE			05/16/23 11:15	1
Groundwater Elevation (ft MSL)	920.19				ft			05/16/23 11:15	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-25D

Lab Sample ID: 500-233874-23

Date Collected: 05/16/23 11:11

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/24/23 14:34	1
Benzene	<0.15		0.50	0.15	ug/L			05/24/23 14:34	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/24/23 14:34	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/24/23 14:34	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/24/23 14:34	1
Bromoform	<0.48		1.0	0.48	ug/L			05/24/23 14:34	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/24/23 14:34	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/24/23 14:34	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/24/23 14:34	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/24/23 14:34	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/24/23 14:34	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/24/23 14:34	1
Chloroform	<0.37		2.0	0.37	ug/L			05/24/23 14:34	1
Chloromethane	<0.32	^c	1.0	0.32	ug/L			05/24/23 14:34	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/24/23 14:34	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/24/23 14:34	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/24/23 14:34	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/24/23 14:34	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/24/23 14:34	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/24/23 14:34	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/24/23 14:34	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/24/23 14:34	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/24/23 14:34	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/24/23 14:34	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/24/23 14:34	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/24/23 14:34	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/24/23 14:34	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/24/23 14:34	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/24/23 14:34	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/24/23 14:34	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/24/23 14:34	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/24/23 14:34	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/24/23 14:34	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/24/23 14:34	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/24/23 14:34	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/24/23 14:34	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/24/23 14:34	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/24/23 14:34	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/24/23 14:34	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/24/23 14:34	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/24/23 14:34	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/24/23 14:34	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/24/23 14:34	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/24/23 14:34	1
Styrene	<0.39		1.0	0.39	ug/L			05/24/23 14:34	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/24/23 14:34	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/24/23 14:34	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/24/23 14:34	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/24/23 14:34	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-25D

Lab Sample ID: 500-233874-23

Date Collected: 05/16/23 11:11

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/24/23 14:34	1
Toluene	<0.15		0.50	0.15	ug/L			05/24/23 14:34	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/24/23 14:34	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/24/23 14:34	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/24/23 14:34	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/24/23 14:34	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/24/23 14:34	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/24/23 14:34	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/24/23 14:34	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/24/23 14:34	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/24/23 14:34	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/24/23 14:34	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/24/23 14:34	1
Vinyl chloride	<0.20	* ^c	1.0	0.20	ug/L			05/24/23 14:34	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/24/23 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		72 - 124		05/24/23 14:34	1
Dibromofluoromethane (Surr)	94		75 - 120		05/24/23 14:34	1
1,2-Dichloroethane-d4 (Surr)	102		75 - 126		05/24/23 14:34	1
Toluene-d8 (Surr)	92		75 - 120		05/24/23 14:34	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	24.0				ft			05/16/23 11:11	1
Field Color	N				NONE			05/16/23 11:11	1
Field Conductivity	549				uS/cm			05/16/23 11:11	1
Field Odor	N				NONE			05/16/23 11:11	1
Field pH	7.27				SU			05/16/23 11:11	1
Field Temperature	11.8				Degrees C			05/16/23 11:11	1
Field Turbidity	N				NONE			05/16/23 11:11	1
Groundwater Elevation (ft MSL)	919.81				ft			05/16/23 11:11	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: FD-2

Lab Sample ID: 500-233874-24

Date Collected: 05/16/23 11:14

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/24/23 14:58	1
Benzene	<0.15		0.50	0.15	ug/L			05/24/23 14:58	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/24/23 14:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/24/23 14:58	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/24/23 14:58	1
Bromoform	<0.48		1.0	0.48	ug/L			05/24/23 14:58	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/24/23 14:58	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/24/23 14:58	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/24/23 14:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/24/23 14:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/24/23 14:58	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/24/23 14:58	1
Chloroform	<0.37		2.0	0.37	ug/L			05/24/23 14:58	1
Chloromethane	<0.32	^c	1.0	0.32	ug/L			05/24/23 14:58	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/24/23 14:58	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/24/23 14:58	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/24/23 14:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/24/23 14:58	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/24/23 14:58	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/24/23 14:58	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/24/23 14:58	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/24/23 14:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/24/23 14:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/24/23 14:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/24/23 14:58	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/24/23 14:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/24/23 14:58	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/24/23 14:58	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/24/23 14:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/24/23 14:58	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/24/23 14:58	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/24/23 14:58	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/24/23 14:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/24/23 14:58	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/24/23 14:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/24/23 14:58	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/24/23 14:58	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/24/23 14:58	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/24/23 14:58	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/24/23 14:58	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/24/23 14:58	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/24/23 14:58	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/24/23 14:58	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/24/23 14:58	1
Styrene	<0.39		1.0	0.39	ug/L			05/24/23 14:58	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/24/23 14:58	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/24/23 14:58	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/24/23 14:58	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/24/23 14:58	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: FD-2

Lab Sample ID: 500-233874-24

Date Collected: 05/16/23 11:14

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/24/23 14:58	1
Toluene	<0.15		0.50	0.15	ug/L			05/24/23 14:58	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/24/23 14:58	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/24/23 14:58	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/24/23 14:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/24/23 14:58	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/24/23 14:58	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/24/23 14:58	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/24/23 14:58	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/24/23 14:58	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/24/23 14:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/24/23 14:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/24/23 14:58	1
Vinyl chloride	<0.20	* ^c	1.0	0.20	ug/L			05/24/23 14:58	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/24/23 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124		05/24/23 14:58	1
Dibromofluoromethane (Surr)	96		75 - 120		05/24/23 14:58	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 126		05/24/23 14:58	1
Toluene-d8 (Surr)	90		75 - 120		05/24/23 14:58	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-32S

Lab Sample ID: 500-233874-25

Date Collected: 05/16/23 11:55

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/24/23 15:22	1
Benzene	<0.15		0.50	0.15	ug/L			05/24/23 15:22	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/24/23 15:22	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/24/23 15:22	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/24/23 15:22	1
Bromoform	<0.48		1.0	0.48	ug/L			05/24/23 15:22	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/24/23 15:22	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/24/23 15:22	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/24/23 15:22	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/24/23 15:22	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/24/23 15:22	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/24/23 15:22	1
Chloroform	<0.37		2.0	0.37	ug/L			05/24/23 15:22	1
Chloromethane	<0.32	^c	1.0	0.32	ug/L			05/24/23 15:22	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/24/23 15:22	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/24/23 15:22	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/24/23 15:22	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/24/23 15:22	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/24/23 15:22	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/24/23 15:22	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/24/23 15:22	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/24/23 15:22	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/24/23 15:22	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/24/23 15:22	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/24/23 15:22	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/24/23 15:22	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/24/23 15:22	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/24/23 15:22	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/24/23 15:22	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/24/23 15:22	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/24/23 15:22	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/24/23 15:22	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/24/23 15:22	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/24/23 15:22	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/24/23 15:22	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/24/23 15:22	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/24/23 15:22	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/24/23 15:22	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/24/23 15:22	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/24/23 15:22	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/24/23 15:22	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/24/23 15:22	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/24/23 15:22	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/24/23 15:22	1
Styrene	<0.39		1.0	0.39	ug/L			05/24/23 15:22	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/24/23 15:22	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/24/23 15:22	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/24/23 15:22	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/24/23 15:22	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-32S

Lab Sample ID: 500-233874-25

Date Collected: 05/16/23 11:55

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/24/23 15:22	1
Toluene	<0.15		0.50	0.15	ug/L			05/24/23 15:22	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/24/23 15:22	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/24/23 15:22	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/24/23 15:22	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/24/23 15:22	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/24/23 15:22	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/24/23 15:22	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/24/23 15:22	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/24/23 15:22	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/24/23 15:22	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/24/23 15:22	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/24/23 15:22	1
Vinyl chloride	<0.20	* ^c	1.0	0.20	ug/L			05/24/23 15:22	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/24/23 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		72 - 124		05/24/23 15:22	1
Dibromofluoromethane (Surr)	95		75 - 120		05/24/23 15:22	1
1,2-Dichloroethane-d4 (Surr)	99		75 - 126		05/24/23 15:22	1
Toluene-d8 (Surr)	91		75 - 120		05/24/23 15:22	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	19				ft			05/16/23 11:55	1
Field Color	N				NONE			05/16/23 11:55	1
Field Conductivity	1353				uS/cm			05/16/23 11:55	1
Field Odor	N				NONE			05/16/23 11:55	1
Field pH	7.13				SU			05/16/23 11:55	1
Field Temperature	11.7				Degrees C			05/16/23 11:55	1
Field Turbidity	N				NONE			05/16/23 11:55	1
Groundwater Elevation (ft MSL)	924.73				ft			05/16/23 11:55	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-32D

Lab Sample ID: 500-233874-26

Date Collected: 05/16/23 12:00

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.1	J	10	1.7	ug/L			05/24/23 15:46	1
Benzene	<0.15		0.50	0.15	ug/L			05/24/23 15:46	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/24/23 15:46	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/24/23 15:46	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/24/23 15:46	1
Bromoform	<0.48		1.0	0.48	ug/L			05/24/23 15:46	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/24/23 15:46	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/24/23 15:46	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/24/23 15:46	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/24/23 15:46	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/24/23 15:46	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/24/23 15:46	1
Chloroform	<0.37		2.0	0.37	ug/L			05/24/23 15:46	1
Chloromethane	<0.32	^c	1.0	0.32	ug/L			05/24/23 15:46	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/24/23 15:46	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/24/23 15:46	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/24/23 15:46	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/24/23 15:46	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/24/23 15:46	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/24/23 15:46	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/24/23 15:46	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/24/23 15:46	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/24/23 15:46	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/24/23 15:46	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/24/23 15:46	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/24/23 15:46	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/24/23 15:46	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/24/23 15:46	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/24/23 15:46	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/24/23 15:46	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/24/23 15:46	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/24/23 15:46	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/24/23 15:46	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/24/23 15:46	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/24/23 15:46	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/24/23 15:46	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/24/23 15:46	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/24/23 15:46	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/24/23 15:46	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/24/23 15:46	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/24/23 15:46	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/24/23 15:46	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/24/23 15:46	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/24/23 15:46	1
Styrene	<0.39		1.0	0.39	ug/L			05/24/23 15:46	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/24/23 15:46	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/24/23 15:46	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/24/23 15:46	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/24/23 15:46	1

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Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-32D

Lab Sample ID: 500-233874-26

Date Collected: 05/16/23 12:00

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/24/23 15:46	1
Toluene	<0.15		0.50	0.15	ug/L			05/24/23 15:46	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/24/23 15:46	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/24/23 15:46	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/24/23 15:46	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/24/23 15:46	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/24/23 15:46	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/24/23 15:46	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/24/23 15:46	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/24/23 15:46	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/24/23 15:46	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/24/23 15:46	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/24/23 15:46	1
Vinyl chloride	<0.20	* ^c	1.0	0.20	ug/L			05/24/23 15:46	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/24/23 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124		05/24/23 15:46	1
Dibromofluoromethane (Surr)	95		75 - 120		05/24/23 15:46	1
1,2-Dichloroethane-d4 (Surr)	101		75 - 126		05/24/23 15:46	1
Toluene-d8 (Surr)	92		75 - 120		05/24/23 15:46	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	19.84				ft			05/16/23 12:00	1
Field Color	N				NONE			05/16/23 12:00	1
Field Conductivity	712				uS/cm			05/16/23 12:00	1
Field Odor	N				NONE			05/16/23 12:00	1
Field pH	7.11				SU			05/16/23 12:00	1
Field Temperature	11.4				Degrees C			05/16/23 12:00	1
Field Turbidity	N				NONE			05/16/23 12:00	1
Groundwater Elevation (ft MSL)	922.82				ft			05/16/23 12:00	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: Trip Blank-2

Lab Sample ID: 500-233874-27

Date Collected: 05/16/23 00:00

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.1	J	10	1.7	ug/L			05/24/23 11:43	1
Benzene	<0.15		0.50	0.15	ug/L			05/24/23 11:43	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/24/23 11:43	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/24/23 11:43	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/24/23 11:43	1
Bromoform	<0.48		1.0	0.48	ug/L			05/24/23 11:43	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/24/23 11:43	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/24/23 11:43	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/24/23 11:43	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/24/23 11:43	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/24/23 11:43	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/24/23 11:43	1
Chloroform	<0.37		2.0	0.37	ug/L			05/24/23 11:43	1
Chloromethane	<0.32	^c	1.0	0.32	ug/L			05/24/23 11:43	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/24/23 11:43	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/24/23 11:43	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/24/23 11:43	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/24/23 11:43	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/24/23 11:43	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/24/23 11:43	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/24/23 11:43	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/24/23 11:43	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/24/23 11:43	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/24/23 11:43	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/24/23 11:43	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/24/23 11:43	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/24/23 11:43	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/24/23 11:43	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/24/23 11:43	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/24/23 11:43	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/24/23 11:43	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/24/23 11:43	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/24/23 11:43	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/24/23 11:43	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/24/23 11:43	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/24/23 11:43	1
Isopropyl ether	<0.28	^c	1.0	0.28	ug/L			05/24/23 11:43	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/24/23 11:43	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/24/23 11:43	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/24/23 11:43	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/24/23 11:43	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/24/23 11:43	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/24/23 11:43	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/24/23 11:43	1
Styrene	<0.39		1.0	0.39	ug/L			05/24/23 11:43	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/24/23 11:43	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/24/23 11:43	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/24/23 11:43	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/24/23 11:43	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: Trip Blank-2

Lab Sample ID: 500-233874-27

Date Collected: 05/16/23 00:00

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/24/23 11:43	1
Toluene	<0.15		0.50	0.15	ug/L			05/24/23 11:43	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/24/23 11:43	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/24/23 11:43	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/24/23 11:43	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/24/23 11:43	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/24/23 11:43	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/24/23 11:43	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/24/23 11:43	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/24/23 11:43	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/24/23 11:43	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/24/23 11:43	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/24/23 11:43	1
Vinyl chloride	<0.20	* ^c	1.0	0.20	ug/L			05/24/23 11:43	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/24/23 11:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124		05/24/23 11:43	1
Dibromofluoromethane (Surr)	95		75 - 120		05/24/23 11:43	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 126		05/24/23 11:43	1
Toluene-d8 (Surr)	91		75 - 120		05/24/23 11:43	1

Definitions/Glossary

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
^c	CCV Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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

QC Association Summary

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

GC/MS VOA

Analysis Batch: 59965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233874-10	4610 Rocky Dell Rd	Total/NA	Water	524.2	
MB 810-59965/5	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 714685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233874-1	P-34S	Total/NA	Water	8260D	
500-233874-2	P-34D	Total/NA	Water	8260D	
500-233874-3	P-26S	Total/NA	Water	8260D	
500-233874-4	P-28S	Total/NA	Water	8260D	
500-233874-5	P-27D	Total/NA	Water	8260D	
500-233874-6	P-27S	Total/NA	Water	8260D	
500-233874-7	P-29S	Total/NA	Water	8260D	
500-233874-8	P-18S	Total/NA	Water	8260D	
500-233874-9	P-41D	Total/NA	Water	8260D	
500-233874-11	TB-1	Total/NA	Water	8260D	
500-233874-12	P-43S	Total/NA	Water	8260D	
500-233874-13	P-43I	Total/NA	Water	8260D	
500-233874-14	P-43D	Total/NA	Water	8260D	
500-233874-15	FD-1	Total/NA	Water	8260D	
500-233874-16	P-22S	Total/NA	Water	8260D	
500-233874-17	P-22E	Total/NA	Water	8260D	
500-233874-18	P-22D	Total/NA	Water	8260D	
500-233874-19	P-40D	Total/NA	Water	8260D	
500-233874-20	P-40I	Total/NA	Water	8260D	
500-233874-21	P-25S	Total/NA	Water	8260D	
MB 500-714685/6	Method Blank	Total/NA	Water	8260D	
LCS 500-714685/4	Lab Control Sample	Total/NA	Water	8260D	
500-233874-21 MS	P-25S	Total/NA	Water	8260D	
500-233874-21 MSD	P-25S	Total/NA	Water	8260D	

Analysis Batch: 714960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233874-22	P-25BR	Total/NA	Water	8260D	
500-233874-23	P-25D	Total/NA	Water	8260D	
500-233874-24	FD-2	Total/NA	Water	8260D	
500-233874-25	P-32S	Total/NA	Water	8260D	
500-233874-26	P-32D	Total/NA	Water	8260D	
500-233874-27	Trip Blank-2	Total/NA	Water	8260D	
MB 500-714960/6	Method Blank	Total/NA	Water	8260D	
LCS 500-714960/4	Lab Control Sample	Total/NA	Water	8260D	

Field Service / Mobile Lab

Analysis Batch: 715997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233874-1	P-34S	Total/NA	Water	Field Sampling	
500-233874-2	P-34D	Total/NA	Water	Field Sampling	
500-233874-3	P-26S	Total/NA	Water	Field Sampling	
500-233874-4	P-28S	Total/NA	Water	Field Sampling	
500-233874-5	P-27D	Total/NA	Water	Field Sampling	
500-233874-6	P-27S	Total/NA	Water	Field Sampling	

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QC Association Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 715997 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233874-7	P-29S	Total/NA	Water	Field Sampling	
500-233874-8	P-18S	Total/NA	Water	Field Sampling	
500-233874-9	P-41D	Total/NA	Water	Field Sampling	
500-233874-10	4610 Rocky Dell Rd	Total/NA	Water	Field Sampling	
500-233874-12	P-43S	Total/NA	Water	Field Sampling	
500-233874-13	P-43I	Total/NA	Water	Field Sampling	
500-233874-14	P-43D	Total/NA	Water	Field Sampling	
500-233874-16	P-22S	Total/NA	Water	Field Sampling	
500-233874-17	P-22E	Total/NA	Water	Field Sampling	
500-233874-18	P-22D	Total/NA	Water	Field Sampling	
500-233874-21	P-25S	Total/NA	Water	Field Sampling	
500-233874-22	P-25BR	Total/NA	Water	Field Sampling	
500-233874-23	P-25D	Total/NA	Water	Field Sampling	
500-233874-25	P-32S	Total/NA	Water	Field Sampling	
500-233874-26	P-32D	Total/NA	Water	Field Sampling	

Surrogate Summary

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DCZ	DCA	TOL
		(70-130)	(70-130)	(70-130)	(70-130)
500-233874-10	4610 Rocky Dell Rd	94	93	105	99
MB 810-59965/5	Method Blank	92	93	101	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DCZ = 1,2-Dichlorobenzene-d4 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-233874-1	P-34S	106 ^c	95	103	109
500-233874-2	P-34D	102 ^c	115	121	97
500-233874-3	P-26S	104 ^c	99	110	106
500-233874-4	P-28S	100 ^c	111	122	101
500-233874-5	P-27D	105 ^c	109	124	99
500-233874-6	P-27S	107 ^c	113	122	100
500-233874-7	P-29S	109 ^c	104	118	108
500-233874-8	P-18S	105 ^c	105	118	104
500-233874-9	P-41D	109 ^c	114	125	100
500-233874-11	TB-1	105 ^c	105	121	105
500-233874-12	P-43S	102 ^c	116	126	99
500-233874-13	P-43I	108 ^c	109	121	102
500-233874-14	P-43D	109 ^c	116	124	98
500-233874-15	FD-1	107 ^c	107	119	105
500-233874-16	P-22S	104 ^c	103	120	105
500-233874-17	P-22E	104 ^c	106	118	103
500-233874-18	P-22D	106 ^c	103	116	105
500-233874-19	P-40D	98 ^c	118	126	100
500-233874-20	P-40I	100 ^c	112	122	99
500-233874-21	P-25S	105 ^c	106	124	103
500-233874-21 MS	P-25S	91	85	95	111
500-233874-21 MSD	P-25S	96	87	93	109
500-233874-22	P-25BR	101	94	100	90
500-233874-23	P-25D	103	94	102	92
500-233874-24	FD-2	101	96	100	90
500-233874-25	P-32S	104	95	99	91
500-233874-26	P-32D	100	95	101	92
500-233874-27	Trip Blank-2	102	95	100	91
LCS 500-714685/4	Lab Control Sample	93	78	92	116
LCS 500-714960/4	Lab Control Sample	103	99	101	91
MB 500-714685/6	Method Blank	104	105	116	102
MB 500-714960/6	Method Blank	101	94	100	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

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Surrogate Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Job ID: 500-233874-1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

QC Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 810-59965/5
Matrix: Water
Analysis Batch: 59965

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

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/23/23 21:19	1
Chlorobenzene	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
cis-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
1,2-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
1,4-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
1,2-Dichloroethane	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
1,1-Dichloroethene	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
1,2-Dichloropropane	<0.20		0.25	0.20	ug/L			05/23/23 21:19	1
Ethylbenzene	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
Methylene Chloride	<0.40		0.50	0.40	ug/L			05/23/23 21:19	1
m-Xylene & p-Xylene	<0.50		0.50	0.50	ug/L			05/23/23 21:19	1
o-Xylene	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
Styrene	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
Toluene	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
trans-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
1,2,4-Trichlorobenzene	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
1,1,1-Trichloroethane	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
1,1,2-Trichloroethane	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
Trichloroethene	<0.20		0.50	0.20	ug/L			05/23/23 21:19	1
Vinyl chloride	<0.20		0.20	0.20	ug/L			05/23/23 21:19	1
Xylenes, Total	<0.50		0.50	0.50	ug/L			05/23/23 21:19	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	92		70 - 130		05/23/23 21:19	1
1,2-Dichlorobenzene-d4 (Surr)	93		70 - 130		05/23/23 21:19	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		05/23/23 21:19	1
Toluene-d8 (Surr)	98		70 - 130		05/23/23 21:19	1

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

Lab Sample ID: MB 500-714685/6
Matrix: Water
Analysis Batch: 714685

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

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<1.7		10	1.7	ug/L			05/23/23 10:46	1
Benzene	<0.15		0.50	0.15	ug/L			05/23/23 10:46	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/23/23 10:46	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/23/23 10:46	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/23/23 10:46	1
Bromoform	<0.48		1.0	0.48	ug/L			05/23/23 10:46	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/23/23 10:46	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/23/23 10:46	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/23/23 10:46	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/23/23 10:46	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/23/23 10:46	1

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QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

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

Lab Sample ID: MB 500-714685/6
Matrix: Water
Analysis Batch: 714685

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<0.51		1.0	0.51	ug/L			05/23/23 10:46	1
Chloroform	0.637	J	2.0	0.37	ug/L			05/23/23 10:46	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/23/23 10:46	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/23/23 10:46	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/23/23 10:46	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/23/23 10:46	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/23/23 10:46	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/23/23 10:46	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/23/23 10:46	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/23/23 10:46	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/23/23 10:46	1
1,2-Dichlorobenzene	0.479	J	1.0	0.33	ug/L			05/23/23 10:46	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/23/23 10:46	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/23/23 10:46	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/23/23 10:46	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/23/23 10:46	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/23/23 10:46	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/23/23 10:46	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/23/23 10:46	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/23/23 10:46	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/23/23 10:46	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/23/23 10:46	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/23/23 10:46	1
Hexachlorobutadiene	0.567	J	1.0	0.45	ug/L			05/23/23 10:46	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 10:46	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/23/23 10:46	1
Methylene Chloride	3.26	J	5.0	1.6	ug/L			05/23/23 10:46	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/23/23 10:46	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/23/23 10:46	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/23/23 10:46	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/23/23 10:46	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/23/23 10:46	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 10:46	1
Styrene	<0.39		1.0	0.39	ug/L			05/23/23 10:46	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/23/23 10:46	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/23/23 10:46	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/23/23 10:46	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/23/23 10:46	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/23/23 10:46	1
Toluene	<0.15		0.50	0.15	ug/L			05/23/23 10:46	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/23/23 10:46	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/23/23 10:46	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/23/23 10:46	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/23/23 10:46	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/23/23 10:46	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/23/23 10:46	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/23/23 10:46	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/23/23 10:46	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/23/23 10:46	1

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QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

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

Lab Sample ID: MB 500-714685/6
Matrix: Water
Analysis Batch: 714685

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

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/23/23 10:46	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/23/23 10:46	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/23/23 10:46	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/23/23 10:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	104		72 - 124		05/23/23 10:46	1
Dibromofluoromethane (Surr)	105		75 - 120		05/23/23 10:46	1
1,2-Dichloroethane-d4 (Surr)	116		75 - 126		05/23/23 10:46	1
Toluene-d8 (Surr)	102		75 - 120		05/23/23 10:46	1

Lab Sample ID: LCS 500-714685/4
Matrix: Water
Analysis Batch: 714685

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Acetone	50.0	42.6		ug/L		85	40 - 143
Benzene	50.0	46.7		ug/L		93	70 - 120
Bromobenzene	50.0	49.3		ug/L		99	70 - 122
Bromochloromethane	50.0	43.7		ug/L		87	65 - 122
Bromodichloromethane	50.0	53.5		ug/L		107	69 - 120
Bromoform	50.0	60.0		ug/L		120	56 - 132
Bromomethane	50.0	34.3		ug/L		69	40 - 152
2-Butanone (MEK)	50.0	48.0		ug/L		96	46 - 144
Carbon disulfide	50.0	43.9		ug/L		88	66 - 120
Carbon tetrachloride	50.0	52.2		ug/L		104	59 - 133
Chlorobenzene	50.0	51.1		ug/L		102	70 - 120
Chloroethane	50.0	27.3		ug/L		55	48 - 136
Chloroform	50.0	36.7		ug/L		73	70 - 120
Chloromethane	50.0	48.4		ug/L		97	56 - 152
2-Chlorotoluene	50.0	44.6		ug/L		89	70 - 125
4-Chlorotoluene	50.0	46.0		ug/L		92	68 - 124
cis-1,2-Dichloroethene	50.0	35.5		ug/L		71	70 - 125
cis-1,3-Dichloropropene	50.0	60.9		ug/L		122	64 - 127
Dibromochloromethane	50.0	69.0	*	ug/L		138	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	49.8		ug/L		100	56 - 123
1,2-Dibromoethane	50.0	57.4		ug/L		115	70 - 125
Dibromomethane	50.0	54.5		ug/L		109	70 - 120
1,2-Dichlorobenzene	50.0	48.0		ug/L		96	70 - 125
1,3-Dichlorobenzene	50.0	50.9		ug/L		102	70 - 125
1,4-Dichlorobenzene	50.0	49.7		ug/L		99	70 - 120
Dichlorodifluoromethane	50.0	42.8		ug/L		86	40 - 159
1,1-Dichloroethane	50.0	39.4		ug/L		79	70 - 125
1,2-Dichloroethane	50.0	48.0		ug/L		96	68 - 127
1,1-Dichloroethene	50.0	40.7		ug/L		81	67 - 122
1,2-Dichloropropane	50.0	59.9		ug/L		120	67 - 130
1,3-Dichloropropane	50.0	61.5		ug/L		123	62 - 136
2,2-Dichloropropane	50.0	38.1		ug/L		76	58 - 139

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QC Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

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

Lab Sample ID: LCS 500-714685/4
Matrix: Water
Analysis Batch: 714685

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	50.0	41.2		ug/L		82	70 - 121
Ethylbenzene	50.0	45.2		ug/L		90	70 - 123
Hexachlorobutadiene	50.0	69.7		ug/L		139	51 - 150
Isopropylbenzene	50.0	41.3		ug/L		83	70 - 126
Methylene Chloride	50.0	42.8		ug/L		86	69 - 125
Methyl tert-butyl ether	50.0	34.7		ug/L		69	55 - 123
Naphthalene	50.0	36.1		ug/L		72	53 - 144
n-Butylbenzene	50.0	39.5		ug/L		79	68 - 125
N-Propylbenzene	50.0	44.1		ug/L		88	69 - 127
p-Isopropyltoluene	50.0	44.1		ug/L		88	70 - 125
sec-Butylbenzene	50.0	42.2		ug/L		84	70 - 123
Styrene	50.0	45.2		ug/L		90	70 - 120
tert-Butylbenzene	50.0	42.3		ug/L		85	70 - 121
1,1,1,2-Tetrachloroethane	50.0	57.9		ug/L		116	70 - 125
1,1,2,2-Tetrachloroethane	50.0	51.0		ug/L		102	62 - 140
Tetrachloroethene	50.0	69.4	*	ug/L		139	70 - 128
Tetrahydrofuran	100	86.7		ug/L		87	59 - 139
Toluene	50.0	56.2		ug/L		112	70 - 125
trans-1,2-Dichloroethene	50.0	39.8		ug/L		80	70 - 125
trans-1,3-Dichloropropene	50.0	58.6		ug/L		117	62 - 128
1,2,3-Trichlorobenzene	50.0	60.7		ug/L		121	51 - 145
1,2,4-Trichlorobenzene	50.0	48.9		ug/L		98	57 - 137
1,1,1-Trichloroethane	50.0	44.1		ug/L		88	70 - 125
1,1,2-Trichloroethane	50.0	65.6	*	ug/L		131	71 - 130
Trichloroethene	50.0	51.2		ug/L		102	70 - 125
Trichlorofluoromethane	50.0	42.2		ug/L		84	55 - 128
1,2,3-Trichloropropane	50.0	53.4		ug/L		107	50 - 133
1,2,4-Trimethylbenzene	50.0	44.5		ug/L		89	70 - 123
1,3,5-Trimethylbenzene	50.0	44.7		ug/L		89	70 - 123
Vinyl chloride	50.0	38.2		ug/L		76	64 - 126
Xylenes, Total	100	90.4		ug/L		90	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		72 - 124
Dibromofluoromethane (Surr)	78		75 - 120
1,2-Dichloroethane-d4 (Surr)	92		75 - 126
Toluene-d8 (Surr)	116		75 - 120

Lab Sample ID: 500-233874-21 MS
Matrix: Water
Analysis Batch: 714685

Client Sample ID: P-25S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<1.7	^c	50.0	40.0		ug/L		80	40 - 143
Benzene	<0.15		50.0	48.2		ug/L		96	70 - 120
Bromobenzene	<0.36		50.0	48.8		ug/L		98	70 - 122
Bromochloromethane	<0.43		50.0	47.8		ug/L		96	65 - 122
Bromodichloromethane	<0.37		50.0	56.1		ug/L		112	69 - 120

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QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

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

Lab Sample ID: 500-233874-21 MS

Matrix: Water

Analysis Batch: 714685

Client Sample ID: P-25S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	<0.48	^c	50.0	64.0		ug/L		128	56 - 132
Bromomethane	<0.80		50.0	26.6		ug/L		53	40 - 152
2-Butanone (MEK)	<2.1		50.0	43.4		ug/L		87	46 - 144
Carbon disulfide	<0.45		50.0	48.6		ug/L		97	66 - 120
Carbon tetrachloride	<0.38		50.0	56.1		ug/L		112	59 - 133
Chlorobenzene	<0.39		50.0	51.0		ug/L		102	70 - 120
Chloroethane	<0.51	^c	50.0	28.1		ug/L		56	48 - 136
Chloroform	<0.37		50.0	39.7		ug/L		79	70 - 120
Chloromethane	<0.32		50.0	53.1		ug/L		106	56 - 152
2-Chlorotoluene	<0.31		50.0	44.2		ug/L		88	70 - 125
4-Chlorotoluene	<0.35		50.0	45.7		ug/L		91	68 - 124
cis-1,2-Dichloroethene	<0.41		50.0	38.1		ug/L		76	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	53.4		ug/L		107	64 - 127
Dibromochloromethane	<0.49	^c * F1	50.0	70.0	F1	ug/L		140	68 - 125
1,2-Dibromo-3-Chloropropane	<2.0		50.0	47.6		ug/L		95	56 - 123
1,2-Dibromoethane	<0.39		50.0	59.8		ug/L		120	70 - 125
Dibromomethane	<0.27		50.0	56.2		ug/L		112	70 - 120
1,2-Dichlorobenzene	<0.33		50.0	46.4		ug/L		93	70 - 125
1,3-Dichlorobenzene	<0.40		50.0	48.9		ug/L		98	70 - 125
1,4-Dichlorobenzene	<0.36		50.0	48.0		ug/L		96	70 - 120
Dichlorodifluoromethane	<0.67		50.0	41.6		ug/L		83	40 - 159
1,1-Dichloroethane	<0.41		50.0	43.1		ug/L		86	70 - 125
1,2-Dichloroethane	<0.39		50.0	49.5		ug/L		99	68 - 127
1,1-Dichloroethene	<0.39		50.0	43.4		ug/L		87	67 - 122
1,2-Dichloropropane	<0.43		50.0	63.0		ug/L		126	67 - 130
1,3-Dichloropropane	<0.36		50.0	60.7		ug/L		121	62 - 136
2,2-Dichloropropane	<0.44		50.0	38.5		ug/L		77	58 - 139
1,1-Dichloropropene	<0.30		50.0	41.3		ug/L		83	70 - 121
Ethylbenzene	<0.18		50.0	44.2		ug/L		88	70 - 123
Hexachlorobutadiene	<0.45		50.0	62.6		ug/L		125	51 - 150
Isopropylbenzene	<0.39		50.0	39.9		ug/L		80	70 - 126
Methylene Chloride	<1.6		50.0	46.4		ug/L		93	69 - 125
Methyl tert-butyl ether	<0.39	^c	50.0	36.2		ug/L		72	55 - 123
Naphthalene	<0.34	^c	50.0	30.5		ug/L		61	53 - 144
n-Butylbenzene	<0.39	^c	50.0	35.3		ug/L		71	68 - 125
N-Propylbenzene	<0.41		50.0	43.0		ug/L		86	69 - 127
p-Isopropyltoluene	<0.36		50.0	41.7		ug/L		83	70 - 125
sec-Butylbenzene	<0.40		50.0	40.8		ug/L		82	70 - 123
Styrene	<0.39		50.0	44.9		ug/L		90	70 - 120
tert-Butylbenzene	<0.40		50.0	40.3		ug/L		81	70 - 121
1,1,1,2-Tetrachloroethane	<0.46	^c	50.0	59.1		ug/L		118	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	53.9		ug/L		108	62 - 140
Tetrachloroethene	<0.37	^c * F1	50.0	68.1	F1	ug/L		136	70 - 128
Tetrahydrofuran	<1.9	^c	100	86.0		ug/L		86	59 - 139
Toluene	<0.15		50.0	54.1		ug/L		108	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	43.5		ug/L		87	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	57.1		ug/L		114	62 - 128
1,2,3-Trichlorobenzene	<0.46		50.0	52.0		ug/L		104	51 - 145
1,2,4-Trichlorobenzene	<0.34		50.0	39.7		ug/L		79	57 - 137

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QC Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

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

Lab Sample ID: 500-233874-21 MS
Matrix: Water
Analysis Batch: 714685

Client Sample ID: P-25S
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
1,1,1-Trichloroethane	<0.38		50.0	48.9		ug/L		98	70 - 125
1,1,2-Trichloroethane	<0.35	^c * F1	50.0	67.8	F1	ug/L		136	71 - 130
Trichloroethene	<0.16		50.0	51.4		ug/L		103	70 - 125
Trichlorofluoromethane	<0.43		50.0	43.9		ug/L		88	55 - 128
1,2,3-Trichloropropane	<0.41		50.0	54.0		ug/L		108	50 - 133
1,2,4-Trimethylbenzene	<0.36		50.0	43.2		ug/L		86	70 - 123
1,3,5-Trimethylbenzene	<0.25		50.0	43.7		ug/L		87	70 - 123
Vinyl chloride	<0.20		50.0	38.4		ug/L		77	64 - 126
Xylenes, Total	<0.22		100	89.7		ug/L		90	70 - 125
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	91		72 - 124						
Dibromofluoromethane (Surr)	85		75 - 120						
1,2-Dichloroethane-d4 (Surr)	95		75 - 126						
Toluene-d8 (Surr)	111		75 - 120						

Lab Sample ID: 500-233874-21 MSD
Matrix: Water
Analysis Batch: 714685

Client Sample ID: P-25S
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Acetone	<1.7	^c	50.0	49.0		ug/L		98	40 - 143	20	20
Benzene	<0.15		50.0	47.3		ug/L		95	70 - 120	2	20
Bromobenzene	<0.36		50.0	49.9		ug/L		100	70 - 122	2	20
Bromochloromethane	<0.43		50.0	48.4		ug/L		97	65 - 122	1	20
Bromodichloromethane	<0.37		50.0	54.2		ug/L		108	69 - 120	3	20
Bromoform	<0.48	^c	50.0	59.8		ug/L		120	56 - 132	7	20
Bromomethane	<0.80		50.0	30.9		ug/L		62	40 - 152	15	20
2-Butanone (MEK)	<2.1		50.0	43.8		ug/L		88	46 - 144	1	20
Carbon disulfide	<0.45		50.0	47.9		ug/L		96	66 - 120	1	20
Carbon tetrachloride	<0.38		50.0	56.1		ug/L		112	59 - 133	0	20
Chlorobenzene	<0.39		50.0	48.9		ug/L		98	70 - 120	4	20
Chloroethane	<0.51	^c	50.0	31.5		ug/L		63	48 - 136	12	20
Chloroform	<0.37		50.0	39.6		ug/L		79	70 - 120	0	20
Chloromethane	<0.32		50.0	61.8		ug/L		124	56 - 152	15	20
2-Chlorotoluene	<0.31		50.0	44.4		ug/L		89	70 - 125	1	20
4-Chlorotoluene	<0.35		50.0	45.5		ug/L		91	68 - 124	0	20
cis-1,2-Dichloroethene	<0.41		50.0	40.1		ug/L		80	70 - 125	5	20
cis-1,3-Dichloropropene	<0.42		50.0	51.3		ug/L		103	64 - 127	4	20
Dibromochloromethane	<0.49	^c * F1	50.0	68.4	F1	ug/L		137	68 - 125	2	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	49.0		ug/L		98	56 - 123	3	20
1,2-Dibromoethane	<0.39		50.0	56.3		ug/L		113	70 - 125	6	20
Dibromomethane	<0.27		50.0	55.3		ug/L		111	70 - 120	2	20
1,2-Dichlorobenzene	<0.33		50.0	47.4		ug/L		95	70 - 125	2	20
1,3-Dichlorobenzene	<0.40		50.0	48.9		ug/L		98	70 - 125	0	20
1,4-Dichlorobenzene	<0.36		50.0	48.9		ug/L		98	70 - 120	2	20
Dichlorodifluoromethane	<0.67		50.0	45.8		ug/L		92	40 - 159	10	20
1,1-Dichloroethane	<0.41		50.0	44.4		ug/L		89	70 - 125	3	20

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QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

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

Lab Sample ID: 500-233874-21 MSD

Matrix: Water

Analysis Batch: 714685

Client Sample ID: P-25S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane	<0.39		50.0	47.9		ug/L		96	68 - 127	3	20
1,1-Dichloroethene	<0.39		50.0	44.8		ug/L		90	67 - 122	3	20
1,2-Dichloropropane	<0.43		50.0	62.1		ug/L		124	67 - 130	1	20
1,3-Dichloropropane	<0.36		50.0	58.5		ug/L		117	62 - 136	4	20
2,2-Dichloropropane	<0.44		50.0	40.5		ug/L		81	58 - 139	5	20
1,1-Dichloropropene	<0.30		50.0	39.4		ug/L		79	70 - 121	5	20
Ethylbenzene	<0.18		50.0	42.2		ug/L		84	70 - 123	5	20
Hexachlorobutadiene	<0.45		50.0	66.7		ug/L		133	51 - 150	6	20
Isopropylbenzene	<0.39		50.0	40.6		ug/L		81	70 - 126	2	20
Methylene Chloride	<1.6		50.0	46.6		ug/L		93	69 - 125	0	20
Methyl tert-butyl ether	<0.39	^c	50.0	37.0		ug/L		74	55 - 123	2	20
Naphthalene	<0.34	^c	50.0	34.4		ug/L		69	53 - 144	12	20
n-Butylbenzene	<0.39	^c	50.0	35.5		ug/L		71	68 - 125	1	20
N-Propylbenzene	<0.41		50.0	43.4		ug/L		87	69 - 127	1	20
p-Isopropyltoluene	<0.36		50.0	42.1		ug/L		84	70 - 125	1	20
sec-Butylbenzene	<0.40		50.0	41.8		ug/L		84	70 - 123	2	20
Styrene	<0.39		50.0	42.4		ug/L		85	70 - 120	6	20
tert-Butylbenzene	<0.40		50.0	41.0		ug/L		82	70 - 121	2	20
1,1,1,2-Tetrachloroethane	<0.46	^c	50.0	55.6		ug/L		111	70 - 125	6	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	53.6		ug/L		107	62 - 140	1	20
Tetrachloroethene	<0.37	^c * F1	50.0	63.8		ug/L		128	70 - 128	6	20
Tetrahydrofuran	<1.9	^c	100	84.8		ug/L		85	59 - 139	1	20
Toluene	<0.15		50.0	51.3		ug/L		103	70 - 125	5	20
trans-1,2-Dichloroethene	<0.35		50.0	45.5		ug/L		91	70 - 125	5	20
trans-1,3-Dichloropropene	<0.36		50.0	53.9		ug/L		108	62 - 128	6	20
1,2,3-Trichlorobenzene	<0.46		50.0	57.3		ug/L		115	51 - 145	10	20
1,2,4-Trichlorobenzene	<0.34		50.0	43.3		ug/L		87	57 - 137	9	20
1,1,1-Trichloroethane	<0.38		50.0	49.9		ug/L		100	70 - 125	2	20
1,1,2-Trichloroethane	<0.35	^c * F1	50.0	63.7		ug/L		127	71 - 130	6	20
Trichloroethene	<0.16		50.0	48.8		ug/L		98	70 - 125	5	20
Trichlorofluoromethane	<0.43		50.0	49.1		ug/L		98	55 - 128	11	20
1,2,3-Trichloropropane	<0.41		50.0	53.6		ug/L		107	50 - 133	1	20
1,2,4-Trimethylbenzene	<0.36		50.0	43.4		ug/L		87	70 - 123	1	20
1,3,5-Trimethylbenzene	<0.25		50.0	44.1		ug/L		88	70 - 123	1	20
Vinyl chloride	<0.20		50.0	43.2		ug/L		86	64 - 126	12	20
Xylenes, Total	<0.22		100	85.3		ug/L		85	70 - 125	5	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	96		72 - 124
Dibromofluoromethane (Surr)	87		75 - 120
1,2-Dichloroethane-d4 (Surr)	93		75 - 126
Toluene-d8 (Surr)	109		75 - 120

QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

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

Lab Sample ID: MB 500-714960/6
Matrix: Water
Analysis Batch: 714960

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

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<1.7		10	1.7	ug/L			05/24/23 11:19	1
Benzene	<0.15		0.50	0.15	ug/L			05/24/23 11:19	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/24/23 11:19	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/24/23 11:19	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/24/23 11:19	1
Bromoform	<0.48		1.0	0.48	ug/L			05/24/23 11:19	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/24/23 11:19	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/24/23 11:19	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/24/23 11:19	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/24/23 11:19	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/24/23 11:19	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/24/23 11:19	1
Chloroform	<0.37		2.0	0.37	ug/L			05/24/23 11:19	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/24/23 11:19	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/24/23 11:19	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/24/23 11:19	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/24/23 11:19	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/24/23 11:19	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/24/23 11:19	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/24/23 11:19	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/24/23 11:19	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/24/23 11:19	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/24/23 11:19	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/24/23 11:19	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/24/23 11:19	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/24/23 11:19	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/24/23 11:19	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/24/23 11:19	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/24/23 11:19	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/24/23 11:19	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/24/23 11:19	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/24/23 11:19	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/24/23 11:19	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/24/23 11:19	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/24/23 11:19	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/24/23 11:19	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/24/23 11:19	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/24/23 11:19	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/24/23 11:19	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/24/23 11:19	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/24/23 11:19	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/24/23 11:19	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/24/23 11:19	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/24/23 11:19	1
Styrene	<0.39		1.0	0.39	ug/L			05/24/23 11:19	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/24/23 11:19	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/24/23 11:19	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/24/23 11:19	1

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QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

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

Lab Sample ID: MB 500-714960/6
Matrix: Water
Analysis Batch: 714960

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/24/23 11:19	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/24/23 11:19	1
Toluene	<0.15		0.50	0.15	ug/L			05/24/23 11:19	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/24/23 11:19	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/24/23 11:19	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/24/23 11:19	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/24/23 11:19	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/24/23 11:19	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/24/23 11:19	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/24/23 11:19	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/24/23 11:19	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/24/23 11:19	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/24/23 11:19	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/24/23 11:19	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/24/23 11:19	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/24/23 11:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124		05/24/23 11:19	1
Dibromofluoromethane (Surr)	94		75 - 120		05/24/23 11:19	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 126		05/24/23 11:19	1
Toluene-d8 (Surr)	91		75 - 120		05/24/23 11:19	1

Lab Sample ID: LCS 500-714960/4
Matrix: Water
Analysis Batch: 714960

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	50.0	55.3		ug/L		111	40 - 143
Benzene	50.0	50.8		ug/L		102	70 - 120
Bromobenzene	50.0	50.1		ug/L		100	70 - 122
Bromochloromethane	50.0	50.6		ug/L		101	65 - 122
Bromodichloromethane	50.0	48.8		ug/L		98	69 - 120
Bromoform	50.0	43.1		ug/L		86	56 - 132
Bromomethane	50.0	54.4		ug/L		109	40 - 152
2-Butanone (MEK)	50.0	59.8		ug/L		120	46 - 144
Carbon disulfide	50.0	50.1		ug/L		100	66 - 120
Carbon tetrachloride	50.0	52.3		ug/L		105	59 - 133
Chlorobenzene	50.0	50.8		ug/L		102	70 - 120
Chloroethane	50.0	60.8		ug/L		122	48 - 136
Chloroform	50.0	50.8		ug/L		102	70 - 120
Chloromethane	50.0	67.7		ug/L		135	56 - 152
2-Chlorotoluene	50.0	48.9		ug/L		98	70 - 125
4-Chlorotoluene	50.0	49.9		ug/L		100	68 - 124
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	70 - 125
cis-1,3-Dichloropropene	50.0	47.6		ug/L		95	64 - 127
Dibromochloromethane	50.0	43.7		ug/L		87	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	41.4		ug/L		83	56 - 123

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QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

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

Lab Sample ID: LCS 500-714960/4
Matrix: Water
Analysis Batch: 714960

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	50.0	49.2		ug/L		98	70 - 125
Dibromomethane	50.0	48.5		ug/L		97	70 - 120
1,2-Dichlorobenzene	50.0	47.2		ug/L		94	70 - 125
1,3-Dichlorobenzene	50.0	48.8		ug/L		98	70 - 125
1,4-Dichlorobenzene	50.0	47.9		ug/L		96	70 - 120
Dichlorodifluoromethane	50.0	54.8		ug/L		110	40 - 159
1,1-Dichloroethane	50.0	57.3		ug/L		115	70 - 125
1,2-Dichloroethane	50.0	54.0		ug/L		108	68 - 127
1,1-Dichloroethene	50.0	50.0		ug/L		100	67 - 122
1,2-Dichloropropane	50.0	59.3		ug/L		119	67 - 130
1,3-Dichloropropane	50.0	51.0		ug/L		102	62 - 136
2,2-Dichloropropane	50.0	53.0		ug/L		106	58 - 139
1,1-Dichloropropene	50.0	53.5		ug/L		107	70 - 121
Ethylbenzene	50.0	47.6		ug/L		95	70 - 123
Hexachlorobutadiene	50.0	54.3		ug/L		109	51 - 150
Isopropylbenzene	50.0	49.9		ug/L		100	70 - 126
Methylene Chloride	50.0	49.7		ug/L		99	69 - 125
Methyl tert-butyl ether	50.0	55.4		ug/L		111	55 - 123
Naphthalene	50.0	43.2		ug/L		86	53 - 144
n-Butylbenzene	50.0	47.7		ug/L		95	68 - 125
N-Propylbenzene	50.0	49.1		ug/L		98	69 - 127
p-Isopropyltoluene	50.0	50.7		ug/L		101	70 - 125
sec-Butylbenzene	50.0	50.1		ug/L		100	70 - 123
Styrene	50.0	49.8		ug/L		100	70 - 120
tert-Butylbenzene	50.0	49.9		ug/L		100	70 - 121
1,1,1,2-Tetrachloroethane	50.0	45.0		ug/L		90	70 - 125
1,1,2,2-Tetrachloroethane	50.0	44.2		ug/L		88	62 - 140
Tetrachloroethene	50.0	52.6		ug/L		105	70 - 128
Tetrahydrofuran	100	124		ug/L		124	59 - 139
Toluene	50.0	44.1		ug/L		88	70 - 125
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	70 - 125
trans-1,3-Dichloropropene	50.0	46.8		ug/L		94	62 - 128
1,2,3-Trichlorobenzene	50.0	47.5		ug/L		95	51 - 145
1,2,4-Trichlorobenzene	50.0	48.9		ug/L		98	57 - 137
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	70 - 125
1,1,2-Trichloroethane	50.0	45.2		ug/L		90	71 - 130
Trichloroethene	50.0	52.9		ug/L		106	70 - 125
Trichlorofluoromethane	50.0	56.1		ug/L		112	55 - 128
1,2,3-Trichloropropane	50.0	48.1		ug/L		96	50 - 133
1,2,4-Trimethylbenzene	50.0	50.6		ug/L		101	70 - 123
1,3,5-Trimethylbenzene	50.0	51.1		ug/L		102	70 - 123
Vinyl chloride	50.0	65.0	*	ug/L		130	64 - 126
Xylenes, Total	100	95.9		ug/L		96	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		72 - 124
Dibromofluoromethane (Surr)	99		75 - 120
1,2-Dichloroethane-d4 (Surr)	101		75 - 126

QC Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

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

Lab Sample ID: LCS 500-714960/4
Matrix: Water
Analysis Batch: 714960

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

<i>Surrogate</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>Toluene-d8 (Surr)</i>	91		75 - 120

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Lab Chronicle

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-34S

Date Collected: 05/15/23 12:30

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 11:20
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/15/23 12:30

Client Sample ID: P-34D

Date Collected: 05/15/23 12:40

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 11:44
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/15/23 12:40

Client Sample ID: P-26S

Date Collected: 05/15/23 13:15

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 12:09
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/15/23 13:15

Client Sample ID: P-28S

Date Collected: 05/15/23 14:05

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 12:33
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/15/23 14:05

Client Sample ID: P-27D

Date Collected: 05/15/23 15:22

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 12:58
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/15/23 15:22

Client Sample ID: P-27S

Date Collected: 05/15/23 15:40

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 13:23
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/15/23 15:40

Lab Chronicle

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-29S

Date Collected: 05/15/23 16:35

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 13:47
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/15/23 16:35

Client Sample ID: P-18S

Date Collected: 05/15/23 19:00

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 14:12
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/15/23 19:00

Client Sample ID: P-41D

Date Collected: 05/15/23 18:15

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 14:37
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/15/23 18:15

Client Sample ID: 4610 Rocky Dell Rd

Date Collected: 05/15/23 16:52

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	59965	CM	EA SB	05/24/23 03:44
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/15/23 16:52

Client Sample ID: TB-1

Date Collected: 05/15/23 08:00

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 15:02

Client Sample ID: P-43S

Date Collected: 05/16/23 07:50

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 15:26
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/16/23 07:50

Lab Chronicle

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-43I
Date Collected: 05/16/23 07:55
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 15:51
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/16/23 07:55

Client Sample ID: P-43D
Date Collected: 05/16/23 08:20
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 16:16
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/16/23 08:20

Client Sample ID: FD-1
Date Collected: 05/16/23 07:52
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 16:40

Client Sample ID: P-22S
Date Collected: 05/16/23 09:08
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 17:05
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/16/23 09:08

Client Sample ID: P-22E
Date Collected: 05/16/23 09:25
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 17:30
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/16/23 09:25

Client Sample ID: P-22D
Date Collected: 05/16/23 09:40
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 17:54
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/16/23 09:40

Lab Chronicle

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-40D
Date Collected: 05/16/23 10:18
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 18:18

Client Sample ID: P-40I
Date Collected: 05/16/23 10:20
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 18:43

Client Sample ID: P-25S
Date Collected: 05/16/23 11:12
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714685	W1T	EET CHI	05/23/23 19:07
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/16/23 11:12

Client Sample ID: P-25BR
Date Collected: 05/16/23 11:15
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714960	W1T	EET CHI	05/24/23 14:09
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/16/23 11:15

Client Sample ID: P-25D
Date Collected: 05/16/23 11:11
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714960	W1T	EET CHI	05/24/23 14:34
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/16/23 11:11

Client Sample ID: FD-2
Date Collected: 05/16/23 11:14
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714960	W1T	EET CHI	05/24/23 14:58

Client Sample ID: P-32S
Date Collected: 05/16/23 11:55
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714960	W1T	EET CHI	05/24/23 15:22

Eurofins Chicago

Lab Chronicle

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Client Sample ID: P-32S

Date Collected: 05/16/23 11:55

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/16/23 11:55

Client Sample ID: P-32D

Date Collected: 05/16/23 12:00

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714960	W1T	EET CHI	05/24/23 15:46
Total/NA	Analysis	Field Sampling		1	715997	GCA	EET CHI	05/16/23 12:00

Client Sample ID: Trip Blank-2

Date Collected: 05/16/23 00:00

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233874-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	714960	W1T	EET CHI	05/24/23 11:43

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-233874-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Laboratory: Eurofins Eaton Analytical South Bend

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999766900	08-31-23

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- 14
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- 16

Eurofins Chicago

2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534 5211

Chain of Custody Record



Client Information		Quin Lenz / Ashla Wagner Fredrick Sandie 910-309-2289 Sandra.Fredrick@et.eurofinsus.com		Carrier Tracking No(s) 6374 2028 8971 State of Origin		COC No. 500-112403-43923 5 Page Page 1 of 2					
Company Cedar Corporation Address 1695 Bellevue Street City Green Bay State Zip WI 54311 Phone 920-491-9081(Tel) Email quin.lenz@cedarcorp.com Project Name Refuse Hideaway Landfill Site		Due Date Requested TAT Requested (days) Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO # Purchase Order not required WO # Project # 50020134 SOW#		Analysis Requested Field Filtered Samples (Yes or No) Perform MS/MSD (Yes or No) 8280B - VOC 624.2_Pres_PREC - VOC 624.2		Job # 500-233874 Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O As/Nar J2 D Nitric Acid P Na ₂ O4S E NaHSO4 R Na ₂ SO3 F MeOH S H2SO4 G Amchlor T TSP Dodecahydriac H Ascorbic Acid U Acetone I Ice V MCAA J DI Water W pH 5 K EDTA T Luma L ECA 7 other specify) Other:					
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Samples (Yes or No)	Perform MS/MSD (Yes or No)	8280B - VOC	624.2_Pres_PREC - VOC 624.2	Total Number of Containers	Special Instructions/Note
				Preservation Code		X	X	A	A		
P-43 S		5/16/23	750	G	Water					3	
P-43 I			755		Water					3	
P-43 D			820		Water					3	
FD-1			752		Water					3	
P-22S			908		Water					3	
P-22E			925		Water					3	
P-22D			940		Water					3	
P-40D			1018		Water					3	
P-40I			1020		Water					3	
P-25S			1112		Water					3	
P-25BR			1115		Water					3	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements					
Empty Kit Relinquished by		Date		Time		Method of Shipment					
Ashla Wagner		5/16/23		1300		Cedar		Received by Ashla Wagner		5/17/23 1000 BETA	
Relinquished by		Date/Time		Company		Received by		Date/Time		Company	
Relinquished by		Date/Time		Company		Received by		Date/Time		Company	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Locker Temperature (°C and Other Remark)		502741					

500-233874
 5/16/23
 1300
 Cedar
 Ashla Wagner
 5/17/23
 1000
 BETA

ORIGIN ID:RRLA (920) 261-1660
QUIN LENZ
CEDAR CORPORATION
1695 BELLEVUE STREET

SHIP DATE: 28APR23
ACTWGT: 25.00 LB MAN
CAD: 0269688/CAFE3621

GREEN BAY, WI 543119478
UNITED STATES US

TO **SAMPLE RECIPT**
EUROFINS CHICAGO
2417 BOND STREET



UNIVERSITY PARK IL 60484 500-233874 Waybr

(708) 634-6200

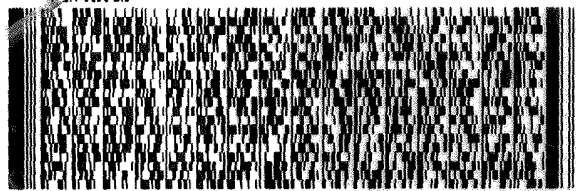
INU:

PO:

REF:

DEPT:

RMA: 11111111



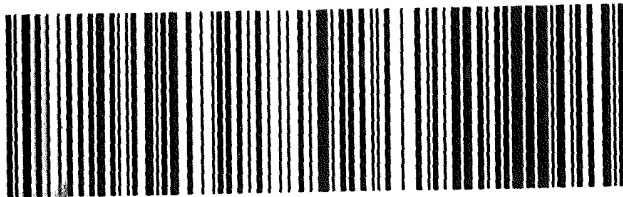
582C479RF/4324

FedEx
TRK# 6374 2028 8960
0221

WED - 17 MAY 10:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US ORD



16 583J3/28C3/FE2D

ORIGIN ID:RRLA (920) 261-1660
QUIN LENZ
CEDAR CORPORATION
1695 BELLEVUE STREET

SHIP DATE: 28APR23
ACTWGT: 25.00 LB MAN
CAD: 0269688/CAFE3621

GREEN BAY, WI 543119478
UNITED STATES US

TO **SAMPLE RECIPT**
EUROFINS CHICAGO
2417 BOND STREET

UNIVERSITY PARK IL 60484

(708) 634-6200

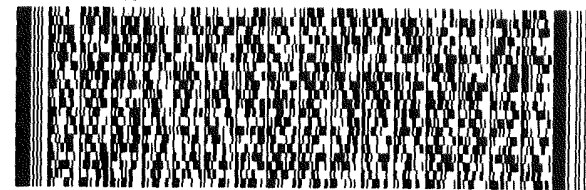
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582C479RF/4324

422302206060744

FedEx
TRK# 6374 2028 8971
0221

WED - 17 MAY 10:30A SAT
PRIORITY OVERNIGHT

XN JOTA

60484 484
IL-US ORD



EXP 04/24

Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-233874-1

SDG Number:

Login Number: 233874

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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.	True	
Cooler Temperature is recorded.	True	1.8,4.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-233874-1

SDG Number:

Login Number: 233874

List Number: 2

Creator: Spurgeon, Sheri

List Source: Eurofins Eaton Analytical South Bend

List Creation: 05/18/23 01:08 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	False	Client provided containers

Refuse Hideaway Landfill
License No. 01953
May-23
Sampler: Quin Lenz & Ashley Wagner

Landfill Wells				GEMS Code	72002	4189	10	94	400	2	1	3
WELL ID	GEMS ID	Sample Date	Duplicate Collected?	Sample Time	Depth To Water	Groundwater Elevation	Temperature	Specific Conductance	pH	Color	Odor	Clarity/ Turbidity
					(ft)	(ft msl)	(°C)	us/cm	(units)			
P-8S	125	5/16/2023	No	18:50	6.96	925.54	9.2	2190	6.63	Clear	None	Clear
P-8D	114	5/17/2023	No	9:33	5.7	925.28	10.3	2171	6.53	Clear	None	Clear
P-9S	139	5/17/2023	No	7:25	6.47	925.62	7.9	1785	6.83	Clear	None	Clear
P-9D	140	5/17/2023	No	7:46	0	930.43	9.7	3999*	6.47	Clear	None	Clear
P-16S	142	5/16/2023	No	16:59	10.99	925.79	10.1	732	6.63	Clear	None	Clear
P-16D	127	5/16/2023	No	17:30	12.43	923.87	11.4	2882	6.86	Clear	None	Clear
P-21S	133	5/17/2023	No	8:25	9.48	926.95	7.9	1621	6.94	Clear	None	Clear
P-21D	113	5/17/2023	No	8:48	10.97	925.97	10.3	3999*	6.39	Clear	None	Clear
P-21BR	134	5/17/2023	No	8:57	11.22	923.97	10.6	847	7.05	Clear	None	Clear
P-24D	115	5/17/2023	No	10:08	0	927.25	9.2	1088	6.9	Clear	None	Clear
P-24E	116	5/17/2023	FD-4	10:42/10:45	0	927.39	9.8	598	7	Clear	None	Clear
P-25S	117	5/16/2023	FD-2	11:12/11:14	19.26	923.88	10.6	920	7	Clear	None	Clear
P-28S	123	5/15/2023	No	14:05	196.83	927.5	10.6	651	7.04	Clear	None	Clear
P-29S	168	5/15/2023	No	16:35	234.95	928.15	10.3	558	7.39	Tan	None	Turbid
P-31S	148	5/16/2023	No	15:34	5.23	911.36	8.6	474	8.21	Clear	None	Clear
P-32S	150	5/16/2023	No	11:55	19	924.73	11.7	1353	7.13	Clear	None	Clear
P-32D	149	5/16/2023	No	12:00	19.84	922.82	11.4	712	7.11	Clear	None	Clear
P-33D	152	5/16/2023	No	19:10	0	928.5	11.1	610	7.33	Clear	None	Clear
P-34S	154	5/15/2023	No	12:30	160.01	931.09	10.4	579	7.35	Clear	None	Clear
P-34D	153	5/15/2023	No	12:40	161.82	929.16	10.2	518	7.34	Clear	None	Clear
P-41D	165	5/15/2023	No	18:15	13.79	911.03	9.5	689	7.23	Clear	None	Clear
P-17S	128	5/17/2023	No	7:38	144.91	936.84	10.1	972	6.63	Clear	None	Clear
P-18S	129	5/15/2023	No	19:00	94.41	926.16	10.9	659	7.18	Clear	None	Clear
P-20SR	167	5/16/2023	No	18:18	35.41	926.37	10.7	525	7.49	Clear	None	Clear
P-22S	135	5/16/2023	No	9:08	170.28	917.92	10.7	681	7.48	Clear	None	Clear
P-22D	136	5/16/2023	No	9:40	171.32	917.62	12.1	681	7.29	Yellowish	None	Clear
P-22E	174	5/16/2023	No	9:25	172.13	917.59	17.5	531	7.16	Clear	None	Clear
P-23S	137	5/16/2023	FD-3	17:17/17:19	36.16	925.55	11	598	6.99	Clear	None	Clear
P-23D	138	5/16/2023	No	17:01	35.83	925.7	10.7	522	7.3	Clear	None	Clear

P-25D	118	5/16/2023	No	11:11	24.05	919.81	11.8	549	7.27	Clear	None	Clear
P-25BR	119	5/16/2023	No	11:15	23.08	920.19	11.8	697	7.19	Clear	None	Clear
P-26S	141	5/15/2023	No	13:15	219.65	931.3	14.5	791	7.09	Clear	None	Clear
P-27S	121	5/15/2023	No	15:40	171.82	923.41	11.4	884	6.73	Brown	None	Turbid
P-27D	122	5/15/2023	No	15:22	172.39	923.17	12.3	892	6.81	Clear	None	Clear
P-30I	170	5/16/2023	No	14:28	17.53	913.41	10	752	7.33	Clear	None	Clear
P-30D	169	5/16/2023	No	14:25	19.49	913.48	9.6	452	7.37	Clear	None	Clear
P-311A	146	5/16/2023	No	15:48	0	916.77	12.3	926	7.07	Clear	None	Clear
P-311B	147	5/16/2023	No	15:06	0	916.49	10.9	844	7.04	Clear	None	Clear
P-31D	145	5/16/2023	No	15:10	0	915.72	11	512	7.21	Clear	None	Clear
P-43S	175	5/16/2023	FD-1	7:50/7:52	189.96	920.64	9.6	585	7.3	Clear	None	Clear
P-43I	176	5/16/2023	No	7:55	189.7	920.54	10.3	702	7.18	Clear	None	Clear
P-43D	177	5/16/2023	No	8:20	189.27	920.65	10.4	627	7.4	Clear	None	Clear

Private Wells				GEMS Code	10	94	400	2	1	3
Well Address	GEMS ID	Sample Date	Duplicate Collected?	Sample Time	Temperat	Specific	pH	Color	Odor	Clarity/ Turbidity
					ure	Conductance				
					(°C)	us/cm	(units)			
Deer Run	300	5/17/2023	N	12:30	12.1	939	7.3	Clear	None	Clear
734 USH 1	312	5/17/2023	N	11:25	12.9	971	7.06	Clear	None	Clear
750 USH 1	311	5/17/2023	N	11:45	14.2	808	7.38	Clear	None	Clear
6 Fawn Co	303	5/17/2023	N	13:18	12.4	1222	7.26	Clear	None	Clear
8 Fawn Co	304	5/17/2023	N	13:34	15.4	1303	7.29	Clear	None	Clear
Rocky Del	305	5/17/2023	N	16:52	12.3	775	7.21	Clear	None	Clear
Deer Run	302	5/17/2023	N	13:03	18	848	7.61	Clear	None	Clear
Deer Run	301	5/17/2023	N	12:47	13.3	736	7.41	Clear	None	Clear

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dan O'Connell
Cedar Corporation
1695 Bellevue Street
Green Bay, Wisconsin 54311

Generated 5/31/2023 5:40:35 PM

JOB DESCRIPTION

Refuse Hideaway Landfill

JOB NUMBER

500-234144-1

Eurofins Chicago

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Case Narrative

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Job ID: 500-234144-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-234144-1

Receipt

The samples were received on 5/18/2023 9:40 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 was 3.5° C.

GC/MS VOA

Method 8260D: The laboratory control sample (LCS) for analytical batch 500-715387 recovered outside control limits for the following analyte: Vinyl Chloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Acetone was detected in the following samples: P-30D (500-234144-1), P-30I (500-234144-2), P-31IB (500-234144-3), P-31D (500-234144-4), P-31S (500-234144-5), P-31IA (500-234144-6), FD-3 (500-234144-9), P-16S (500-234144-10), P-24E (500-234144-23), EB-1 (500-234144-32) and (MB 500-715387/6) Acetone is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

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



Detection Summary

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-30D

Lab Sample ID: 500-234144-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	B	10	1.7	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	19.49				ft		1	Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	452				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.37				SU	1		Field Sampling	Total/NA
Field Temperature	9.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	913.48				ft	1		Field Sampling	Total/NA

Client Sample ID: P-30I

Lab Sample ID: 500-234144-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.4	J B	10	1.7	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	17.53				ft		1	Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	752				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA
Field Temperature	10				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	913.41				ft	1		Field Sampling	Total/NA

Client Sample ID: P-31B

Lab Sample ID: 500-234144-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.9	J B	10	1.7	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.74	J	1.0	0.41	ug/L	1		8260D	Total/NA
Tetrachloroethene	2.1		1.0	0.37	ug/L	1		8260D	Total/NA
Trichloroethene	0.74		0.50	0.16	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	0				ft		1	Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	844				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.04				SU	1		Field Sampling	Total/NA
Field Temperature	10.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	916.49				ft	1		Field Sampling	Total/NA

Client Sample ID: P-31D

Lab Sample ID: 500-234144-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.6	J B	10	1.7	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	0				ft		1	Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	512				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.21				SU	1		Field Sampling	Total/NA
Field Temperature	11				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	915.72				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-31S

Lab Sample ID: 500-234144-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.1	J B	10	1.7	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	5.23				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	474				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	8.21				SU	1		Field Sampling	Total/NA
Field Temperature	8.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	911.36				ft	1		Field Sampling	Total/NA

Client Sample ID: P-31IA

Lab Sample ID: 500-234144-6

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J B	10	1.7	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.64	J	1.0	0.41	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.9		1.0	0.37	ug/L	1		8260D	Total/NA
Trichloroethene	0.63		0.50	0.16	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	0				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	926				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.07				SU	1		Field Sampling	Total/NA
Field Temperature	12.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	916.77				ft	1		Field Sampling	Total/NA

Client Sample ID: P-23D

Lab Sample ID: 500-234144-7

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	35.83				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	522				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.3				SU	1		Field Sampling	Total/NA
Field Temperature	10.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	925.7				ft	1		Field Sampling	Total/NA

Client Sample ID: P-23S

Lab Sample ID: 500-234144-8

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.2		1.0	0.37	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	36.16				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	598				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	6.99				SU	1		Field Sampling	Total/NA
Field Temperature	11				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	925.55				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: FD-3

Lab Sample ID: 500-234144-9

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.6	J B	10	1.7	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.2		1.0	0.37	ug/L	1		8260D	Total/NA

Client Sample ID: P-16S

Lab Sample ID: 500-234144-10

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.0	J B	10	1.7	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	10.99				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	732				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	6.63				SU	1		Field Sampling	Total/NA
Field Temperature	10.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	925.79				ft	1		Field Sampling	Total/NA

Client Sample ID: P-16D

Lab Sample ID: 500-234144-11

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.43	J	0.50	0.15	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.61	J	1.0	0.41	ug/L	1		8260D	Total/NA
Tetrahydrofuran	59		10	1.9	ug/L	1		8260D	Total/NA
Trichloroethene	0.24	J	0.50	0.16	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	12.43				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	2882				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	6.86				SU	1		Field Sampling	Total/NA
Field Temperature	11.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	923.87				ft	1		Field Sampling	Total/NA

Client Sample ID: P-20SR

Lab Sample ID: 500-234144-12

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.4		1.0	0.37	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	35.41				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	525				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.49				SU	1		Field Sampling	Total/NA
Field Temperature	10.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	926.37				ft	1		Field Sampling	Total/NA

Client Sample ID: P-08S

Lab Sample ID: 500-234144-13

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.46	J	0.50	0.15	ug/L	1		8260D	Total/NA
Chlorobenzene	4.3		1.0	0.39	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	7.8		1.0	0.41	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	1.8		1.0	0.36	ug/L	1		8260D	Total/NA
Isopropylbenzene	0.60	J	1.0	0.39	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-08S (Continued)

Lab Sample ID: 500-234144-13

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.78	J	1.0	0.37	ug/L	1		8260D	Total/NA
Tetrahydrofuran	58		10	1.9	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.37	J	1.0	0.35	ug/L	1		8260D	Total/NA
Trichloroethene	1.3		0.50	0.16	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	6.96				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	2190				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	6.63				SU	1		Field Sampling	Total/NA
Field Temperature	9.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	925.54				ft	1		Field Sampling	Total/NA

Client Sample ID: P-33D

Lab Sample ID: 500-234144-14

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.77	J	2.0	0.45	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	0				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	610				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA
Field Temperature	11.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	928.5				ft	1		Field Sampling	Total/NA

Client Sample ID: P-17S

Lab Sample ID: 500-234144-15

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.62	J	1.0	0.41	ug/L	1		8260D	Total/NA
Tetrachloroethene	2.0		1.0	0.37	ug/L	1		8260D	Total/NA
Trichloroethene	0.32	J	0.50	0.16	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	144.91				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	972				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	6.63				SU	1		Field Sampling	Total/NA
Field Temperature	10.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	936.84				ft	1		Field Sampling	Total/NA

Client Sample ID: P-9S

Lab Sample ID: 500-234144-16

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.28	J	0.50	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.42	J	1.0	0.41	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.59	J	1.0	0.37	ug/L	1		8260D	Total/NA
Tetrahydrofuran	55		10	1.9	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	6.47				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	1785				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-9S (Continued)

Lab Sample ID: 500-234144-16

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Field pH	6.83				SU	1		Field Sampling	Total/NA
Field Temperature	7.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	925.62				ft	1		Field Sampling	Total/NA

Client Sample ID: P-9D

Lab Sample ID: 500-234144-17

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.8		0.50	0.15	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	2.1		1.0	0.41	ug/L	1		8260D	Total/NA
Isopropyl ether	0.56	J	1.0	0.28	ug/L	1		8260D	Total/NA
Methyl tert-butyl ether	0.75	J	1.0	0.39	ug/L	1		8260D	Total/NA
Tetrahydrofuran	240		10	1.9	ug/L	1		8260D	Total/NA
Toluene	0.27	J	0.50	0.15	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.72	J	1.0	0.35	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	0				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	3999				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	6.47				SU	1		Field Sampling	Total/NA
Field Temperature	9.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	930.43				ft	1		Field Sampling	Total/NA

Client Sample ID: P-21S

Lab Sample ID: 500-234144-18

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	9.48				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	1621				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	6.94				SU	1		Field Sampling	Total/NA
Field Temperature	7.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	926.95				ft	1		Field Sampling	Total/NA

Client Sample ID: P-21D

Lab Sample ID: 500-234144-19

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.4		0.50	0.15	ug/L	1		8260D	Total/NA
Chlorobenzene	1.2		1.0	0.39	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	5.5		1.0	0.41	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	3.3		1.0	0.41	ug/L	1		8260D	Total/NA
Isopropylbenzene	0.63	J	1.0	0.39	ug/L	1		8260D	Total/NA
Isopropyl ether	0.52	J	1.0	0.28	ug/L	1		8260D	Total/NA
Tetrahydrofuran	300		10	1.9	ug/L	1		8260D	Total/NA
Toluene	0.26	J	0.50	0.15	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.0		1.0	0.35	ug/L	1		8260D	Total/NA
Vinyl chloride	3.8		1.0	0.20	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	10.97				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	3999				uS/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-21D (Continued)

Lab Sample ID: 500-234144-19

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	6.39				SU	1		Field Sampling	Total/NA
Field Temperature	10.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	925.97				ft	1		Field Sampling	Total/NA

Client Sample ID: P-21BR

Lab Sample ID: 500-234144-20

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.2		1.0	0.41	ug/L	1		8260D	Total/NA
Tetrahydrofuran	3.8	J	10	1.9	ug/L	1		8260D	Total/NA
Trichloroethene	1.9		0.50	0.16	ug/L	1		8260D	Total/NA
Vinyl chloride	0.73	J	1.0	0.20	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	11.22				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	847				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.05				SU	1		Field Sampling	Total/NA
Field Temperature	10.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	923.97				ft	1		Field Sampling	Total/NA

Client Sample ID: P-08D

Lab Sample ID: 500-234144-21

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.68		0.50	0.15	ug/L	1		8260D	Total/NA
Chlorobenzene	1.9		1.0	0.39	ug/L	1		8260D	Total/NA
Tetrahydrofuran	92		10	1.9	ug/L	1		8260D	Total/NA
Trichloroethene	0.17	J	0.50	0.16	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	5.7				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	2171				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	6.53				SU	1		Field Sampling	Total/NA
Field Temperature	10.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	925.28				ft	1		Field Sampling	Total/NA

Client Sample ID: P-24D

Lab Sample ID: 500-234144-22

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	20		1.0	0.41	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.3		1.0	0.41	ug/L	1		8260D	Total/NA
Tetrahydrofuran	6.6	J	10	1.9	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.78	J	1.0	0.35	ug/L	1		8260D	Total/NA
Vinyl chloride	20		1.0	0.20	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	0				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	1088				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	6.9				SU	1		Field Sampling	Total/NA
Field Temperature	9.2				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Detection Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-24D (Continued)

Lab Sample ID: 500-234144-22

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	927.25				ft	1		Field Sampling	Total/NA

Client Sample ID: P-24E

Lab Sample ID: 500-234144-23

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J	10	1.7	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.7		1.0	0.41	ug/L	1		8260D	Total/NA
Vinyl chloride	0.63	J	1.0	0.20	ug/L	1		8260D	Total/NA
Depth to Water (ft from MP)	0				ft	1		Field Sampling	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	598				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7				SU	1		Field Sampling	Total/NA
Field Temperature	9.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA
Groundwater Elevation (ft MSL)	927.39				ft	1		Field Sampling	Total/NA

Client Sample ID: FD-4

Lab Sample ID: 500-234144-24

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.6		1.0	0.41	ug/L	1		8260D	Total/NA
Vinyl chloride	0.64	J	1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: 7734 USH 14

Lab Sample ID: 500-234144-25

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.98		0.50	0.20	ug/L	1		524.2	Total/NA
Tetrachloroethene	3.3		0.50	0.20	ug/L	1		524.2	Total/NA
Trichloroethene	0.73		0.50	0.20	ug/L	1		524.2	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	971				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.06				SU	1		Field Sampling	Total/NA
Field Temperature	12.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA

Client Sample ID: 7750 USH 14

Lab Sample ID: 500-234144-26

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4		0.50	0.20	ug/L	1		524.2	Total/NA
Tetrachloroethene	2.3		0.50	0.20	ug/L	1		524.2	Total/NA
Trichloroethene	0.48	J	0.50	0.20	ug/L	1		524.2	Total/NA
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	808				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.38				SU	1		Field Sampling	Total/NA
Field Temperature	14.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: 7911 Deer Run

Lab Sample ID: 500-234144-27

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	939				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.3				SU	1		Field Sampling	Total/NA
Field Temperature	12.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA

Client Sample ID: 7877 Deer Run

Lab Sample ID: 500-234144-28

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	736				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.41				SU	1		Field Sampling	Total/NA
Field Temperature	13.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA

Client Sample ID: 7872 Deer Run

Lab Sample ID: 500-234144-29

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	848				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.61				SU	1		Field Sampling	Total/NA
Field Temperature	18				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA

Client Sample ID: 4306 Fawn Ct

Lab Sample ID: 500-234144-30

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	1222				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.26				SU	1		Field Sampling	Total/NA
Field Temperature	12.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA

Client Sample ID: 4318 Fawn Ct

Lab Sample ID: 500-234144-31

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Field Color	N				NONE	1		Field Sampling	Total/NA
Field Conductivity	1303				uS/cm	1		Field Sampling	Total/NA
Field Odor	N				NONE	1		Field Sampling	Total/NA
Field pH	7.29				SU	1		Field Sampling	Total/NA
Field Temperature	15.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	N				NONE	1		Field Sampling	Total/NA

Client Sample ID: EB-1

Lab Sample ID: 500-234144-32

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.2	J	10	1.7	ug/L	1		8260D	Total/NA
Benzene	0.19	J	0.50	0.15	ug/L	1		8260D	Total/NA
Toluene	0.15	J	0.50	0.15	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: EB-1 (Continued)

Lab Sample ID: 500-234144-32

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	0.31	J	1.0	0.22	ug/L	1		8260D	Total/NA

Client Sample ID: TB-3

Lab Sample ID: 500-234144-33

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	EA SB
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
Field Sampling	Field Sampling	EPA	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

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

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-234144-1	P-30D	Water	05/16/23 14:25	05/18/23 09:40
500-234144-2	P-30I	Water	05/16/23 14:28	05/18/23 09:40
500-234144-3	P-31IB	Water	05/16/23 15:06	05/18/23 09:40
500-234144-4	P-31D	Water	05/16/23 15:10	05/18/23 09:40
500-234144-5	P-31S	Water	05/16/23 15:34	05/18/23 09:40
500-234144-6	P-31IA	Water	05/16/23 15:48	05/18/23 09:40
500-234144-7	P-23D	Water	05/16/23 17:01	05/18/23 09:40
500-234144-8	P-23S	Water	05/16/23 17:17	05/18/23 09:40
500-234144-9	FD-3	Water	05/16/23 17:19	05/18/23 09:40
500-234144-10	P-16S	Water	05/16/23 16:59	05/18/23 09:40
500-234144-11	P-16D	Water	05/16/23 17:30	05/18/23 09:40
500-234144-12	P-20SR	Water	05/16/23 18:18	05/18/23 09:40
500-234144-13	P-08S	Water	05/16/23 18:50	05/18/23 09:40
500-234144-14	P-33D	Water	05/16/23 19:10	05/18/23 09:40
500-234144-15	P-17S	Water	05/17/23 07:38	05/18/23 09:40
500-234144-16	P-9S	Water	05/17/23 07:25	05/18/23 09:40
500-234144-17	P-9D	Water	05/17/23 07:46	05/18/23 09:40
500-234144-18	P-21S	Water	05/17/23 08:25	05/18/23 09:40
500-234144-19	P-21D	Water	05/17/23 08:48	05/18/23 09:40
500-234144-20	P-21BR	Water	05/17/23 08:57	05/18/23 09:40
500-234144-21	P-08D	Water	05/17/23 09:33	05/18/23 09:40
500-234144-22	P-24D	Water	05/17/23 10:08	05/18/23 09:40
500-234144-23	P-24E	Water	05/17/23 10:42	05/18/23 09:40
500-234144-24	FD-4	Water	05/17/23 10:45	05/18/23 09:40
500-234144-25	7734 USH 14	Water	05/17/23 11:25	05/18/23 09:40
500-234144-26	7750 USH 14	Water	05/17/23 11:45	05/18/23 09:40
500-234144-27	7911 Deer Run	Water	05/17/23 12:30	05/18/23 09:40
500-234144-28	7877 Deer Run	Water	05/17/23 12:47	05/18/23 09:40
500-234144-29	7872 Deer Run	Water	05/17/23 13:03	05/18/23 09:40
500-234144-30	4306 Fawn Ct	Water	05/17/23 13:18	05/18/23 09:40
500-234144-31	4318 Fawn Ct	Water	05/17/23 13:34	05/18/23 09:40
500-234144-32	EB-1	Water	05/17/23 06:30	05/18/23 09:40
500-234144-33	TB-3	Water	05/17/23 00:00	05/18/23 09:40

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-30D

Lab Sample ID: 500-234144-1

Date Collected: 05/16/23 14:25

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	14	B	10	1.7	ug/L			05/26/23 00:58	1
Benzene	<0.15		0.50	0.15	ug/L			05/26/23 00:58	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 00:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 00:58	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 00:58	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 00:58	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 00:58	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 00:58	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 00:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 00:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 00:58	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 00:58	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 00:58	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 00:58	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 00:58	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 00:58	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/26/23 00:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 00:58	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 00:58	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 00:58	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 00:58	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 00:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 00:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 00:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 00:58	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 00:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 00:58	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 00:58	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 00:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 00:58	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 00:58	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 00:58	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 00:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 00:58	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 00:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 00:58	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 00:58	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 00:58	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 00:58	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 00:58	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 00:58	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 00:58	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 00:58	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 00:58	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 00:58	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 00:58	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 00:58	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 00:58	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/26/23 00:58	1

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Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-30D
Date Collected: 05/16/23 14:25
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/26/23 00:58	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 00:58	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 00:58	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 00:58	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 00:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 00:58	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 00:58	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 00:58	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/26/23 00:58	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 00:58	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 00:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 00:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 00:58	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 00:58	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124					05/26/23 00:58	1
Dibromofluoromethane (Surr)	92		75 - 120					05/26/23 00:58	1
1,2-Dichloroethane-d4 (Surr)	96		75 - 126					05/26/23 00:58	1
Toluene-d8 (Surr)	92		75 - 120					05/26/23 00:58	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	19.49				ft			05/16/23 14:25	1
Field Color	N				NONE			05/16/23 14:25	1
Field Conductivity	452				uS/cm			05/16/23 14:25	1
Field Odor	N				NONE			05/16/23 14:25	1
Field pH	7.37				SU			05/16/23 14:25	1
Field Temperature	9.6				Degrees C			05/16/23 14:25	1
Field Turbidity	N				NONE			05/16/23 14:25	1
Groundwater Elevation (ft MSL)	913.48				ft			05/16/23 14:25	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-301

Lab Sample ID: 500-234144-2

Date Collected: 05/16/23 14:28

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	8.4	J B	10	1.7	ug/L			05/26/23 01:22	1
Benzene	<0.15		0.50	0.15	ug/L			05/26/23 01:22	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 01:22	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 01:22	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 01:22	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 01:22	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 01:22	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 01:22	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 01:22	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 01:22	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 01:22	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 01:22	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 01:22	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 01:22	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 01:22	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 01:22	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/26/23 01:22	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 01:22	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 01:22	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 01:22	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 01:22	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 01:22	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 01:22	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 01:22	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 01:22	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 01:22	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 01:22	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 01:22	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 01:22	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 01:22	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 01:22	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 01:22	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 01:22	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 01:22	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 01:22	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 01:22	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 01:22	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 01:22	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 01:22	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 01:22	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 01:22	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 01:22	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 01:22	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 01:22	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 01:22	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 01:22	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 01:22	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 01:22	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/26/23 01:22	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-301
Date Collected: 05/16/23 14:28
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/26/23 01:22	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 01:22	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 01:22	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 01:22	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 01:22	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 01:22	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 01:22	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 01:22	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/26/23 01:22	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 01:22	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 01:22	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 01:22	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 01:22	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 01:22	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124		05/26/23 01:22	1
Dibromofluoromethane (Surr)	93		75 - 120		05/26/23 01:22	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		05/26/23 01:22	1
Toluene-d8 (Surr)	94		75 - 120		05/26/23 01:22	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	17.53				ft			05/16/23 14:28	1
Field Color	N				NONE			05/16/23 14:28	1
Field Conductivity	752				uS/cm			05/16/23 14:28	1
Field Odor	N				NONE			05/16/23 14:28	1
Field pH	7.33				SU			05/16/23 14:28	1
Field Temperature	10				Degrees C			05/16/23 14:28	1
Field Turbidity	N				NONE			05/16/23 14:28	1
Groundwater Elevation (ft MSL)	913.41				ft			05/16/23 14:28	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-311B

Lab Sample ID: 500-234144-3

Date Collected: 05/16/23 15:06

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	9.9	J B	10	1.7	ug/L			05/26/23 01:47	1
Benzene	<0.15		0.50	0.15	ug/L			05/26/23 01:47	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 01:47	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 01:47	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 01:47	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 01:47	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 01:47	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 01:47	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 01:47	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 01:47	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 01:47	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 01:47	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 01:47	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 01:47	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 01:47	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 01:47	1
cis-1,2-Dichloroethene	0.74	J	1.0	0.41	ug/L			05/26/23 01:47	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 01:47	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 01:47	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 01:47	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 01:47	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 01:47	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 01:47	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 01:47	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 01:47	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 01:47	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 01:47	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 01:47	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 01:47	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 01:47	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 01:47	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 01:47	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 01:47	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 01:47	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 01:47	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 01:47	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 01:47	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 01:47	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 01:47	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 01:47	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 01:47	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 01:47	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 01:47	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 01:47	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 01:47	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 01:47	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 01:47	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 01:47	1
Tetrachloroethene	2.1		1.0	0.37	ug/L			05/26/23 01:47	1

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Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-311B

Lab Sample ID: 500-234144-3

Date Collected: 05/16/23 15:06

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/26/23 01:47	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 01:47	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 01:47	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 01:47	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 01:47	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 01:47	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 01:47	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 01:47	1
Trichloroethene	0.74		0.50	0.16	ug/L			05/26/23 01:47	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 01:47	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 01:47	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 01:47	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 01:47	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 01:47	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124		05/26/23 01:47	1
Dibromofluoromethane (Surr)	93		75 - 120		05/26/23 01:47	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		05/26/23 01:47	1
Toluene-d8 (Surr)	92		75 - 120		05/26/23 01:47	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	0				ft			05/16/23 15:06	1
Field Color	N				NONE			05/16/23 15:06	1
Field Conductivity	844				uS/cm			05/16/23 15:06	1
Field Odor	N				NONE			05/16/23 15:06	1
Field pH	7.04				SU			05/16/23 15:06	1
Field Temperature	10.9				Degrees C			05/16/23 15:06	1
Field Turbidity	N				NONE			05/16/23 15:06	1
Groundwater Elevation (ft MSL)	916.49				ft			05/16/23 15:06	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-31D
Date Collected: 05/16/23 15:10
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.6	J B	10	1.7	ug/L			05/26/23 02:11	1
Benzene	<0.15		0.50	0.15	ug/L			05/26/23 02:11	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 02:11	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 02:11	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 02:11	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 02:11	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 02:11	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 02:11	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 02:11	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 02:11	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 02:11	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 02:11	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 02:11	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 02:11	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 02:11	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 02:11	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/26/23 02:11	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 02:11	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 02:11	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 02:11	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 02:11	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 02:11	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 02:11	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 02:11	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 02:11	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 02:11	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 02:11	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 02:11	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 02:11	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 02:11	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 02:11	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 02:11	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 02:11	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 02:11	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 02:11	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 02:11	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 02:11	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 02:11	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 02:11	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 02:11	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 02:11	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 02:11	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 02:11	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 02:11	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 02:11	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 02:11	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 02:11	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 02:11	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/26/23 02:11	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-31D
Date Collected: 05/16/23 15:10
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/26/23 02:11	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 02:11	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 02:11	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 02:11	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 02:11	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 02:11	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 02:11	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 02:11	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/26/23 02:11	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 02:11	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 02:11	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 02:11	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 02:11	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 02:11	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124		05/26/23 02:11	1
Dibromofluoromethane (Surr)	97		75 - 120		05/26/23 02:11	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 126		05/26/23 02:11	1
Toluene-d8 (Surr)	92		75 - 120		05/26/23 02:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	0				ft			05/16/23 15:10	1
Field Color	N				NONE			05/16/23 15:10	1
Field Conductivity	512				uS/cm			05/16/23 15:10	1
Field Odor	N				NONE			05/16/23 15:10	1
Field pH	7.21				SU			05/16/23 15:10	1
Field Temperature	11				Degrees C			05/16/23 15:10	1
Field Turbidity	N				NONE			05/16/23 15:10	1
Groundwater Elevation (ft MSL)	915.72				ft			05/16/23 15:10	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-31S
Date Collected: 05/16/23 15:34
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.1	J B	10	1.7	ug/L			05/26/23 02:35	1
Benzene	<0.15		0.50	0.15	ug/L			05/26/23 02:35	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 02:35	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 02:35	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 02:35	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 02:35	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 02:35	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 02:35	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 02:35	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 02:35	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 02:35	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 02:35	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 02:35	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 02:35	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 02:35	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 02:35	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/26/23 02:35	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 02:35	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 02:35	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 02:35	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 02:35	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 02:35	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 02:35	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 02:35	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 02:35	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 02:35	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 02:35	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 02:35	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 02:35	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 02:35	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 02:35	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 02:35	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 02:35	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 02:35	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 02:35	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 02:35	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 02:35	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 02:35	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 02:35	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 02:35	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 02:35	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 02:35	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 02:35	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 02:35	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 02:35	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 02:35	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 02:35	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 02:35	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/26/23 02:35	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-31S
Date Collected: 05/16/23 15:34
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/26/23 02:35	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 02:35	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 02:35	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 02:35	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 02:35	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 02:35	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 02:35	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 02:35	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/26/23 02:35	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 02:35	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 02:35	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 02:35	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 02:35	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 02:35	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124		05/26/23 02:35	1
Dibromofluoromethane (Surr)	96		75 - 120		05/26/23 02:35	1
1,2-Dichloroethane-d4 (Surr)	102		75 - 126		05/26/23 02:35	1
Toluene-d8 (Surr)	94		75 - 120		05/26/23 02:35	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	5.23				ft			05/16/23 15:34	1
Field Color	N				NONE			05/16/23 15:34	1
Field Conductivity	474				uS/cm			05/16/23 15:34	1
Field Odor	N				NONE			05/16/23 15:34	1
Field pH	8.21				SU			05/16/23 15:34	1
Field Temperature	8.6				Degrees C			05/16/23 15:34	1
Field Turbidity	N				NONE			05/16/23 15:34	1
Groundwater Elevation (ft MSL)	911.36				ft			05/16/23 15:34	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-31IA

Lab Sample ID: 500-234144-6

Date Collected: 05/16/23 15:48

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.0	J B	10	1.7	ug/L			05/26/23 03:00	1
Benzene	<0.15		0.50	0.15	ug/L			05/26/23 03:00	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 03:00	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 03:00	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 03:00	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 03:00	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 03:00	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 03:00	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 03:00	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 03:00	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 03:00	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 03:00	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 03:00	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 03:00	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 03:00	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 03:00	1
cis-1,2-Dichloroethene	0.64	J	1.0	0.41	ug/L			05/26/23 03:00	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 03:00	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 03:00	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 03:00	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 03:00	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 03:00	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 03:00	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 03:00	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 03:00	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 03:00	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 03:00	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 03:00	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 03:00	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 03:00	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 03:00	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 03:00	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 03:00	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 03:00	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 03:00	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 03:00	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 03:00	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 03:00	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 03:00	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 03:00	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 03:00	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 03:00	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 03:00	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 03:00	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 03:00	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 03:00	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 03:00	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 03:00	1
Tetrachloroethene	1.9		1.0	0.37	ug/L			05/26/23 03:00	1

Eurofins Chicago

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-31IA

Lab Sample ID: 500-234144-6

Date Collected: 05/16/23 15:48

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/26/23 03:00	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 03:00	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 03:00	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 03:00	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 03:00	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 03:00	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 03:00	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 03:00	1
Trichloroethene	0.63		0.50	0.16	ug/L			05/26/23 03:00	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 03:00	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 03:00	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 03:00	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 03:00	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 03:00	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 03:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124		05/26/23 03:00	1
Dibromofluoromethane (Surr)	94		75 - 120		05/26/23 03:00	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 126		05/26/23 03:00	1
Toluene-d8 (Surr)	93		75 - 120		05/26/23 03:00	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	0				ft			05/16/23 15:48	1
Field Color	N				NONE			05/16/23 15:48	1
Field Conductivity	926				uS/cm			05/16/23 15:48	1
Field Odor	N				NONE			05/16/23 15:48	1
Field pH	7.07				SU			05/16/23 15:48	1
Field Temperature	12.3				Degrees C			05/16/23 15:48	1
Field Turbidity	N				NONE			05/16/23 15:48	1
Groundwater Elevation (ft MSL)	916.77				ft			05/16/23 15:48	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-23D

Lab Sample ID: 500-234144-7

Date Collected: 05/16/23 17:01

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/26/23 03:24	1
Benzene	<0.15		0.50	0.15	ug/L			05/26/23 03:24	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 03:24	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 03:24	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 03:24	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 03:24	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 03:24	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 03:24	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 03:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 03:24	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 03:24	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 03:24	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 03:24	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 03:24	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 03:24	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 03:24	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/26/23 03:24	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 03:24	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 03:24	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 03:24	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 03:24	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 03:24	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 03:24	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 03:24	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 03:24	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 03:24	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 03:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 03:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 03:24	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 03:24	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 03:24	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 03:24	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 03:24	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 03:24	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 03:24	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 03:24	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 03:24	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 03:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 03:24	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 03:24	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 03:24	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 03:24	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 03:24	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 03:24	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 03:24	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 03:24	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 03:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 03:24	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/26/23 03:24	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-23D

Lab Sample ID: 500-234144-7

Date Collected: 05/16/23 17:01

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/26/23 03:24	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 03:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 03:24	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 03:24	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 03:24	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 03:24	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 03:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 03:24	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/26/23 03:24	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 03:24	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 03:24	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 03:24	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 03:24	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 03:24	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124		05/26/23 03:24	1
Dibromofluoromethane (Surr)	96		75 - 120		05/26/23 03:24	1
1,2-Dichloroethane-d4 (Surr)	102		75 - 126		05/26/23 03:24	1
Toluene-d8 (Surr)	92		75 - 120		05/26/23 03:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	35.83				ft			05/16/23 17:01	1
Field Color	N				NONE			05/16/23 17:01	1
Field Conductivity	522				uS/cm			05/16/23 17:01	1
Field Odor	N				NONE			05/16/23 17:01	1
Field pH	7.3				SU			05/16/23 17:01	1
Field Temperature	10.7				Degrees C			05/16/23 17:01	1
Field Turbidity	N				NONE			05/16/23 17:01	1
Groundwater Elevation (ft MSL)	925.7				ft			05/16/23 17:01	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-23S

Lab Sample ID: 500-234144-8

Date Collected: 05/16/23 17:17

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/26/23 03:49	1
Benzene	<0.15		0.50	0.15	ug/L			05/26/23 03:49	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 03:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 03:49	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 03:49	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 03:49	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 03:49	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 03:49	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 03:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 03:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 03:49	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 03:49	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 03:49	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 03:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 03:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 03:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/26/23 03:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 03:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 03:49	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 03:49	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 03:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 03:49	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 03:49	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 03:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 03:49	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 03:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 03:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 03:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 03:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 03:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 03:49	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 03:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 03:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 03:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 03:49	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 03:49	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 03:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 03:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 03:49	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 03:49	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 03:49	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 03:49	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 03:49	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 03:49	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 03:49	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 03:49	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 03:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 03:49	1
Tetrachloroethene	1.2		1.0	0.37	ug/L			05/26/23 03:49	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-23S

Lab Sample ID: 500-234144-8

Date Collected: 05/16/23 17:17

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/26/23 03:49	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 03:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 03:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 03:49	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 03:49	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 03:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 03:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 03:49	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/26/23 03:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 03:49	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 03:49	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 03:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 03:49	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 03:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124		05/26/23 03:49	1
Dibromofluoromethane (Surr)	96		75 - 120		05/26/23 03:49	1
1,2-Dichloroethane-d4 (Surr)	101		75 - 126		05/26/23 03:49	1
Toluene-d8 (Surr)	92		75 - 120		05/26/23 03:49	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	36.16				ft			05/16/23 17:17	1
Field Color	N				NONE			05/16/23 17:17	1
Field Conductivity	598				uS/cm			05/16/23 17:17	1
Field Odor	N				NONE			05/16/23 17:17	1
Field pH	6.99				SU			05/16/23 17:17	1
Field Temperature	11				Degrees C			05/16/23 17:17	1
Field Turbidity	N				NONE			05/16/23 17:17	1
Groundwater Elevation (ft MSL)	925.55				ft			05/16/23 17:17	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: FD-3

Lab Sample ID: 500-234144-9

Date Collected: 05/16/23 17:19

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.6	J B	10	1.7	ug/L			05/26/23 04:13	1
Benzene	<0.15		0.50	0.15	ug/L			05/26/23 04:13	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 04:13	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 04:13	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 04:13	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 04:13	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 04:13	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 04:13	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 04:13	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 04:13	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 04:13	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 04:13	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 04:13	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 04:13	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 04:13	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 04:13	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/26/23 04:13	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 04:13	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 04:13	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 04:13	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 04:13	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 04:13	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 04:13	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 04:13	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 04:13	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 04:13	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 04:13	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 04:13	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 04:13	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 04:13	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 04:13	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 04:13	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 04:13	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 04:13	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 04:13	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 04:13	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 04:13	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 04:13	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 04:13	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 04:13	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 04:13	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 04:13	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 04:13	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 04:13	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 04:13	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 04:13	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 04:13	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 04:13	1
Tetrachloroethene	1.2		1.0	0.37	ug/L			05/26/23 04:13	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: FD-3
Date Collected: 05/16/23 17:19
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/26/23 04:13	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 04:13	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 04:13	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 04:13	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 04:13	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 04:13	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 04:13	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 04:13	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/26/23 04:13	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 04:13	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 04:13	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 04:13	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 04:13	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 04:13	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124					05/26/23 04:13	1
Dibromofluoromethane (Surr)	96		75 - 120					05/26/23 04:13	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 126					05/26/23 04:13	1
Toluene-d8 (Surr)	93		75 - 120					05/26/23 04:13	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-16S

Lab Sample ID: 500-234144-10

Date Collected: 05/16/23 16:59

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	J B	10	1.7	ug/L			05/26/23 04:38	1
Benzene	<0.15		0.50	0.15	ug/L			05/26/23 04:38	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 04:38	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 04:38	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 04:38	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 04:38	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 04:38	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 04:38	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 04:38	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 04:38	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 04:38	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 04:38	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 04:38	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 04:38	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 04:38	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 04:38	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/26/23 04:38	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 04:38	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 04:38	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 04:38	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 04:38	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 04:38	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 04:38	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 04:38	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 04:38	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 04:38	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 04:38	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 04:38	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 04:38	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 04:38	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 04:38	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 04:38	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 04:38	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 04:38	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 04:38	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 04:38	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 04:38	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 04:38	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 04:38	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 04:38	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 04:38	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 04:38	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 04:38	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 04:38	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 04:38	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 04:38	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 04:38	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 04:38	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/26/23 04:38	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-16S

Lab Sample ID: 500-234144-10

Date Collected: 05/16/23 16:59

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/26/23 04:38	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 04:38	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 04:38	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 04:38	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 04:38	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 04:38	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 04:38	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 04:38	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/26/23 04:38	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 04:38	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 04:38	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 04:38	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 04:38	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 04:38	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 04:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		72 - 124		05/26/23 04:38	1
Dibromofluoromethane (Surr)	95		75 - 120		05/26/23 04:38	1
1,2-Dichloroethane-d4 (Surr)	102		75 - 126		05/26/23 04:38	1
Toluene-d8 (Surr)	95		75 - 120		05/26/23 04:38	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	10.99				ft			05/16/23 16:59	1
Field Color	N				NONE			05/16/23 16:59	1
Field Conductivity	732				uS/cm			05/16/23 16:59	1
Field Odor	N				NONE			05/16/23 16:59	1
Field pH	6.63				SU			05/16/23 16:59	1
Field Temperature	10.1				Degrees C			05/16/23 16:59	1
Field Turbidity	N				NONE			05/16/23 16:59	1
Groundwater Elevation (ft MSL)	925.79				ft			05/16/23 16:59	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-16D
Date Collected: 05/16/23 17:30
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/26/23 05:02	1
Benzene	0.43	J	0.50	0.15	ug/L			05/26/23 05:02	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 05:02	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 05:02	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 05:02	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 05:02	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 05:02	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 05:02	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 05:02	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 05:02	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 05:02	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 05:02	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 05:02	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 05:02	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 05:02	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 05:02	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/26/23 05:02	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 05:02	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 05:02	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 05:02	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 05:02	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 05:02	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 05:02	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 05:02	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 05:02	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 05:02	1
1,1-Dichloroethane	0.61	J	1.0	0.41	ug/L			05/26/23 05:02	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 05:02	1
1,1,1-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 05:02	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 05:02	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 05:02	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 05:02	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 05:02	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 05:02	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 05:02	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 05:02	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 05:02	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 05:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 05:02	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 05:02	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 05:02	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 05:02	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 05:02	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 05:02	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 05:02	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 05:02	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 05:02	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 05:02	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/26/23 05:02	1

Eurofins Chicago

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-16D
Date Collected: 05/16/23 17:30
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	59		10	1.9	ug/L			05/26/23 05:02	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 05:02	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 05:02	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 05:02	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 05:02	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 05:02	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 05:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 05:02	1
Trichloroethene	0.24	J	0.50	0.16	ug/L			05/26/23 05:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 05:02	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 05:02	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 05:02	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 05:02	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 05:02	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 05:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124		05/26/23 05:02	1
Dibromofluoromethane (Surr)	97		75 - 120		05/26/23 05:02	1
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		05/26/23 05:02	1
Toluene-d8 (Surr)	92		75 - 120		05/26/23 05:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	12.43				ft			05/16/23 17:30	1
Field Color	N				NONE			05/16/23 17:30	1
Field Conductivity	2882				uS/cm			05/16/23 17:30	1
Field Odor	N				NONE			05/16/23 17:30	1
Field pH	6.86				SU			05/16/23 17:30	1
Field Temperature	11.4				Degrees C			05/16/23 17:30	1
Field Turbidity	N				NONE			05/16/23 17:30	1
Groundwater Elevation (ft MSL)	923.87				ft			05/16/23 17:30	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-20SR

Lab Sample ID: 500-234144-12

Date Collected: 05/16/23 18:18

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/26/23 05:27	1
Benzene	<0.15		0.50	0.15	ug/L			05/26/23 05:27	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 05:27	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 05:27	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 05:27	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 05:27	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 05:27	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 05:27	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 05:27	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 05:27	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 05:27	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 05:27	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 05:27	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 05:27	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 05:27	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 05:27	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/26/23 05:27	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 05:27	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 05:27	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 05:27	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 05:27	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 05:27	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 05:27	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 05:27	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 05:27	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 05:27	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 05:27	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 05:27	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 05:27	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 05:27	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 05:27	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 05:27	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 05:27	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 05:27	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 05:27	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 05:27	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 05:27	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 05:27	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 05:27	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 05:27	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 05:27	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 05:27	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 05:27	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 05:27	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 05:27	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 05:27	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 05:27	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 05:27	1
Tetrachloroethene	1.4		1.0	0.37	ug/L			05/26/23 05:27	1

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Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-20SR

Lab Sample ID: 500-234144-12

Date Collected: 05/16/23 18:18

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/26/23 05:27	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 05:27	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 05:27	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 05:27	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 05:27	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 05:27	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 05:27	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 05:27	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/26/23 05:27	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 05:27	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 05:27	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 05:27	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 05:27	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 05:27	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 05:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124		05/26/23 05:27	1
Dibromofluoromethane (Surr)	96		75 - 120		05/26/23 05:27	1
1,2-Dichloroethane-d4 (Surr)	99		75 - 126		05/26/23 05:27	1
Toluene-d8 (Surr)	92		75 - 120		05/26/23 05:27	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	35.41				ft			05/16/23 18:18	1
Field Color	N				NONE			05/16/23 18:18	1
Field Conductivity	525				uS/cm			05/16/23 18:18	1
Field Odor	N				NONE			05/16/23 18:18	1
Field pH	7.49				SU			05/16/23 18:18	1
Field Temperature	10.7				Degrees C			05/16/23 18:18	1
Field Turbidity	N				NONE			05/16/23 18:18	1
Groundwater Elevation (ft MSL)	926.37				ft			05/16/23 18:18	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-08S

Lab Sample ID: 500-234144-13

Date Collected: 05/16/23 18:50

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/26/23 05:51	1
Benzene	0.46	J	0.50	0.15	ug/L			05/26/23 05:51	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 05:51	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 05:51	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 05:51	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 05:51	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 05:51	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 05:51	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 05:51	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 05:51	1
Chlorobenzene	4.3		1.0	0.39	ug/L			05/26/23 05:51	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 05:51	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 05:51	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 05:51	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 05:51	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 05:51	1
cis-1,2-Dichloroethene	7.8		1.0	0.41	ug/L			05/26/23 05:51	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 05:51	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 05:51	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 05:51	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 05:51	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 05:51	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 05:51	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 05:51	1
1,4-Dichlorobenzene	1.8		1.0	0.36	ug/L			05/26/23 05:51	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 05:51	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 05:51	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 05:51	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 05:51	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 05:51	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 05:51	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 05:51	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 05:51	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 05:51	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 05:51	1
Isopropylbenzene	0.60	J	1.0	0.39	ug/L			05/26/23 05:51	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 05:51	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 05:51	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 05:51	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 05:51	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 05:51	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 05:51	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 05:51	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 05:51	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 05:51	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 05:51	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 05:51	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 05:51	1
Tetrachloroethene	0.78	J	1.0	0.37	ug/L			05/26/23 05:51	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-08S

Lab Sample ID: 500-234144-13

Date Collected: 05/16/23 18:50

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	58		10	1.9	ug/L			05/26/23 05:51	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 05:51	1
trans-1,2-Dichloroethene	0.37	J	1.0	0.35	ug/L			05/26/23 05:51	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 05:51	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 05:51	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 05:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 05:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 05:51	1
Trichloroethene	1.3		0.50	0.16	ug/L			05/26/23 05:51	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 05:51	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 05:51	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 05:51	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 05:51	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 05:51	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124		05/26/23 05:51	1
Dibromofluoromethane (Surr)	94		75 - 120		05/26/23 05:51	1
1,2-Dichloroethane-d4 (Surr)	101		75 - 126		05/26/23 05:51	1
Toluene-d8 (Surr)	92		75 - 120		05/26/23 05:51	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	6.96				ft			05/16/23 18:50	1
Field Color	N				NONE			05/16/23 18:50	1
Field Conductivity	2190				uS/cm			05/16/23 18:50	1
Field Odor	N				NONE			05/16/23 18:50	1
Field pH	6.63				SU			05/16/23 18:50	1
Field Temperature	9.2				Degrees C			05/16/23 18:50	1
Field Turbidity	N				NONE			05/16/23 18:50	1
Groundwater Elevation (ft MSL)	925.54				ft			05/16/23 18:50	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-33D

Lab Sample ID: 500-234144-14

Date Collected: 05/16/23 19:10

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/26/23 06:16	1
Benzene	<0.15		0.50	0.15	ug/L			05/26/23 06:16	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 06:16	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 06:16	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 06:16	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 06:16	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 06:16	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 06:16	1
Carbon disulfide	0.77	J	2.0	0.45	ug/L			05/26/23 06:16	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 06:16	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 06:16	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 06:16	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 06:16	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 06:16	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 06:16	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 06:16	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/26/23 06:16	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 06:16	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 06:16	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 06:16	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 06:16	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 06:16	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 06:16	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 06:16	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 06:16	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 06:16	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 06:16	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 06:16	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 06:16	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 06:16	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 06:16	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 06:16	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 06:16	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 06:16	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 06:16	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 06:16	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 06:16	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 06:16	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 06:16	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 06:16	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 06:16	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 06:16	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 06:16	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 06:16	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 06:16	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 06:16	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 06:16	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 06:16	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/26/23 06:16	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-33D
Date Collected: 05/16/23 19:10
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/26/23 06:16	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 06:16	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 06:16	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 06:16	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 06:16	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 06:16	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 06:16	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 06:16	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/26/23 06:16	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 06:16	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 06:16	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 06:16	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 06:16	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 06:16	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 06:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124		05/26/23 06:16	1
Dibromofluoromethane (Surr)	97		75 - 120		05/26/23 06:16	1
1,2-Dichloroethane-d4 (Surr)	101		75 - 126		05/26/23 06:16	1
Toluene-d8 (Surr)	90		75 - 120		05/26/23 06:16	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	0				ft			05/16/23 19:10	1
Field Color	N				NONE			05/16/23 19:10	1
Field Conductivity	610				uS/cm			05/16/23 19:10	1
Field Odor	N				NONE			05/16/23 19:10	1
Field pH	7.33				SU			05/16/23 19:10	1
Field Temperature	11.1				Degrees C			05/16/23 19:10	1
Field Turbidity	N				NONE			05/16/23 19:10	1
Groundwater Elevation (ft MSL)	928.5				ft			05/16/23 19:10	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-17S

Lab Sample ID: 500-234144-15

Date Collected: 05/17/23 07:38

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/26/23 06:40	1
Benzene	<0.15		0.50	0.15	ug/L			05/26/23 06:40	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 06:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 06:40	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 06:40	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 06:40	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 06:40	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 06:40	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 06:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 06:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 06:40	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 06:40	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 06:40	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 06:40	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 06:40	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 06:40	1
cis-1,2-Dichloroethene	0.62	J	1.0	0.41	ug/L			05/26/23 06:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 06:40	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 06:40	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 06:40	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 06:40	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 06:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 06:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 06:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 06:40	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 06:40	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 06:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 06:40	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 06:40	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 06:40	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 06:40	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 06:40	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 06:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 06:40	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 06:40	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 06:40	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 06:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 06:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 06:40	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 06:40	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 06:40	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 06:40	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 06:40	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 06:40	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 06:40	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 06:40	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 06:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 06:40	1
Tetrachloroethene	2.0		1.0	0.37	ug/L			05/26/23 06:40	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-17S

Lab Sample ID: 500-234144-15

Date Collected: 05/17/23 07:38

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/26/23 06:40	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 06:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 06:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 06:40	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 06:40	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 06:40	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 06:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 06:40	1
Trichloroethene	0.32	J	0.50	0.16	ug/L			05/26/23 06:40	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 06:40	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 06:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 06:40	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 06:40	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 06:40	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 06:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124		05/26/23 06:40	1
Dibromofluoromethane (Surr)	96		75 - 120		05/26/23 06:40	1
1,2-Dichloroethane-d4 (Surr)	99		75 - 126		05/26/23 06:40	1
Toluene-d8 (Surr)	93		75 - 120		05/26/23 06:40	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	144.91				ft			05/17/23 07:38	1
Field Color	N				NONE			05/17/23 07:38	1
Field Conductivity	972				uS/cm			05/17/23 07:38	1
Field Odor	N				NONE			05/17/23 07:38	1
Field pH	6.63				SU			05/17/23 07:38	1
Field Temperature	10.1				Degrees C			05/17/23 07:38	1
Field Turbidity	N				NONE			05/17/23 07:38	1
Groundwater Elevation (ft MSL)	936.84				ft			05/17/23 07:38	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-9S

Lab Sample ID: 500-234144-16

Date Collected: 05/17/23 07:25

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/26/23 07:04	1
Benzene	0.28	J	0.50	0.15	ug/L			05/26/23 07:04	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 07:04	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 07:04	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 07:04	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 07:04	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 07:04	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 07:04	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 07:04	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 07:04	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 07:04	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 07:04	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 07:04	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 07:04	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 07:04	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 07:04	1
cis-1,2-Dichloroethene	0.42	J	1.0	0.41	ug/L			05/26/23 07:04	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 07:04	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 07:04	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 07:04	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 07:04	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 07:04	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 07:04	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 07:04	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 07:04	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 07:04	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 07:04	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 07:04	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 07:04	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 07:04	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 07:04	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 07:04	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 07:04	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 07:04	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 07:04	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 07:04	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 07:04	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 07:04	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 07:04	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 07:04	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 07:04	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 07:04	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 07:04	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 07:04	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 07:04	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 07:04	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 07:04	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 07:04	1
Tetrachloroethene	0.59	J	1.0	0.37	ug/L			05/26/23 07:04	1

Euofins Chicago

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-9S

Lab Sample ID: 500-234144-16

Date Collected: 05/17/23 07:25

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	55		10	1.9	ug/L			05/26/23 07:04	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 07:04	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 07:04	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 07:04	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 07:04	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 07:04	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 07:04	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 07:04	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/26/23 07:04	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 07:04	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 07:04	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 07:04	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 07:04	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 07:04	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 07:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124		05/26/23 07:04	1
Dibromofluoromethane (Surr)	99		75 - 120		05/26/23 07:04	1
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		05/26/23 07:04	1
Toluene-d8 (Surr)	90		75 - 120		05/26/23 07:04	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	6.47				ft			05/17/23 07:25	1
Field Color	N				NONE			05/17/23 07:25	1
Field Conductivity	1785				uS/cm			05/17/23 07:25	1
Field Odor	N				NONE			05/17/23 07:25	1
Field pH	6.83				SU			05/17/23 07:25	1
Field Temperature	7.9				Degrees C			05/17/23 07:25	1
Field Turbidity	N				NONE			05/17/23 07:25	1
Groundwater Elevation (ft MSL)	925.62				ft			05/17/23 07:25	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-9D

Lab Sample ID: 500-234144-17

Date Collected: 05/17/23 07:46

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/26/23 07:29	1
Benzene	3.8		0.50	0.15	ug/L			05/26/23 07:29	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 07:29	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 07:29	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 07:29	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 07:29	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 07:29	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 07:29	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 07:29	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 07:29	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 07:29	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 07:29	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 07:29	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 07:29	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 07:29	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 07:29	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/26/23 07:29	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 07:29	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 07:29	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 07:29	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 07:29	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 07:29	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 07:29	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 07:29	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 07:29	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 07:29	1
1,1-Dichloroethane	2.1		1.0	0.41	ug/L			05/26/23 07:29	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 07:29	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 07:29	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 07:29	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 07:29	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 07:29	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 07:29	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 07:29	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 07:29	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 07:29	1
Isopropyl ether	0.56 J		1.0	0.28	ug/L			05/26/23 07:29	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 07:29	1
Methyl tert-butyl ether	0.75 J		1.0	0.39	ug/L			05/26/23 07:29	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 07:29	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 07:29	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 07:29	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 07:29	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 07:29	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 07:29	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 07:29	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 07:29	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 07:29	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/26/23 07:29	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-9D

Lab Sample ID: 500-234144-17

Date Collected: 05/17/23 07:46

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	240		10	1.9	ug/L			05/26/23 07:29	1
Toluene	0.27	J	0.50	0.15	ug/L			05/26/23 07:29	1
trans-1,2-Dichloroethene	0.72	J	1.0	0.35	ug/L			05/26/23 07:29	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 07:29	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 07:29	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 07:29	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 07:29	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 07:29	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/26/23 07:29	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 07:29	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 07:29	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 07:29	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 07:29	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 07:29	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 07:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124		05/26/23 07:29	1
Dibromofluoromethane (Surr)	97		75 - 120		05/26/23 07:29	1
1,2-Dichloroethane-d4 (Surr)	102		75 - 126		05/26/23 07:29	1
Toluene-d8 (Surr)	92		75 - 120		05/26/23 07:29	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	0				ft			05/17/23 07:46	1
Field Color	N				NONE			05/17/23 07:46	1
Field Conductivity	3999				uS/cm			05/17/23 07:46	1
Field Odor	N				NONE			05/17/23 07:46	1
Field pH	6.47				SU			05/17/23 07:46	1
Field Temperature	9.7				Degrees C			05/17/23 07:46	1
Field Turbidity	N				NONE			05/17/23 07:46	1
Groundwater Elevation (ft MSL)	930.43				ft			05/17/23 07:46	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-21S

Lab Sample ID: 500-234144-18

Date Collected: 05/17/23 08:25

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/26/23 07:53	1
Benzene	<0.15		0.50	0.15	ug/L			05/26/23 07:53	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 07:53	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 07:53	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 07:53	1
Bromoform	<0.48	^c	1.0	0.48	ug/L			05/26/23 07:53	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 07:53	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 07:53	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 07:53	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 07:53	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 07:53	1
Chloroethane	<0.51	^c	1.0	0.51	ug/L			05/26/23 07:53	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 07:53	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 07:53	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 07:53	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 07:53	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/26/23 07:53	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 07:53	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 07:53	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/26/23 07:53	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 07:53	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 07:53	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 07:53	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 07:53	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 07:53	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 07:53	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 07:53	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 07:53	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 07:53	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 07:53	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 07:53	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 07:53	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 07:53	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 07:53	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 07:53	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 07:53	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 07:53	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 07:53	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 07:53	1
Naphthalene	<0.34	^c	1.0	0.34	ug/L			05/26/23 07:53	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 07:53	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 07:53	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 07:53	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 07:53	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 07:53	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 07:53	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 07:53	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 07:53	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/26/23 07:53	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-21S

Lab Sample ID: 500-234144-18

Date Collected: 05/17/23 08:25

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/26/23 07:53	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 07:53	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 07:53	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 07:53	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 07:53	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 07:53	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 07:53	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 07:53	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/26/23 07:53	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 07:53	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 07:53	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 07:53	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 07:53	1
Vinyl chloride	<0.20	^c *	1.0	0.20	ug/L			05/26/23 07:53	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 07:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		72 - 124		05/26/23 07:53	1
Dibromofluoromethane (Surr)	96		75 - 120		05/26/23 07:53	1
1,2-Dichloroethane-d4 (Surr)	101		75 - 126		05/26/23 07:53	1
Toluene-d8 (Surr)	93		75 - 120		05/26/23 07:53	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	9.48				ft			05/17/23 08:25	1
Field Color	N				NONE			05/17/23 08:25	1
Field Conductivity	1621				uS/cm			05/17/23 08:25	1
Field Odor	N				NONE			05/17/23 08:25	1
Field pH	6.94				SU			05/17/23 08:25	1
Field Temperature	7.9				Degrees C			05/17/23 08:25	1
Field Turbidity	N				NONE			05/17/23 08:25	1
Groundwater Elevation (ft MSL)	926.95				ft			05/17/23 08:25	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-21D

Lab Sample ID: 500-234144-19

Date Collected: 05/17/23 08:48

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/28/23 16:39	1
Benzene	2.4		0.50	0.15	ug/L			05/28/23 16:39	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/28/23 16:39	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/28/23 16:39	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/28/23 16:39	1
Bromoform	<0.48		1.0	0.48	ug/L			05/28/23 16:39	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/28/23 16:39	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/28/23 16:39	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/28/23 16:39	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/28/23 16:39	1
Chlorobenzene	1.2		1.0	0.39	ug/L			05/28/23 16:39	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/28/23 16:39	1
Chloroform	<0.37		2.0	0.37	ug/L			05/28/23 16:39	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/28/23 16:39	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/28/23 16:39	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/28/23 16:39	1
cis-1,2-Dichloroethene	5.5		1.0	0.41	ug/L			05/28/23 16:39	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/28/23 16:39	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/28/23 16:39	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/28/23 16:39	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/28/23 16:39	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/28/23 16:39	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/28/23 16:39	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/28/23 16:39	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/28/23 16:39	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/28/23 16:39	1
1,1-Dichloroethane	3.3		1.0	0.41	ug/L			05/28/23 16:39	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/28/23 16:39	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/28/23 16:39	1
1,2-Dichloropropane	<0.43	^c	1.0	0.43	ug/L			05/28/23 16:39	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/28/23 16:39	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/28/23 16:39	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/28/23 16:39	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/28/23 16:39	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/28/23 16:39	1
Isopropylbenzene	0.63 J		1.0	0.39	ug/L			05/28/23 16:39	1
Isopropyl ether	0.52 J		1.0	0.28	ug/L			05/28/23 16:39	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/28/23 16:39	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/28/23 16:39	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/28/23 16:39	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/28/23 16:39	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/28/23 16:39	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/28/23 16:39	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 16:39	1
Styrene	<0.39		1.0	0.39	ug/L			05/28/23 16:39	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 16:39	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/28/23 16:39	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/28/23 16:39	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/28/23 16:39	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-21D

Lab Sample ID: 500-234144-19

Date Collected: 05/17/23 08:48

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	300		10	1.9	ug/L			05/28/23 16:39	1
Toluene	0.26	J	0.50	0.15	ug/L			05/28/23 16:39	1
trans-1,2-Dichloroethene	1.0		1.0	0.35	ug/L			05/28/23 16:39	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/28/23 16:39	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/28/23 16:39	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/28/23 16:39	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/28/23 16:39	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/28/23 16:39	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/28/23 16:39	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/28/23 16:39	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/28/23 16:39	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/28/23 16:39	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/28/23 16:39	1
Vinyl chloride	3.8		1.0	0.20	ug/L			05/28/23 16:39	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/28/23 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		72 - 124		05/28/23 16:39	1
Dibromofluoromethane (Surr)	103		75 - 120		05/28/23 16:39	1
1,2-Dichloroethane-d4 (Surr)	109		75 - 126		05/28/23 16:39	1
Toluene-d8 (Surr)	89		75 - 120		05/28/23 16:39	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	10.97				ft			05/17/23 08:48	1
Field Color	N				NONE			05/17/23 08:48	1
Field Conductivity	3999				uS/cm			05/17/23 08:48	1
Field Odor	N				NONE			05/17/23 08:48	1
Field pH	6.39				SU			05/17/23 08:48	1
Field Temperature	10.3				Degrees C			05/17/23 08:48	1
Field Turbidity	N				NONE			05/17/23 08:48	1
Groundwater Elevation (ft MSL)	925.97				ft			05/17/23 08:48	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-21BR

Lab Sample ID: 500-234144-20

Date Collected: 05/17/23 08:57

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/28/23 17:03	1
Benzene	<0.15		0.50	0.15	ug/L			05/28/23 17:03	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/28/23 17:03	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/28/23 17:03	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/28/23 17:03	1
Bromoform	<0.48		1.0	0.48	ug/L			05/28/23 17:03	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/28/23 17:03	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/28/23 17:03	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/28/23 17:03	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/28/23 17:03	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/28/23 17:03	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/28/23 17:03	1
Chloroform	<0.37		2.0	0.37	ug/L			05/28/23 17:03	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/28/23 17:03	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/28/23 17:03	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/28/23 17:03	1
cis-1,2-Dichloroethene	3.2		1.0	0.41	ug/L			05/28/23 17:03	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/28/23 17:03	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/28/23 17:03	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/28/23 17:03	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/28/23 17:03	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/28/23 17:03	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/28/23 17:03	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/28/23 17:03	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/28/23 17:03	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/28/23 17:03	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/28/23 17:03	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/28/23 17:03	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/28/23 17:03	1
1,2-Dichloropropane	<0.43	^c	1.0	0.43	ug/L			05/28/23 17:03	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/28/23 17:03	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/28/23 17:03	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/28/23 17:03	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/28/23 17:03	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/28/23 17:03	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/28/23 17:03	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/28/23 17:03	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/28/23 17:03	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/28/23 17:03	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/28/23 17:03	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/28/23 17:03	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/28/23 17:03	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/28/23 17:03	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 17:03	1
Styrene	<0.39		1.0	0.39	ug/L			05/28/23 17:03	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 17:03	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/28/23 17:03	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/28/23 17:03	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/28/23 17:03	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-21BR

Lab Sample ID: 500-234144-20

Date Collected: 05/17/23 08:57

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	3.8	J	10	1.9	ug/L			05/28/23 17:03	1
Toluene	<0.15		0.50	0.15	ug/L			05/28/23 17:03	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/28/23 17:03	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/28/23 17:03	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/28/23 17:03	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/28/23 17:03	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/28/23 17:03	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/28/23 17:03	1
Trichloroethene	1.9		0.50	0.16	ug/L			05/28/23 17:03	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/28/23 17:03	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/28/23 17:03	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/28/23 17:03	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/28/23 17:03	1
Vinyl chloride	0.73	J	1.0	0.20	ug/L			05/28/23 17:03	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/28/23 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		72 - 124		05/28/23 17:03	1
Dibromofluoromethane (Surr)	104		75 - 120		05/28/23 17:03	1
1,2-Dichloroethane-d4 (Surr)	109		75 - 126		05/28/23 17:03	1
Toluene-d8 (Surr)	87		75 - 120		05/28/23 17:03	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	11.22				ft			05/17/23 08:57	1
Field Color	N				NONE			05/17/23 08:57	1
Field Conductivity	847				uS/cm			05/17/23 08:57	1
Field Odor	N				NONE			05/17/23 08:57	1
Field pH	7.05				SU			05/17/23 08:57	1
Field Temperature	10.6				Degrees C			05/17/23 08:57	1
Field Turbidity	N				NONE			05/17/23 08:57	1
Groundwater Elevation (ft MSL)	923.97				ft			05/17/23 08:57	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-08D

Lab Sample ID: 500-234144-21

Date Collected: 05/17/23 09:33

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/28/23 17:28	1
Benzene	0.68		0.50	0.15	ug/L			05/28/23 17:28	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/28/23 17:28	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/28/23 17:28	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/28/23 17:28	1
Bromoform	<0.48		1.0	0.48	ug/L			05/28/23 17:28	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/28/23 17:28	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/28/23 17:28	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/28/23 17:28	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/28/23 17:28	1
Chlorobenzene	1.9		1.0	0.39	ug/L			05/28/23 17:28	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/28/23 17:28	1
Chloroform	<0.37		2.0	0.37	ug/L			05/28/23 17:28	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/28/23 17:28	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/28/23 17:28	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/28/23 17:28	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/28/23 17:28	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/28/23 17:28	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/28/23 17:28	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/28/23 17:28	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/28/23 17:28	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/28/23 17:28	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/28/23 17:28	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/28/23 17:28	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/28/23 17:28	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/28/23 17:28	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/28/23 17:28	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/28/23 17:28	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/28/23 17:28	1
1,2-Dichloropropane	<0.43	^c	1.0	0.43	ug/L			05/28/23 17:28	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/28/23 17:28	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/28/23 17:28	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/28/23 17:28	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/28/23 17:28	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/28/23 17:28	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/28/23 17:28	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/28/23 17:28	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/28/23 17:28	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/28/23 17:28	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/28/23 17:28	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/28/23 17:28	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/28/23 17:28	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/28/23 17:28	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 17:28	1
Styrene	<0.39		1.0	0.39	ug/L			05/28/23 17:28	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 17:28	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/28/23 17:28	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/28/23 17:28	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/28/23 17:28	1

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Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-08D

Lab Sample ID: 500-234144-21

Date Collected: 05/17/23 09:33

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	92		10	1.9	ug/L			05/28/23 17:28	1
Toluene	<0.15		0.50	0.15	ug/L			05/28/23 17:28	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/28/23 17:28	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/28/23 17:28	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/28/23 17:28	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/28/23 17:28	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/28/23 17:28	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/28/23 17:28	1
Trichloroethene	0.17 J		0.50	0.16	ug/L			05/28/23 17:28	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/28/23 17:28	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/28/23 17:28	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/28/23 17:28	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/28/23 17:28	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/28/23 17:28	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/28/23 17:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		72 - 124					05/28/23 17:28	1
Dibromofluoromethane (Surr)	98		75 - 120					05/28/23 17:28	1
1,2-Dichloroethane-d4 (Surr)	104		75 - 126					05/28/23 17:28	1
Toluene-d8 (Surr)	91		75 - 120					05/28/23 17:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	5.7				ft			05/17/23 09:33	1
Field Color	N				NONE			05/17/23 09:33	1
Field Conductivity	2171				uS/cm			05/17/23 09:33	1
Field Odor	N				NONE			05/17/23 09:33	1
Field pH	6.53				SU			05/17/23 09:33	1
Field Temperature	10.3				Degrees C			05/17/23 09:33	1
Field Turbidity	N				NONE			05/17/23 09:33	1
Groundwater Elevation (ft MSL)	925.28				ft			05/17/23 09:33	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-24D

Lab Sample ID: 500-234144-22

Date Collected: 05/17/23 10:08

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/28/23 17:52	1
Benzene	<0.15		0.50	0.15	ug/L			05/28/23 17:52	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/28/23 17:52	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/28/23 17:52	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/28/23 17:52	1
Bromoform	<0.48		1.0	0.48	ug/L			05/28/23 17:52	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/28/23 17:52	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/28/23 17:52	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/28/23 17:52	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/28/23 17:52	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/28/23 17:52	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/28/23 17:52	1
Chloroform	<0.37		2.0	0.37	ug/L			05/28/23 17:52	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/28/23 17:52	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/28/23 17:52	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/28/23 17:52	1
cis-1,2-Dichloroethene	20		1.0	0.41	ug/L			05/28/23 17:52	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/28/23 17:52	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/28/23 17:52	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/28/23 17:52	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/28/23 17:52	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/28/23 17:52	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/28/23 17:52	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/28/23 17:52	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/28/23 17:52	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/28/23 17:52	1
1,1-Dichloroethane	1.3		1.0	0.41	ug/L			05/28/23 17:52	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/28/23 17:52	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/28/23 17:52	1
1,2-Dichloropropane	<0.43	^c	1.0	0.43	ug/L			05/28/23 17:52	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/28/23 17:52	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/28/23 17:52	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/28/23 17:52	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/28/23 17:52	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/28/23 17:52	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/28/23 17:52	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/28/23 17:52	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/28/23 17:52	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/28/23 17:52	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/28/23 17:52	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/28/23 17:52	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/28/23 17:52	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/28/23 17:52	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 17:52	1
Styrene	<0.39		1.0	0.39	ug/L			05/28/23 17:52	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 17:52	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/28/23 17:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/28/23 17:52	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/28/23 17:52	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-24D

Lab Sample ID: 500-234144-22

Date Collected: 05/17/23 10:08

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	6.6	J	10	1.9	ug/L			05/28/23 17:52	1
Toluene	<0.15		0.50	0.15	ug/L			05/28/23 17:52	1
trans-1,2-Dichloroethene	0.78	J	1.0	0.35	ug/L			05/28/23 17:52	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/28/23 17:52	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/28/23 17:52	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/28/23 17:52	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/28/23 17:52	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/28/23 17:52	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/28/23 17:52	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/28/23 17:52	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/28/23 17:52	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/28/23 17:52	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/28/23 17:52	1
Vinyl chloride	20		1.0	0.20	ug/L			05/28/23 17:52	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/28/23 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		72 - 124		05/28/23 17:52	1
Dibromofluoromethane (Surr)	99		75 - 120		05/28/23 17:52	1
1,2-Dichloroethane-d4 (Surr)	99		75 - 126		05/28/23 17:52	1
Toluene-d8 (Surr)	90		75 - 120		05/28/23 17:52	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	0				ft			05/17/23 10:08	1
Field Color	N				NONE			05/17/23 10:08	1
Field Conductivity	1088				uS/cm			05/17/23 10:08	1
Field Odor	N				NONE			05/17/23 10:08	1
Field pH	6.9				SU			05/17/23 10:08	1
Field Temperature	9.2				Degrees C			05/17/23 10:08	1
Field Turbidity	N				NONE			05/17/23 10:08	1
Groundwater Elevation (ft MSL)	927.25				ft			05/17/23 10:08	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-24E

Lab Sample ID: 500-234144-23

Date Collected: 05/17/23 10:42

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.0	J	10	1.7	ug/L			05/28/23 18:41	1
Benzene	<0.15		0.50	0.15	ug/L			05/28/23 18:41	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/28/23 18:41	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/28/23 18:41	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/28/23 18:41	1
Bromoform	<0.48		1.0	0.48	ug/L			05/28/23 18:41	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/28/23 18:41	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/28/23 18:41	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/28/23 18:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/28/23 18:41	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/28/23 18:41	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/28/23 18:41	1
Chloroform	<0.37		2.0	0.37	ug/L			05/28/23 18:41	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/28/23 18:41	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/28/23 18:41	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/28/23 18:41	1
cis-1,2-Dichloroethene	1.7		1.0	0.41	ug/L			05/28/23 18:41	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/28/23 18:41	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/28/23 18:41	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/28/23 18:41	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/28/23 18:41	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/28/23 18:41	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/28/23 18:41	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/28/23 18:41	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/28/23 18:41	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/28/23 18:41	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/28/23 18:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/28/23 18:41	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/28/23 18:41	1
1,2-Dichloropropane	<0.43	^c	1.0	0.43	ug/L			05/28/23 18:41	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/28/23 18:41	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/28/23 18:41	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/28/23 18:41	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/28/23 18:41	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/28/23 18:41	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/28/23 18:41	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/28/23 18:41	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/28/23 18:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/28/23 18:41	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/28/23 18:41	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/28/23 18:41	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/28/23 18:41	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/28/23 18:41	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 18:41	1
Styrene	<0.39		1.0	0.39	ug/L			05/28/23 18:41	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 18:41	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/28/23 18:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/28/23 18:41	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/28/23 18:41	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-24E

Lab Sample ID: 500-234144-23

Date Collected: 05/17/23 10:42

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/28/23 18:41	1
Toluene	<0.15		0.50	0.15	ug/L			05/28/23 18:41	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/28/23 18:41	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/28/23 18:41	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/28/23 18:41	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/28/23 18:41	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/28/23 18:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/28/23 18:41	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/28/23 18:41	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/28/23 18:41	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/28/23 18:41	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/28/23 18:41	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/28/23 18:41	1
Vinyl chloride	0.63	J	1.0	0.20	ug/L			05/28/23 18:41	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/28/23 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		72 - 124		05/28/23 18:41	1
Dibromofluoromethane (Surr)	100		75 - 120		05/28/23 18:41	1
1,2-Dichloroethane-d4 (Surr)	104		75 - 126		05/28/23 18:41	1
Toluene-d8 (Surr)	90		75 - 120		05/28/23 18:41	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	0				ft			05/17/23 10:42	1
Field Color	N				NONE			05/17/23 10:42	1
Field Conductivity	598				uS/cm			05/17/23 10:42	1
Field Odor	N				NONE			05/17/23 10:42	1
Field pH	7				SU			05/17/23 10:42	1
Field Temperature	9.8				Degrees C			05/17/23 10:42	1
Field Turbidity	N				NONE			05/17/23 10:42	1
Groundwater Elevation (ft MSL)	927.39				ft			05/17/23 10:42	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: FD-4

Lab Sample ID: 500-234144-24

Date Collected: 05/17/23 10:45

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/28/23 19:05	1
Benzene	<0.15		0.50	0.15	ug/L			05/28/23 19:05	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/28/23 19:05	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/28/23 19:05	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/28/23 19:05	1
Bromoform	<0.48		1.0	0.48	ug/L			05/28/23 19:05	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/28/23 19:05	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/28/23 19:05	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/28/23 19:05	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/28/23 19:05	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/28/23 19:05	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/28/23 19:05	1
Chloroform	<0.37		2.0	0.37	ug/L			05/28/23 19:05	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/28/23 19:05	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/28/23 19:05	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/28/23 19:05	1
cis-1,2-Dichloroethene	1.6		1.0	0.41	ug/L			05/28/23 19:05	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/28/23 19:05	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/28/23 19:05	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/28/23 19:05	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/28/23 19:05	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/28/23 19:05	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/28/23 19:05	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/28/23 19:05	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/28/23 19:05	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/28/23 19:05	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/28/23 19:05	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/28/23 19:05	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/28/23 19:05	1
1,2-Dichloropropane	<0.43	^c	1.0	0.43	ug/L			05/28/23 19:05	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/28/23 19:05	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/28/23 19:05	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/28/23 19:05	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/28/23 19:05	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/28/23 19:05	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/28/23 19:05	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/28/23 19:05	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/28/23 19:05	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/28/23 19:05	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/28/23 19:05	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/28/23 19:05	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/28/23 19:05	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/28/23 19:05	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 19:05	1
Styrene	<0.39		1.0	0.39	ug/L			05/28/23 19:05	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 19:05	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/28/23 19:05	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/28/23 19:05	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/28/23 19:05	1

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: FD-4

Lab Sample ID: 500-234144-24

Date Collected: 05/17/23 10:45

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/28/23 19:05	1
Toluene	<0.15		0.50	0.15	ug/L			05/28/23 19:05	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/28/23 19:05	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/28/23 19:05	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/28/23 19:05	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/28/23 19:05	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/28/23 19:05	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/28/23 19:05	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/28/23 19:05	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/28/23 19:05	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/28/23 19:05	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/28/23 19:05	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/28/23 19:05	1
Vinyl chloride	0.64	J	1.0	0.20	ug/L			05/28/23 19:05	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/28/23 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		72 - 124		05/28/23 19:05	1
Dibromofluoromethane (Surr)	98		75 - 120		05/28/23 19:05	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		05/28/23 19:05	1
Toluene-d8 (Surr)	91		75 - 120		05/28/23 19:05	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: 7734 USH 14

Lab Sample ID: 500-234144-25

Date Collected: 05/17/23 11:25

Matrix: Water

Date Received: 05/18/23 09:40

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		0.50	0.20	ug/L			05/24/23 14:32	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/24/23 14:32	1
Chlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 14:32	1
cis-1,2-Dichloroethene	0.98		0.50	0.20	ug/L			05/24/23 14:32	1
1,2-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 14:32	1
1,4-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 14:32	1
1,2-Dichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 14:32	1
1,1-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 14:32	1
1,2-Dichloropropane	<0.20		0.25	0.20	ug/L			05/24/23 14:32	1
Ethylbenzene	<0.20		0.50	0.20	ug/L			05/24/23 14:32	1
Methylene Chloride	<0.40		0.50	0.40	ug/L			05/24/23 14:32	1
m-Xylene & p-Xylene	<0.50		0.50	0.50	ug/L			05/24/23 14:32	1
o-Xylene	<0.20		0.50	0.20	ug/L			05/24/23 14:32	1
Styrene	<0.20		0.50	0.20	ug/L			05/24/23 14:32	1
Tetrachloroethene	3.3		0.50	0.20	ug/L			05/24/23 14:32	1
Toluene	<0.20		0.50	0.20	ug/L			05/24/23 14:32	1
trans-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 14:32	1
1,2,4-Trichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 14:32	1
1,1,1-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 14:32	1
1,1,2-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 14:32	1
Trichloroethene	0.73		0.50	0.20	ug/L			05/24/23 14:32	1
Vinyl chloride	<0.20		0.20	0.20	ug/L			05/24/23 14:32	1
Xylenes, Total	<0.50		0.50	0.50	ug/L			05/24/23 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130		05/24/23 14:32	1
1,2-Dichlorobenzene-d4 (Surr)	85		70 - 130		05/24/23 14:32	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		05/24/23 14:32	1
Toluene-d8 (Surr)	99		70 - 130		05/24/23 14:32	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Field Color	N				NONE			05/17/23 11:25	1
Field Conductivity	971				uS/cm			05/17/23 11:25	1
Field Odor	N				NONE			05/17/23 11:25	1
Field pH	7.06				SU			05/17/23 11:25	1
Field Temperature	12.9				Degrees C			05/17/23 11:25	1
Field Turbidity	N				NONE			05/17/23 11:25	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: 7750 USH 14

Lab Sample ID: 500-234144-26

Date Collected: 05/17/23 11:45

Matrix: Water

Date Received: 05/18/23 09:40

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		0.50	0.20	ug/L			05/24/23 15:20	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/24/23 15:20	1
Chlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 15:20	1
cis-1,2-Dichloroethene	1.4		0.50	0.20	ug/L			05/24/23 15:20	1
1,2-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 15:20	1
1,4-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 15:20	1
1,2-Dichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 15:20	1
1,1-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 15:20	1
1,2-Dichloropropane	<0.20		0.25	0.20	ug/L			05/24/23 15:20	1
Ethylbenzene	<0.20		0.50	0.20	ug/L			05/24/23 15:20	1
Methylene Chloride	<0.40		0.50	0.40	ug/L			05/24/23 15:20	1
m-Xylene & p-Xylene	<0.50		0.50	0.50	ug/L			05/24/23 15:20	1
o-Xylene	<0.20		0.50	0.20	ug/L			05/24/23 15:20	1
Styrene	<0.20		0.50	0.20	ug/L			05/24/23 15:20	1
Tetrachloroethene	2.3		0.50	0.20	ug/L			05/24/23 15:20	1
Toluene	<0.20		0.50	0.20	ug/L			05/24/23 15:20	1
trans-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 15:20	1
1,2,4-Trichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 15:20	1
1,1,1-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 15:20	1
1,1,2-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 15:20	1
Trichloroethene	0.48 J		0.50	0.20	ug/L			05/24/23 15:20	1
Vinyl chloride	<0.20		0.20	0.20	ug/L			05/24/23 15:20	1
Xylenes, Total	<0.50		0.50	0.50	ug/L			05/24/23 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130		05/24/23 15:20	1
1,2-Dichlorobenzene-d4 (Surr)	84		70 - 130		05/24/23 15:20	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		05/24/23 15:20	1
Toluene-d8 (Surr)	95		70 - 130		05/24/23 15:20	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Field Color	N				NONE			05/17/23 11:45	1
Field Conductivity	808				uS/cm			05/17/23 11:45	1
Field Odor	N				NONE			05/17/23 11:45	1
Field pH	7.38				SU			05/17/23 11:45	1
Field Temperature	14.2				Degrees C			05/17/23 11:45	1
Field Turbidity	N				NONE			05/17/23 11:45	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: 7911 Deer Run

Lab Sample ID: 500-234144-27

Date Collected: 05/17/23 12:30

Matrix: Water

Date Received: 05/18/23 09:40

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/24/23 15:44	1
Chlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
cis-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
1,2-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
1,4-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
1,2-Dichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
1,1-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
1,2-Dichloropropane	<0.20		0.25	0.20	ug/L			05/24/23 15:44	1
Ethylbenzene	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
Methylene Chloride	<0.40		0.50	0.40	ug/L			05/24/23 15:44	1
m-Xylene & p-Xylene	<0.50		0.50	0.50	ug/L			05/24/23 15:44	1
o-Xylene	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
Styrene	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
Toluene	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
trans-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
1,2,4-Trichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
1,1,1-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
1,1,2-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
Trichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 15:44	1
Vinyl chloride	<0.20		0.20	0.20	ug/L			05/24/23 15:44	1
Xylenes, Total	<0.50		0.50	0.50	ug/L			05/24/23 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130		05/24/23 15:44	1
1,2-Dichlorobenzene-d4 (Surr)	85		70 - 130		05/24/23 15:44	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		05/24/23 15:44	1
Toluene-d8 (Surr)	99		70 - 130		05/24/23 15:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Field Color	N				NONE			05/17/23 12:30	1
Field Conductivity	939				uS/cm			05/17/23 12:30	1
Field Odor	N				NONE			05/17/23 12:30	1
Field pH	7.3				SU			05/17/23 12:30	1
Field Temperature	12.1				Degrees C			05/17/23 12:30	1
Field Turbidity	N				NONE			05/17/23 12:30	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: 7877 Deer Run

Lab Sample ID: 500-234144-28

Date Collected: 05/17/23 12:47

Matrix: Water

Date Received: 05/18/23 09:40

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/24/23 16:08	1
Chlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
cis-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
1,2-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
1,4-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
1,2-Dichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
1,1-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
1,2-Dichloropropane	<0.20		0.25	0.20	ug/L			05/24/23 16:08	1
Ethylbenzene	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
Methylene Chloride	<0.40		0.50	0.40	ug/L			05/24/23 16:08	1
m-Xylene & p-Xylene	<0.50		0.50	0.50	ug/L			05/24/23 16:08	1
o-Xylene	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
Styrene	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
Toluene	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
trans-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
1,2,4-Trichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
1,1,1-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
1,1,2-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
Trichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 16:08	1
Vinyl chloride	<0.20		0.20	0.20	ug/L			05/24/23 16:08	1
Xylenes, Total	<0.50		0.50	0.50	ug/L			05/24/23 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130		05/24/23 16:08	1
1,2-Dichlorobenzene-d4 (Surr)	83		70 - 130		05/24/23 16:08	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		05/24/23 16:08	1
Toluene-d8 (Surr)	99		70 - 130		05/24/23 16:08	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Field Color	N				NONE			05/17/23 12:47	1
Field Conductivity	736				uS/cm			05/17/23 12:47	1
Field Odor	N				NONE			05/17/23 12:47	1
Field pH	7.41				SU			05/17/23 12:47	1
Field Temperature	13.3				Degrees C			05/17/23 12:47	1
Field Turbidity	N				NONE			05/17/23 12:47	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: 7872 Deer Run

Lab Sample ID: 500-234144-29

Date Collected: 05/17/23 13:03

Matrix: Water

Date Received: 05/18/23 09:40

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/24/23 16:32	1
Chlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
cis-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
1,2-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
1,4-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
1,2-Dichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
1,1-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
1,2-Dichloropropane	<0.20		0.25	0.20	ug/L			05/24/23 16:32	1
Ethylbenzene	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
Methylene Chloride	<0.40		0.50	0.40	ug/L			05/24/23 16:32	1
m-Xylene & p-Xylene	<0.50		0.50	0.50	ug/L			05/24/23 16:32	1
o-Xylene	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
Styrene	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
Toluene	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
trans-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
1,2,4-Trichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
1,1,1-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
1,1,2-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
Trichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 16:32	1
Vinyl chloride	<0.20		0.20	0.20	ug/L			05/24/23 16:32	1
Xylenes, Total	<0.50		0.50	0.50	ug/L			05/24/23 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130		05/24/23 16:32	1
1,2-Dichlorobenzene-d4 (Surr)	79		70 - 130		05/24/23 16:32	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		05/24/23 16:32	1
Toluene-d8 (Surr)	94		70 - 130		05/24/23 16:32	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Field Color	N				NONE			05/17/23 13:03	1
Field Conductivity	848				uS/cm			05/17/23 13:03	1
Field Odor	N				NONE			05/17/23 13:03	1
Field pH	7.61				SU			05/17/23 13:03	1
Field Temperature	18				Degrees C			05/17/23 13:03	1
Field Turbidity	N				NONE			05/17/23 13:03	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: 4306 Fawn Ct

Lab Sample ID: 500-234144-30

Date Collected: 05/17/23 13:18

Matrix: Water

Date Received: 05/18/23 09:40

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/24/23 16:56	1
Chlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
cis-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
1,2-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
1,4-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
1,2-Dichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
1,1-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
1,2-Dichloropropane	<0.20		0.25	0.20	ug/L			05/24/23 16:56	1
Ethylbenzene	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
Methylene Chloride	<0.40		0.50	0.40	ug/L			05/24/23 16:56	1
m-Xylene & p-Xylene	<0.50		0.50	0.50	ug/L			05/24/23 16:56	1
o-Xylene	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
Styrene	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
Toluene	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
trans-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
1,2,4-Trichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
1,1,1-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
1,1,2-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
Trichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 16:56	1
Vinyl chloride	<0.20		0.20	0.20	ug/L			05/24/23 16:56	1
Xylenes, Total	<0.50		0.50	0.50	ug/L			05/24/23 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130		05/24/23 16:56	1
1,2-Dichlorobenzene-d4 (Surr)	82		70 - 130		05/24/23 16:56	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		05/24/23 16:56	1
Toluene-d8 (Surr)	99		70 - 130		05/24/23 16:56	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Field Color	N				NONE			05/17/23 13:18	1
Field Conductivity	1222				uS/cm			05/17/23 13:18	1
Field Odor	N				NONE			05/17/23 13:18	1
Field pH	7.26				SU			05/17/23 13:18	1
Field Temperature	12.4				Degrees C			05/17/23 13:18	1
Field Turbidity	N				NONE			05/17/23 13:18	1

Client Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: 4318 Fawn Ct

Lab Sample ID: 500-234144-31

Date Collected: 05/17/23 13:34

Matrix: Water

Date Received: 05/18/23 09:40

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/24/23 17:20	1
Chlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
cis-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
1,2-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
1,4-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
1,2-Dichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
1,1-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
1,2-Dichloropropane	<0.20		0.25	0.20	ug/L			05/24/23 17:20	1
Ethylbenzene	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
Methylene Chloride	<0.40		0.50	0.40	ug/L			05/24/23 17:20	1
m-Xylene & p-Xylene	<0.50		0.50	0.50	ug/L			05/24/23 17:20	1
o-Xylene	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
Styrene	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
Toluene	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
trans-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
1,2,4-Trichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
1,1,1-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
1,1,2-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
Trichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 17:20	1
Vinyl chloride	<0.20		0.20	0.20	ug/L			05/24/23 17:20	1
Xylenes, Total	<0.50		0.50	0.50	ug/L			05/24/23 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130		05/24/23 17:20	1
1,2-Dichlorobenzene-d4 (Surr)	80		70 - 130		05/24/23 17:20	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		05/24/23 17:20	1
Toluene-d8 (Surr)	98		70 - 130		05/24/23 17:20	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Field Color	N				NONE			05/17/23 13:34	1
Field Conductivity	1303				uS/cm			05/17/23 13:34	1
Field Odor	N				NONE			05/17/23 13:34	1
Field pH	7.29				SU			05/17/23 13:34	1
Field Temperature	15.4				Degrees C			05/17/23 13:34	1
Field Turbidity	N				NONE			05/17/23 13:34	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: EB-1

Lab Sample ID: 500-234144-32

Date Collected: 05/17/23 06:30

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.2	J	10	1.7	ug/L			05/28/23 15:26	1
Benzene	0.19	J	0.50	0.15	ug/L			05/28/23 15:26	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/28/23 15:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/28/23 15:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/28/23 15:26	1
Bromoform	<0.48		1.0	0.48	ug/L			05/28/23 15:26	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/28/23 15:26	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/28/23 15:26	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/28/23 15:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/28/23 15:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/28/23 15:26	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/28/23 15:26	1
Chloroform	<0.37		2.0	0.37	ug/L			05/28/23 15:26	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/28/23 15:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/28/23 15:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/28/23 15:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/28/23 15:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/28/23 15:26	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/28/23 15:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/28/23 15:26	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/28/23 15:26	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/28/23 15:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/28/23 15:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/28/23 15:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/28/23 15:26	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/28/23 15:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/28/23 15:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/28/23 15:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/28/23 15:26	1
1,2-Dichloropropane	<0.43	^c	1.0	0.43	ug/L			05/28/23 15:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/28/23 15:26	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/28/23 15:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/28/23 15:26	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/28/23 15:26	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/28/23 15:26	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/28/23 15:26	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/28/23 15:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/28/23 15:26	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/28/23 15:26	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/28/23 15:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/28/23 15:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/28/23 15:26	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/28/23 15:26	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 15:26	1
Styrene	<0.39		1.0	0.39	ug/L			05/28/23 15:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 15:26	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/28/23 15:26	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/28/23 15:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/28/23 15:26	1

Euofins Chicago

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: EB-1

Lab Sample ID: 500-234144-32

Date Collected: 05/17/23 06:30

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/28/23 15:26	1
Toluene	0.15	J	0.50	0.15	ug/L			05/28/23 15:26	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/28/23 15:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/28/23 15:26	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/28/23 15:26	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/28/23 15:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/28/23 15:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/28/23 15:26	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/28/23 15:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/28/23 15:26	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/28/23 15:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/28/23 15:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/28/23 15:26	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/28/23 15:26	1
Xylenes, Total	0.31	J	1.0	0.22	ug/L			05/28/23 15:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124					05/28/23 15:26	1
Dibromofluoromethane (Surr)	98		75 - 120					05/28/23 15:26	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 126					05/28/23 15:26	1
Toluene-d8 (Surr)	92		75 - 120					05/28/23 15:26	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: TB-3

Lab Sample ID: 500-234144-33

Date Collected: 05/17/23 00:00

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/30/23 12:14	1
Benzene	<0.15		0.50	0.15	ug/L			05/30/23 12:14	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/30/23 12:14	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/30/23 12:14	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/30/23 12:14	1
Bromoform	<0.48		1.0	0.48	ug/L			05/30/23 12:14	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/30/23 12:14	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/30/23 12:14	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/30/23 12:14	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/30/23 12:14	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/30/23 12:14	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/30/23 12:14	1
Chloroform	<0.37		2.0	0.37	ug/L			05/30/23 12:14	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/30/23 12:14	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/30/23 12:14	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/30/23 12:14	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/30/23 12:14	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/30/23 12:14	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/30/23 12:14	1
1,2-Dibromo-3-Chloropropane	<2.0	^c	5.0	2.0	ug/L			05/30/23 12:14	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/30/23 12:14	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/30/23 12:14	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/30/23 12:14	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/30/23 12:14	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/30/23 12:14	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/30/23 12:14	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/30/23 12:14	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/30/23 12:14	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/30/23 12:14	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/30/23 12:14	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/30/23 12:14	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/30/23 12:14	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/30/23 12:14	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/30/23 12:14	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/30/23 12:14	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/30/23 12:14	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/30/23 12:14	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/30/23 12:14	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/30/23 12:14	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/30/23 12:14	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/30/23 12:14	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/30/23 12:14	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/30/23 12:14	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/30/23 12:14	1
Styrene	<0.39		1.0	0.39	ug/L			05/30/23 12:14	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/30/23 12:14	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/30/23 12:14	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/30/23 12:14	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/30/23 12:14	1

Eurofins Chicago

Client Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: TB-3

Lab Sample ID: 500-234144-33

Date Collected: 05/17/23 00:00

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/30/23 12:14	1
Toluene	<0.15		0.50	0.15	ug/L			05/30/23 12:14	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/30/23 12:14	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/30/23 12:14	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/30/23 12:14	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/30/23 12:14	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/30/23 12:14	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/30/23 12:14	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/30/23 12:14	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/30/23 12:14	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/30/23 12:14	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/30/23 12:14	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/30/23 12:14	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/30/23 12:14	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/30/23 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124		05/30/23 12:14	1
Dibromofluoromethane (Surr)	99		75 - 120		05/30/23 12:14	1
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		05/30/23 12:14	1
Toluene-d8 (Surr)	86		75 - 120		05/30/23 12:14	1

Definitions/Glossary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
^c	CCV Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Reported value was between the limit of detection and the limit of quantitation.

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
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

QC Association Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

GC/MS VOA

Analysis Batch: 60143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234144-25	7734 USH 14	Total/NA	Water	524.2	
500-234144-26	7750 USH 14	Total/NA	Water	524.2	
500-234144-27	7911 Deer Run	Total/NA	Water	524.2	
500-234144-28	7877 Deer Run	Total/NA	Water	524.2	
500-234144-29	7872 Deer Run	Total/NA	Water	524.2	
500-234144-30	4306 Fawn Ct	Total/NA	Water	524.2	
500-234144-31	4318 Fawn Ct	Total/NA	Water	524.2	
MB 810-60143/6	Method Blank	Total/NA	Water	524.2	
500-234144-25 DU	7734 USH 14	Total/NA	Water	524.2	

Analysis Batch: 715387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234144-1	P-30D	Total/NA	Water	8260D	
500-234144-2	P-30I	Total/NA	Water	8260D	
500-234144-3	P-31IB	Total/NA	Water	8260D	
500-234144-4	P-31D	Total/NA	Water	8260D	
500-234144-5	P-31S	Total/NA	Water	8260D	
500-234144-6	P-31IA	Total/NA	Water	8260D	
500-234144-7	P-23D	Total/NA	Water	8260D	
500-234144-8	P-23S	Total/NA	Water	8260D	
500-234144-9	FD-3	Total/NA	Water	8260D	
500-234144-10	P-16S	Total/NA	Water	8260D	
500-234144-11	P-16D	Total/NA	Water	8260D	
500-234144-12	P-20SR	Total/NA	Water	8260D	
500-234144-13	P-08S	Total/NA	Water	8260D	
500-234144-14	P-33D	Total/NA	Water	8260D	
500-234144-15	P-17S	Total/NA	Water	8260D	
500-234144-16	P-9S	Total/NA	Water	8260D	
500-234144-17	P-9D	Total/NA	Water	8260D	
500-234144-18	P-21S	Total/NA	Water	8260D	
MB 500-715387/6	Method Blank	Total/NA	Water	8260D	
LCS 500-715387/4	Lab Control Sample	Total/NA	Water	8260D	
500-234144-18 MS	P-21S	Total/NA	Water	8260D	
500-234144-18 MSD	P-21S	Total/NA	Water	8260D	

Analysis Batch: 715631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234144-19	P-21D	Total/NA	Water	8260D	
500-234144-20	P-21BR	Total/NA	Water	8260D	
500-234144-21	P-08D	Total/NA	Water	8260D	
500-234144-22	P-24D	Total/NA	Water	8260D	
500-234144-23	P-24E	Total/NA	Water	8260D	
500-234144-24	FD-4	Total/NA	Water	8260D	
500-234144-32	EB-1	Total/NA	Water	8260D	
MB 500-715631/6	Method Blank	Total/NA	Water	8260D	
LCS 500-715631/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 715750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234144-33	TB-3	Total/NA	Water	8260D	
MB 500-715750/6	Method Blank	Total/NA	Water	8260D	

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QC Association Summary

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

GC/MS VOA (Continued)

Analysis Batch: 715750 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-715750/4	Lab Control Sample	Total/NA	Water	8260D	

Field Service / Mobile Lab

Analysis Batch: 716100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234144-1	P-30D	Total/NA	Water	Field Sampling	
500-234144-2	P-30I	Total/NA	Water	Field Sampling	
500-234144-3	P-31IB	Total/NA	Water	Field Sampling	
500-234144-4	P-31D	Total/NA	Water	Field Sampling	
500-234144-5	P-31S	Total/NA	Water	Field Sampling	
500-234144-6	P-31IA	Total/NA	Water	Field Sampling	
500-234144-7	P-23D	Total/NA	Water	Field Sampling	
500-234144-8	P-23S	Total/NA	Water	Field Sampling	
500-234144-10	P-16S	Total/NA	Water	Field Sampling	
500-234144-11	P-16D	Total/NA	Water	Field Sampling	
500-234144-12	P-20SR	Total/NA	Water	Field Sampling	
500-234144-13	P-08S	Total/NA	Water	Field Sampling	
500-234144-14	P-33D	Total/NA	Water	Field Sampling	
500-234144-15	P-17S	Total/NA	Water	Field Sampling	
500-234144-16	P-9S	Total/NA	Water	Field Sampling	
500-234144-17	P-9D	Total/NA	Water	Field Sampling	
500-234144-18	P-21S	Total/NA	Water	Field Sampling	
500-234144-19	P-21D	Total/NA	Water	Field Sampling	
500-234144-20	P-21BR	Total/NA	Water	Field Sampling	
500-234144-21	P-08D	Total/NA	Water	Field Sampling	
500-234144-22	P-24D	Total/NA	Water	Field Sampling	
500-234144-23	P-24E	Total/NA	Water	Field Sampling	
500-234144-25	7734 USH 14	Total/NA	Water	Field Sampling	
500-234144-26	7750 USH 14	Total/NA	Water	Field Sampling	
500-234144-27	7911 Deer Run	Total/NA	Water	Field Sampling	
500-234144-28	7877 Deer Run	Total/NA	Water	Field Sampling	
500-234144-29	7872 Deer Run	Total/NA	Water	Field Sampling	
500-234144-30	4306 Fawn Ct	Total/NA	Water	Field Sampling	
500-234144-31	4318 Fawn Ct	Total/NA	Water	Field Sampling	

Surrogate Summary

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-130)	DCZ (70-130)	DCA (70-130)	TOL (70-130)
500-234144-25	7734 USH 14	84	85	109	99
500-234144-25 DU	7734 USH 14	81	82	108	97
500-234144-26	7750 USH 14	78	84	109	95
500-234144-27	7911 Deer Run	80	85	108	99
500-234144-28	7877 Deer Run	83	83	110	99
500-234144-29	7872 Deer Run	80	79	102	94
500-234144-30	4306 Fawn Ct	81	82	108	99
500-234144-31	4318 Fawn Ct	78	80	108	98
MB 810-60143/6	Method Blank	85	87	104	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DCZ = 1,2-Dichlorobenzene-d4 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-234144-1	P-30D	98	92	96	92
500-234144-2	P-30I	102	93	98	94
500-234144-3	P-31IB	100	93	98	92
500-234144-4	P-31D	100	97	100	92
500-234144-5	P-31S	100	96	102	94
500-234144-6	P-31IA	101	94	100	93
500-234144-7	P-23D	102	96	102	92
500-234144-8	P-23S	100	96	101	92
500-234144-9	FD-3	101	96	100	93
500-234144-10	P-16S	104	95	102	95
500-234144-11	P-16D	100	97	103	92
500-234144-12	P-20SR	102	96	99	92
500-234144-13	P-08S	101	94	101	92
500-234144-14	P-33D	102	97	101	90
500-234144-15	P-17S	102	96	99	93
500-234144-16	P-9S	101	99	105	90
500-234144-17	P-9D	102	97	102	92
500-234144-18	P-21S	105	96	101	93
500-234144-18 MS	P-21S	103	98	101	92
500-234144-18 MSD	P-21S	105	102	105	94
500-234144-19	P-21D	108	103	109	89
500-234144-20	P-21BR	106	104	109	87
500-234144-21	P-08D	106	98	104	91
500-234144-22	P-24D	107	99	99	90
500-234144-23	P-24E	105	100	104	90
500-234144-24	FD-4	106	98	98	91
500-234144-32	EB-1	102	98	100	92
500-234144-33	TB-3	95	99	96	86

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Surrogate Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
LCS 500-715387/4	Lab Control Sample	105	99	99	92
LCS 500-715631/4	Lab Control Sample	102	100	98	91
LCS 500-715750/4	Lab Control Sample	100	103	93	87
MB 500-715387/6	Method Blank	100	95	101	94
MB 500-715631/6	Method Blank	104	95	97	89
MB 500-715750/6	Method Blank	100	100	98	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 810-60143/6
Matrix: Water
Analysis Batch: 60143

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

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/24/23 13:47	1
Chlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
cis-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
1,2-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
1,4-Dichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
1,2-Dichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
1,1-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
1,2-Dichloropropane	<0.20		0.25	0.20	ug/L			05/24/23 13:47	1
Ethylbenzene	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
Methylene Chloride	<0.40		0.50	0.40	ug/L			05/24/23 13:47	1
m-Xylene & p-Xylene	<0.50		0.50	0.50	ug/L			05/24/23 13:47	1
o-Xylene	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
Styrene	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
Toluene	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
trans-1,2-Dichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
1,2,4-Trichlorobenzene	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
1,1,1-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
1,1,2-Trichloroethane	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
Trichloroethene	<0.20		0.50	0.20	ug/L			05/24/23 13:47	1
Vinyl chloride	<0.20		0.20	0.20	ug/L			05/24/23 13:47	1
Xylenes, Total	<0.50		0.50	0.50	ug/L			05/24/23 13:47	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	85		70 - 130		05/24/23 13:47	1
1,2-Dichlorobenzene-d4 (Surr)	87		70 - 130		05/24/23 13:47	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		05/24/23 13:47	1
Toluene-d8 (Surr)	98		70 - 130		05/24/23 13:47	1

Lab Sample ID: 500-234144-25 DU
Matrix: Water
Analysis Batch: 60143

Client Sample ID: 7734 USH 14
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Benzene	<0.20		<0.20		ug/L		NC	20
Carbon tetrachloride	<0.10		<0.10		ug/L		NC	20
Chlorobenzene	<0.20		<0.20		ug/L		NC	20
cis-1,2-Dichloroethene	0.98		1.10		ug/L		12	20
1,2-Dichlorobenzene	<0.20		<0.20		ug/L		NC	20
1,4-Dichlorobenzene	<0.20		<0.20		ug/L		NC	20
1,2-Dichloroethane	<0.20		<0.20		ug/L		NC	20
1,1-Dichloroethene	<0.20		<0.20		ug/L		NC	20
1,2-Dichloropropane	<0.20		<0.20		ug/L		NC	20
Ethylbenzene	<0.20		<0.20		ug/L		NC	20
Methylene Chloride	<0.40		<0.40		ug/L		NC	20
m-Xylene & p-Xylene	<0.50		<0.50		ug/L		NC	20
o-Xylene	<0.20		<0.20		ug/L		NC	20

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QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-234144-25 DU
Matrix: Water
Analysis Batch: 60143

Client Sample ID: 7734 USH 14
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				
Styrene	<0.20		<0.20		ug/L		NC	20
Tetrachloroethene	3.3		3.15		ug/L		4	20
Toluene	<0.20		<0.20		ug/L		NC	20
trans-1,2-Dichloroethene	<0.20		<0.20		ug/L		NC	20
1,2,4-Trichlorobenzene	<0.20		<0.20		ug/L		NC	20
1,1,1-Trichloroethane	<0.20		<0.20		ug/L		NC	20
1,1,2-Trichloroethane	<0.20		<0.20		ug/L		NC	20
Trichloroethene	0.73		0.729		ug/L		0.5	20
Vinyl chloride	<0.20		<0.20		ug/L		NC	20
Xylenes, Total	<0.50		<0.50		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	81		70 - 130
1,2-Dichlorobenzene-d4 (Surr)	82		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
Toluene-d8 (Surr)	97		70 - 130

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

Lab Sample ID: MB 500-715387/6
Matrix: Water
Analysis Batch: 715387

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

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	8.46	J	10	1.7	ug/L			05/26/23 00:33	1
Benzene	<0.15		0.50	0.15	ug/L			05/26/23 00:33	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/26/23 00:33	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/26/23 00:33	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/26/23 00:33	1
Bromoform	<0.48		1.0	0.48	ug/L			05/26/23 00:33	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/26/23 00:33	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/26/23 00:33	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/26/23 00:33	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/26/23 00:33	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/26/23 00:33	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/26/23 00:33	1
Chloroform	<0.37		2.0	0.37	ug/L			05/26/23 00:33	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/26/23 00:33	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/26/23 00:33	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/26/23 00:33	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/26/23 00:33	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/26/23 00:33	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/26/23 00:33	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/26/23 00:33	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/26/23 00:33	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/26/23 00:33	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/26/23 00:33	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/26/23 00:33	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/26/23 00:33	1

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QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

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

Lab Sample ID: MB 500-715387/6
Matrix: Water
Analysis Batch: 715387

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/26/23 00:33	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/26/23 00:33	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/26/23 00:33	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/26/23 00:33	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/26/23 00:33	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/26/23 00:33	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/26/23 00:33	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/26/23 00:33	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/26/23 00:33	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/26/23 00:33	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 00:33	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/26/23 00:33	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/26/23 00:33	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/26/23 00:33	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/26/23 00:33	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/26/23 00:33	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/26/23 00:33	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/26/23 00:33	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 00:33	1
Styrene	<0.39		1.0	0.39	ug/L			05/26/23 00:33	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/26/23 00:33	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/26/23 00:33	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/26/23 00:33	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/26/23 00:33	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/26/23 00:33	1
Toluene	<0.15		0.50	0.15	ug/L			05/26/23 00:33	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/26/23 00:33	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/26/23 00:33	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/26/23 00:33	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/26/23 00:33	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/26/23 00:33	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/26/23 00:33	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/26/23 00:33	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/26/23 00:33	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/26/23 00:33	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/26/23 00:33	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/26/23 00:33	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/26/23 00:33	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/26/23 00:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124		05/26/23 00:33	1
Dibromofluoromethane (Surr)	95		75 - 120		05/26/23 00:33	1
1,2-Dichloroethane-d4 (Surr)	101		75 - 126		05/26/23 00:33	1
Toluene-d8 (Surr)	94		75 - 120		05/26/23 00:33	1

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QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

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

Lab Sample ID: LCS 500-715387/4
Matrix: Water
Analysis Batch: 715387

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	50.0	51.3		ug/L		103	40 - 143
Benzene	50.0	46.4		ug/L		93	70 - 120
Bromobenzene	50.0	47.5		ug/L		95	70 - 122
Bromochloromethane	50.0	46.8		ug/L		94	65 - 122
Bromodichloromethane	50.0	44.1		ug/L		88	69 - 120
Bromoform	50.0	40.9		ug/L		82	56 - 132
Bromomethane	50.0	53.3		ug/L		107	40 - 152
2-Butanone (MEK)	50.0	54.3		ug/L		109	46 - 144
Carbon disulfide	50.0	47.3		ug/L		95	66 - 120
Carbon tetrachloride	50.0	48.5		ug/L		97	59 - 133
Chlorobenzene	50.0	48.0		ug/L		96	70 - 120
Chloroethane	50.0	61.5		ug/L		123	48 - 136
Chloroform	50.0	47.0		ug/L		94	70 - 120
Chloromethane	50.0	63.2		ug/L		126	56 - 152
2-Chlorotoluene	50.0	46.8		ug/L		94	70 - 125
4-Chlorotoluene	50.0	47.7		ug/L		95	68 - 124
cis-1,2-Dichloroethene	50.0	46.2		ug/L		92	70 - 125
cis-1,3-Dichloropropene	50.0	43.7		ug/L		87	64 - 127
Dibromochloromethane	50.0	41.8		ug/L		84	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	40.2		ug/L		80	56 - 123
1,2-Dibromoethane	50.0	46.5		ug/L		93	70 - 125
Dibromomethane	50.0	44.6		ug/L		89	70 - 120
1,2-Dichlorobenzene	50.0	44.6		ug/L		89	70 - 125
1,3-Dichlorobenzene	50.0	46.0		ug/L		92	70 - 125
1,4-Dichlorobenzene	50.0	44.7		ug/L		89	70 - 120
Dichlorodifluoromethane	50.0	62.3		ug/L		125	40 - 159
1,1-Dichloroethane	50.0	52.6		ug/L		105	70 - 125
1,2-Dichloroethane	50.0	49.3		ug/L		99	68 - 127
1,1-Dichloroethene	50.0	46.8		ug/L		94	67 - 122
1,2-Dichloropropane	50.0	53.2		ug/L		106	67 - 130
1,3-Dichloropropane	50.0	48.0		ug/L		96	62 - 136
2,2-Dichloropropane	50.0	50.1		ug/L		100	58 - 139
1,1-Dichloropropene	50.0	49.8		ug/L		100	70 - 121
Ethylbenzene	50.0	45.4		ug/L		91	70 - 123
Hexachlorobutadiene	50.0	52.5		ug/L		105	51 - 150
Isopropylbenzene	50.0	47.8		ug/L		96	70 - 126
Methylene Chloride	50.0	44.9		ug/L		90	69 - 125
Methyl tert-butyl ether	50.0	51.9		ug/L		104	55 - 123
Naphthalene	50.0	42.1		ug/L		84	53 - 144
n-Butylbenzene	50.0	45.1		ug/L		90	68 - 125
N-Propylbenzene	50.0	47.0		ug/L		94	69 - 127
p-Isopropyltoluene	50.0	47.5		ug/L		95	70 - 125
sec-Butylbenzene	50.0	46.7		ug/L		93	70 - 123
Styrene	50.0	47.3		ug/L		95	70 - 120
tert-Butylbenzene	50.0	46.3		ug/L		93	70 - 121
1,1,1,2-Tetrachloroethane	50.0	42.1		ug/L		84	70 - 125
1,1,1,2,2-Tetrachloroethane	50.0	43.3		ug/L		87	62 - 140
Tetrachloroethene	50.0	49.1		ug/L		98	70 - 128

QC Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

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

Lab Sample ID: LCS 500-715387/4
Matrix: Water
Analysis Batch: 715387

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrahydrofuran	100	111		ug/L		111	59 - 139
Toluene	50.0	41.4		ug/L		83	70 - 125
trans-1,2-Dichloroethene	50.0	47.0		ug/L		94	70 - 125
trans-1,3-Dichloropropene	50.0	44.1		ug/L		88	62 - 128
1,2,3-Trichlorobenzene	50.0	44.4		ug/L		89	51 - 145
1,2,4-Trichlorobenzene	50.0	46.5		ug/L		93	57 - 137
1,1,1-Trichloroethane	50.0	48.6		ug/L		97	70 - 125
1,1,2-Trichloroethane	50.0	43.3		ug/L		87	71 - 130
Trichloroethene	50.0	48.2		ug/L		96	70 - 125
Trichlorofluoromethane	50.0	57.6		ug/L		115	55 - 128
1,2,3-Trichloropropane	50.0	48.1		ug/L		96	50 - 133
1,2,4-Trimethylbenzene	50.0	49.5		ug/L		99	70 - 123
1,3,5-Trimethylbenzene	50.0	48.7		ug/L		97	70 - 123
Vinyl chloride	50.0	66.2	*	ug/L		132	64 - 126
Xylenes, Total	100	90.6		ug/L		91	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		72 - 124
Dibromofluoromethane (Surr)	99		75 - 120
1,2-Dichloroethane-d4 (Surr)	99		75 - 126
Toluene-d8 (Surr)	92		75 - 120

Lab Sample ID: 500-234144-18 MS
Matrix: Water
Analysis Batch: 715387

Client Sample ID: P-21S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<1.7		50.0	43.9		ug/L		88	40 - 143
Benzene	<0.15		50.0	46.3		ug/L		93	70 - 120
Bromobenzene	<0.36		50.0	47.8		ug/L		96	70 - 122
Bromochloromethane	<0.43		50.0	47.4		ug/L		95	65 - 122
Bromodichloromethane	<0.37		50.0	45.3		ug/L		91	69 - 120
Bromoform	<0.48	^c	50.0	40.2		ug/L		80	56 - 132
Bromomethane	<0.80		50.0	51.7		ug/L		103	40 - 152
2-Butanone (MEK)	<2.1		50.0	51.6		ug/L		103	46 - 144
Carbon disulfide	<0.45		50.0	45.6		ug/L		91	66 - 120
Carbon tetrachloride	<0.38		50.0	47.6		ug/L		95	59 - 133
Chlorobenzene	<0.39		50.0	47.0		ug/L		94	70 - 120
Chloroethane	<0.51	^c	50.0	57.7		ug/L		115	48 - 136
Chloroform	<0.37		50.0	46.8		ug/L		94	70 - 120
Chloromethane	<0.32		50.0	59.3		ug/L		119	56 - 152
2-Chlorotoluene	<0.31		50.0	46.3		ug/L		93	70 - 125
4-Chlorotoluene	<0.35		50.0	46.4		ug/L		93	68 - 124
cis-1,2-Dichloroethene	<0.41		50.0	46.4		ug/L		93	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	42.3		ug/L		85	64 - 127
Dibromochloromethane	<0.49		50.0	41.1		ug/L		82	68 - 125
1,2-Dibromo-3-Chloropropane	<2.0	^c	50.0	41.9		ug/L		84	56 - 123
1,2-Dibromoethane	<0.39		50.0	45.2		ug/L		90	70 - 125

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QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

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

Lab Sample ID: 500-234144-18 MS
Matrix: Water
Analysis Batch: 715387

Client Sample ID: P-21S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dibromomethane	<0.27		50.0	44.1		ug/L		88	70 - 120
1,2-Dichlorobenzene	<0.33		50.0	44.4		ug/L		89	70 - 125
1,3-Dichlorobenzene	<0.40		50.0	45.4		ug/L		91	70 - 125
1,4-Dichlorobenzene	<0.36		50.0	44.3		ug/L		89	70 - 120
Dichlorodifluoromethane	<0.67		50.0	53.1		ug/L		106	40 - 159
1,1-Dichloroethane	<0.41		50.0	52.3		ug/L		105	70 - 125
1,2-Dichloroethane	<0.39		50.0	49.5		ug/L		99	68 - 127
1,1-Dichloroethene	<0.39		50.0	47.0		ug/L		94	67 - 122
1,2-Dichloropropane	<0.43		50.0	52.0		ug/L		104	67 - 130
1,3-Dichloropropane	<0.36		50.0	47.7		ug/L		95	62 - 136
2,2-Dichloropropane	<0.44		50.0	46.7		ug/L		93	58 - 139
1,1-Dichloropropene	<0.30		50.0	48.3		ug/L		97	70 - 121
Ethylbenzene	<0.18		50.0	43.9		ug/L		88	70 - 123
Hexachlorobutadiene	<0.45		50.0	53.4		ug/L		107	51 - 150
Isopropylbenzene	<0.39		50.0	47.1		ug/L		94	70 - 126
Methylene Chloride	<1.6		50.0	45.8		ug/L		92	69 - 125
Methyl tert-butyl ether	<0.39		50.0	52.4		ug/L		105	55 - 123
Naphthalene	<0.34	^c	50.0	42.2		ug/L		84	53 - 144
n-Butylbenzene	<0.39		50.0	43.1		ug/L		86	68 - 125
N-Propylbenzene	<0.41		50.0	45.2		ug/L		90	69 - 127
p-Isopropyltoluene	<0.36		50.0	47.0		ug/L		94	70 - 125
sec-Butylbenzene	<0.40		50.0	46.7		ug/L		93	70 - 123
Styrene	<0.39		50.0	46.0		ug/L		92	70 - 120
tert-Butylbenzene	<0.40		50.0	47.5		ug/L		95	70 - 121
1,1,1,2-Tetrachloroethane	<0.46		50.0	42.1		ug/L		84	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	43.4		ug/L		87	62 - 140
Tetrachloroethene	<0.37		50.0	47.8		ug/L		96	70 - 128
Tetrahydrofuran	<1.9		100	115		ug/L		115	59 - 139
Toluene	<0.15		50.0	40.7		ug/L		81	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	45.7		ug/L		91	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	42.3		ug/L		85	62 - 128
1,2,3-Trichlorobenzene	<0.46		50.0	45.4		ug/L		91	51 - 145
1,2,4-Trichlorobenzene	<0.34		50.0	46.0		ug/L		92	57 - 137
1,1,1-Trichloroethane	<0.38		50.0	48.3		ug/L		97	70 - 125
1,1,2-Trichloroethane	<0.35		50.0	41.6		ug/L		83	71 - 130
Trichloroethene	<0.16		50.0	48.1		ug/L		96	70 - 125
Trichlorofluoromethane	<0.43		50.0	53.4		ug/L		107	55 - 128
1,2,3-Trichloropropane	<0.41		50.0	46.5		ug/L		93	50 - 133
1,2,4-Trimethylbenzene	<0.36		50.0	47.3		ug/L		95	70 - 123
1,3,5-Trimethylbenzene	<0.25		50.0	48.2		ug/L		96	70 - 123
Vinyl chloride	<0.20	^c *	50.0	61.4		ug/L		123	64 - 126
Xylenes, Total	<0.22		100	89.1		ug/L		89	70 - 125

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	103		72 - 124
Dibromofluoromethane (Surr)	98		75 - 120
1,2-Dichloroethane-d4 (Surr)	101		75 - 126
Toluene-d8 (Surr)	92		75 - 120

QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

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

Lab Sample ID: 500-234144-18 MSD
Matrix: Water
Analysis Batch: 715387

Client Sample ID: P-21S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	<1.7		50.0	45.2		ug/L		90	40 - 143	3	20
Benzene	<0.15		50.0	44.6		ug/L		89	70 - 120	4	20
Bromobenzene	<0.36		50.0	46.8		ug/L		94	70 - 122	2	20
Bromochloromethane	<0.43		50.0	46.4		ug/L		93	65 - 122	2	20
Bromodichloromethane	<0.37		50.0	42.5		ug/L		85	69 - 120	6	20
Bromoform	<0.48	^c	50.0	39.0		ug/L		78	56 - 132	3	20
Bromomethane	<0.80		50.0	49.0		ug/L		98	40 - 152	5	20
2-Butanone (MEK)	<2.1		50.0	49.8		ug/L		100	46 - 144	3	20
Carbon disulfide	<0.45		50.0	44.4		ug/L		89	66 - 120	3	20
Carbon tetrachloride	<0.38		50.0	45.4		ug/L		91	59 - 133	5	20
Chlorobenzene	<0.39		50.0	45.7		ug/L		91	70 - 120	3	20
Chloroethane	<0.51	^c	50.0	55.4		ug/L		111	48 - 136	4	20
Chloroform	<0.37		50.0	44.6		ug/L		89	70 - 120	5	20
Chloromethane	<0.32		50.0	57.8		ug/L		116	56 - 152	3	20
2-Chlorotoluene	<0.31		50.0	45.2		ug/L		90	70 - 125	2	20
4-Chlorotoluene	<0.35		50.0	44.0		ug/L		88	68 - 124	5	20
cis-1,2-Dichloroethene	<0.41		50.0	44.2		ug/L		88	70 - 125	5	20
cis-1,3-Dichloropropene	<0.42		50.0	42.2		ug/L		84	64 - 127	0	20
Dibromochloromethane	<0.49		50.0	41.2		ug/L		82	68 - 125	0	20
1,2-Dibromo-3-Chloropropane	<2.0	^c	50.0	40.9		ug/L		82	56 - 123	2	20
1,2-Dibromoethane	<0.39		50.0	45.5		ug/L		91	70 - 125	1	20
Dibromomethane	<0.27		50.0	43.5		ug/L		87	70 - 120	1	20
1,2-Dichlorobenzene	<0.33		50.0	44.0		ug/L		88	70 - 125	1	20
1,3-Dichlorobenzene	<0.40		50.0	43.8		ug/L		88	70 - 125	4	20
1,4-Dichlorobenzene	<0.36		50.0	42.7		ug/L		85	70 - 120	4	20
Dichlorodifluoromethane	<0.67		50.0	53.9		ug/L		108	40 - 159	2	20
1,1-Dichloroethane	<0.41		50.0	50.4		ug/L		101	70 - 125	4	20
1,2-Dichloroethane	<0.39		50.0	48.9		ug/L		98	68 - 127	1	20
1,1-Dichloroethene	<0.39		50.0	44.8		ug/L		90	67 - 122	5	20
1,2-Dichloropropane	<0.43		50.0	49.2		ug/L		98	67 - 130	6	20
1,3-Dichloropropane	<0.36		50.0	46.7		ug/L		93	62 - 136	2	20
2,2-Dichloropropane	<0.44		50.0	44.8		ug/L		90	58 - 139	4	20
1,1-Dichloropropene	<0.30		50.0	47.2		ug/L		94	70 - 121	2	20
Ethylbenzene	<0.18		50.0	42.5		ug/L		85	70 - 123	3	20
Hexachlorobutadiene	<0.45		50.0	47.8		ug/L		96	51 - 150	11	20
Isopropylbenzene	<0.39		50.0	46.8		ug/L		94	70 - 126	1	20
Methylene Chloride	<1.6		50.0	44.4		ug/L		89	69 - 125	3	20
Methyl tert-butyl ether	<0.39		50.0	51.2		ug/L		102	55 - 123	2	20
Naphthalene	<0.34	^c	50.0	38.9		ug/L		78	53 - 144	8	20
n-Butylbenzene	<0.39		50.0	41.3		ug/L		83	68 - 125	4	20
N-Propylbenzene	<0.41		50.0	43.9		ug/L		88	69 - 127	3	20
p-Isopropyltoluene	<0.36		50.0	45.5		ug/L		91	70 - 125	3	20
sec-Butylbenzene	<0.40		50.0	45.3		ug/L		91	70 - 123	3	20
Styrene	<0.39		50.0	44.6		ug/L		89	70 - 120	3	20
tert-Butylbenzene	<0.40		50.0	47.0		ug/L		94	70 - 121	1	20
1,1,1,2-Tetrachloroethane	<0.46		50.0	41.9		ug/L		84	70 - 125	0	20
1,1,1,2,2-Tetrachloroethane	<0.40		50.0	44.8		ug/L		90	62 - 140	3	20
Tetrachloroethene	<0.37		50.0	47.1		ug/L		94	70 - 128	1	20

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QC Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

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

Lab Sample ID: 500-234144-18 MSD
Matrix: Water
Analysis Batch: 715387

Client Sample ID: P-21S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrahydrofuran	<1.9		100	114		ug/L		114	59 - 139	1	20
Toluene	<0.15		50.0	39.8		ug/L		80	70 - 125	2	20
trans-1,2-Dichloroethene	<0.35		50.0	44.0		ug/L		88	70 - 125	4	20
trans-1,3-Dichloropropene	<0.36		50.0	42.2		ug/L		84	62 - 128	0	20
1,2,3-Trichlorobenzene	<0.46		50.0	40.7		ug/L		81	51 - 145	11	20
1,2,4-Trichlorobenzene	<0.34		50.0	41.6		ug/L		83	57 - 137	10	20
1,1,1-Trichloroethane	<0.38		50.0	46.0		ug/L		92	70 - 125	5	20
1,1,2-Trichloroethane	<0.35		50.0	42.1		ug/L		84	71 - 130	1	20
Trichloroethene	<0.16		50.0	46.0		ug/L		92	70 - 125	4	20
Trichlorofluoromethane	<0.43		50.0	52.0		ug/L		104	55 - 128	3	20
1,2,3-Trichloropropane	<0.41		50.0	49.4		ug/L		99	50 - 133	6	20
1,2,4-Trimethylbenzene	<0.36		50.0	45.8		ug/L		92	70 - 123	3	20
1,3,5-Trimethylbenzene	<0.25		50.0	46.3		ug/L		93	70 - 123	4	20
Vinyl chloride	<0.20	^c *	50.0	59.6		ug/L		119	64 - 126	3	20
Xylenes, Total	<0.22		100	85.8		ug/L		86	70 - 125	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		72 - 124
Dibromofluoromethane (Surr)	102		75 - 120
1,2-Dichloroethane-d4 (Surr)	105		75 - 126
Toluene-d8 (Surr)	94		75 - 120

Lab Sample ID: MB 500-715631/6
Matrix: Water
Analysis Batch: 715631

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			05/28/23 15:02	1
Benzene	<0.15		0.50	0.15	ug/L			05/28/23 15:02	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/28/23 15:02	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/28/23 15:02	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/28/23 15:02	1
Bromoform	<0.48		1.0	0.48	ug/L			05/28/23 15:02	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/28/23 15:02	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/28/23 15:02	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/28/23 15:02	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/28/23 15:02	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/28/23 15:02	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/28/23 15:02	1
Chloroform	<0.37		2.0	0.37	ug/L			05/28/23 15:02	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/28/23 15:02	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/28/23 15:02	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/28/23 15:02	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/28/23 15:02	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/28/23 15:02	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/28/23 15:02	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/28/23 15:02	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/28/23 15:02	1

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QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

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

Lab Sample ID: MB 500-715631/6
Matrix: Water
Analysis Batch: 715631

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	<0.27		1.0	0.27	ug/L			05/28/23 15:02	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/28/23 15:02	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/28/23 15:02	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/28/23 15:02	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/28/23 15:02	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/28/23 15:02	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/28/23 15:02	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/28/23 15:02	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/28/23 15:02	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/28/23 15:02	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/28/23 15:02	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/28/23 15:02	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/28/23 15:02	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/28/23 15:02	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/28/23 15:02	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/28/23 15:02	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/28/23 15:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/28/23 15:02	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/28/23 15:02	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/28/23 15:02	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/28/23 15:02	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/28/23 15:02	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 15:02	1
Styrene	<0.39		1.0	0.39	ug/L			05/28/23 15:02	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/23 15:02	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/28/23 15:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/28/23 15:02	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/28/23 15:02	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/28/23 15:02	1
Toluene	<0.15		0.50	0.15	ug/L			05/28/23 15:02	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/28/23 15:02	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/28/23 15:02	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/28/23 15:02	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/28/23 15:02	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/28/23 15:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/28/23 15:02	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/28/23 15:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/28/23 15:02	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/28/23 15:02	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/28/23 15:02	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/28/23 15:02	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/28/23 15:02	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/28/23 15:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		72 - 124		05/28/23 15:02	1
Dibromofluoromethane (Surr)	95		75 - 120		05/28/23 15:02	1
1,2-Dichloroethane-d4 (Surr)	97		75 - 126		05/28/23 15:02	1

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QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

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

Lab Sample ID: MB 500-715631/6
Matrix: Water
Analysis Batch: 715631

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

Surrogate	MB MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)		89		75 - 120		05/28/23 15:02	1

Lab Sample ID: LCS 500-715631/4
Matrix: Water
Analysis Batch: 715631

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	50.0	59.5		ug/L		119	40 - 143
Benzene	50.0	51.7		ug/L		103	70 - 120
Bromobenzene	50.0	53.8		ug/L		108	70 - 122
Bromochloromethane	50.0	51.3		ug/L		103	65 - 122
Bromodichloromethane	50.0	49.7		ug/L		99	69 - 120
Bromoform	50.0	47.0		ug/L		94	56 - 132
Bromomethane	50.0	51.8		ug/L		104	40 - 152
2-Butanone (MEK)	50.0	59.9		ug/L		120	46 - 144
Carbon disulfide	50.0	46.7		ug/L		93	66 - 120
Carbon tetrachloride	50.0	53.1		ug/L		106	59 - 133
Chlorobenzene	50.0	53.1		ug/L		106	70 - 120
Chloroethane	50.0	58.5		ug/L		117	48 - 136
Chloroform	50.0	51.8		ug/L		104	70 - 120
Chloromethane	50.0	52.3		ug/L		105	56 - 152
2-Chlorotoluene	50.0	51.4		ug/L		103	70 - 125
4-Chlorotoluene	50.0	52.0		ug/L		104	68 - 124
cis-1,2-Dichloroethene	50.0	51.6		ug/L		103	70 - 125
cis-1,3-Dichloropropene	50.0	49.3		ug/L		99	64 - 127
Dibromochloromethane	50.0	47.7		ug/L		95	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	43.7		ug/L		87	56 - 123
1,2-Dibromoethane	50.0	50.5		ug/L		101	70 - 125
Dibromomethane	50.0	50.0		ug/L		100	70 - 120
1,2-Dichlorobenzene	50.0	50.9		ug/L		102	70 - 125
1,3-Dichlorobenzene	50.0	51.0		ug/L		102	70 - 125
1,4-Dichlorobenzene	50.0	50.6		ug/L		101	70 - 120
Dichlorodifluoromethane	50.0	50.6		ug/L		101	40 - 159
1,1-Dichloroethane	50.0	55.8		ug/L		112	70 - 125
1,2-Dichloroethane	50.0	54.2		ug/L		108	68 - 127
1,1-Dichloroethene	50.0	49.2		ug/L		98	67 - 122
1,2-Dichloropropane	50.0	59.4		ug/L		119	67 - 130
1,3-Dichloropropane	50.0	51.9		ug/L		104	62 - 136
2,2-Dichloropropane	50.0	52.0		ug/L		104	58 - 139
1,1-Dichloropropene	50.0	53.9		ug/L		108	70 - 121
Ethylbenzene	50.0	50.0		ug/L		100	70 - 123
Hexachlorobutadiene	50.0	58.2		ug/L		116	51 - 150
Isopropylbenzene	50.0	53.3		ug/L		107	70 - 126
Methylene Chloride	50.0	49.9		ug/L		100	69 - 125
Methyl tert-butyl ether	50.0	55.6		ug/L		111	55 - 123
Naphthalene	50.0	47.9		ug/L		96	53 - 144
n-Butylbenzene	50.0	49.5		ug/L		99	68 - 125
N-Propylbenzene	50.0	50.2		ug/L		100	69 - 127

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QC Sample Results

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

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

Lab Sample ID: LCS 500-715631/4
Matrix: Water
Analysis Batch: 715631

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
p-Isopropyltoluene	50.0	53.1		ug/L		106	70 - 125
sec-Butylbenzene	50.0	52.1		ug/L		104	70 - 123
Styrene	50.0	52.6		ug/L		105	70 - 120
tert-Butylbenzene	50.0	53.3		ug/L		107	70 - 121
1,1,1,2-Tetrachloroethane	50.0	48.9		ug/L		98	70 - 125
1,1,2,2-Tetrachloroethane	50.0	48.8		ug/L		98	62 - 140
Tetrachloroethene	50.0	54.9		ug/L		110	70 - 128
Tetrahydrofuran	100	109		ug/L		109	59 - 139
Toluene	50.0	46.1		ug/L		92	70 - 125
trans-1,2-Dichloroethene	50.0	50.7		ug/L		101	70 - 125
trans-1,3-Dichloropropene	50.0	48.2		ug/L		96	62 - 128
1,2,3-Trichlorobenzene	50.0	51.0		ug/L		102	51 - 145
1,2,4-Trichlorobenzene	50.0	52.9		ug/L		106	57 - 137
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	70 - 125
1,1,2-Trichloroethane	50.0	47.4		ug/L		95	71 - 130
Trichloroethene	50.0	54.7		ug/L		109	70 - 125
Trichlorofluoromethane	50.0	54.9		ug/L		110	55 - 128
1,2,3-Trichloropropane	50.0	53.2		ug/L		106	50 - 133
1,2,4-Trimethylbenzene	50.0	53.1		ug/L		106	70 - 123
1,3,5-Trimethylbenzene	50.0	53.9		ug/L		108	70 - 123
Vinyl chloride	50.0	58.8		ug/L		118	64 - 126
Xylenes, Total	100	101		ug/L		101	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		72 - 124
Dibromofluoromethane (Surr)	100		75 - 120
1,2-Dichloroethane-d4 (Surr)	98		75 - 126
Toluene-d8 (Surr)	91		75 - 120

Lab Sample ID: MB 500-715750/6
Matrix: Water
Analysis Batch: 715750

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

Analyte	MB MB		LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<1.7		10	1.7	ug/L			05/30/23 11:50	1
Benzene	<0.15		0.50	0.15	ug/L			05/30/23 11:50	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/30/23 11:50	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/30/23 11:50	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/30/23 11:50	1
Bromoform	<0.48		1.0	0.48	ug/L			05/30/23 11:50	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/30/23 11:50	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/30/23 11:50	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/30/23 11:50	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/30/23 11:50	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/30/23 11:50	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/30/23 11:50	1
Chloroform	<0.37		2.0	0.37	ug/L			05/30/23 11:50	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/30/23 11:50	1

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QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

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

Lab Sample ID: MB 500-715750/6
Matrix: Water
Analysis Batch: 715750

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

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/30/23 11:50	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/30/23 11:50	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/30/23 11:50	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/30/23 11:50	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/30/23 11:50	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/30/23 11:50	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/30/23 11:50	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/30/23 11:50	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/30/23 11:50	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/30/23 11:50	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/30/23 11:50	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/30/23 11:50	1
1,1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/30/23 11:50	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/30/23 11:50	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/30/23 11:50	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/30/23 11:50	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/30/23 11:50	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/30/23 11:50	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/30/23 11:50	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/30/23 11:50	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/30/23 11:50	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/30/23 11:50	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/30/23 11:50	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/30/23 11:50	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/30/23 11:50	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/30/23 11:50	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/30/23 11:50	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/30/23 11:50	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/30/23 11:50	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/30/23 11:50	1
Styrene	<0.39		1.0	0.39	ug/L			05/30/23 11:50	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/30/23 11:50	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/30/23 11:50	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/30/23 11:50	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/30/23 11:50	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/30/23 11:50	1
Toluene	<0.15		0.50	0.15	ug/L			05/30/23 11:50	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/30/23 11:50	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/30/23 11:50	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/30/23 11:50	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/30/23 11:50	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/30/23 11:50	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/30/23 11:50	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/30/23 11:50	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/30/23 11:50	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			05/30/23 11:50	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/30/23 11:50	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/30/23 11:50	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/30/23 11:50	1

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QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

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

Lab Sample ID: MB 500-715750/6
Matrix: Water
Analysis Batch: 715750

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/30/23 11:50	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124					05/30/23 11:50	1
Dibromofluoromethane (Surr)	100		75 - 120					05/30/23 11:50	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 126					05/30/23 11:50	1
Toluene-d8 (Surr)	90		75 - 120					05/30/23 11:50	1

Lab Sample ID: LCS 500-715750/4
Matrix: Water
Analysis Batch: 715750

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	50.0	58.0		ug/L		116	40 - 143
Benzene	50.0	54.6		ug/L		109	70 - 120
Bromobenzene	50.0	50.6		ug/L		101	70 - 122
Bromochloromethane	50.0	56.8		ug/L		114	65 - 122
Bromodichloromethane	50.0	53.2		ug/L		106	69 - 120
Bromoform	50.0	46.8		ug/L		94	56 - 132
Bromomethane	50.0	53.4		ug/L		107	40 - 152
2-Butanone (MEK)	50.0	56.1		ug/L		112	46 - 144
Carbon disulfide	50.0	46.8		ug/L		94	66 - 120
Carbon tetrachloride	50.0	57.4		ug/L		115	59 - 133
Chlorobenzene	50.0	52.2		ug/L		104	70 - 120
Chloroethane	50.0	59.5		ug/L		119	48 - 136
Chloroform	50.0	55.3		ug/L		111	70 - 120
Chloromethane	50.0	46.7		ug/L		93	56 - 152
2-Chlorotoluene	50.0	47.9		ug/L		96	70 - 125
4-Chlorotoluene	50.0	48.9		ug/L		98	68 - 124
cis-1,2-Dichloroethene	50.0	55.7		ug/L		111	70 - 125
cis-1,3-Dichloropropene	50.0	47.3		ug/L		95	64 - 127
Dibromochloromethane	50.0	46.1		ug/L		92	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	41.1		ug/L		82	56 - 123
1,2-Dibromoethane	50.0	50.1		ug/L		100	70 - 125
Dibromomethane	50.0	52.0		ug/L		104	70 - 120
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 125
1,3-Dichlorobenzene	50.0	49.4		ug/L		99	70 - 125
1,4-Dichlorobenzene	50.0	48.8		ug/L		98	70 - 120
Dichlorodifluoromethane	50.0	42.2		ug/L		84	40 - 159
1,1-Dichloroethane	50.0	58.1		ug/L		116	70 - 125
1,2-Dichloroethane	50.0	55.6		ug/L		111	68 - 127
1,1-Dichloroethene	50.0	51.5		ug/L		103	67 - 122
1,2-Dichloropropane	50.0	60.8		ug/L		122	67 - 130
1,3-Dichloropropane	50.0	50.1		ug/L		100	62 - 136
2,2-Dichloropropane	50.0	57.4		ug/L		115	58 - 139
1,1-Dichloropropene	50.0	57.7		ug/L		115	70 - 121
Ethylbenzene	50.0	49.9		ug/L		100	70 - 123
Hexachlorobutadiene	50.0	58.8		ug/L		118	51 - 150

Eurofins Chicago

QC Sample Results

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

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

Lab Sample ID: LCS 500-715750/4
Matrix: Water
Analysis Batch: 715750

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isopropylbenzene	50.0	49.7		ug/L		99	70 - 126
Methylene Chloride	50.0	53.1		ug/L		106	69 - 125
Methyl tert-butyl ether	50.0	58.0		ug/L		116	55 - 123
Naphthalene	50.0	45.8		ug/L		92	53 - 144
n-Butylbenzene	50.0	47.9		ug/L		96	68 - 125
N-Propylbenzene	50.0	48.1		ug/L		96	69 - 127
p-Isopropyltoluene	50.0	51.1		ug/L		102	70 - 125
sec-Butylbenzene	50.0	49.8		ug/L		100	70 - 123
Styrene	50.0	51.8		ug/L		104	70 - 120
tert-Butylbenzene	50.0	50.4		ug/L		101	70 - 121
1,1,1,2-Tetrachloroethane	50.0	47.9		ug/L		96	70 - 125
1,1,2,2-Tetrachloroethane	50.0	45.1		ug/L		90	62 - 140
Tetrachloroethene	50.0	54.6		ug/L		109	70 - 128
Tetrahydrofuran	100	110		ug/L		110	59 - 139
Toluene	50.0	44.8		ug/L		90	70 - 125
trans-1,2-Dichloroethene	50.0	54.1		ug/L		108	70 - 125
trans-1,3-Dichloropropene	50.0	46.6		ug/L		93	62 - 128
1,2,3-Trichlorobenzene	50.0	50.2		ug/L		100	51 - 145
1,2,4-Trichlorobenzene	50.0	52.7		ug/L		105	57 - 137
1,1,1-Trichloroethane	50.0	56.4		ug/L		113	70 - 125
1,1,2-Trichloroethane	50.0	45.3		ug/L		91	71 - 130
Trichloroethene	50.0	59.5		ug/L		119	70 - 125
Trichlorofluoromethane	50.0	57.7		ug/L		115	55 - 128
1,2,3-Trichloropropane	50.0	49.5		ug/L		99	50 - 133
1,2,4-Trimethylbenzene	50.0	50.4		ug/L		101	70 - 123
1,3,5-Trimethylbenzene	50.0	50.6		ug/L		101	70 - 123
Vinyl chloride	50.0	55.6		ug/L		111	64 - 126
Xylenes, Total	100	98.9		ug/L		99	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		72 - 124
Dibromofluoromethane (Surr)	103		75 - 120
1,2-Dichloroethane-d4 (Surr)	93		75 - 126
Toluene-d8 (Surr)	87		75 - 120

Lab Chronicle

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-30D
Date Collected: 05/16/23 14:25
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 00:58
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/16/23 14:25

Client Sample ID: P-30I
Date Collected: 05/16/23 14:28
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 01:22
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/16/23 14:28

Client Sample ID: P-31IB
Date Collected: 05/16/23 15:06
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 01:47
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/16/23 15:06

Client Sample ID: P-31D
Date Collected: 05/16/23 15:10
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 02:11
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/16/23 15:10

Client Sample ID: P-31S
Date Collected: 05/16/23 15:34
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 02:35
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/16/23 15:34

Client Sample ID: P-31IA
Date Collected: 05/16/23 15:48
Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 03:00
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/16/23 15:48

Lab Chronicle

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-23D

Date Collected: 05/16/23 17:01

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 03:24
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/16/23 17:01

Client Sample ID: P-23S

Date Collected: 05/16/23 17:17

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 03:49
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/16/23 17:17

Client Sample ID: FD-3

Date Collected: 05/16/23 17:19

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 04:13

Client Sample ID: P-16S

Date Collected: 05/16/23 16:59

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 04:38
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/16/23 16:59

Client Sample ID: P-16D

Date Collected: 05/16/23 17:30

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 05:02
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/16/23 17:30

Client Sample ID: P-20SR

Date Collected: 05/16/23 18:18

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 05:27
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/16/23 18:18

Lab Chronicle

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-08S

Date Collected: 05/16/23 18:50

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 05:51
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/16/23 18:50

Client Sample ID: P-33D

Date Collected: 05/16/23 19:10

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 06:16
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/16/23 19:10

Client Sample ID: P-17S

Date Collected: 05/17/23 07:38

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 06:40
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 07:38

Client Sample ID: P-9S

Date Collected: 05/17/23 07:25

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 07:04
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 07:25

Client Sample ID: P-9D

Date Collected: 05/17/23 07:46

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 07:29
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 07:46

Client Sample ID: P-21S

Date Collected: 05/17/23 08:25

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715387	EA	EET CHI	05/26/23 07:53
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 08:25

Lab Chronicle

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: P-21D

Date Collected: 05/17/23 08:48

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715631	W1T	EET CHI	05/28/23 16:39
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 08:48

Client Sample ID: P-21BR

Date Collected: 05/17/23 08:57

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715631	W1T	EET CHI	05/28/23 17:03
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 08:57

Client Sample ID: P-08D

Date Collected: 05/17/23 09:33

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715631	W1T	EET CHI	05/28/23 17:28
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 09:33

Client Sample ID: P-24D

Date Collected: 05/17/23 10:08

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715631	W1T	EET CHI	05/28/23 17:52
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 10:08

Client Sample ID: P-24E

Date Collected: 05/17/23 10:42

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715631	W1T	EET CHI	05/28/23 18:41
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 10:42

Client Sample ID: FD-4

Date Collected: 05/17/23 10:45

Date Received: 05/18/23 09:40

Lab Sample ID: 500-234144-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715631	W1T	EET CHI	05/28/23 19:05

Lab Chronicle

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: 7734 USH 14

Lab Sample ID: 500-234144-25

Date Collected: 05/17/23 11:25

Matrix: Water

Date Received: 05/18/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	60143	CM	EA SB	05/24/23 14:32
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 11:25

Client Sample ID: 7750 USH 14

Lab Sample ID: 500-234144-26

Date Collected: 05/17/23 11:45

Matrix: Water

Date Received: 05/18/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	60143	CM	EA SB	05/24/23 15:20
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 11:45

Client Sample ID: 7911 Deer Run

Lab Sample ID: 500-234144-27

Date Collected: 05/17/23 12:30

Matrix: Water

Date Received: 05/18/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	60143	CM	EA SB	05/24/23 15:44
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 12:30

Client Sample ID: 7877 Deer Run

Lab Sample ID: 500-234144-28

Date Collected: 05/17/23 12:47

Matrix: Water

Date Received: 05/18/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	60143	CM	EA SB	05/24/23 16:08
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 12:47

Client Sample ID: 7872 Deer Run

Lab Sample ID: 500-234144-29

Date Collected: 05/17/23 13:03

Matrix: Water

Date Received: 05/18/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	60143	CM	EA SB	05/24/23 16:32
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 13:03

Client Sample ID: 4306 Fawn Ct

Lab Sample ID: 500-234144-30

Date Collected: 05/17/23 13:18

Matrix: Water

Date Received: 05/18/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	60143	CM	EA SB	05/24/23 16:56
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 13:18

Lab Chronicle

Client: Cedar Corporation
 Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Client Sample ID: 4318 Fawn Ct

Lab Sample ID: 500-234144-31

Date Collected: 05/17/23 13:34

Matrix: Water

Date Received: 05/18/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	60143	CM	EA SB	05/24/23 17:20
Total/NA	Analysis	Field Sampling		1	716100	GCA	EET CHI	05/17/23 13:34

Client Sample ID: EB-1

Lab Sample ID: 500-234144-32

Date Collected: 05/17/23 06:30

Matrix: Water

Date Received: 05/18/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715631	W1T	EET CHI	05/28/23 15:26

Client Sample ID: TB-3

Lab Sample ID: 500-234144-33

Date Collected: 05/17/23 00:00

Matrix: Water

Date Received: 05/18/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	715750	W1T	EET CHI	05/30/23 12:14

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Refuse Hideaway Landfill

Job ID: 500-234144-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Laboratory: Eurofins Eaton Analytical South Bend

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999766900	08-31-23

- 1
- 2
- 3
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- 15
- 16

Eurofins Chicago

2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534-5211



Chain of Custody Record

eurofins

6374 2028 8950

Client Information		Sampler: <u>Quin Lenz / Ashie / Wagner</u>		Lab PM: <u>Fredrick Sandie</u>		Carrier Tracking No's		COC No: <u>500-112403-43923 1</u>	
Client Contact: <u>500-234144 COC</u>		Phone: <u>920-309-2289</u>		E-Mail: <u>Sandra.Fredrick@et.eurofins.com</u>		State of Origin: <u>WI</u>		Page: <u>1 of 3</u>	
Company: <u>Cedar Corporation</u>		Due Date Requested: <u>Standard</u>		TAT Requested (days): <u>Standard</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Job #: <u>500-234144</u>	
Address: <u>1695 Bellevue Street</u>		City: <u>Green Bay</u>		State/Zip: <u>WI 54311</u>		Phone: <u>920-491-9081 (Tel)</u>		Email: <u>quin.lenz@cedarcorp.com</u>	
Project Name: <u>Refuse Hideaway Landfill (RHLE)</u>		Project #: <u>50020134</u>		SSOW#: _____		Purchase Order not required		Preservation Codes:	
Site: _____		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A-Air)	
Analysis Requested		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8260B VOC		524.2_Pres_Prec VOC 524.2	
Total Number of Containers		Special Instructions/Note		Preservation Code: <u>A</u>		A		A	
1		<u>P-30 D</u>		<u>5-16-23</u>		<u>1425</u>		<u>G</u>	
2		<u>P-30 I</u>				<u>1428</u>		<u>Water</u>	
3		<u>P-31 IB</u>				<u>1506</u>		<u>Water</u>	
4		<u>P-31 D</u>				<u>1510</u>		<u>Water</u>	
5		<u>P-31 S</u>				<u>1534</u>		<u>Water</u>	
6		<u>P-31 IA</u>				<u>1548</u>		<u>Water</u>	
7		<u>P-23 D</u>				<u>1701</u>		<u>Water</u>	
8		<u>P-23 S</u>				<u>1717</u>		<u>Water</u>	
9		<u>FD-3</u>				<u>1719</u>		<u>Water</u>	
10		<u>P-16 S</u>				<u>1659</u>		<u>Water</u>	
11		<u>P-16 D</u>				<u>1730</u>		<u>Water</u>	
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested I II III IV Other (specify)					Special Instructions/QC Requirements				
Empty Kit Relinquished by		Date		Time		Method of Shipment			
<u>2-17</u>		<u>5/17/23</u>		<u>1400</u>		<u>Cedar</u>		<u>5/18/23 0840</u>	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) and Other Remarks				<u>Chk - 3.5</u>	

Eurofins Chicago

2417 Bond Street
 University Park IL 60484
 Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins

6374 2028 8950

Client Information		Sample: Quin Lenz / Ashley Wasner		Carrier Tracking No(s)		COC No. 500-112403-43923 4																															
Client Contact: Quin Lenz		Phone		Fredrick Sandie E-Mail Sandra.Fredrick@eurofins.us.com		State of Origin WI																															
Company Cedar Corporation		PWSID		Analysis Requested																																	
Address 1695 Bellevue Street Green Bay State Zip WI 54311		Due Date Requested Standard		<table border="1"> <tr> <td colspan="2">Preservation Codes</td> </tr> <tr> <td>A HCL</td> <td>M Hexane</td> </tr> <tr> <td>B NaOH</td> <td>N None</td> </tr> <tr> <td>C Zn Acetate</td> <td>O AsnAc?</td> </tr> <tr> <td>D Nitric Acid</td> <td>P Na2O4s</td> </tr> <tr> <td>E NaHSO4</td> <td>Q Na2SO3</td> </tr> <tr> <td>F MeOH</td> <td>R Na2S2O3</td> </tr> <tr> <td>G Amchlor</td> <td>S H2SO4</td> </tr> <tr> <td>H Ascorbic Acid</td> <td>T TSP Dodecahydrate</td> </tr> <tr> <td>I ce</td> <td>U Acetone</td> </tr> <tr> <td>J Di Water</td> <td>V MCAA</td> </tr> <tr> <td>K EDTA</td> <td>W pH 4-5</td> </tr> <tr> <td>L EDA</td> <td>Y Trizma</td> </tr> <tr> <td colspan="2">Z other (specify)</td> </tr> <tr> <td colspan="2">Other:</td> </tr> </table>				Preservation Codes		A HCL	M Hexane	B NaOH	N None	C Zn Acetate	O AsnAc?	D Nitric Acid	P Na2O4s	E NaHSO4	Q Na2SO3	F MeOH	R Na2S2O3	G Amchlor	S H2SO4	H Ascorbic Acid	T TSP Dodecahydrate	I ce	U Acetone	J Di Water	V MCAA	K EDTA	W pH 4-5	L EDA	Y Trizma	Z other (specify)		Other:	
Preservation Codes																																					
A HCL	M Hexane																																				
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J Di Water	V MCAA																																				
K EDTA	W pH 4-5																																				
L EDA	Y Trizma																																				
Z other (specify)																																					
Other:																																					
TAT Requested (days) Standard		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No																																			
Phone 920-491-9081(Tel)		PO # Purchase Order not required																																			
Email quin.lenz@cedarcorp.com		WO #																																			
Project Name Refuse Hideaway Landfil (RHLE)		Project # 50020134																																			
Site		SSOW#																																			
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B VOC	6242_Pres_PREC VOC 6242	Total Number of Containers	Special Instructions/Note																										
				Preservation Code																																	
12	P-20 SR	5/16/23	1818	G	Water					3																											
13	P-08 S	↓	1850		Water					3																											
14	P-33 D	↓	1910		Water					3																											
15	P-17 S	5-17-23	738		Water					3																											
16	P-9S	↓	725		Water					3																											
17	P-9D	↓	746		Water					3																											
18	P-21S	↓	825		Water					3																											
19	P-21D	↓	848		Water					3																											
20	P-21 BR	↓	857		Water					3																											
21	P-08D	↓	933		Water					3																											
22	P-24D	↓	1008	↓	Water					3																											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																															
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																															
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements																															
Empty Kit Relinquished by		Date		Time		Method of Shipment																															
Relinquished by <i>[Signature]</i>		Date/Time 5/17/23 1400		Company Cedar		Received by <i>[Signature]</i>		Date/Time 5/18/23 0840																													
Relinquished by		Date/Time		Company		Received by		Date/Time																													
Relinquished by		Date/Time		Company		Received by		Date/Time																													
Custody Seals Intact Yes No		Custody Seal No		Color Temperature/ and Other Remarks																																	

Eurofins Chicago

2417 Bond Street
 University Park IL 60484
 Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

6000

6374 2028 8950

eurofins

Client Information		Sampler: <u>Quinlenz/Ashley/Wagner</u>		Lab #M: Fredrick Sandie	Carrier Tracking No: 6	COC No: 500-112403-43923 2																			
Client Contact: Quin Lenz		Phone: _____		E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of origin: WI	Page: 3 of 3																			
Company: Cedar Corporation				Analysis Requested				Job: 500-234144																	
Address: 1695 Bellevue Street		Due Date Requested: <u>Standard</u>		<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Pres. VOC</td> <td>824-2_Pres_PREC - VOC 824.2</td> <td rowspan="5">Total Number of containers:</td> </tr> <tr> <td>Perform MS/MSD (Yes or No)</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>				Field Filtered Sample (Yes or No)	Pres. VOC	824-2_Pres_PREC - VOC 824.2	Total Number of containers:	Perform MS/MSD (Yes or No)												Preservation Codes	
Field Filtered Sample (Yes or No)	Pres. VOC	824-2_Pres_PREC - VOC 824.2	Total Number of containers:																						
Perform MS/MSD (Yes or No)																									
City: Green Bay		TAT Requested (days): <u>Standard</u>		A H ₂ L M Hexane B NaOH N None C Zn Acetate O AshvaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Acetone U MCAA J Di Water V pH 4-5 K EDTA Y Trizma L EDA Z other (specify)																					
State Zip: WI 54311		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																							
Phone: 920-491 9081(Tel)		PO #: _____																							
Purchase Order not required		WD #: _____																							
Project Name: Refuse Hideaway Landfill		Project #: 50020134																							
Site: _____		SSOW#: _____																							
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater)	Field Filtered Sample (Yes or No)	Preservation Code:																		
23	P-24 E	5/17/23	1042	G	Water		3																		
24	FD-4		1045		Water		3																		
25	7734 USH 14		1125		Water		3																		
26	7750 USH 14		1145		Water		3																		
27	7911 Deer Run		1230		Water		3																		
28	7877 Deer Run		1247		Water		3																		
29	7872 Deer Run		1303		Water		3																		
30	4306 Fawn Ct		1318		Water		3																		
31	4318 Fawn Ct		1334		Water		3																		
32	EB-1		630		Water		3																		
33	TB-3				DI		1																		
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																					
Deliverable Requested I II III IV Other (specify)				Special Instructions: QC Requirements																					
Empty Kit Reinquished by		Date		Time		Method of shipment																			
Reinquished by: <u>Quinlenz</u>		Date: 5/17/23		Time: 1400		Company: Cedar																			
Reinquished by: _____		Date/Time: _____		Company: _____		Received by: <u>Quinlenz</u>																			
Reinquished by: _____		Date/Time: _____		Company: _____		Date/Time: 5/18/23 0940																			
Reinquished by: _____		Date/Time: _____		Company: _____		Date/Time: _____																			
Custody Seals Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature s C a d Other Remark																					

ORIGIN ID:RRLA (920) 261-1660
QUIN LENZ
CEDAR CORPORATION
1695 BELLEVUE STREET

SHIP DATE: 28APR23
ACTWGT: 25.00 LB MAN
CAD: 0269688/CAFE3621

GREEN BAY, WI 543119478
UNITED STATES US

TO **SAMPLE RECIEPT**
EUROFINS CHICAGO
2417 BOND STREET

UNIVERSITY PARK IL 60484

(708) 634-5200

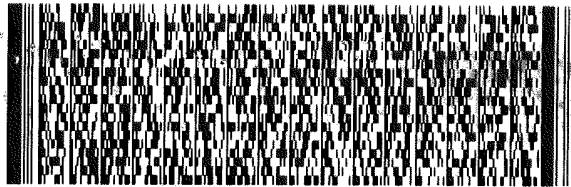
THU:

PO:

REF:

DEPT:

RMA 



FedEx
Express



FedEx

TRK#
0221

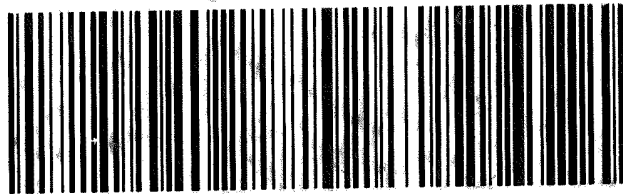
6374 2028 8950

THU - 18 MAY 10:30A
PRIORITY OVERNIGHT

XN JOTA

60484

IL-US **ORD**



W5360272 05/17 583J3/2BC3/FE2D



500-234144 Waybr

Eurofins Chicago

2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:					
Client Contact: Shipping/Receiving		Phone:	Fredrick, Sandie		500-174124.1					
Company: Eurofins Eaton Analytical		E-Mail:	Sandra.Fredrick@et.eurofinsus.com	State of Origin: Wisconsin	Page: Page 1 of 1					
Address: 110 S Hill Street, City: South Bend State, Zip: IN, 46617 Phone: 574-233-4777(Tel) 574-233-8207(Fax) Email:		Due Date Requested: 6/1/2023 TAT Requested (days):	Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin		Job #: 500-234144-1					
Project Name: Refuse Hideaway Landfill Site:		Project #: 50020134 SSOW#:	Analysis Requested		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify) Other:					
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	MATRIX (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	524.2_Pres_PREC/VOC 524.2	Total Number of containers	Special Instructions/Note:
7734 USH 14 (500-234144-25)		5/17/23	11:25 Central	Water	Water	X			3	*2
7750 USH 14 (500-234144-26)		5/17/23	11:45 Central	Water	Water	X			3	*1
7911 Deer Run (500-234144-27)		5/17/23	12:30 Central	Water	Water	X			3	
7877 Deer Run (500-234144-28)		5/17/23	12:47 Central	Water	Water	X			3	
7872 Deer Run (500-234144-29)		5/17/23	13:03 Central	Water	Water	X			3	Recent Provided Sample Container
4306 Fawn Ct (500-234144-30)		5/17/23	13:18 Central	Water	Water	X			3	
4318 Fawn Ct (500-234144-31)		5/17/23	13:34 Central	Water	Water	X			3	
										3.0 3.0 21 wet
										* VIALS CONTAIN ACCEPTABLE BUBBLES
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)					Primary Deliverable Rank: 2					
Special Instructions/QC Requirements:										
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:						
Relinquished by: <i>Rena</i>		Date/Time: 5/22/23 16:00	Company:	Received by: <i>SJ</i>		Date/Time: 5-23-23 09:00	Company: <i>EEA</i>			
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:			
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:			
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:						



Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-234144-1

Login Number: 234144

List Number: 1

Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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.	True	
Cooler Temperature is recorded.	True	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-234144-1

Login Number: 234144

List Number: 2

Creator: Spurgeon, Sheri

List Source: Eurofins Eaton Analytical South Bend

List Creation: 05/23/23 12:21 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	False	Client provided containers

Refuse Hideaway Landfill
License No. 01953
May-23
Sampler: Quin Lenz & Ashley Wagner

Landfill Wells				GEMS Code	72002	4189	10	94	400	2	1	3
WELL ID	GEMS ID	Sample Date	Duplicate Collected?	Sample Time	Depth To Water	Groundwater Elevation	Temperature	Specific Conductance	pH	Color	Odor	Clarity/Turbidity
					(ft)	(ft msl)	(°C)	us/cm	(units)			
P-8S	125	5/16/2023	No	18:50	6.96	925.54	9.2	2190	6.63	Clear	None	Clear
P-8D	114	5/17/2023	No	9:33	5.7	925.28	10.3	2171	6.53	Clear	None	Clear
P-9S	139	5/17/2023	No	7:25	6.47	925.62	7.9	1785	6.83	Clear	None	Clear
P-9D	140	5/17/2023	No	7:46	0	930.43	9.7	3999*	6.47	Clear	None	Clear
P-16S	142	5/16/2023	No	16:59	10.99	925.79	10.1	732	6.63	Clear	None	Clear
P-16D	127	5/16/2023	No	17:30	12.43	923.87	11.4	2882	6.86	Clear	None	Clear
P-21S	133	5/17/2023	No	8:25	9.48	926.95	7.9	1621	6.94	Clear	None	Clear
P-21D	113	5/17/2023	No	8:48	10.97	925.97	10.3	3999*	6.39	Clear	None	Clear
P-21BR	134	5/17/2023	No	8:57	11.22	923.97	10.6	847	7.05	Clear	None	Clear
P-24D	115	5/17/2023	No	10:08	0	927.25	9.2	1088	6.9	Clear	None	Clear
P-24E	116	5/17/2023	FD-4	10:42/10:45	0	927.39	9.8	598	7	Clear	None	Clear
P-25S	117	5/16/2023	FD-2	11:12/11:14	19.26	923.88	10.6	920	7	Clear	None	Clear
P-28S	123	5/15/2023	No	14:05	196.83	927.5	10.6	651	7.04	Clear	None	Clear
P-29S	168	5/15/2023	No	16:35	234.95	928.15	10.3	558	7.39	Tan	None	Turbid
P-31S	148	5/16/2023	No	15:34	5.23	911.36	8.6	474	8.21	Clear	None	Clear
P-32S	150	5/16/2023	No	11:55	19	924.73	11.7	1353	7.13	Clear	None	Clear
P-32D	149	5/16/2023	No	12:00	19.84	922.82	11.4	712	7.11	Clear	None	Clear
P-33D	152	5/16/2023	No	19:10	0	928.5	11.1	610	7.33	Clear	None	Clear
P-34S	154	5/15/2023	No	12:30	160.01	931.09	10.4	579	7.35	Clear	None	Clear
P-34D	153	5/15/2023	No	12:40	161.82	929.16	10.2	518	7.34	Clear	None	Clear
P-41D	165	5/15/2023	No	18:15	13.79	911.03	9.5	689	7.23	Clear	None	Clear
P-17S	128	5/17/2023	No	7:38	144.91	936.84	10.1	972	6.63	Clear	None	Clear
P-18S	129	5/15/2023	No	19:00	94.41	926.16	10.9	659	7.18	Clear	None	Clear
P-20SR	167	5/16/2023	No	18:18	35.41	926.37	10.7	525	7.49	Clear	None	Clear
P-22S	135	5/16/2023	No	9:08	170.28	917.92	10.7	681	7.48	Clear	None	Clear
P-22D	136	5/16/2023	No	9:40	171.32	917.62	12.1	681	7.29	Yellowish	None	Clear
P-22E	174	5/16/2023	No	9:25	172.13	917.59	17.5	531	7.16	Clear	None	Clear
P-23S	137	5/16/2023	FD-3	17:17/17:19	36.16	925.55	11	598	6.99	Clear	None	Clear
P-23D	138	5/16/2023	No	17:01	35.83	925.7	10.7	522	7.3	Clear	None	Clear

P-25D	118	5/16/2023	No	11:11	24.05	919.81	11.8	549	7.27	Clear	None	Clear
P-25BR	119	5/16/2023	No	11:15	23.08	920.19	11.8	697	7.19	Clear	None	Clear
P-26S	141	5/15/2023	No	13:15	219.65	931.3	14.5	791	7.09	Clear	None	Clear
P-27S	121	5/15/2023	No	15:40	171.82	923.41	11.4	884	6.73	Brown	None	Turbid
P-27D	122	5/15/2023	No	15:22	172.39	923.17	12.3	892	6.81	Clear	None	Clear
P-30I	170	5/16/2023	No	14:28	17.53	913.41	10	752	7.33	Clear	None	Clear
P-30D	169	5/16/2023	No	14:25	19.49	913.48	9.6	452	7.37	Clear	None	Clear
P-311A	146	5/16/2023	No	15:48	0	916.77	12.3	926	7.07	Clear	None	Clear
P-311B	147	5/16/2023	No	15:06	0	916.49	10.9	844	7.04	Clear	None	Clear
P-31D	145	5/16/2023	No	15:10	0	915.72	11	512	7.21	Clear	None	Clear
P-43S	175	5/16/2023	FD-1	7:50/7:52	189.96	920.64	9.6	585	7.3	Clear	None	Clear
P-43I	176	5/16/2023	No	7:55	189.7	920.54	10.3	702	7.18	Clear	None	Clear
P-43D	177	5/16/2023	No	8:20	189.27	920.65	10.4	627	7.4	Clear	None	Clear

Private Wells				GEMS Code	10	94	400	2	1	3
Well Address	GEMS ID	Sample Date	Duplicate Collected?	Sample Time	Temperat	Specific	pH	Color	Odor	Clarity/ Turbidity
					ure	Conductance				
					(°C)	us/cm	(units)			
Deer Run	300	5/17/2023	N	12:30	12.1	939	7.3	Clear	None	Clear
734 USH 1	312	5/17/2023	N	11:25	12.9	971	7.06	Clear	None	Clear
750 USH 1	311	5/17/2023	N	11:45	14.2	808	7.38	Clear	None	Clear
6 Fawn Co	303	5/17/2023	N	13:18	12.4	1222	7.26	Clear	None	Clear
8 Fawn Co	304	5/17/2023	N	13:34	15.4	1303	7.29	Clear	None	Clear
Rocky Del	305	5/17/2023	N	16:52	12.3	775	7.21	Clear	None	Clear
Deer Run	302	5/17/2023	N	13:03	18	848	7.61	Clear	None	Clear
Deer Run	301	5/17/2023	N	12:47	13.3	736	7.41	Clear	None	Clear