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April 28, 2023

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

Subject: Refuse Hideaway Landfill
2022 Operation Monitoring and Maintenance Annual Report

Dear Cindy:

TRC performed operation, monitoring, and maintenance services and at the Refuse Hideaway Landfill in Middleton, WI in 2022 in accordance with the WDNR's *Refuse Hideaway Landfill Operations and Maintenance Services Request for Bid*, issued on August 5, 2021. TRC has prepared this report to summarize operation and maintenance services performed from January through December 2022. These services were previously documented in monthly Operation Monitoring and Maintenance Activity Reports submitted to the WDNR.

Gas Extraction System

Operation Summary

The gas extraction system (GES) was shut down on December 14, 2021, and remained shut down through the beginning of 2022 due to cold weather and freezing conditions. Cold weather caused the air compressor motor overload contact associated with the leachate extraction system to trip, causing both the leachate and gas extraction systems to shut down. As a result of the shutdown, condensate within GES froze and blocked airflow.

The GES was restarted on January 17, 2022, and operated temporarily until it was shut down on January 27, 2022, when cold weather and freezing conditions caused low extraction vacuum and flow due to a buildup of frozen condensate within the GES.

The GES was restarted on April 8 once cold weather had subsided, and ran until May 15, 2022, when the GES blower shut down due to a Fault 3210 DC link overvoltage.

The GES was restarted on May 26, 2022, and was operational through June 29, 2022 when it was shut down due to an issue with the electrical service.

The GES was restarted on October 6, 2022 after electrical repairs/upgrades were made. The GES operated until December 15, 2022, when an overvoltage fault was observed and the system was shut down for the remainder of the 2022 calendar year until the Site electrical service is repaired.

Observations and Findings

Gas probe monitoring was conducted monthly during 2022. Due to the intermittent operation of the GES in 2022 and seasonality of gas production/migration, it was not possible to determine if the operation of the GES resulted in any trends for results observed in the gas probes. When the GES is operating continuously, the gas probe data will be reviewed in more detail for identification of any

trends. The 2022 Gas Probe Monitoring Data is summarized in Attachment 1, and highlighted rows in that table indicate the GES was operating at that time.

The GES operated effectively when it had adequate electric supply. The new equipment should operate as designed once the electrical service to the Site is repaired. GES inspection information and operating parameters were included in the monthly report submittals. Aside from the repair to the electrical service to the Site, there are no observations or findings related to the GES that require attention in 2023.

Maintenance and Repairs

Between June 28 and June 30, 2022, heat trace and insulation were installed on the GES by Perennial Energy (PEI) in order to address the airflow blockages that had previously occurred due to condensate freezing within the GES during cold weather.

On June 30, 2022, Van Ert Electrical Company, Inc. (Van Ert) completed a site visit to assess the GES for an issue with the electrical service observed by TRC. Van Ert determined that at least one of the three onsite transformers was not functioning and the electrical service to the Site was not able to provide 480 voltage alternating current (VAC) three-phase as designed.

Between October 1 and October 6, 2022, Van Ert removed the existing transformers from the electrical system and one new Square D (Model EXN75T3H) transformer was installed as a replacement in order to provided 480 VAC, needed to operate both the GES and the leachate extraction system. Repairs and improvements including a new floor and roof were also made to the structure that houses the transformer. On October 6, 2022, Van Ert conducted startup of the system and adjustments were made to the transformer based on the output voltage reading 560 VAC. The system's output was adjusted and restarted, and the output voltage ranged between 497 and 501 VAC. Based on the initial system start up and output voltage observed following the installation of the new transformer, the system electrical upgrades/repairs were further evaluated by a TRC electrical engineer.

The GES operated from October 6 until December 15, 2022 when an overvoltage fault was observed and the system was shut down. The GES remained off through the remainder of 2022 until the Site electrical service is repaired.

A summary of the system upgrades, the electrical evaluation, and recommendations for further repairs/modifications of the system were submitted by TRC to the WDNR in a memorandum dated December 8, 2022. Based on TRC's recommendations, the WDNR agreed to the replacement of the Site transformer with an appropriately sized step-up transformer for 240 VAC input and 480 VAC output as well as the addition of a surge protector between the Madison Gas and Electric (MG&E) service and the new transformer. The maintenance and repairs are planned for 2023.

Leachate Extraction System

Operation Summary

The leachate extraction system (LES) was shutdown on December 14, 2021 and remained shut down through the beginning of 2022 due to cold weather and freezing conditions. Cold weather caused the air compressor motor overload contact associated with the LES to trip, causing both the leachate and

gas extraction systems to shut down. It was determined that the motor overload contact for the air compressor was undersized, and cold weather conditions caused the system to fault due to higher amperage draw on the motor.

Following maintenance and repairs, the air compressor system was restarted on April 26, 2022, however due to continued abnormal noise in the pump head, the compressor was shutdown for further assessment. Between June 28 and June 30, 2022, PEI installed a new pump head on the air compressor system, but due to the Site electrical supply issues, the system was still not operational.

The air compressor system was restarted on October 6, 2022 following electrical service upgrades (as described above under GES Maintenance and Repairs). On the air compressor, the electrical contactor for the motor starter failed during the start-up and the LES was inoperable. The LES was shutoff pending the repair of the Site electrical service and to further test the compressor system for issues.

Therefore, although several repairs were made to the air compressor, the LES did not operate in 2022.

Observations and Findings

The air compressor operation and leachate tank level are used to monitor the functionality of the LES throughout the year. The LES did not operate in 2022 due to the issues with the air compressor. Leachate tank levels were monitored during bi-weekly and/or monthly inspections, as reported in monthly report submittals. WDNR pumped leachate from the tank on an as-needed basis throughout 2022.

A leachate sample was collected on April 12, 2022, from the leachate tank and analyzed by Pace Analytical for inductively coupled plasma (ICP) metals and mercury per the Section 2.01 of the Wastewater Discharge Permit NTO-5.11. The laboratory analytical report is provided in Attachment 2.

Maintenance and Repairs

In April 2022, TRC changed the oil and repaired airline leaks (documented in 2021) between the air dryer and the buried main supply line to the well field. A quick disconnect coupler was added to the pipe section to allow for an air nozzle to be utilized for onsite maintenance (i.e., filter cleaning).

Between June 28 and June 30, 2022, PEI installed a new pump head on the air compressor system. An issue was observed with the Site electrical service upon startup, as described in the previous section of this report, and the system could not be operated following the pump head replacement.

On October 6, 2022, TRC observed that the air line for gas vent GV-4 was damaged during the September mowing event. TRC coordinated the repairs of the air line with J&R Underground (J&R) and the line was repaired between October 21 and 28, 2022. During the October 21 site visit, the airline was exposed, and it was found that the service line to GV-4 was broken off from a t-fitting installed on the main air supply line. J&R ordered a new t-fitting and installed the fitting along with a new service line to GV-4 on October 28, 2022. Photos of the repair were included in the October 2022 Operation Monitoring and Maintenance Activities Monthly Report, submitted by TRC on November 21, 2022.

The air compressor system was restarted on October 6, 2022 following the site electrical upgrades described in the previous section of this report. The electrical contactor for the motor starter failed during the start-up requiring replacement. Based on the previous issues with the system and the

electrical service upgrades, the compressor system and electrical service were further evaluated by TRC's electrical engineer. This evaluation was summarized in a memorandum provided to the WDNR on December 8, 2022. Based on TRC's recommendations, the WDNR agreed to the replacement of the air compressor motor starter contactor and overload relay, and testing of the electrical motor. The maintenance, repairs, and testing are planned for 2023.

Landfill Cap and Stormwater Drainage Features

Summary

TRC inspected the landfill cap and stormwater conveyance features on a monthly basis throughout 2022 when the cap was not covered with snow. This included at minimum, the inspection of the cap integrity, the condition of drainage ways, the condition of vegetative cover, and the inspection of the sediment basin. Observations were previously documented and submitted to the WDNR in monthly Operation Monitoring and Maintenance Activity Reports.

Observations and Findings

Based on TRC's monthly observations, the condition of the landfill cap and sediment basin remained in good condition in 2022. Minor erosion was observed at the eastern drainage way and minor areas of bare soil were observed throughout the landfill cap that had been previously seeded in 2021.

Maintenance and Repairs

On October 20, 2022, TRC reseeded and placed erosion control, as needed, in select areas where bare soil was observed. TRC will continue to monitor these areas for vegetation growth in 2023.

Conclusions

TRC will continue to conduct scheduled Site visits for the 2023 calendar year and work with the WDNR and the selected electrical subcontractor to conduct necessary repairs to the electrical supply to the Site to support the operation of the GES and LES.

If you have any questions, please contact me at astehn@trccompanies.com or 608-807-8112.

Sincerely,

TRC

Tom Perkins
Project Engineer

Andrew Stehn, PE
Project Manager

Attachments: 1. Gas Probe Monitoring Summary Table
2. Leachate Laboratory Analytical Report

Attachment 1

Gas Probe Monitoring Summary Table

Attachment 1

Gas Probe Monitoring Data Summary - 2022

Wisconsin Department of Natural Resources - Refuse Hideaway Landfill

Madison, Dane County, Wisconsin

Location	Date	Pressure (in. WC)	Methane (% LEL)	Methane (%, by vol.)	Carbon Dioxide (%, by vol.)	Oxygen (%, by vol.)
GP-1D	1/3/2022	0.0	0.0	0.0	4.7	15.6
GP-1D	2/8/2022	0.0	0.0	0.0	0.7	20.1
GP-1D	3/1/2022	0.0	0.0	0.0	0.9	19.8
GP-1D	4/19/2022	0.0	0.0	0.0	2.0	18.1
GP-1D	5/5/2022	0.0	0.0	0.0	2.1	17.8
GP-1D	6/8/2022	0.0	0	0.0	2.4	17.5
GP-1D	7/18/2022	0.0	0.0	0.0	11.8	4.4
GP-1D	8/1/2022	0.04	4	2	13.5	3.1
GP-1D	9/19/2022	0.0	10.0	0.5	11.4	5.2
GP-1D	10/3/2022	-0.04	6.0	0.3	11.8	4.0
GP-1D	11/16/2022	0.03	0.0	0.0	5.4	13.9
GP-1D	12/5/2022	0.14	0.0	0.0	4.1	16.6
GP-1S	1/3/2022	0.0	0.0	0.0	0.1	20.7
GP-1S	2/8/2022	0.0	0.0	0.0	0.0	20.8
GP-1S	3/1/2022	0.0	0.0	0.0	0	20.8
GP-1S	4/19/2022	0.0	0.0	0.0	0.0	20.8
GP-1S	5/5/2022	0.0	0.0	0.0	0.1	20.7
GP-1S	6/8/2022	0.0	0	0.0	0.0	20.8
GP-1S	7/18/2022	0.0	0.0	0.0	9.2	3.1
GP-1S	8/1/2022	0.03	48	2.4	14.1	0.0
GP-1S	9/19/2022	0.0	>100	6.4	17.0	0.4
GP-1S	10/3/2022	0.00	4.9	9.9	14.4	2.3
GP-1S	11/16/2022	0.00	0.0	0.0	0.1	20.7
GP-1S	12/5/2022	0.00	0.0	0.0	0.1	20.7
GP-2D	1/3/2022	0.0	0.0	0.0	0.5	20.4
GP-2D	2/8/2022	0.1	0.0	0.0	0.3	20.5
GP-2D	3/1/2022	0.1	0.0	0.0	0.6	20.6
GP-2D	4/19/2022	0.0	0.0	0.0	0.3	20.6
GP-2D	5/5/2022	0.0	0.0	0.0	1.1	19
GP-2D	6/8/2022	0.0	0	0.0	0.8	19.9
GP-2D	7/18/2022	-0.2	0.0	0.0	7.3	11.1
GP-2D	8/1/2022	0.10	0	0	8.3	10.7
GP-2D	9/19/2022	0.0	14.0	0.7	10.9	7.1
GP-2D	10/3/2022	-0.14	0.0	0.0	5.4	15.0
GP-2D	11/16/2022	0.12	0.0	0.0	1.6	19.3
GP-2D	12/5/2022	0.00	0.0	0.0	1.3	19.6
GP-2S	1/3/2022	0.0	0.0	0.0	0.4	20.4
GP-2S	2/8/2022	0.0	0.0	0.0	0.2	20.5
GP-2S	3/1/2022	0.0	0.0	0.0	0.9	19.9
GP-2S	4/19/2022	0.0	0.0	0.0	0.0	20.8
GP-2S	5/5/2022	0.0	0.0	0.0	1.9	18.3
GP-2S	6/8/2022	0.0	0	0.0	2.2	18.0
GP-2S	7/18/2022	0.0	0.0	0.0	14.9	3.1
GP-2S	8/1/2022	0.00	6	0.3	12.4	5.4
G-2S	9/19/2022	0.0	12.0	0.6	11.0	10.2
GP-2S	10/3/2022	0.00	0.0	0.0	5.1	15.7
GP-2S	11/16/2022	0.00	0.0	0.0	0.6	20.1
GP-2S	12/5/2022	0.00	0.0	0.0	1.0	19.9
GP-3	1/3/2022	0.0	86.0	4.3	18.2	4.6
GP-3	2/8/2022	0.0	50.0	2.5	23.0	0.1
GP-3	3/1/2022	0.0	30.0	1.5	14.4	0.4
GP-3	4/19/2022	0.0	36.0	1.8	7.9	6.2
GP-3	5/5/2022	0.0	>100	6.1	7.6	0
GP-3	6/8/2022	0.0	>100	6.3	7.5	0.0
GP-3	7/18/2022	0.0	>100	7.3	11.4	8.9
GP-3	8/1/2022	-0.04	>100	8.4	7.9	9.1
GP-3	9/19/2022	0.0	>100	5.2	7.1	12.1
GP-3	10/3/2022	0.00	22.0	1.1	3.1	16.9
GP-3	11/16/2022	0.00	20.0	1.0	4.7	16.1
GP-3	12/5/2022	0.00	0.0	0.0	2.0	20.0

Attachment 1
Gas Probe Monitoring Data Summary - 2022
Wisconsin Department of Natural Resources - Refuse Hideaway Landfill
Madison, Dane County, Wisconsin

Location	Date	Pressure (in. WC)	Methane (% LEL)	Methane (%, by vol.)	Carbon Dioxide (%, by vol.)	Oxygen (%, by vol.)
GP-4	1/3/2022	0.0	0.0	0.0	2.2	19.1
GP-4	2/8/2022	0.0	0.0	0.0	2.1	18.9
GP-4	3/1/2022	0.0	0.0	0.0	2.2	17.9
GP-4	4/19/2022	0.0	0.0	0.0	0.0	20.8
GP-4	5/5/2022	0.0	0.0	0.0	1	18.4
GP-4	6/8/2022	0.0	0	0.0	1.2	18.3
GP-4	7/18/2022	0.0	0.0	0.0	6.2	14.4
GP-4	8/1/2022	-0.03	0	0	6.3	14.2
GP-4	9/19/2022	0.0	0.0	0.0	6.4	12.6
GP-4	10/3/2022	0.00	0.0	0.0	7.2	15.6
GP-4	11/16/2022	0.00	0.0	0.0	2.6	17.8
GP-4	12/5/2022	0.00	0.0	0.0	2.2	19.4
GP-5	1/3/2022	0.0	0.0	0.0	1.4	19.7
GP-5	2/8/2022	0.0	0.0	0.0	1.2	19.6
GP-5	3/1/2022	0.0	0.0	0.0	1.7	16.7
GP-5	4/19/2022	0.0	0.0	0.0	1.3	19.9
GP-5	5/5/2022	0.0	0.0	0.0	1.6	19.1
GP-5	6/8/2022	0.0	0	0.0	1.8	18.7
GP-5	7/18/2022	0.0	0.0	0.0	4.8	16.4
GP-5	8/1/2022	0.00	0	0	5.7	15.4
GP-5	9/19/2022	0.0	0.0	0.0	4.6	16.5
GP-5	10/3/2022	0.00	0.0	0.0	4.6	17.4
GP-5	11/16/2022	0.00	0.0	0.0	2.2	18.6
GP-5	12/5/2022	0.00	0.0	0.0	1.5	20.1
GP-6	1/3/2022	0.0	0.0	0.0	1.2	18.5
GP-6	2/8/2022	0.0	0.0	0.0	2.2	16.2
GP-6	3/1/2022	0.0	0.0	0.0	2.5	15
GP-6	4/19/2022	0.0	0.0	0.0	0.0	20.8
GP-6	5/5/2022	0.1	0.0	0.0	0	20.8
GP-6	6/8/2022	0.0	0	0.0	0.2	20.5
GP-6	7/18/2022	0.0	0.0	0.0	3.5	17.1
GP-6	8/1/2022	0.00	0	0	3.8	16.5
GP-6	9/19/2022	0.0	0.0	0.0	2.1	18.0
GP-6	10/3/2022	0.00	0.0	0.0	4.1	18.0
GP-6	11/16/2022	0.00	0.0	0.0	0.2	20.5
GP-6	12/5/2022	0.00	0.0	0.0	0.7	18.2
GP-7	1/3/2022	0.0	0.0	0.0	2.4	18.8
GP-7	2/8/2022	0.0	0.0	0.0	2.0	18.5
GP-7	3/1/2022	0.0	0.0	0.0	1.8	18
GP-7	4/19/2022	0.0	0.0	0.0	1.2	18.2
GP-7	5/5/2022	0.0	0.0	0.0	1.2	17.9
GP-7	6/8/2022	0.0	0	0.0	1.0	18.1
GP-7	7/18/2022	0.0	0.0	0.0	2.8	17.3
GP-7	8/1/2022	0.00	0	0	3.2	17.1
GP-7	9/19/2022	0.0	0.0	0.0	4.5	16.6
GP-7	10/3/2022	0.00	0.0	0.0	4.2	17.2
GP-7	11/16/2022	0.00	0.0	0.0	3.2	16.6
GP-7	12/5/2022	0.00	0.0	0.0	2.6	18.4
GP-8	1/3/2022	0.0	0.0	0.0	7.3	12.9
GP-8	2/8/2022	0.0	0.0	0.0	3.8	16.3
GP-8	3/1/2022	0.0	0.0	0.0	4	15.3
GP-8	4/19/2022	0.0	0.0	0.0	3.4	18.4
GP-8	5/5/2022	0.0	0.0	0.0	3.5	17.4
GP-8	6/8/2022	0.0	0	0.0	3.2	17.6
GP-8	7/18/2022	0.0	0.0	0.0	4.2	15.7
GP-8	8/1/2022	0.00	0	0	5.4	16.3
GP-8	9/19/2022	0.0	0.0	0.0	6.9	14.7
GP-8	10/3/2022	0.00	0.0	0.0	5.6	16.0
GP-8	11/16/2022	0.00	0.0	0.0	5.1	16.2
GP-8	12/5/2022	0.00	0.0	0.0	3.9	17.8

Attachment 1
Gas Probe Monitoring Data Summary - 2022
Wisconsin Department of Natural Resources - Refuse Hideaway Landfill
Madison, Dane County, Wisconsin

Location	Date	Pressure (in. WC)	Methane (% LEL)	Methane (%, by vol.)	Carbon Dioxide (%, by vol.)	Oxygen (%, by vol.)
GP-9	1/3/2022	0.0	0.0	0.0	2.0	18.9
GP-9	2/8/2022	0.0	0.0	0.0	1.8	18.6
GP-9	3/1/2022	0.0	0.0	0.0	2	17.7
GP-9	4/19/2022	0.0	0.0	0.0	1.7	19
GP-9	5/5/2022	0.0	0.0	0.0	1.9	18
GP-9	6/8/2022	0.0	0	0.0	1.7	18.8
GP-9	7/18/2022	0.0	0.0	0.0	4.8	16.0
GP-9	8/1/2022	0.00	0	0	4.3	17.1
GP-9	9/19/2022	0.0	0.0	0.0	5.1	15.0
GP-9	10/3/2022	0.00	0.0	0.0	4.5	16.5
GP-9	11/16/2022	0.00	0.0	0.0	3.3	17.2
GP-9	12/5/2022	0.00	0.0	0.0	2.4	18.7
GP-10	1/3/2022	0.0	0.0	0.0	2.2	19.1
GP-10	2/8/2022	0.0	0.0	0.0	2.1	19.1
GP-10	3/1/2022	0.0	0.0	0.0	2.9	17.4
GP-10	4/19/2022	0.0	0.0	0.0	1.9	18.3
GP-10	5/5/2022	0.0	0.0	0.0	2.1	17.3
GP-10	6/8/2022	0.0	0	0.0	2.3	17.0
GP-10	7/18/2022	-0.1	78.0	3.9	15.8	0.3
GP-10	8/1/2022	0.00	>100	8.9	19.7	1.1
GP-10	9/19/2022	0.0	0.0	0.0	8.5	13.3
GP-10	10/3/2022	0.00	0.0	0.0	6.1	15.2
GP-10	11/16/2022	0.00	0.0	0.0	5.1	15.6
GP-10	12/5/2022	0.00	0.0	0.0	7.3	11.5
GP-11D	1/3/2022	0.0	0.0	0.0	0.0	20.8
GP-11D	2/8/2022	0.0	0.0	0.0	0.0	20.8
GP-11D	3/1/2022	0.0	0.0	0.0	0.3	20.4
GP-11D	4/19/2022	0.0	0.0	0.0	0.0	20.8
GP-11D	5/5/2022	0.0	0.0	0.0	1.4	18
GP-11D	6/8/2022	0.0	0	0.0	1.1	18.5
GP-11D	7/18/2022	0.0	50.0	2.5	6.9	12.5
GP-11D	8/1/2022	0.06	82	4.1	16.1	0.3
GP-11D	9/19/2022	0.0	74.0	3.7	15.1	1.4
GP-11D	10/3/2022	0.00	39.0	1.9	9.9	8.0
GP-11D	11/16/2022	0.00	0.0	0.0	0.3	20.4
GP-11D	12/5/2022	-0.07	0.0	0.0	0.3	20.2
GP-11S	1/3/2022	0.0	0.0	0.0	0.5	20.5
GP-11S	2/8/2022	0.0	0.0	0.0	0.4	20.1
GP-11S	3/1/2022	0.0	0.0	0.0	0.2	20.5
GP-11S	4/19/2022	0.0	0.0	0.0	0.3	20.4
GP-11S	5/5/2022	0.0	0.0	0.0	1.8	17.4
GP-11S	6/8/2022	0.0	0	0.0	1.5	18.9
GP-11S	7/18/2022	0.0	0.0	0.0	7.2	11.1
GP-11S	8/1/2022	0.00	48	2.4	16.3	0.0
GP-11S	9/19/2022	0.0	32.0	1.6	12.9	14.1
GP-11S	10/3/2022	0.00	0.0	0.0	6.0	15.5
GP-11S	11/16/2022	0.00	0.0	0.0	0.0	20.7
GP-11S	12/5/2022	0.00	0.0	0.0	0.7	19.8
GP-12D	1/3/2022	0.0	18.0	0.9	1.8	19.0
GP-12D	2/8/2022	0.0	0.0	0.0	0.4	20.2
GP-12D	3/1/2022	0.0	0.0	0.0	0.4	20.2
GP-12D	4/19/2022	0.0	0.0	0.0	0.9	19.5
GP-12D	5/5/2022	0.0	22.0	1.1	2.4	17
GP-12D	6/8/2022	0.0	0.8	0.4	1.9	17.3
GP-12D	7/18/2022	0.0	5.0	0.2	7.4	10.3
GP-12D	8/1/2022	0.00	>100	9.2	18.4	1.8
GP-12D	9/19/2022	0.0	>100	5.9	14.9	5.7
GP-12D	10/3/2022	0.00	>100	5.9	11.2	9.5
GP-12D	11/16/2022	0.00	36.0	1.8	3.4	17.2
GP-12D	12/5/2022	-0.03	44.0	2.2	3.9	16.7

Attachment 1
Gas Probe Monitoring Data Summary - 2022
Wisconsin Department of Natural Resources - Refuse Hideaway Landfill
Madison, Dane County, Wisconsin

Location	Date	Pressure (in. WC)	Methane (% LEL)	Methane (%, by vol.)	Carbon Dioxide (%, by vol.)	Oxygen (%, by vol.)
GP-12S	1/3/2022	0.0	0.0	0.0	0.9	20.1
GP-12S	2/8/2022	0.0	0.0	0.0	1.4	19.8
GP-12S	3/1/2022	0.0	0.0	0.0	0.6	20.3
GP-12S	4/19/2022	0.0	0.0	0.0	0.2	20.4
GP-12S	5/5/2022	0.0	0.0	0.0	0.6	20.1
GP-12S	6/8/2022	0.0	0	0.0	0.4	20.3
GP-12S	7/18/2022	0.0	0.0	0.0	7.3	9.4
GP-12S	8/1/2022	0.00	0	0	4.8	15.9
GP-12S	9/19/2022	0.0	0.0	0.0	4.6	15.6
GP-12S	10/3/2022	0.00	0.0	0.0	1.6	18.6
GP-12S	11/16/2022	0.00	0.0	0.0	1.1	19.7
GP-12S	12/5/2022	0.00	0.0	0.0	2.4	18.4
GP-13D	1/3/2022	0.0	0.0	0.0	0.1	20.6
GP-13D	2/8/2022	0.0	0.0	0.0	0.1	20.6
GP-13D	3/1/2022	0.0	0.0	0.0	0.2	20.4
GP-13D	4/19/2022	0.0	0.0	0.0	0.5	19.9
GP-13D	5/5/2022	0.0	0.0	0.0	0.9	18.9
GP-13D	6/8/2022	0.0	0	0.0	0.6	20.1
GP-13D	7/18/2022	0.0	0.0	0.0	6.8	14.1
GP-13D	8/1/2022	0.00	6	0.3	6.8	11.2
GP-13D	9/19/2022	0.0	12.0	0.6	10.3	7.8
GP-13D	10/3/2022	0.00	3.0	0.7	4.3	14.4
GP-13D	11/16/2022	0.00	2.0	0.1	1.2	19.1
GP-13D	12/5/2022	0.00	12.0	0.6	4.4	14.9
GP-13S	1/3/2022	0.0	0.0	0.0	0.2	20.6
GP-13S	2/8/2022	0.0	0.0	0.0	0.2	20.5
GP-13S	3/1/2022	0.0	0.0	0.0	0.3	20.3
GP-13S	4/19/2022	0.0	0.0	0.0	0.6	20
GP-13S	5/5/2022	0.0	0.0	0.0	0.9	18.7
GP-13S	6/8/2022	0.0	0	0.0	1.1	18.9
GP-13S	7/18/2022	0.0	0.0	0.0	7.5	13.7
GP-13S	8/1/2022	0.00	0	0	7.6	12.1
GP-13S	9/19/2022	0.0	0.0	0.0	5.9	13.8
GP-13S	10/3/2022	0.00	0.0	0.0	2.1	18.5
GP-13S	11/16/2022	0.00	0.0	0.0	0.5	20.2
GP-13S	12/5/2022	0.00	0.0	0.0	1.1	19.3
GP-16D	1/3/2022	0.0	0.0	0.0	7.2	9.8
GP-16D	2/8/2022	0.0	0.0	0.0	9.0	6.9
GP-16D	3/1/2022	0.0	0.0	0.0	0.8	19.6
GP-16D	4/19/2022	0.0	0.0	0.0	0.6	19.9
GP-16D	5/5/2022	0.0	0.0	0.0	0.7	19.8
GP-16D	6/8/2022	0.0	0	0.0	0.9	20.0
GP-16D	7/18/2022	0.0	0.0	0.0	1.5	19.1
GP-16D	8/1/2022	0.00	0	0	1.8	19.3
GP-16D	9/19/2022	0.0	0.0	0.0	1.8	19.2
GP-16D	10/3/2022	0.00	0.0	0.0	0.9	19.1
GP-16D	11/16/2022	0.00	0.0	0.0	4.7	14.5
GP-16D	12/5/2022	0.00	0.0	0.0	6.1	12.0
GP-16S	1/3/2022	0.0	0.0	0.0	0.3	20.4
GP-16S	2/8/2022	0.0	0.0	0.0	0.3	20.5
GP-16S	3/1/2022	0.0	0.0	0.0	0.3	20.5
GP-16S	4/19/2022	0.0	0.0	0.0	0.4	20.4
GP-16S	5/5/2022	0.0	0.0	0.0	0.5	20.3
GP-16S	6/8/2022	0.0	0	0.0	0.4	20.2
GP-16S	7/18/2022	0.0	0.0	0.0	3.4	17.9
GP-16S	8/1/2022	0.00	0	0	3.1	18.6
GP-16S	9/19/2022	0.0	0.0	0.0	3.4	17.5
GP-16S	10/3/2022	0.00	0.0	0.0	2.4	18.1
GP-16S	11/16/2022	0.00	0.0	0.0	0.5	20.2
GP-16S	12/5/2022	0.00	0.0	0.0	0.8	19.9

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Wisconsin Department of Natural Resources - Refuse Hideaway Landfill
Madison, Dane County, Wisconsin

Location	Date	Pressure (in. WC)	Methane (% LEL)	Methane (%, by vol.)	Carbon Dioxide (%, by vol.)	Oxygen (%, by vol.)
GP-17D	1/3/2022	0.0	0.0	0.0	1.7	18.6
GP-17D	2/8/2022	0.0	0.0	0.0	1.4	18.7
GP-17D	3/1/2022	0.0	0.0	0.0	1.9	18.1
GP-17D	4/19/2022	0.0	0.0	0.0	2.3	17.6
GP-17D	5/5/2022	0.0	6.0	0.3	2.7	16.7
GP-17D	6/8/2022	0.0	0	0.0	2.9	16.9
GP-17D	7/18/2022	0.0	0.0	0.0	4.3	15.9
GP-17D	8/1/2022	0.00	0	0	4.7	15.9
GP-17D	9/19/2022	0.0	0.0	0.0	14.0	16.6
GP-17D	10/3/2022	0.00	0.0	0.0	3.2	16.8
GP-17D	11/16/2022	0.00	0.0	0.0	2.2	18.3
GP-17D	12/5/2022	0.00	0.0	0.0	2.2	18.3
GP-17M	1/3/2022	0.0	0.0	0.0	0.0	20.8
GP-17M	2/8/2022	0.0	0.0	0.0	0.1	20.5
GP-17M	3/1/2022	0.0	0.0	0.0	0.2	20.5
GP-17M	4/19/2022	0.0	0.0	0.0	0.4	20
GP-17M	5/5/2022	0.0	0.0	0.0	0.4	20.1
GP-17M	6/8/2022	0.0	0	0.0	0.2	20.6
GP-17M	7/18/2022	0.0	0.0	0.0	3.6	17.4
GP-17M	8/1/2022	0.00	0	0	4.1	17.3
GP-17M	9/19/2022	0.0	0.0	0.0	3.6	16.9
GP-17M	10/3/2022	0.00	0.0	0.0	1.6	18.5
GP-17M	11/16/2022	0.00	0.0	0.0	0.3	20.2
GP-17M	12/5/2022	0.00	0.0	0.0	0.3	20.2
GP-17S	1/3/2022	0.0	0.0	0.0	0.4	20.4
GP-17S	2/8/2022	0.0	0.0	0.0	0.2	20.4
GP-17S	3/1/2022	0.0	0.0	0.0	0.4	20.3
GP-17S	4/19/2022	0.0	0.0	0.0	0.3	20.2
GP-17S	5/5/2022	0.0	0.0	0.0	0.6	20
GP-17S	6/8/2022	0.0	0	0.0	0.8	20.1
GP-17S	7/18/2022	0.0	0.0	0.0	4.5	16.6
GP-17S	8/1/2022	0.00	0	0	4.2	17.2
GP-17S	9/19/2022	0.0	0.0	0.0	4.5	16.0
GP-17S	10/3/2022	0.00	0.0	0.0	3.9	16.6
GP-17S	11/16/2022	0.00	0.0	0.0	0.1	20.6
GP-17S	12/5/2022	0.00	0.0	0.0	0.5	20.1
GP-18D	1/3/2022	0.0	0.0	0.0	0.0	20.8
GP-18D	2/8/2022	0.1	0.0	0.0	0.4	20.3
GP-18D	3/1/2022	0.0	0.0	0.0	2.3	17.5
GP-18D	4/19/2022	0.0	0.0	0.0	0.0	20.8
GP-18D	5/5/2022	0.0	0.0	0.0	0.1	20.7
GP-18D	6/8/2022	0.0	0	0.0	0.0	20.8
GP-18D	7/18/2022	0.0	0.0	0.0	3.3	16.2
GP-18D	8/1/2022	0.00	0	0	4.9	14.6
GP-18D	9/19/2022	0.0	0.0	0.0	0.9	19.9
GP-18D	10/3/2022	0.00	0.0	0.0	0.2	19.9
GP-18D	11/16/2022	0.00	0.0	0.0	0.2	20.6
GP-18D	12/5/2022	0.00	0.0	0.0	0.4	20.5
GP-18M	1/3/2022	0.0	0.0	0.0	0.0	20.8
GP-18M	2/8/2022	0.0	0.0	0.0	0.1	20.7
GP-18M	3/1/2022	0.0	2.0	0.1	0.6	19.6
GP-18M	4/19/2022	0.0	0.0	0.0	0.0	20.8
GP-18M	5/5/2022	0.0	0.0	0.0	0	20.8
GP-18M	6/8/2022	0.0	0	0.0	0.0	20.8
GP-18M	7/18/2022	0.0	0.0	0.0	4.4	16.0
GP-18M	8/1/2022	0.00	0	0	4.3	16.8
GP-18M	9/19/2022	0.0	0.0	0.0	1.4	19.4
GP-18M	10/3/2022	0.00	0.0	0.0	0.3	19.8
GP-18M	11/16/2022	0.00	0.0	0.0	0.1	20.7
GP-18M	12/5/2022	0.00	0.0	0.0	0.2	20.6

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Madison, Dane County, Wisconsin

Location	Date	Pressure (in. WC)	Methane (% LEL)	Methane (%, by vol.)	Carbon Dioxide (%, by vol.)	Oxygen (%, by vol.)
GP-18S	1/3/2022	0.0	0.0	0.0	0.1	20.7
GP-18S	2/8/2022	0.0	0.0	0.0	0.0	20.8
GP-18S	3/1/2022	0.0	0.0	0.0	0.1	20.6
GP-18S	4/19/2022	0.0	0.0	0.0	0.2	20.5
GP-18S	5/5/2022	0.0	0.0	0.0	0.2	20.5
GP-18S	6/8/2022	0.0	0	0.0	0.3	20.4
GP-18S	7/18/2022	0.0	0.0	0.0	5.2	14.0
GP-18S	8/1/2022	0.00	0	0	6.6	13.3
GP-18S	9/19/2022	0.0	0.0	0.0	5.2	16.7
GP-18S	10/3/2022	0.00	0.0	0.0	0.2	19.9
GP-18S	11/16/2022	0.00	0.0	0.0	0.0	20.8
GP-18S	12/5/2022	0.00	0.0	0.0	0.2	20.6
GP-19$^{85-100}$	1/3/2022	0.0	0.0	0.0	3.8	16.1
GP-19$^{85-100}$	2/8/2022	0.0	0.0	0.0	5.9	12.6
GP-19$^{85-100}$	3/1/2022	0.0	0.0	0.0	0.8	19.8
GP-19$^{85-100}$	4/19/2022	0.0	0.0	0.0	1.0	19.9
GP-19$^{85-100}$	5/5/2022	0.0	0.0	0.0	0.3	20.4
GP-19$^{85-100}$	6/8/2022	0.0	0	0.0	0.2	20.5
GP-19$^{85-100}$	7/18/2022	0.0	0.0	0.0	0.0	20.8
GP-19$^{85-100}$	8/1/2022	0.00	0	0	0	20.8
GP-19$^{85-100}$	9/19/2022	0.0	0.0	0.0	0.0	20.8
GP-19$^{85-100}$	10/3/2022	0.00	0.0	0.0	1.1	19.8
GP-19$^{85-100}$	11/16/2022	0.00	0.0	0.0	0.6	19.8
GP-19$^{85-100}$	12/5/2022	0.00	0.0	0.0	4.5	15.6
GP-19$^{50-70}$	1/3/2022	0.0	0.0	0.0	2.4	18.5
GP-19$^{50-70}$	2/8/2022	0.0	0.0	0.0	2.7	17.6
GP-19$^{50-70}$	3/1/2022	0.0	0.0	0.0	2.4	17.8
GP-19$^{50-70}$	4/19/2022	0.0	0.0	0.0	2.1	18.4
GP-19$^{50-70}$	5/5/2022	0.0	0.0	0.0	1.7	18.8
GP-19$^{50-70}$	6/8/2022	0.0	0	0.0	1.9	18.7
GP-19$^{50-70}$	7/18/2022	0.0	0.0	0.0	0.7	20.0
GP-19$^{50-70}$	8/1/2022	0.00	0	0	0.9	19.9
GP-19$^{50-70}$	9/19/2022	0.0	0.0	0.0	0.7	20.1
GP-19$^{50-70}$	10/3/2022	0.00	0.0	0.0	1.3	19.5
GP-19$^{50-70}$	11/16/2022	0.00	0.0	0.0	0.4	19.7
GP-19$^{50-70}$	12/5/2022	0.00	0.0	0.0	1.7	19.0
GP-19$^{25-40}$	1/3/2022	0.0	0.0	0.0	3.1	17.3
GP-19$^{25-40}$	2/8/2022	0.0	0.0	0.0	3.6	16.9
GP-19$^{25-40}$	3/1/2022	0.0	0.0	0.0	3.1	17.1
GP-19$^{25-40}$	4/19/2022	0.0	0.0	0.0	2.0	18.9
GP-19$^{25-40}$	5/5/2022	0.0	0.0	0.0	1.2	19.6
GP-19$^{25-40}$	6/8/2022	0.0	0	0.0	1.0	19.8
GP-19$^{25-40}$	7/18/2022	0.0	0.0	0.0	0.2	20.4
GP-19$^{25-40}$	8/1/2022	0.00	0	0	0.3	20.4
GP-19$^{25-40}$	9/19/2022	0.0	0.0	0.0	0.4	20.3
GP-19$^{25-40}$	10/3/2022	0.00	0.0	0.0	1.2	19.5
GP-19$^{25-40}$	11/16/2022	0.00	0.0	0.0	1.3	19.1
GP-19$^{25-40}$	12/5/2022	0.00	0.0	0.0	2.1	18.9

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Wisconsin Department of Natural Resources - Refuse Hideaway Landfill
Madison, Dane County, Wisconsin

Location	Date	Pressure (in. WC)	Methane (% LEL)	Methane (%, by vol.)	Carbon Dioxide (%, by vol.)	Oxygen (%, by vol.)
GP19$^{2-15}$	1/3/2022	0.0	0.0	0.0	1.1	20.0
GP19$^{2-15}$	2/8/2022	0.0	0.0	0.0	1.9	17.8
GP19$^{2-15}$	3/1/2022	0.0	0.0	0.0	0.9	19.7
GP19$^{2-15}$	4/19/2022	0.0	0.0	0.0	1.1	19.8
GP19$^{2-15}$	5/5/2022	0.0	0.0	0.0	1	19.7
GP19$^{2-15}$	6/8/2022	0.0	0	0.0	0.5	20.2
GP19$^{2-15}$	7/18/2022	0.0	0.0	0.0	0.0	20.8
GP19$^{2-15}$	8/1/2022	0.00	0	0	0	20.8
GP19$^{2-15}$	9/19/2022	0.0	0.0	0.0	0.0	20.8
GP19$^{2-15}$	10/3/2022	0.00	0.0	0.0	1.9	18.9
GP19$^{2-15}$	11/16/2022	0.00	0.0	0.0	1.7	18.7
GP19$^{2-15}$	12/5/2022	0.00	0.0	0.0	1.3	18.0
GP-20$^{85-100}$	1/3/2022	0.0	0.0	0.0	0.5	20.2
GP-20$^{85-100}$	2/8/2022	0.2	0.0	0.0	2.5	16.7
GP-20$^{85-100}$	3/1/2022	0.0	0.0	0.0	1.7	18
GP-20$^{85-100}$	4/19/2022	0.0	0.0	0.0	0.3	20.3
GP-20$^{85-100}$	5/5/2022	0.0	0.0	0.0	0.3	20.4
GP-20$^{85-100}$	6/8/2022	0.0	0	0.0	0.5	20.1
GP-20$^{85-100}$	7/18/2022	0.0	0.0	0.0	0.1	20.6
GP-20$^{85-100}$	8/1/2022	0.00	0	0	0.2	20.7
GP-20$^{85-100}$	9/19/2022	0.0	0.0	0.0	0.1	20.6
GP-20$^{85-100}$	10/3/2022	0.00	0.0	0.0	0.1	20.7
GP-20$^{85-100}$	11/16/2022	0.00	0.0	0.0	0.0	20.8
GP-20$^{85-100}$	12/5/2022	0.00	0.0	0.0	0.5	20.2
GP-20$^{50-70}$	1/3/2022	0.0	0.0	0.0	1.7	18.8
GP-20$^{50-70}$	2/8/2022	0.0	0.0	0.0	2.7	17.8
GP-20$^{50-70}$	3/1/2022	0.0	0.0	0.0	2.3	17.9
GP-20$^{50-70}$	4/19/2022	0.0	0.0	0.0	1.0	19.8
GP-20$^{50-70}$	5/5/2022	0.0	0.0	0.0	0.5	20.3
GP-20$^{50-70}$	6/8/2022	0.0	0	0.0	0.4	20.3
GP-20$^{50-70}$	7/18/2022	0.0	0.0	0.0	0.1	20.7
GP-20$^{50-70}$	8/1/2022	0.00	0	0	0	20.8
GP-20$^{50-70}$	9/19/2022	0.0	0.0	0.0	0.0	20.8
GP-20$^{50-70}$	10/3/2022	0.00	0.0	0.0	0.3	20.5
GP-20$^{50-70}$	11/16/2022	0.00	0.0	0.0	0.4	20.4
GP-20$^{50-70}$	12/5/2022	0.00	0.0	0.0	1.1	19.9
GP-20$^{25-40}$	1/3/2022	0.0	0.0	0.0	1.8	18.7
GP-20$^{25-40}$	2/8/2022	0.0	0.0	0.0	2.4	17.9
GP-20$^{25-40}$	3/1/2022	0.0	0.0	0.0	1.8	18.4
GP-20$^{25-40}$	4/19/2022	0.0	0.0	0.0	1.2	19.7
GP-20$^{25-40}$	5/5/2022	0.0	0.0	0.0	0.7	20
GP-20$^{25-40}$	6/8/2022	0.0	0	0.0	0.8	20.0
GP-20$^{25-40}$	7/18/2022	0.0	0.0	0.0	0.2	20.5
GP-20$^{25-40}$	8/1/2022	0.00	0	0	0.4	20.5
GP-20$^{25-40}$	9/19/2022	0.0	0.0	0.0	0.3	20.4
GP-20$^{25-40}$	10/3/2022	0.00	0.0	0.0	0.7	20.1
GP-20$^{25-40}$	11/16/2022	0.00	0.0	0.0	0.9	20.0
GP-20$^{25-40}$	12/5/2022	0.00	0.0	0.0	1.5	19.7

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Wisconsin Department of Natural Resources - Refuse Hideaway Landfill
Madison, Dane County, Wisconsin

Location	Date	Pressure (in. WC)	Methane (% LEL)	Methane (%, by vol.)	Carbon Dioxide (%, by vol.)	Oxygen (%, by vol.)
GP-20$^{2-15}$	1/3/2022	0.0	0.0	0.0	1.6	18.8
GP-20$^{2-15}$	2/8/2022	0.0	0.0	0.0	1.7	18.7
GP-20$^{2-15}$	3/1/2022	0.0	0.0	0.0	1.4	19
GP-20$^{2-15}$	4/19/2022	0.0	0.0	0.0	1.3	19.4
GP-20$^{2-15}$	5/5/2022	0.0	0.0	0.0	0.9	19.9
GP-20$^{2-15}$	6/8/2022	0.0	0	0.0	1.1	19.7
GP-20$^{2-15}$	7/18/2022	0.0	0.0	0.0	0.5	20.3
GP-20$^{2-15}$	8/1/2022	0.00	0	0	0	20.8
GP-20$^{2-15}$	9/19/2022	0.0	0.0	0.0	0.5	20.3
GP-20$^{2-15}$	10/3/2022	0.00	0.0	0.0	2.1	18.8
GP-20$^{2-15}$	11/16/2022	0.00	0.0	0.0	2.3	18.5
GP-20$^{2-15}$	12/5/2022	0.00	0.0	0.0	1.8	19.5
GP-21$^{85-100}$	1/3/2022	0.2	0.0	0.0	0.4	20.4
GP-21$^{85-100}$	2/8/2022	0.4	0.0	0.0	0.8	19.3
GP-21$^{85-100}$	3/1/2022	0.0	0.0	0.0	0.6	19.6
GP-21$^{85-100}$	4/19/2022	-0.1	0.0	0.0	0.3	20.5
GP-21$^{85-100}$	5/5/2022	0.2	0.0	0.0	0.3	20.2
GP-21$^{85-100}$	6/8/2022	0.1	0	0.0	0.5	20.2
GP-21$^{85-100}$	7/18/2022	0.0	0.0	0.0	0.2	20.6
GP-21$^{85-100}$	8/1/2022	-0.14	0	0	0.3	20.6
GP-21$^{85-100}$	9/19/2022	0.0	0.0	0.0	0.2	20.6
GP-21$^{85-100}$	10/3/2022	0.00	0.0	0.0	0.2	20.3
GP-21$^{85-100}$	11/16/2022	0.00	0.0	0.0	0.2	20.5
GP-21$^{85-100}$	12/5/2022	-0.10	0.0	0.0	0.6	19.9
GP-21$^{50-70}$	1/3/2022	0.1	0.0	0.0	0.2	20.6
GP-21$^{50-70}$	2/8/2022	0.2	0.0	0.0	2.8	16.6
GP-21$^{50-70}$	3/1/2022	0.0	0.0	0.0	2.3	17.1
GP-21$^{50-70}$	4/19/2022	0.0	0.0	0.0	0.8	20
GP-21$^{50-70}$	5/5/2022	0.0	0.0	0.0	0.3	20.4
GP-21$^{50-70}$	6/8/2022	0.0	0	0.0	0.4	20.4
GP-21$^{50-70}$	7/18/2022	0.0	0.0	0.0	0.0	20.8
GP-21$^{50-70}$	8/1/2022	-0.02	0	0	0	20.8
GP-21$^{50-70}$	9/19/2022	0.0	0.0	0.0	0.1	20.7
GP-21$^{50-70}$	10/3/2022	0.00	0.0	0.0	0.0	20.8
GP-21$^{50-70}$	11/16/2022	0.00	0.0	0.0	0.3	20.5
GP-21$^{50-70}$	12/5/2022	-0.07	0.0	0.0	1.5	19.3
GP-21$^{25-40}$	1/3/2022	0.0	0.0	0.0	1.8	19.0
GP-21$^{25-40}$	2/8/2022	0.0	0.0	0.0	2.4	17.6
GP-21$^{25-40}$	3/1/2022	0.0	0.0	0.0	1.9	18.2
GP-21$^{25-40}$	4/19/2022	0.0	0.0	0.0	0.6	20.3
GP-21$^{25-40}$	5/5/2022	0.0	0.0	0.0	0	20.8
GP-21$^{25-40}$	6/8/2022	0.0	0	0.0	0.1	20.7
GP-21$^{25-40}$	7/18/2022	0.0	0.0	0.0	0.0	20.8
GP-21$^{25-40}$	8/1/2022	-0.03	0	0	0.1	20.7
GP-21$^{25-40}$	9/19/2022	0.0	0.0	0.0	0.0	20.8
GP-21$^{25-40}$	10/3/2022	0.00	0.0	0.0	0.2	20.5
GP-21$^{25-40}$	11/16/2022	0.00	0.0	0.0	0.4	20.4
GP-21$^{25-40}$	12/5/2022	0.00	0.0	0.0	2.3	18.5

Attachment 1
Gas Probe Monitoring Data Summary - 2022
Wisconsin Department of Natural Resources - Refuse Hideaway Landfill
Madison, Dane County, Wisconsin

Location	Date	Pressure (in. WC)	Methane (% LEL)	Methane (%, by vol.)	Carbon Dioxide (%, by vol.)	Oxygen (%, by vol.)
GP-21$^{2-15}$	1/3/2022	0.0	0.0	0.0	1.1	19.8
GP-21$^{2-15}$	2/8/2022	0.0	0.0	0.0	1.1	19.6
GP-21$^{2-15}$	3/1/2022	0.0	0.0	0.0	0.7	20
GP-21$^{2-15}$	4/19/2022	0.0	0.0	0.0	0.7	20.4
GP-21$^{2-15}$	5/5/2022	0.0	0.0	0.0	0.5	20.4
GP-21$^{2-15}$	6/8/2022	0.0	0	0.0	0.6	20.0
GP-21$^{2-15}$	7/18/2022	0.0	0.0	0.0	0.5	20.4
GP-21$^{2-15}$	8/1/2022	0.00	0	0	0.7	20.2
GP-21$^{2-15}$	9/19/2022	0.0	0.0	0.0	0.5	20.3
GP-21$^{2-15}$	10/3/2022	0.00	0.0	0.0	0.6	20.2
GP-21$^{2-15}$	11/16/2022	0.00	0.0	0.0	0.8	20.1
GP-21$^{2-15}$	12/5/2022	0.00	0.0	0.0	1.2	19.9
GP-22$^{85-100}$	1/3/2022	0.0	0.0	0.0	1.2	19.8
GP-22$^{85-100}$	2/8/2022	0.1	0.0	0.0	7.5	7.6
GP-22$^{85-100}$	3/1/2022	0.0	0.0	0.0	4.6	12.3
GP-22$^{85-100}$	4/19/2022	0.0	0.0	0.0	0.0	20.8
GP-22$^{85-100}$	5/5/2022	0.0	0.0	0.0	1.5	19.2
GP-22$^{85-100}$	6/8/2022	0.0	0	0.0	1.8	18.7
GP-22$^{85-100}$	7/18/2022	0.0	0.0	0.0	2.8	18.1
GP-22$^{85-100}$	8/1/2022	0.00	0	0	2.6	18.4
GP-22$^{85-100}$	9/19/2022	0.0	0.0	0.0	3.5	17.4
GP-22$^{85-100}$	10/3/2022	0.00	0.0	0.0	2.9	18.0
GP-22$^{85-100}$	11/16/2022	0.00	0.0	0.0	3.1	17.8
GP-22$^{85-100}$	12/5/2022	0.00	0.0	0.0	3.8	17.0
GP-22$^{50-70}$	1/3/2022	0.0	0.0	0.0	0.6	20.2
GP-22$^{50-70}$	2/8/2022	0.1	0.0	0.0	3.6	15.6
GP-22$^{50-70}$	3/1/2022	0.0	0.0	0.0	0.8	19.9
GP-22$^{50-70}$	4/19/2022	0.0	0.0	0.0	0.6	20
GP-22$^{50-70}$	5/5/2022	0.0	0.0	0.0	0.4	20.3
GP-22$^{50-70}$	6/8/2022	0.0	0	0.0	0.6	20.1
GP-22$^{50-70}$	7/18/2022	0.0	0.0	0.0	0.6	20.0
GP-22$^{50-70}$	8/1/2022	0.00	0	0	1.1	19.4
GP-22$^{50-70}$	9/19/2022	0.0	0.0	0.0	0.9	19.9
GP-22$^{50-70}$	10/3/2022	0.00	0.0	0.0	0.6	19.9
GP-22$^{50-70}$	11/16/2022	0.00	0.0	0.0	0.4	20.2
GP-22$^{50-70}$	12/5/2022	0.09	0.0	0.0	2.8	18.3
GP-22$^{25-40}$	1/3/2022	0.0	0.0	0.0	1.7	19.4
GP-22$^{25-40}$	2/8/2022	0.0	0.0	0.0	2.0	18.4
GP-22$^{25-40}$	3/1/2022	0.0	0.0	0.0	1.9	18.5
GP-22$^{25-40}$	4/19/2022	0.0	0.0	0.0	0.9	19.6
GP-22$^{25-40}$	5/5/2022	0.0	0.0	0.0	0.6	20.1
GP-22$^{25-40}$	6/8/2022	0.0	0	0.0	0.9	19.8
GP-22$^{25-40}$	7/18/2022	0.0	0.0	0.0	0.2	20.4
GP-22$^{25-40}$	8/1/2022	0.00	0	0	1.8	19.0
GP-22$^{25-40}$	9/19/2022	0.0	0.0	0.0	1.3	19.3
GP-22$^{25-40}$	10/3/2022	0.00	0.0	0.0	1.5	19.0
GP-22$^{25-40}$	11/16/2022	0.00	0.0	0.0	1.7	18.8
GP-22$^{25-40}$	12/5/2022	0.00	0.0	0.0	1.7	19.7

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Gas Probe Monitoring Data Summary - 2022
Wisconsin Department of Natural Resources - Refuse Hideaway Landfill
Madison, Dane County, Wisconsin

Location	Date	Pressure (in. WC)	Methane (% LEL)	Methane (%, by vol.)	Carbon Dioxide (%, by vol.)	Oxygen (%, by vol.)
GP-22$^{2-15}$	1/3/2022	0.0	0.0	0.0	1.3	19.9
GP-22$^{2-15}$	2/8/2022	0.0	0.0	0.0	1.1	19.6
GP-22$^{2-15}$	3/1/2022	0.0	0.0	0.0	1	19.8
GP-22$^{2-15}$	4/19/2022	0.0	0.0	0.0	1.1	19.2
GP-22$^{2-15}$	5/5/2022	0.0	0.0	0.0	1.2	19.4
GP-22$^{2-15}$	6/8/2022	0.0	0	0.0	1.4	19.1
GP-22$^{2-15}$	7/18/2022	0.0	0.0	0.0	2.5	18.3
GP-22$^{2-15}$	8/1/2022	0.00	0	0	2.6	18.4
GP-22$^{2-15}$	9/19/2022	0.0	0.0	0.0	3.4	17.6
GP-22$^{2-15}$	10/3/2022	0.00	0.0	0.0	3.9	17.3
GP-22$^{2-15}$	11/16/2022	0.00	0.0	0.0	4.2	17.0
GP-22$^{2-15}$	12/5/2022	0.00	0.0	0.0	2.2	19.3
GP-23$^{85-100}$	1/3/2022	0.0	0.0	0.0	0.3	20.4
GP-23$^{85-100}$	2/8/2022	0.1	0.0	0.0	6.2	10.2
GP-23$^{85-100}$	3/1/2022	0.0	0.0	3.1	7.2	9.6
GP-23$^{85-100}$	4/19/2022	0.0	0.0	0.0	0.3	19.9
GP-23$^{85-100}$	5/5/2022	0.0	0.0	0.0	0	20.8
GP-23$^{85-100}$	6/8/2022	0.0	0	0.0	0.2	20.7
GP-23$^{85-100}$	7/18/2022	0.0	0.0	0.0	0.7	20.0
GP-23$^{85-100}$	8/1/2022	0.00	0	0	0	20.8
GP-23$^{85-100}$	9/19/2022	0.0	0.0	0.0	0.0	20.8
GP-23$^{85-100}$	10/3/2022	0.00	0.0	0.0	0.3	20.2
GP-23$^{85-100}$	11/16/2022	0.00	0.0	0.0	0.4	20.3
GP-23$^{85-100}$	12/5/2022	0.00	0.0	0.0	1.5	19.1
GP-23$^{50-70}$	1/3/2022	0.0	0.0	0.0	0.1	20.7
GP-23$^{50-70}$	2/8/2022	0.0	27.0	1.3	14.3	0.0
GP-23$^{50-70}$	3/1/2022	0.0	0.0	0.0	0.1	20.5
GP-23$^{50-70}$	4/19/2022	0.0	0.0	0.0	0.0	20.7
GP-23$^{50-70}$	5/5/2022	0.0	0.0	0.0	0	20.8
GP-23$^{50-70}$	6/8/2022	0.0	0	0.0	0.3	20.5
GP-23$^{50-70}$	7/18/2022	0.0	0.0	0.0	0.3	20.4
GP-23$^{50-70}$	8/1/2022	0.00	0	0	0.4	20.3
GP-23$^{50-70}$	9/19/2022	0.0	0.0	0.0	0.0	20.8
GP-23$^{50-70}$	10/3/2022	0.00	0.0	0.0	0.2	20.5
GP-23$^{50-70}$	11/16/2022	0.00	0.0	0.0	0.6	20.1
GP-23$^{50-70}$	12/5/2022	-0.03	0.0	0.0	1.0	19.6
GP-23$^{25-40}$	1/3/2022	0.0	0.0	0.0	0.0	20.8
GP-23$^{25-40}$	2/8/2022	0.0	36.0	1.8	18.1	0.0
GP-23$^{25-40}$	3/1/2022	0.0	0.0	0.0	0	20.8
GP-23$^{25-40}$	4/19/2022	0.0	0.0	0.0	0.0	20.8
GP-23$^{25-40}$	5/5/2022	0.0	0.0	0.0	0	20.8
GP-23$^{25-40}$	6/8/2022	0.0	0	0.0	0.0	20.8
GP-23$^{25-40}$	7/18/2022	0.0	0.0	0.0	0.1	20.6
GP-23$^{25-40}$	8/1/2022	0.00	0	0	0.3	20.4
GP-23$^{25-40}$	9/19/2022	0.0	0.0	0.0	0.0	20.8
GP-23$^{25-40}$	10/3/2022	0.00	0.0	0.0	0.0	20.8
GP-23$^{25-40}$	11/16/2022	0.00	0.0	0.0	0.2	20.6
GP-23$^{25-40}$	12/5/2022	0.00	0.0	0.0	5.7	15.2

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Location	Date	Pressure (in. WC)	Methane (% LEL)	Methane (%, by vol.)	Carbon Dioxide (%, by vol.)	Oxygen (%, by vol.)
GP-23$^{2-15}$	1/3/2022	0.0	0.0	0.0	2.6	16.3
GP-23$^{2-15}$	2/8/2022	0.0	0.0	0.0	12.4	5.1
GP-23$^{2-15}$	3/1/2022	0.0	0.0	0.0	0.7	19.5
GP-23$^{2-15}$	4/19/2022	0.0	0.0	0.0	0.1	20.7
GP-23$^{2-15}$	5/5/2022	0.0	0.0	0.0	0	20.8
GP-23$^{2-15}$	6/8/2022	0.0	0	0.0	0.1	20.7
GP-23$^{2-15}$	7/18/2022	0.0	0.0	0.0	1.5	19.5
GP-23$^{2-15}$	8/1/2022	0.00	0	0	3.1	18.2
GP-23$^{2-15}$	9/19/2022	0.0	0.0	0.0	0.8	20.1
GP-23$^{2-15}$	10/3/2022	0.00	0.0	0.0	0.6	20.1
GP-23$^{2-15}$	11/16/2022	0.00	0.0	0.0	0.4	20.4
GP-23$^{2-15}$	12/5/2022	0.00	0.0	0.0	3.2	17.3
GP-24$^{85-100}$	1/3/2022	0.0	0.0	0.0	10.1	8.7
GP-24$^{85-100}$	2/8/2022	0.1	0.0	0.0	15.3	2.8
GP-24$^{85-100}$	3/1/2022	0.0	0.0	0.0	0	20.8
GP-24$^{85-100}$	4/19/2022	0.0	0.0	0.0	0.0	20.8
GP-24$^{85-100}$	5/5/2022	0.0	0.0	0.0	0	20.8
GP-24$^{85-100}$	6/8/2022	0.0	0	0.0	0.2	20.6
GP-24$^{85-100}$	7/18/2022	0.0	0.0	0.0	0.2	20.6
GP-24$^{85-100}$	8/1/2022	0.00	0	0	0	20.8
GP-24$^{85-100}$	9/19/2022	0.0	0.0	0.0	0.0	20.8
GP-24$^{85-100}$	10/3/2022	0.00	0.0	0.0	3.5	16.4
GP-24$^{85-100}$	11/16/2022	0.00	0.0	0.0	3.7	16.5
GP-24$^{85-100}$	12/5/2022	-0.06	0.0	0.0	11.2	8.3
GP-24$^{50-70}$	1/3/2022	0.0	0.0	0.0	0.4	19.9
GP-24$^{50-70}$	2/8/2022	0.0	0.0	0.0	5.1	14.2
GP-24$^{50-70}$	3/1/2022	0.0	0.0	0.0	4.8	15.1
GP-24$^{50-70}$	4/19/2022	0.0	0.0	0.0	0.6	20
GP-24$^{50-70}$	5/5/2022	0.0	0.0	0.0	0.9	20.1
GP-24$^{50-70}$	6/8/2022	0.0	0	0.0	1.3	19.7
GP-24$^{50-70}$	7/18/2022	0.0	0.0	0.0	1.1	19.6
GP-24$^{50-70}$	8/1/2022	0.00	0	0	1.7	18.2
GP-24$^{85-100}$	9/19/2022	0.0	0.0	0.0	0.0	20.8
GP-24$^{50-70}$	10/3/2022	0.00	0.0	0.0	1.0	19.5
GP-24$^{50-70}$	11/16/2022	0.00	0.0	0.0	0.8	19.7
GP-24$^{50-70}$	12/5/2022	0.00	0.0	0.0	1.8	19.1
GP-24$^{25-40}$	1/3/2022	0.0	0.0	0.0	0.2	20.6
GP-24$^{25-40}$	2/8/2022	0.0	0.0	0.0	9.6	6.5
GP-24$^{25-40}$	3/1/2022	0.0	0.0	0.0	0.3	20.3
GP-24$^{25-40}$	4/19/2022	0.0	0.0	0.0	0.0	20.8
GP-24$^{25-40}$	5/5/2022	0.0	0.0	0.0	0	20.8
GP-24$^{25-40}$	6/8/2022	0.0	0	0.0	0.3	20.4
GP-24$^{25-40}$	7/18/2022	0.0	0.0	0.0	0.3	20.5
GP-24$^{25-40}$	8/1/2022	0.00	0	0	3.9	16.1
GP-24$^{25-40}$	9/19/2022	0.0	0.0	0.0	0.1	20.6
GP-24$^{25-40}$	10/3/2022	0.00	0.0	0.0	0.2	20.3
GP-24$^{25-40}$	11/16/2022	0.00	0.0	0.0	0.3	20.4
GP-24$^{25-40}$	12/5/2022	0.00	0.0	0.0	5.7	15.2

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Location	Date	Pressure (in. WC)	Methane (% LEL)	Methane (%, by vol.)	Carbon Dioxide (%, by vol.)	Oxygen (%, by vol.)
GP-24$^{2-15}$	1/3/2022	0.0	0.0	0.0	0.7	20.2
GP-24$^{2-15}$	2/8/2022	0.0	45.0	2.2	16.4	1.1
GP-24$^{2-15}$	3/1/2022	0.0	0.0	0.0	4.9	14.8
GP-24$^{2-15}$	4/19/2022	0.0	0.0	0.0	0.7	20.1
GP-24$^{2-15}$	5/5/2022	0.0	0.0	0.0	1.1	19.8
GP-24$^{2-15}$	6/8/2022	0.0	0	0.0	1.5	19.4
GP-24$^{2-15}$	7/18/2022	0.0	0.0	0.0	1.6	19.4
GP-24$^{2-15}$	8/1/2022	0.00	0	0	3.5	17.2
GP-24$^{2-15}$	9/19/2022	0.0	0.0	0.0	2.2	19.1
GP-24$^{2-15}$	10/3/2022	0.00	0.0	0.0	1.9	19.0
GP-24$^{2-15}$	11/16/2022	0.00	0.0	0.0	2.3	18.7
GP-24$^{2-15}$	12/5/2022	0.00	0.0	0.0	4.7	15.1
GPW-1D	1/3/2022	0.4	0.0	0.0	1.5	19.2
GPW-1D	2/8/2022	1.2	0.0	0.0	1.6	18.1
GPW-1D	3/1/2022	0.1	0.0	0.0	1.4	18.9
GPW-1D	4/19/2022	-0.1	0.0	0.0	0.5	20.1
GPW-1D	5/5/2022	0.4	0.0	0.0	1.6	18.5
GPW-1D	6/8/2022	0.4	0	0.0	1.3	19.4
GPW-1D	7/18/2022	-0.2	0.0	0.0	1.9	18.1
GPW-1D	8/1/2022	-0.03	0	0	2.1	18.0
GPW-1D	9/19/2022	-0.1	0.0	0.0	0.7	19.5
GPW-1D	10/3/2022	0.29	0.0	0.0	3.5	16.1
GPW-1D	11/16/2022	0.23	0.0	0.0	2.1	18.1
GPW-1D	12/5/2022	0.44	0.0	0.0	1.9	17.0
GPW-1M	1/3/2022	0.4	0.0	0.0	1.4	18.8
GPW-1M	2/8/2022	1.1	0.0	0.0	1.7	17.2
GPW-1M	3/1/2022	0.2	0.0	0.0	0	20.8
GPW-1M	4/19/2022	0.0	0.0	0.0	0.0	20.8
GPW-1M	5/5/2022	0.4	0.0	0.0	1.5	18.6
GPW-1M	6/8/2022	0.4	0	0.0	1.6	19.1
GPW-1M	7/18/2022	-0.2	0.0	0.0	0.2	20.2
GPW-1M	8/1/2022	-0.04	0	0	0	20.8
GPW-1M	9/19/2022	0.0	0.0	0.0	0.0	20.8
GPW-1M	10/3/2022	0.30	0.0	0.0	0.4	19.8
GPW-1M	11/16/2022	0.24	0.0	0.0	1.8	18.0
GPW-1M	12/5/2022	0.45	0.0	0.0	1.8	17.3
GPW-1S	1/3/2022	0.0	0.0	0.0	1.0	19.8
GPW-1S	2/8/2022	0.0	0.0	0.0	0.9	19.2
GPW-1S	3/1/2022	0.0	0.0	0.0	0.8	20.4
GPW-1S	4/19/2022	0.0	0.0	0.0	0.8	20.1
GPW-1S	5/5/2022	0.0	0.0	0.0	0.8	19.4
GPW-1S	6/8/2022	0.1	0	0.0	1.1	19.7
GPW-1S	7/18/2022	0.0	0.0	0.0	0.9	19.4
GPW-1S	8/1/2022	0.00	0	0	1.4	18.7
GPW-1S	9/19/2022	0.0	0.0	0.0	1.7	18.4
GPW-1S	10/3/2022	0.00	0.0	0.0	2.2	17.8
GPW-1S	11/16/2022	0.00	0.0	0.0	1.3	19.5
GPW-1S	12/5/2022	0.02	0.0	0.0	1.5	18.3
G-1D	1/3/2022	0.0	0.0	0.0	0.0	20.8
G-1D	2/8/2022	0.0	0.0	0.0	0.0	20.8
G-1D	3/1/2022	0.0	0.0	0.0	0	20.8
G-1D	4/19/2022	0.0	0.0	0.0	0.0	20.8
G-1D	5/5/2022	0.0	0.0	0.0	0	20.8
G-1D	6/8/2022	0.0	0	0.0	0.0	20.8
G-1D	7/18/2022	0.0	55.0	2.7	17.4	0.1
G-1D	8/1/2022	0.00	70	3.5	18.1	0.0
G-1D	9/19/2022	0.0	94.0	4.7	17.8	0.0
G-1D	10/3/2022	0.00	0.0	0.0	0.1	20.7
G-1D	11/16/2022	0.02	0.0	0.0	0.0	20.8
G-1D	12/5/2022	-0.05	0.0	0.0	0.0	20.8

Attachment 1
Gas Probe Monitoring Data Summary - 2022
Wisconsin Department of Natural Resources - Refuse Hideaway Landfill
Madison, Dane County, Wisconsin

Location	Date	Pressure (in. WC)	Methane (% LEL)	Methane (%, by vol.)	Carbon Dioxide (%, by vol.)	Oxygen (%, by vol.)
G-1S	1/3/2022	0.0	0.0	0.0	0.0	20.7
G-1S	2/8/2022	0.0	0.0	0.0	0.0	20.8
G-1S	3/1/2022	0.0	0.0	0.0	0.1	20.8
G-1S	4/19/2022	0.0	0.0	0.0	0.2	20.7
G-1S	5/5/2022	0.0	0.0	0.0	1	19.9
G-1S	6/8/2022	0.0	0	0.0	0.8	20.0
G-1S	7/18/2022	0.0	24.0	1.2	14.1	0.0
G-1S	8/1/2022	0.00	68	3.4	16.2	0.0
G-1S	9/19/2022	0.0	>100	9.7	17.4	1.3
G-1S	10/3/2022	0.00	93.0	4.6	12.8	5.4
G-1S	11/16/2022	0.03	0.0	0.0	0.3	20.6
G-1S	12/5/2022	-0.03	0.0	0.0	0.4	20.5
G-2D	1/3/2022	0.0	0.0	0.0	0.1	20.7
G-2D	2/8/2022	0.0	0.0	0.0	0.0	20.8
G-2D	3/1/2022	0.0	0.0	0.0	0	20.8
G-2D	4/19/2022	0.0	0.0	0.0	0.3	20.6
G-2D	5/5/2022	0.0	0.0	0.0	0.8	20
G-2D	6/8/2022	0.0	0	0.0	1.1	19.7
G-2D	7/18/2022	0.0	0.0	0.0	1.3	19.4
G-2D	8/1/2022	0.00	0	0	1.4	18.7
G-2D	9/19/2022	0.0	>100	6.5	18.9	0.0
G-2D	10/3/2022	0.00	0.0	0.0	2.3	18.0
G-2D	11/16/2022	0.00	0.0	0.0	0.3	20.4
G-2D	12/5/2022	0.00	0.0	0.0	0.1	20.6
G-2S	1/3/2022	0.0	0.0	0.0	0.1	20.6
G-2S	2/8/2022	0.0	0.0	0.0	0.0	20.8
G-2S	3/1/2022	0.0	0.0	0.0	0	20.8
G-2S	4/19/2022	0.0	0.0	0.0	0.1	20.7
G-2S	5/5/2022	0.0	0.0	0.0	0.1	20.7
G-2S	6/8/2022	0.0	0	0.0	0.3	20.5
G-2S	7/18/2022	0.0	>100	5.5	18.8	0.0
G-2S	8/1/2022	0.00	5.4	2.6	15.9	2.4
G-2S	9/19/2022	0.0	0.0	0.0	2.9	17.8
G-2S	10/3/2022	0.00	>100	6.1	18.1	0.0
G-2S	11/16/2022	0.00	0.0	0.0	0.0	20.8
G-2S	12/5/2022	0.00	0.0	0.0	0.2	20.4
G-5	1/3/2022	0.0	0.0	0.0	3.5	16.9
G-5	2/8/2022	0.0	0.0	0.0	3.3	16.6
G-5	3/1/2022	0.0	0.0	0.0	4.4	12.9
G-5	4/19/2022	0.0	0.0	0.0	3.2	16.2
G-5	5/5/2022	0.0	0.0	0.0	2.9	17.7
G-5	6/8/2022	0.0	0	0.0	2.4	18.1
G-5	7/18/2022	0.0	0.0	0.0	7.8	14.1
G-5	8/1/2022	0.00	0	0	7.4	15.4
G-5	9/19/2022	0.0	0.0	0.0	6.6	13.2
G-5	10/3/2022	0.00	0.0	0.0	6.8	14.0
G-5	11/16/2022	0.00	0.0	0.0	5.1	16.4
G-5	12/5/2022	0.00	0.0	0.0	3.0	18.4
G-6	1/3/2022	0.0	0.0	0.0	1.5	16.2
G-6	2/8/2022	0.0	0.0	0.0	0.4	20.5
G-6	3/1/2022	0.0	0.0	0.0	0	20.8
G-6	4/19/2022	0.0	0.0	0.0	0.0	20.8
G-6	5/5/2022	0.0	0.0	0.0	0	20.8
G-6	6/8/2022	0.0	0	0.0	0.0	20.8
G-6	7/18/2022	0.0	0.0	0.0	0.5	20.0
G-6	8/1/2022	0.00	0	0	0.6	19.9
G-6	9/19/2022	0.0	0.0	0.0	0.5	20.3
G-6	10/3/2022	0.00	0.0	0.0	0.0	20.8
G-6	11/16/2022	0.00	0.0	0.0	0.0	20.8
G-6	12/5/2022	0.00	0.0	0.0	1.1	19.5

Attachment 1
Gas Probe Monitoring Data Summary - 2022
Wisconsin Department of Natural Resources - Refuse Hideaway Landfill
Madison, Dane County, Wisconsin

Location	Date	Pressure (in. WC)	Methane (% LEL)	Methane (%, by vol.)	Carbon Dioxide (%, by vol.)	Oxygen (%, by vol.)
G-8	1/3/2022	0.0	0.0	0.0	0.0	20.8
G-8	2/8/2022	0.0	0.0	0.0	0.0	20.8
G-8	3/1/2022	0.0	0.0	0.0	0	20.8
G-8	4/19/2022	0.0	0.0	0.0	0.0	20.8
G-8	5/5/2022	0.0	0.0	0.0	0	20.8
G-8	6/8/2022	0.0	0	0.0	0.0	20.8
G-8	7/18/2022	0.0	0.0	0.0	0.0	20.8
G-8	8/1/2022	0.00	0	0	0	20.8
G-8	9/19/2022	0.0	0.0	0.0	0.0	20.8
G-8	10/3/2022	0.00	0.0	0.0	0.0	20.8
G-8	11/16/2022	0.00	0.0	0.0	0.0	20.8
G-8	12/5/2022	0.00	0.0	0.0	0.0	20.8
G-9	1/3/2022	0.0	0.0	0.0	0.0	20.8
G-9	2/8/2022	0.0	0.0	0.0	1.6	16.5
G-9	3/1/2022	0.0	0.0	0.0	1.6	16.4
G-9	4/19/2022	0.0	0.0	0.0	1.0	17.4
G-9	5/5/2022	0.0	0.0	0.0	0.6	18.9
G-9	6/8/2022	0.0	0	0.0	0.7	20.4
G-9	7/18/2022	0.0	0.0	0.0	0.0	20.8
G-9	8/1/2022	0.00	0	0	0	20.8
G-9	9/19/2022	0.0	0.0	0.0	0.1	20.6
G-9	10/3/2022	0.00	0.0	0.0	0.1	19.4
G-9	11/16/2022	0.00	0.0	0.0	1.1	17.0
G-9	12/5/2022	0.00	0.0	0.0	1.3	17.4
G-10	1/3/2022	0.0	0.0	0.0	0.0	20.8
G-10	2/8/2022	0.9	0.0	0.0	1.3	17.5
G-10	3/1/2022	-0.1	0.0	0.0	0	20.8
G-10	4/19/2022	-0.4	0.0	0.0	0.0	20.8
G-10	5/5/2022	0.5	0.0	0.0	0	20.8
G-10	6/8/2022	0.4	0	0.0	0.0	20.8
G-10	7/18/2022	-0.1	0.0	0.0	0.2	20.4
G-10	8/1/2022	0.00	0	0	0	20.8
G-10	9/19/2022	-0.4	0.0	0.0	0.0	20.8
G-10	10/3/2022	-0.04	0.0	0.0	0.3	20.4
G-10	11/16/2022	0.00	0.0	0.0	0.5	20.2
G-10	12/5/2022	-0.53	0.0	0.0	0.1	20.6
Speedway Office	1/3/2022	0.0	0.0	0.0	0.0	20.8
Speedway Office	2/8/2022	0.0	0.0	0.0	0.0	20.8
Speedway Office	3/1/2022	0.0	0.0	0.0	0	20.8
Speedway Office	4/19/2022	0.0	0.0	0.0	0.0	20.8
Speedway Office	5/5/2022	0.0	0.0	0.0	0	20.8
Speedway Office	6/8/2022	0.0	0	0.0	0.0	20.8
Speedway Office	7/18/2022	0.0	0.0	0.0	0.0	20.8
Speedway Office	8/1/2022	0.00	0	0	0	20.8
Speedway Office	9/19/2022	0.0	0.0	0.0	0.0	20.8
Speedway Office	10/3/2022	0.00	0.0	0.0	0.0	20.8
Speedway Office	11/16/2022	0.00	0.0	0.0	0.0	20.8
Speedway Office	12/5/2022	0.00	0.0	0.0	0.0	20.8

Notes:

GES was in operation

Attachment 2

Leachate Laboratory Analytical Report

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 20, 2022

Andrew Stehn
TRC Madison
708 Heartland Trail
Madison, WI 53717

RE: Project: RHL
Pace Project No.: 40243245

Dear Andrew Stehn:

Enclosed are the analytical results for sample(s) received by the laboratory on April 11, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Peggy Popp, TRC - Madison
JOHN ROELKE, TRC - Madison

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: RHL
Pace Project No.: 40243245

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: RHL
Pace Project No.: 40243245

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40243245001	**LEACHATE TANK**	Water	04/08/22 09:30	04/11/22 10:25

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: RHL
Pace Project No.: 40243245

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40243245001	**LEACHATE TANK**	EPA 6010D	TXW	9
		EPA 7470	AJT	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: RHL
Pace Project No.: 40243245

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40243245001	**LEACHATE TANK**					
EPA 6010D	Chromium	4.6J	ug/L	10.0	04/13/22 12:55	
EPA 6010D	Copper	4.9J	ug/L	10.0	04/13/22 12:55	
EPA 6010D	Nickel	12.6	ug/L	10.0	04/13/22 12:55	
EPA 6010D	Zinc	12.3J	ug/L	40.0	04/13/22 12:55	

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: RHL
Pace Project No.: 40243245

Method: **EPA 6010D**
Description: 6010D MET ICP
Client: TRC - MADISON
Date: April 20, 2022

General Information:
1 sample was analyzed for EPA 6010D by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: RHL
Pace Project No.: 40243245

Method: **EPA 7470**
Description: 7470 Mercury
Client: TRC - MADISON
Date: April 20, 2022

General Information:
1 sample was analyzed for EPA 7470 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: RHL
Pace Project No.: 40243245

Sample: LEACHATE TANK **Lab ID: 40243245001** Collected: 04/08/22 09:30 Received: 04/11/22 10:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Cadmium	**<1.3**	ug/L	5.0	1.3	1	04/12/22 06:28	04/13/22 12:55	7440-43-9	
Chromium	**4.6J**	ug/L	10.0	2.5	1	04/12/22 06:28	04/13/22 12:55	7440-47-3	
Copper	**4.9J**	ug/L	10.0	3.4	1	04/12/22 06:28	04/13/22 12:55	7440-50-8	
Lead	**<5.9**	ug/L	20.0	5.9	1	04/12/22 06:28	04/13/22 12:55	7439-92-1	
Molybdenum	**<2.4**	ug/L	10.0	2.4	1	04/12/22 06:28	04/13/22 12:55	7439-98-7	
Nickel	**12.6**	ug/L	10.0	2.6	1	04/12/22 06:28	04/13/22 12:55	7440-02-0	
Selenium	**<12.2**	ug/L	40.0	12.2	1	04/12/22 06:28	04/13/22 12:55	7782-49-2	
Silver	**<3.2**	ug/L	10.0	3.2	1	04/12/22 06:28	04/13/22 12:55	7440-22-4	
Zinc	**12.3J**	ug/L	40.0	11.6	1	04/12/22 06:28	04/13/22 12:55	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	**<0.066**	ug/L	0.20	0.066	1	04/19/22 10:15	04/20/22 09:17	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: RHL
Pace Project No.: 40243245

QC Batch: 413516
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243245001

METHOD BLANK: 2380937 Matrix: Water
Associated Lab Samples: 40243245001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	04/20/22 08:43	

LABORATORY CONTROL SAMPLE: 2380938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2380939 2380940

Parameter	Units	40243315001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.066	5	5	5.3	5.0	106	101	85-115	5	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: RHL
Pace Project No.: 40243245

QC Batch: 412836
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243245001

METHOD BLANK: 2377302 Matrix: Water
Associated Lab Samples: 40243245001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	<1.3	5.0	04/13/22 12:21	
Chromium	ug/L	<2.5	10.0	04/13/22 12:21	
Copper	ug/L	<3.4	10.0	04/13/22 12:21	
Lead	ug/L	<5.9	20.0	04/13/22 12:21	
Molybdenum	ug/L	<2.4	10.0	04/13/22 12:21	
Nickel	ug/L	<2.6	10.0	04/13/22 12:21	
Selenium	ug/L	<12.2	40.0	04/13/22 12:21	
Silver	ug/L	<3.2	10.0	04/13/22 12:21	
Zinc	ug/L	<11.6	40.0	04/13/22 12:21	

LABORATORY CONTROL SAMPLE: 2377303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	250	263	105	80-120	
Chromium	ug/L	250	256	102	80-120	
Copper	ug/L	250	262	105	80-120	
Lead	ug/L	250	266	106	80-120	
Molybdenum	ug/L	250	262	105	80-120	
Nickel	ug/L	250	266	107	80-120	
Selenium	ug/L	250	270	108	80-120	
Silver	ug/L	125	132	105	80-120	
Zinc	ug/L	250	265	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2377304 2377305

Parameter	Units	40243209001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	<1.3	250	250	264	256	106	102	75-125	3	20	
Chromium	ug/L	9.3J	250	250	268	259	104	100	75-125	4	20	
Copper	ug/L	<3.4	250	250	259	248	104	99	75-125	4	20	
Lead	ug/L	<5.9	250	250	266	255	105	100	75-125	4	20	
Molybdenum	ug/L	10.8	250	250	271	260	104	100	75-125	4	20	
Nickel	ug/L	5.4J	250	250	269	258	105	101	75-125	4	20	
Selenium	ug/L	<12.2	250	250	266	259	106	104	75-125	3	20	
Silver	ug/L	<3.2	125	125	133	127	106	102	75-125	4	20	
Zinc	ug/L	<11.6	250	250	267	259	106	103	75-125	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: RHL
Pace Project No.: 40243245

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RHL
Pace Project No.: 40243245

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40243245001	**LEACHATE TANK**	EPA 3010A	412836	EPA 6010D	412945
40243245001	**LEACHATE TANK**	EPA 7470	413516	EPA 7470	413556

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 10243245

ALL SHADED AREAS are for LAB USE ONLY

Company: TRC	Billing Information: 708 Heartland Trail Suite3000 madison WI 53717
Address: ~~10 Centurion~~ 708 Heartland Trail	
Report To: Andrew Stehn	Email To: astehn@trcompanies.com
Copy To: —	Site Collection Info/Address: middleton
Customer Project Name/Number: RHL	State: WI County/City: Dane/middleton Time Zone Collected: [ ]PT [ ]MT [X]CT [ ]ET
Phone: Email:	Site/Facility ID #: Refuse Hideaway LF Compliance Monitoring? [X] Yes [ ] No
Collected By (print): John Koel/Ko	Purchase Order #: Quote #: 457573 pH 2 DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: ____ [ ] Hold: ____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [X] No Analysis: ____

Container Preservative Type **: 1 | Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: metals	Lab Profile/Line / Lab Sample # / Comments
Leachate Tank	WW	Grab	4/8/22	9:30	—	—		1	X	04

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: ____			
Sample pH Acceptable	Y	N	NA
pH Strips: ____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: ____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards: Sample is leachate.

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2764024

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ____
Cooler 1 Temp Upon Receipt: NA oC
Cooler 1 Therm Corr. Factor: ____ oC
Cooler 1 Corrected Temp: NA oC
Comments:

Relinquished by/Company: (Signature) TRC	Date/Time: 13:00 4/8/22	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time: 4/11/22 1025	Received by/Company: (Signature)	Date/Time: 4/11/22 1025
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Sample Preservation Receipt Form

Client Name: TRC Project # UO243245

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☐N/A Initial when completed: CAS Date/ Time:

Lab Lot# of pH paper: 100312 Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	Vials: VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																																2.5 / 5 / 10
002																																2.5 / 5 / 10
003																																2.5 / 5 / 10
004																																2.5 / 5 / 10
005																																2.5 / 5 / 10
006																																2.5 / 5 / 10
007																																2.5 / 5 / 10
008																																2.5 / 5 / 10
009																																2.5 / 5 / 10
010																																2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																					CAS											2.5 / 5 / 10
016																																2.5 / 5 / 10
017																					4/11/22											2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☑N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40243245

40243245

Client Name: TRC

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 776533033940

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - NA **Type of Ice:** (Wet) Blue Dry None ☐ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: NA /Corr:

Temp Blank Present: ☐ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 4/11/22 /Initials: CM

Labeled By Initials: NK

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. pg # CM 4/11/22
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☑Yes ☐No ☐N/A	12.
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

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