La Crosse County Landfill Complex and Disposal Facility, La Crosse, Wisconsin

2024 Annual WDNR Report

LA CROSSE COUNTY
Exceptional services. Extraordinary place.

Solid Waste Department

March 1st, 2025

RE: 2024 Annual WDNR Report
La Crosse County Landfill Complex and
Disposal Facility, La Crosse, Wisconsin

Mr. Colin Maus, Waste Management Engineer
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711-5367

Dear Mr. Maus:
The La Crosse County Solid Waste Department is submitting this 2024 Annual WDNR Report for the La Crosse County Landfill (WDNR License No. 3253) in accordance with Condition #41 of the May 24, 2023 Conditional Plan of Operation (POO) Approval for the North Expansion Plan of Operation, License No. 3253. This report also addresses inspection and reporting requirements outlined in previous approvals, that have not been rescinded, or formally referenced in the May 24, 2023 POO approval.

This annual report generally follows the format outlined in Condition #41 of the May 24, 2023 POO. The additional inspection and reporting requirements outlined in previous approvals are referenced in Section 11. The 2024 Annual Compliance Certification was submitted to the WDNR on February 10th and is attached for your reference.

Please contact the undersigned if you have any questions regarding this report.

Sincerely,

Jadd Stilwell, Director
La Crosse County Solid Waste Department

Enclosures
cc: Brian Kent, SEH

hbh
document6

3200 Berlin Dr.
La Crosse, WI 54601-3200

608-785-9572 Phone
608-785-6160 Fax
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LA CROSSE COUNTY
Exceptional services. Extraordinary place.

Solid Waste Department

February 10th, 2025

RE: La Crosse County Solid Waste Department
2023 Compliance Certification

Colin Maus
Wisconsin Department of Natural Resources
FITCHBURG SERVICE CENTER
3911 Fish Hatchery Road
Fitchburg, WI 53711-5367

The purpose of this letter is to document the compliance status of the La Crosse County Landfill (FID 632063630), La Crosse County Intermediate C&D Landfill (FID 632075730), and La Crosse County Small Sized C&D Landfill (FID 632070010) during calendar year 2023. This certification is prepared in accordance with s. NR506.19(1) Wisconsin Administrative Code and relates to the following facilities:

- Monitoring ID #3253; MSW Landfill
- Monitoring ID #4317; Ash Monofill
- Monitoring ID #3846; Intermediate C&D Landfill
- Monitoring ID #3454; Small Sized C&D Landfill
- Monitoring ID #2627; Relocated MSW Landfill

On behalf of La Crosse County, I assert that I am aware of approved plans, WDNR conditions of approval, and applicable solid waste statutory and administrative rules for the above referenced facilities. To the best of my knowledge, information and belief, the above referenced facilities are in substantial compliance with approved plans and requirements.

Should you have any questions or issues, please contact me at 608.785.9769 to discuss.

Sincerely,

Jadd Stilwell
La Crosse County Solid Waste, Director

3200 Berlin Dr.
La Crosse, WI 54601-3200

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La Crosse County Landfill Complex and Disposal Facility, La Crosse, Wisconsin

2024 Annual WDNR Report

Prepared for Wisconsin Department of Natural Resources

1 Introduction and Purpose

La Crosse County owns and operates an integrated waste management system on approximately 320-acres located partially in the City of La Crosse and the City of Onalaska. The current landfill are located in portions of the Northeast, Southeast, Southwest, and Northwest 1/4 of Section 12, T16N, R7W, Cities of La Crosse and Onalaska, La Crosse County, Wisconsin. The integrated waste management system includes, but is not limited to:

- An approximate 52-acre municipal solid waste landfill, with a current approximate design capacity of 8.78 million cubic yards (WDNR License No. 3253)
- A closed 6-acre Ash Monofill (291,000 cubic yards) (WDNR License No. 4317)
- A closed intermediate sized (250,000 cubic yard) C&D Landfill (WDNR License No. 3846)
- A closed small sized (50,000 cubic yard) C&D Landfill (WDNR License No. 3454)
- A former exhumed and relocated natural attenuation landfill (WDNR License No. 2637)
- A household hazardous materials (HHM) program and facility
- Materials processing pad for diversion of asphalt shingles, clean wood, used concrete and bituminous
- Public/private partnership with Xcel French Island RDF (French Island RDF) facility for waste processing to produce refuse derived fuel (RDF) for incineration and energy production
- Public/private partnership with Gundersen Lutheran for utilization of landfill gas (LFG) to produce heat and electricity for their Onalaska Campus.

The closed and exhumed landfill (License No. 2637) was the initial landfill operated at the site beginning in the early 1970's until 1991. The current MSW Landfill (License No. 3253) opened in 1991 and included six separate phases/cells with a design capacity of 1.84 million CY. A March 2003 Plan Modification combined the Phases V and VI into a single, Phase V. Phases I and II were constructed with a 5-foot-thick clay liner with full basin lysimeters lined in 60-mil high density polyethylene (HDPE). Subsequent phases III through V were constructed with 4-ft thick composite clay and 60-mil HDPE liners. Ash from the French Island RDF facility was placed in a designated ash disposal area of Phase I. The final phase, Phase V, was constructed and approved for waste placement in 2004.

A horizontal and vertical expansion was approved in 2006, which included five liner construction sequences and added 3,853,000 CY of air space (referred to as the North Expansion). Due to groundwater quality impacts associated with the former unlined landfill, the North Expansion included additional air space to exhume and relocate the unlined landfill contents into the MSW

landfill, which included a compliant liner and leachate collection system. The North Expansion also included the permitting and construction of a separate Ash Monofill (License No. 4317), and ash from Phase I was relocated to the Ash Monofill.

During 2006 and 2007, following approval of the Feasibility Report and Plan of Operation for the North Expansion, La Crosse County constructed the Ash Monofill and Phase VI of the MSW landfill. RDF ash from Phase I of the MSW landfill was exhumed and relocated to the new Ash Monofill during 2006. Excavation of the unlined landfill and placement into Phase VI and portions of Phases I through V occurred between 2006 and 2008. As of 2018, the last landfill cell (Phase VIII Module 2) was constructed.

A second horizontal and vertical expansion was approved in 2023, which included 4 liner construction sequences and added 3,085,865 CY of air space (referred to as the Phase 2 North Expansion). The La Crosse County Landfill is currently operating in accordance with the Plan of Operations Approval issued by the Wisconsin Department of Natural Resources (WDNR) on May 24, 2023. La Crosse County has reviewed this, and other applicable WDNR approval conditions to determine the necessary annual report contents. An annual report shall be submitted to the department no later than April 30th of each year that summarizes the below activities from the previous calendar year.

2 General

Provide one or more plan view drawings.

2.1 NR 506.19(2)(a)

The landfill development and filling status information specified in s. NR 506.19(2)(a), Wis. Adm. Code on a topographic site map depicting all landfill phases.

Response: Refer to Appendix A-1.

2.2 Environmental Monitoring Points

All existing environmental monitoring points and systems on a color-coded site map.

Response: Refer to Appendix A-2.

2.3 NR 506.19(1) Wis. Adm. Code

A copy of the compliance certification required by s. NR 506.19(1), Wis. Adm. Code.

Response: Refer to compliance certification page provided after document cover letter.

2.4 NR 506.16 Wis. Adm. Code

Copies of random load inspections required in s. NR 506.16, Wis. Adm. Code.

Response: Refer to Appendix A-3.

3 Operations

The actions used to minimize windblown debris.

3.1 Wind Speed

Dates when the wind speed was greater than or equal to 30 mph at the working face.

Response: For 2024 wind speed was not greater than or equal to 30 mph at the working face for any day the facility was open. Refer to Appendix B-1 for a copy of the form used to track if/when wind speed exceeds 30 mph.

3.2 Shut down due to wind

Dates when the landfill was shut down due to wind.

Response: No closures were required in 2024 due to windspeed.

3.3 Off-Site Debris Collection

Dates when the landfill collected debris off-site.

Response: In 2024, no off-site collection events were required. On-site debris management techniques and local tarping ordinance were appropriate in preventing windblown debris from leaving the site.

4 Special Waste and Alternate Daily Cover (ADC)

4.1 Daily Mixing Ratios

Daily mixing ratios of each sludge waste to municipal solid waste as required by s. NR 506.14(2)(e), Wis. Adm. Code, unless the small quantity exemption requirements of s. NR 506.14(1), Wis. Adm. Code are met.

Response: The facility accepts very small volumes of sludge from approved generators on an annual basis. Annual sludge acceptance for 2024 totals 1,279.08 tons of material equating out to 1.01 percent of total waste volumes. Sludge average daily mixing ratio equals 487.43 tons of waste with 4.9195 tons of sludge or a 99.08:1 ratio. Refer to Appendix C-1 for exact tonnage by waste category.

4.2 Total Tonnage of Special Wastes

Total tonnage of special wastes, and tabulation by waste category for each of the waste types in the special waste plan which were accepted for disposal the previous calendar year.

Response: Refer to Appendix C-1. All waste types are provided by WDNR Code and waste description.

4.3 Computation of the Total Volume of all Disposed Wastes

Computation of the total volume of all wastes disposed at this facility, and the proportions of special wastes compared to the total volume of landfill filled.

Response: Refer to Appendix C-1 for waste detail. Computation of total waste to special wastes is 6.26:1 or 15.98 percent.

4.4 ADC Tonnage

Tonnage for each waste used as ADC or other approved fee exempt use (specify use), the ratio of waste to ADC by volume or weight, and a discussion of any changes and/or problems encountered with the use of the wastes within the landfill.

Response: Refer to Appendix C-1 for waste detail.

Ratio of Waste to Alternative Daily Cover by Weight

The total tonnage of waste disposed in the site in 2024 was 96,349.21 tons. The total amount of ADC (by weight) used in 2024 was 14,529.26 CY. Therefore, the waste to ADC ratio was approximately 10.47:1 or 9.55 percent.

4.5 Test Results for specific ADC Materials

Test results in table format for specific ADC materials, including shredder fluff and construction and demolition fines.

Response: Laboratory analytical reports for testing of ADC materials during 2024 are included in Appendix C-2.

4.6 Other Additional Conditions

Applications for Alternative Daily Cover: The alternative daily cover materials were used for daily and temporary intermediate cover internal to the landfill, construction of containment berms, dikes to confine working areas, road base for internal access roads, and sub-base for turnaround and unloading areas.

Discussion of any changes and/or problems encountered with the use of the wastes within the landfill: No significant problems occurred during use of approved beneficially reused materials in landfill construction and operations at the La Crosse County Landfill during 2024.

No wastes failing to meet acceptance criteria were disposed of at the site.

Rejected Wastes: Four requested special waste jobs were rejected in 2024.

Bauer Built Durand WI, the Zinc results (430 mg/L) exceed the RCRA maximum allowable amount for disposal.

Best Custom Homes, 939 Redfield Street La Crosse WI. Lead results (2160 ppm) exceed the RCRA maximum allowable amount for disposal.

Northpointe Development, Viroqua WI due to waste being from outside our service area and volume requested for disposal. Material was not suitable for ADC.

Rockland Flooring Rockland WI, Ash pH results (13.5) exceed the RCRA maximum allowable amount for disposal.

Deviations from Acceptance Criteria: There were no deviations from acceptance criteria in 2024.

Problems Encountered Implementing Special Waste Management Plan: No problems were encountered when implementing the plan.

5 Gas Extraction System

5.1 Results of surface emission monitoring

Results of surface emission monitoring, to include supporting narrative, a map identifying problems areas, recent calibration data for portable analyzer, as well as meteorological conditions at the time of inspection, including: temperature, barometric pressure trend, average wind speed, wind direction and sky conditions. The report shall describe remedial measures taken to correct areas of landfill gas emissions at or above 500 ppm methane above background or areas with stressed vegetation or other physical signs of landfill gas emergence. The report shall include construction documentation in accordance with ch. NR 516, Wis. Adm. Code for any repairs conducted on the clay or geosynthetic layers of final covered areas.

Response: Annual surface emission monitoring completed during October 2024 did not indicate an exceedance of surface emission limits. Refer to Appendix D-1 for a copy of the Annual Surface Emissions Monitoring Report completed in 2024.

5.2 Recording Periods of Shutdown

Records of periods of shutdown of the gas extraction system, length of time of shutdown, and corrective action for the system or individual extraction wells.

Response: See Appendix D-2. La Crosse County Solid Waste, in partnership with Gundersen Health System, continues operation of the joint G2E and thermal recovery project which began in January of 2012. Collected landfill gas is either diverted to Gundersen's landfill gas to energy system, or combusted at an onsite candlestick flare if Gundersen is not operating.

5.3 Extraction Wells Maintenance

Any maintenance, cleaning, repair, or replacement of extraction wells, header or lateral lines, gas condensate knock-outs, blower or gas combustion equipment components, or valve assemblies.

Response: Refer to Appendix D-3 for information recorded in the Malfunction Prevention and Abatement Plan with associated reporting sheets and Semi-Annual Monitoring Reports as part of the Air Permit submittal requirements.

5.4 Gas Extraction System Assessment

An assessment of the performance of the gas extraction system, including liquid levels in the gas extraction wells, the condition of each gas well and identification of any wells which need to be replaced or that have been replaced, the quality and quantity of gas and gas condensate produced from the facility, and the removal of volatile organic compounds and other substances in the gas and gas condensate. Also, include a summary of gas wells experiencing high leachate head levels and any corrective actions taken.

Response: The gas extraction system functioned as designed in 2024 with only minimal routine and preventative maintenance required to maintain operation. La Crosse County utilizes a dual system for the collection of landfill gas with a Unison Compressor Skid capturing over 98% of the annual landfill gas processed at the site. Additionally, this site operates and maintains a John Zinc bio-gas flare skid as a back-up unit. Overall gas collection volume was up 7.1 percent

compared to 2023 with 123,119,017 scf of landfill gas being collected with an average methane content of 41.89 percent in 2024.

Gas wells performed as designed with only minor preventative maintenance being performed in 2024. Maintenance included inspections, tightening of hose clamps, temperature gauge replacements and the replacement of one Accu-flow well head control. Additional maintenance was performed on the compressor that supports the pneumatic pumping system for gas wells, 14-17. Percent of screen open (liquid levels) for all vertical wells averaged ~90 percent open in 2024.

Gas condensate produced by the system is not metered to discharge. Since the majority of the landfill gas is collected by the Unison skid; the projected manufacturing rate of liquid from gas processed through the conditioning system is approximately 11 gallons/24 hours or 0.458 gallons per hour. Based on the hours of gas collection (8096 hour) and projected capture rate of 0.458 gallons per hour it is estimated that the facility produced 3,707.97 gallons of gas condensate. Analytical results from gas condensate testing results are summarized below.

LFG Condensate (WDNR Point ID. 454)	
May 2024 Detection Summary	**November 2024 Detection Results**
Sodium 0.99 mg/L	Sodium 1.1 mg/L
Total Hardness by 2340B 7.5 mg/L	Total Hardness by 2340B 5.7 mg/L
Total Suspended Solids 606 mg/L	Total Suspended Solids 72 mg/L
BOD, 5 day 164 mg/L	BOD, 5 day 168 mg/L
Chloride <11.8 mg/L	Chloride 4.6J mg/L
Sulfate <8.9 mg/L	Sulfate 3.4J mg/L
Alkalinity, Total as CaCO3 654 mg/L	Alkalinity, Total as CaCO3 660 mg/L
Nitrogen, Ammonia 198 mg/L	Nitrogen, Ammonia 190 mg/L
Chemical Oxygen Demand 692 mg/L	Chemical Oxygen Demand 317 mg/L

Refer to Appendix D-4 for monthly gas balance sheets.

5.5 Other Additional Conditions

The below table details landfill gas extraction systems extracted gas volumes for 2024.

SCF to Flare	SCF To Pipeline	Combined SCF	% Flow Time to Engine
13,566	9,172,881	9,186,447	80.86%
7,871	10,697,794	10,705,665	99.58%
39,600	10,802,705	10,842,305	89.69%
0	11,375,138	11,375,138	99.75%
113,441	11,610,972	11,724,413	97.88%
280,240	7,978,262	8,258,502	75.26%
125,951	10,149,772	10,275,723	96.46%
45,047	9,235,517	9,280,564	80.36%
895	8,412,197	8,413,092	80.00%
48,170	11,544,187	11,592,357	97.13%
0	10,696,782	10,696,782	99.93%
114,079	10,653,950	10,768,029	93.54%
Average/Month	10,194,180	10,213,726	90.87%
Total	122,330,157	123,119,017	

6 Groundwater

A summary of groundwater sampling results that exceed any approved PAL or ACL or ch NR 140, Wis. Adm. Code, PAL or ES (where ACLs are not approved), and an assessment of the cause and significance of the exceedances.

Response: Refer to Appendix E-1 and E-2. Appendix E-1 contains a table summarizing the existing NR140 Wis Adm. Code exemptions for the Active MSW, and a separate table summarizing the existing, approved PALs and ACLs for the Active MSW. Appendix E-2 contains a table summarizing the PAL and ACL exceedances measured from the Active MSW monitoring wells during 2024 and a trend analysis conducted on the monitoring wells that had exceeded a groundwater quality standard during 2024.

6.1 Assessment of Increased Concentration Trends

An assessment of any increasing concentration trends of monitored parameters in groundwater over the past 4 or more sampling events.

Response: Refer to Appendix E-2. Appendix E-2 includes a spreadsheet summarizing the trend analysis conducted on the monitoring wells that had exceeded a groundwater quality standard during 2024. Trend analysis was conducted on the past four sampling events for the indicator parameters that had exceeded a site specific PAL. For parameters with groundwater quality health standards, the trend analysis included all available data for that specific parameter. The trend analysis involved plotting individual parameter results against a linear trend line. For parameters with increasing trends, further discussion of cause, significance and context is included.

6.2 Groundwater Elevation Contour Map

A groundwater elevation contour map with a summary of any significant change in flow patterns compared to previous flow patterns, unless otherwise approved by the department in writing.

Response: Refer to Appendix E-3.

6.3 Environmental Monitoring Devices Summary

A summary of the status and condition of all environmental monitoring devices including

a. A list of all monitoring devices that did not function properly or were damaged.

b. A description of repairs, replacements, or modifications completed to regain function of the monitoring device.

Response: Refer to Appendix E-4 for a summary of condition assessment for all site monitoring devices.

6.4 Summary of Gas Monitoring Results

A summary of gas monitoring results and any remediation required under s. NR 507.22(1)(c), Wis. Adm. Code.

Response: Refer to Appendix E-5

6.5 Summary of Anticipated Significant Monitoring Devices

A summary of anticipated significant monitoring device activities for the upcoming year, such as installations, abandonments, or monitoring changes that may be proposed.

Response: Anticipating installation of STOCs in Phase VIII Mod A in 2025. Details will be submitted for approval prior to installation or modification. Additionally, with the scheduled construction of Phase IX MOD A sub-base in 2025, we are anticipating removal of the following groundwater monitoring points: MW-83, MW-83A, SW-3 and MW-65.

7 Leachate Collection and Recirculation

7.1 Leachate Collection Line

The leachate collection line video camera inspection required by s. NR 506.07(5)(e), Wis. Adm. Code or the date the next leachate collection line video camera inspection will occur.

Site	Date of Latest Televising of Lines	Due Date of Next Line Televising Event
MSW Site (License No. 3253):	2024	2029
Phase V	2020	2025
Phase VI	2022	2027
Phase VII	2022	2027
Phase VIII	2023	2028
C & D Landfill	Not Applicable	Not Applicable
Ash Monofill (License No. 4317)	2020	2025

When Televising is required, Speedy Clean works with a unit called the Jet-cam. This unit can travel up to 800 feet in lines as small as 2 inches and lines up to 12 inches. The water jet will

propel the camera down the line providing safer travel in landfill atmospheres. Flash drive of all televising will be available to WDNR upon request.

7.2 Cleaning and Identification

The leachate collection line cleaning and identification of any blockages or impedances within lines required under s. NR 506.07(5)(f)-(g), Wis. Adm. Code.

Response: Refer to Appendix F-1 for line jetting report which details small areas of blockages and impedances. La Crosse County contracted for additional jetting and cleaning time to rectify impacted areas.

7.3 Documentation of Monitoring or Pressure Testing

Documentation of monitoring or pressure testing leachate transfer lines and manhole secondary containment systems.

Response: In 2024, pressure testing requirement is not applicable. Refer to Appendix F-2 for monthly and annual manhole secondary containment inspections.

7.4 Leachate Recirculation Annual Report

The annual report for leachate recirculation in accordance with s. NR 506.135(5), Wis. Adm. Code including a summary and tabulation of monitoring required within ss. NR 507.215(1) – (4), Wis. Adm. Code.

Response: Since the Leachate Recirculation Plan (LRP), Organic Stability Plan (OSP), and Research, Development and Demonstration (RD&D) Plan utilize the same general methods and share the same goal of increasing the moisture content of the waste to promote organic stability, evaluation of the progress for each are monitored in conjunction with one another. Refer to Appendix G-1 for further data and discussion on leachate recirculation performed during 2024.

7.5 Other Additional Conditions

The quantity of leachate produced and sent to treatment in 2024 was 6,024,709 gallons.

Issues related to the system include additional resources and maintenance with the gravity flow Parshall flume in the FM-2 manhole metering point. Impacts from the flume buildup and associated maintenance events resulted in data points not in line with historical and expected leachate volumes.

8 Organic Stability

8.1 Performance Evaluation

An evaluation of the performance and a report of the implemented landfill organic stability plan as required by s. NR 514.07(9)(d), Wis. Adm. Code.

Response: Since the LRP, OSP, and RD&D Plan utilize the same general methods and share the same goal of increasing the moisture content of the waste to promote organic stability, evaluation of the progress for each are monitored in conjunction with one another. Refer to Appendix G-1 for further data and discussion on organic stability goals and performance measured during 2024.

8.2 5 Year Report

Every 5 years, a report describing the evaluation of the plan and likelihood that the plan will enable the landfill to reach the organic stability goals as required by s. NR 514.07(9)(e), Wis. Adm. Code.

Response: The April 2022 OSP approved as part of the Phase 2 North Expansion Plan of Operation. The 5-year update as required by NR 514.07(9)(e) is anticipated to be completed as part of the 2027 annual report.

9 Research, Development and Demonstration (RD&D)

9.1 Approved RD&D Annual Report

An annual report in accordance with the approved research, development and demonstration plan and s. NR 514.10(1)(f), Wis. Adm. Code.

Response: Since the LRP, OSP, and RD&D Plan utilize the same general methods and share the same goal of increasing the moisture content of the waste to promote organic stability, evaluation of the progress for each are monitored in conjunction with one another. Refer to Appendix G-1 for further data and discussion the progress of RD&D performed during 2024.

10 Other Applicable Approvals

10.1 RDF Fly Ash Management

10.1.1 Ash Overlay Location

A figure showing areas of ash placement and the quantities of ash placed shall be provided in each annual report required as Condition 11 of the 2006 Conditional Plan of Operation Approval.

Response: Refer to Appendix H-1 (Air Space Calcs). Please note this document also provides a summary of air space consumption and effective density calculations for MSW and special waste.

10.1.2 Ash Overlay Construction Documentation

Conditions of Approval from the January 15, 2015 Conditional Plan Modification Approval to place RDF Fly Ash in Phases III, IV, V including drawings that identify areas of ash placement and the thickness of ash.

Response: Refer to Appendix H-1, (Air Space Calcs).

10.2 Treatment of Contaminated Soil

All aspects of the construction, operation, monitoring, and closure of this facility shall be performed in accordance with the plan of operation, the requirements of NR 500 to 520, Wis. Adm. Code, and the conditions of this approval. In the case of any discrepancies between the conditions of this approval and the approved plans, the conditions of this approval shall take precedence (Treatment of Contaminated Soil Approval, dated August 14, 1996.)

Response: Refer to Appendix H-2, Annual Bio-pile Report.

10.3 Asphalt Shingle Management

Condition No. 10 in the January 24, 2008 Low Hazard Exemption and Condition No. 9 in the February 4, 2008 Approval for Exemption from Solid Waste processing rules pertaining to residential asphalt shingles. Note: Both of these conditions are identical.

Conditional Modification to the Exemption from Solid Waste Processing Rules for Recycling Asphalt Shingles dated January 17, 2013.

Response: Refer to Appendix H-3, Annual Shingle Report

10.4 Anticipated Construction Events

This report summarizes the anticipated liner and final cover construction events for the La Crosse County Complex during 2024. This report has been prepared to satisfy Condition No. 11(f) of the February 10, 2006 Plan of Operation Approval from the WDNR.

Based on the expansion aproval – Phase IX Mod A subase preparation, including necessary bedrock removal within 2 feet of the bottom of liner, soil compaction requirements (along with decommissioning of monitoring points identified in section 6.5) and development of a new site access road to facilitate Phase IX Mod A cell construction in 2026.

Appendix A

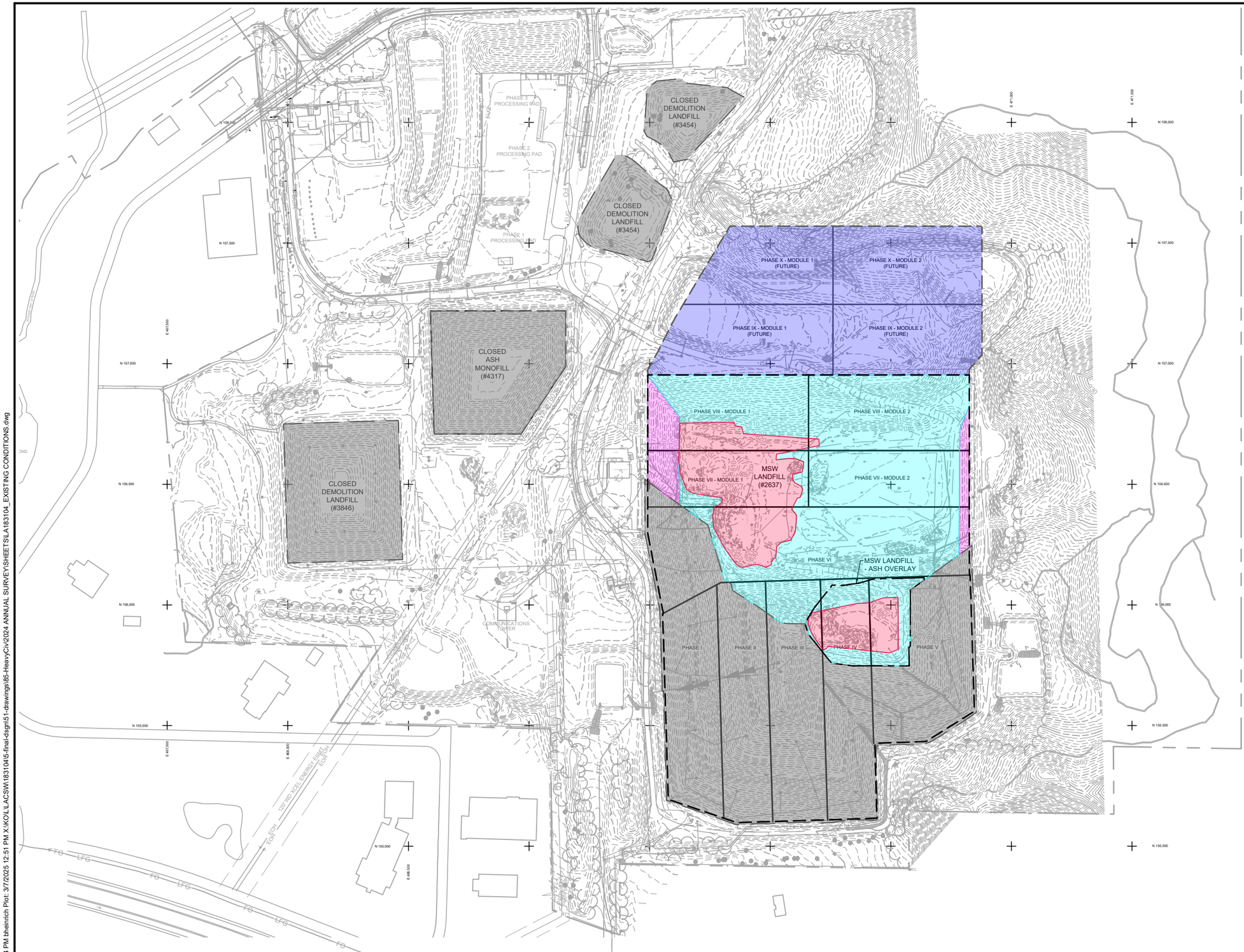
General Information

Appendix A

General

A-1 – Landfill Development Plan
A-2 – Environmental Monitoring Point Maps
A-3 – Random Load Inspections

A-1 – Landfill Development Plan



NOTES:

1. CONTOUR INTERVAL IS 2-FOOT.
2. EXISTING GRADE CONTOURS WITHIN WASTE LIMITS PRODUCED BY MOST RECENT SURVEY BY PARAGON ASSOCIATES ON DECEMBER 31, 2024.

LEGEND: FILLING STATUS AND WASTE GRADE

- ACTIVE, BELOW FINAL GRADE
- INACTIVE, BELOW FINAL GRADE (NO FINAL COVER)
- ABOVE FINAL GRADE - 5% OVERFILL (NO FINAL COVER)
- CLOSED, WITH FINAL COVER
- FUTURE DEVELOPMENT

LEGEND: GENERAL

- EXISTING GRADE - MAJOR CONTOUR
- EXISTING GRADE - MINOR CONTOUR
- WASTE LIMITS
- PHASE BOUNDARY
- EXISTING FINAL CLOSURE LIMITS
- WASTE LIMITS (FUTURE)
- PHASE BOUNDARY (FUTURE)
- APPROXIMATE PROPERTY LINE
- MSW LANDFILL - ASH OVERLAY LIMITS

N

200 0 200 400
scale 100 feet

SEH Project	LACSW 183104
Drawn By	BRH
Designed By	TTR
Checked By	TTR

Rev.#	Revision Issue Description	Date

Rev.#	Revision Issue Description	Date

SEH
PHONE: 608.782.3161
329 JAY STREET, SUITE 301
LA CROSSE, WI 54601-4034
www.sehinc.com

PLANS PREPARED FOR:

LA CROSEE SOLID WASTE DEPT
3200 BERLIN DRIVE
LA CROSSE, WI 54601

LA CROSEE COUNTY LANDFILL
2024 ANNUAL REPORT

EXISTING CONDITIONS AND FILLING STATUS

1
of 1

Save: 3/7/2025 12:34 PM bheinrich Plot: 3/7/2025 12:51 PM X:\KOL\LACSW\183104\5-final-dsgn\51-drawings\85-HeavyCiv\2024 ANNUAL SURVEY\SHEETS\LA183104_EXISTING CONDITIONS.dwg

A-2 – Environmental Monitoring Point Maps

Operation and Maintenance Activities

Location	Inspection Schedule	Maintenance Schedule
G2E Building and Operation	Daily/Weekly	Check operation, oil level, equipment operation, LFG quality
Leachate Extraction Buildings Storage Tank	Monthly	Per Operational and Maintenance (O&M) Manual
Leachate Collection System Line Cleaning	Annually	Annually
Leachate Collection System Line Televising	Every 5 years after initial televising following construction	Every 5 years after initial televising following construction
Leachate Collection System Manholes	Monthly	Cleaned as needed
Secondary Containment Systems	Monthly	As necessary
Gas Extraction Wells	Monthly	Per Operational and Maintenance (O&M) Manual
Leachate Head Wells	Quarterly	Check conditon of protector pipe and surface seal
Leachate Extraction Building	Monthly	Clean as needed, maintain pumps and flow meters per manufacturer's recommendation
Leachate Extraction Wells	Daily	Confirm operation
Erosion/Settlement	Quarterly	Quarterly Inspect for erosion and condition of vegetation
Groundwater Monitoring Wells	Semi-annually	Check condition of protector pipe and surface seal
Chain Link Fence/Windblown Debris	Weekly	Clean-up adjacent properties with 72 hours of notification
Vermin, Rodent and Insect Control	As necessary	Refer to Wildlife Management Plan
Water and Drainage Control	Within 24-hrs of 1-inch rain event	Repair eroded and/or remove sediment within 7 days of the occurrence
Weed and Grass Control	As necessary	Mow at least twice annually
Odor Control	As necessary	As necessary, includes daily cover, no surface ponding, venting and operating flares
Random Waste Inspections	One/5,000 tons of solid waste, min. one inspection per month	
Dust Control	Sweep access road, provide water truck daily	
Settlement Hubs	Survey Annually	Survey Annually

Leachate

Monitoring Points			Parameters	Sample Interval	
Leachate Head Wells			Leachate Elevation	Q	February, May, July & November
LHW-8A	LHW-9A	LHW-10A	Leachate Depth	Q	
LHW-1B	LHW-2B	LHW-3B	Leachate Elevation	M	See below
LHW-4B	LHW-5B	LHW-6B	Leachate Depth	M	
LHW-7B	LWH-8B	LHW-9B			
LHW-10B					
M= monthly - measure monthly and document as a condition of organic stability plan approval					
Leachate Tank			Leachate Volume Pumped	M	Monthly
			Field pH	SA	May & November
			Field Conductivity	SA	
			BOD5	SA	
			Total Alkalinity	SA	
			Total Chloride	SA	
			Total Suspended Solids	SA	
			Total Hardness	SA	
			Total Sulfate	SA	
			COD	SA	
			Total Sodium	SA	
			Total Cadmium	SA	
			Total Iron	SA	
			Total Lead	SA	
			Total Manganese	SA	
			Total Mercury	SA	
			Total Ammonia Nitrogen	SA	
			Total Kjeldahl Nitrogen	SA	
			VOCs	SA	
			SVOCs	A	May

Lysimeters

Monitoring Points		Parameters		Sample Interval
MH-7	L-3	Lysimeter Discharge (gallons)	M	See below
MH-7	L-3	Field pH	SA	May & November
		Field Conductivity	SA	
		Total Alkalinity	SA	
		Total Chloride	SA	
		Total Hardness	SA	
		COD	SA	
		Total Sodium	SA	
		Total Sulfate	SA	
		Total Kjeldahl Nitrogen	SA	
		VOCs	SA	

MH-7 and MH-8 are full basin lysimeters with discharge flows combined to one conveyance line at JMH-3, which discharges to one flow meter at FM-1. Combine discharge volume from MH-7 and MH-8 are reported under MH-7.

Sample ports or access have not constructed within MH-8; therefore, sample collection from MH-8 is not possible.

The lysimeter beneath Phase 3 not connected to the leachate/exfiltrate conveyance system at MH-9. L-3 is pumped manually as needed.

NOTES:

1. CONTOUR INTERVAL IS 2-FOOT.
2. EXISTING GRADE CONTOURS PRODUCED BY MOST RECENT SURVEY BY PARAGON ASSOCIATES ON DECEMBER 27, 2023.

LEGEND:

- WASTE LIMITS
- PHASE BOUNDARY
- EXISTING FINAL CLOSURE LIMITS
- WASTE LIMITS (FUTURE)
- PHASE BOUNDARY (FUTURE)
- APPROXIMATE PROPERTY LINE
- DESIGN MANAGEMENT ZONE (DMZ)
- VERTICAL EXPANSION LIMITS

EXISTING:

- MW-5B — GROUNDWATER MONITORING WELL / PRIVATE WELL
- MW-11, MW-11A, MW-11B, ABANDONED — ABANDONED GROUNDWATER MONITORING WELL
- SW-2 — SURFACE WATER SAMPLING LOCATION POINT
- LHW-9A — LEACHATE HEAD WELL RISER
- PB — PUMP BUILDING
- JMH-1 — LEAK DETECTION MANHOLE
- GV — GAS VENT
- GW-7 — GAS EXTRACTION WELL
- GMW-3 — GAS MONITORING WELL

FUTURE:

- LHW-9A — LEACHATE HEAD WELL RISER
- PB — PUMP BUILDING
- JMH-1 — LEAK DETECTION MANHOLE
- GW-18 — GAS EXTRACTION WELL
- GMW-6 — GAS MONITORING WELL

LFG Monitoring

Monitoring Points			Parameters		Sample Interval
Existing Gas Probes			% Methane	Q	February, May, July & November
GP-4S	GP-4D	GP-7	% Oxygen	Q	
GP-8R			Ambient Temperature	Q	
GMW-1	GMW-2	GMW-3	Barometric Pressure	Q	
GMW-4	GMW-5		Barometric Trend	Q	
			Ground Conditions	Q	
Proposed To Be Abandoned Gas Probes					
GP-3					
Proposed Gas Monitoring Wells			% Methane	Q	February, May, July & November
GMW-6	GMW-7	GMW-8	% Oxygen	Q	
GMW-9			Ambient Temperature	Q	
			Barometric Pressure	Q	
			Barometric Trend	Q	
			Ground Conditions	Q	
Existing LFG Extraction Wells			% Methane	M	Monthly
GW-1	GW-2	GW-3	% Oxygen	M	
GW-4	GW-5	GW-6	% Carbon Dioxide	M	
GW-7	GW-8	GW-9	Gas Flow Rate (CFM)	M	
GW-10	GW-11	GW-12	Well Head Pressure (in H2O)	M	
GW-13	GW-14	GW-15	Valve Opening (%)	M	
GW-16	GW-17	GW-19	Gas Temperature	M	
GW-20	GW-21	GW-22	Ambient Temperature	M	
GW-26	GW-27	GW-33	Barometric Pressure	M	
STOC-1	STOC-2	STOC-3	Barometric Trend	M	
STOC-4	STOC-5	STOC-6	Ground Conditions	M	
STOC-7	STOC-8	STOC-9	Liquid Level	A	
STOC-10	STOC-11	STOC-12			
STOC-13	STOC-14	STOC-15			
Phase IV CD					
Phase V CD					
Phase VI CD East					
Phase VII CD					
Proposed LFG Extraction Wells					
GW-18	GW-23	GW-24			
GW-25	GW-28	GW-29			
GW-30	GW-31	GW-32			
GW-34	GW-35	GW-36			
GW-37	GW-38	GW-39			
GW-40	GW-41	GW-42			
GW-43	GW-44	GW-45			
GW-46	GW-47	GW-48			
GW-49	GW-50	GW-51			
GW-52	GW-53	GW-54			
GW-55	GW-56	GW-57			
GW-58	GW-59				
(any others installed)					
LFG System Blower			% Methane	M	Monthly
			% Oxygen	M	
			% Carbon Dioxide	M	
			Gas Flow Rate (CFM)	M	
			Header Pressure (in H2O)	M	
Condensate Drip Leg			Field pH	SA	May & November
			Field Conductivity	SA	
			Field Temperature	SA	
			Total Alkalinity	SA	
			Total Chloride	SA	
			Total Suspended Solids	SA	
			BOD5	SA	
			Chloride	SA	
			Total Sulfate	SA	
			COD	SA	
			Total Sodium	SA	
			Total Ammonia Nitrogen	SA	
			VOCs	SA	

Groundwater Monitoring Wells/Piezometers

Well ID			Parameters		Sample Interval
MW-3	MW-3A	MW-5R	Groundwater Elevation	SA	May & November
MW-20	MW-20A	MW-24	Field pH	SA	
MW-24P	MW-30	MW-32	Field Conductivity	SA	
MW-32P	MW-33	MW-33P	Field Temperature	SA	
MW-38	MW-42P	MW-42R	Diss. Alkalinity	SA	
MW-54	MW-54A	MW-55	Diss. Chloride	SA	
MW-55B	MW-56	MW-56B	Diss. Hardness	SA	
MW-57	MW-57A	MW-58	Color, Odor, Turbidity	SA	
MW-58A	MW-64	MW-65	VOC	A	May
MW-65R	MW-75	MW-75A			
MW-76	MW-76A	MW-77			
MW-77A	MW-78	MW-78A			
MW-82	MW-82A	MW-83			
MW-83A	MW-117	MW-118			
MW-119	MW-120	MW-120A			
MW-121					
MW-8	MW-9		Groundwater Elevation	SA	May & November
			Field pH	SA	
			Field Conductivity	SA	
			Field Temperature	SA	
			Diss. Alkalinity	SA	
			Color, Odor, Turbidity	SA	
Subtitle D Wells			Groundwater Elevation	SA	May & November
MW-32	MW-33	MW-42R	Field pH	SA	
MW-118			Field Conductivity	SA	
			Field Temperature	SA	
			Diss. Alkalinity	SA	
			Diss. Chloride	SA	
			Diss. Hardness	SA	
			Color, Odor, Turbidity	SA	
			VOC	SA	
Proposed To Be Abandoned Wells					
MW-83	MW-83A	MW-65			

Private Wells

Well ID	Parameters		Sample Interval
Walz Well (Old)	Field pH	A	May
Walz Well (New)	Field Conductivity	A	
Splander Well	Field Temperature	A	
	VOC	A	

Surface Water Monitoring

Monitoring Points			Parameters		Sample Interval
SW-3			Surface Water Elevation	Q	February, May, July & November
			Field pH	Q	
			Field Conductivity	Q	
			Field Temperature	Q	
			Total Alkalinity	Q	
			Total Chloride	Q	
			Total Hardness	Q	
			Total Iron	Q	
			Color, Odor, Turbidity	Q	
SW-1	SW-2	SW-4	Field pH	DE	See below
			Field Conductivity	DE	
			BOD5	DE	

DE = discharge event - after each major precipitation event resulting in surface water discharge each location shall be inspected, sampled, and documented.

SEH Project	LACSW 176666
Drawn By	NRP
Designed By	TTR
Checked By	BLK

Rev.#	Revision Issue Description	Date

Rev.#	Revision Issue Description	Date

SEH
PHONE: 608.782.3161
329 JAY STREET, SUITE 301
LA CROSSE, WI 54601-4034
www.sehinc.com

PLANS PREPARED FOR:

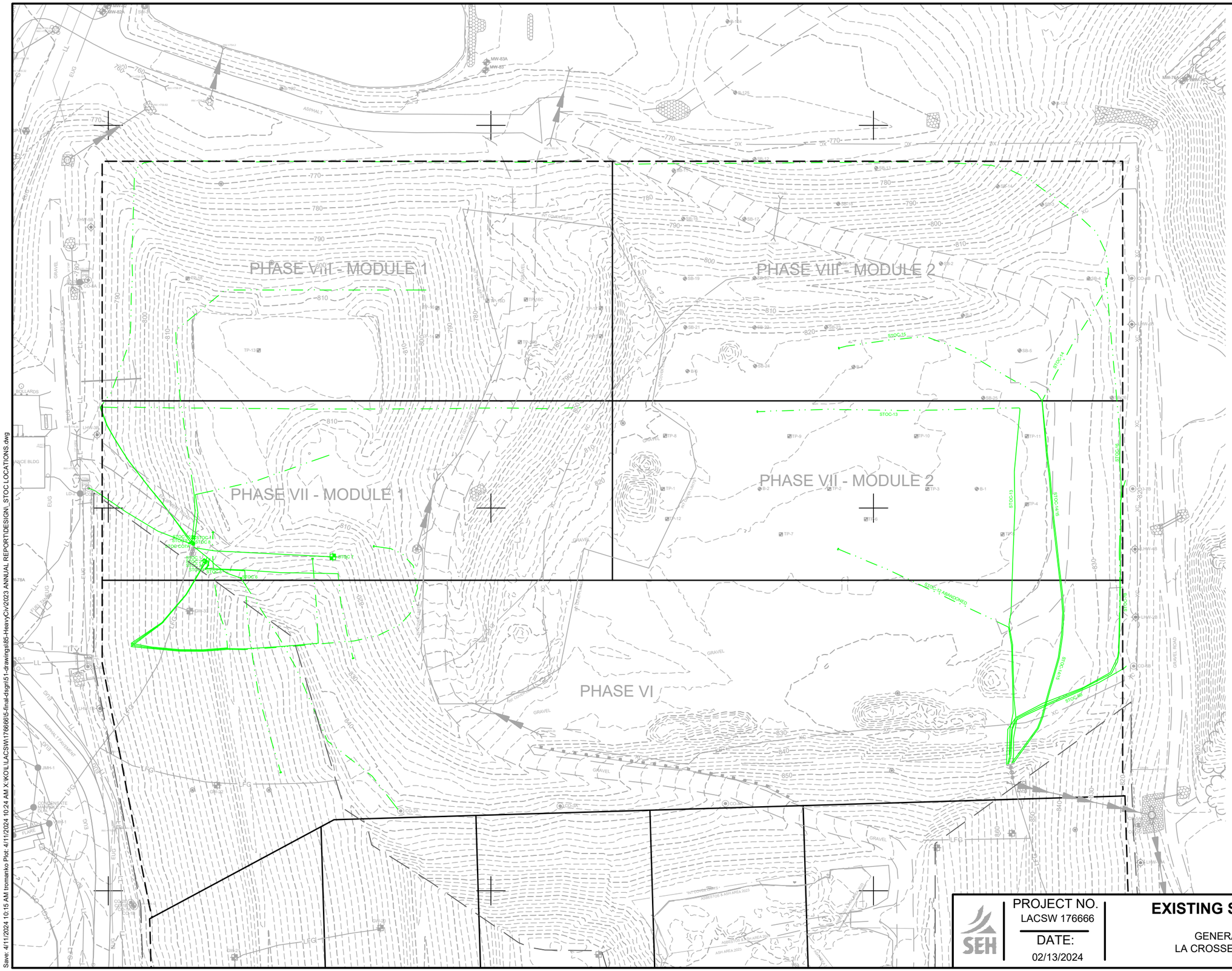
LA CROSSE SOLID WASTE DEPT
3200 BERLIN DRIVE
LA CROSSE, WI 54601

LA CROSSE COUNTY LANDFILL
2023 ANNUAL REPORT

ENVIRONMENTAL MONITORING PLAN

1
of 1

Save: 4/8/2024 1:30 PM npeterson Plot: 4/8/2024 1:31 PM X:\KOL\LACSW\176666\5-final-dsgn\51-drawings\85-HeavyCiv\2023 ANNUAL REPORT\SHEETS\LA176666_ENVIRO MON PLAN.dwg



NOTES:

1. CONTOUR INTERVAL IS 2-FOOT.
2. EXISTING CONTOURS PRODUCED FROM MOST RECENT SITE SURVEY PERFORMED BY PARAGON ASSOCIATES ON DECEMBER 27, 2023.

LEGEND:

- 820 — MAJOR GROUND CONTOUR
- MINOR GROUND CONTOUR
- PHASE BOUNDARY
- APPROVED LIMITS OF WASTE
- EXISTING STOC PIPE

SEH	PROJECT NO. LACSW 176666 DATE: 02/13/2024	**EXISTING STOC LOCATION** GENERAL ASSISTANCE LA CROSSE COUNTY LANDFILL

FIG 1

Save: 4/11/2024 10:15 AM tromanko Plot: 4/11/2024 10:24 AM X:\KOL\LACSW\176666\5-final-dsgn\51-drawings\85-HeavyCiv\2023 ANNUAL REPORT\DESIGN_STOC LOCATIONS.dwg

A-3 – Random Load Inspections

La Crosse County Waste Inspection Reporting Form

Date: 1/23/2024 Time: 1:30 PM Inspected by: Jackie Davis

Hauler: Hilltopper Refuse & Recycling

Truck Number: 58

WDNR License Number: 13066

Vehicle License Number: MC12337

Origin of Load: Municipal Solid Waste

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☒ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (5)

Load Inspection Photo #1

Load Inspection #2

Load Inspection #3

Load Inspection #4

Load Inspection #5

Scale Ticket

Solid Waste Department
LA CROSSE COUNTY
3240 Berlin Drive
La Crosse, WI 54601

DUPLICATE TICKET reprinted by bharvey at 13:15:06 on 02/05/24 **

Account # 10007
Hilltopper Refuse & Recycling

W6833 Industrial Blvd
Onalaska WI 54650

Site 001
Ticket 00272666
Date In 01/23/24
Time In 13:31:33
Date Out 01/23/24
Time Out 13:42:19

Weigh master: Scale 10

Ref.

Origin LACROSSECOUNTY,WI

Grid

DESCRIPTION				
Scale 3		37740 LB	Vehicle HIL58	
Scale 2	Tare Wt.	34920 LB	Roll-Off	
Net Wt.		2820 LB	TON	1.41

Municipal Solid Wast @ $64.00 per TON 90.24

Permit Fee 0.00
OutofArea 0.00
Total Charge Amount 90.24

Comment
Job/PO

Operating hours November 1st-March 31st
Monday - Friday 7:00 AM - 4:00 PM

Signature _____

La Crosse County Waste Inspection Reporting Form

Date: 2/20/2024 Time: 1:27 PM Inspected by: Jackie Davis

Hauler: Richard's Sanitation

Truck Number: 45

WDNR License Number: 13629

Vehicle License Number: YC8957

Origin of Load: Municipal Solid Waste

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

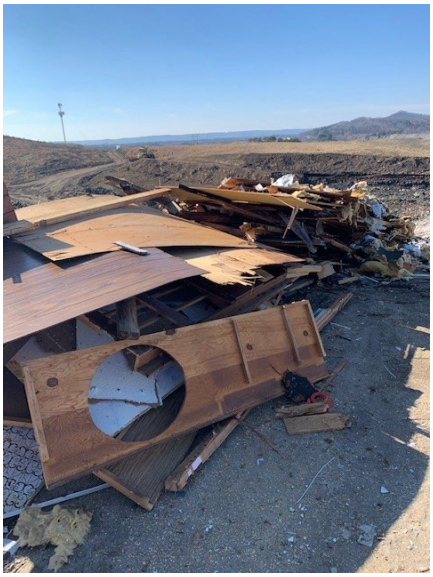
The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (5)

Load Inspection Photo #1

Load Inspection #2

Load Inspection #3



Load Inspection #4

Load Inspection #5

Scale Ticket

Solid Waste Department
LA CROSSE COUNTY
3240 Berlin Drive
La Crosse, WI 54601

DUPLICATE TICKET reprinted by bharvey at 15:43:22 on 02/20/24 **

Account # 10014
Richard's Sanitation
Greg Skauge
PO Box 226
Caledonia MN 55921

Site 001
Ticket 00275946
Date In 02/20/24
Time In 13:25:27
Date Out 02/20/24
Time Out 13:34:52

Weigh master: Scale 13

Ref.

Origin ALLAMAKEECOUNTY,IA

Grid

DESCRIPTION				
Scale 3		34060 LB	Vehicle RIC45	
Scale 2	Tare Wt.	30100 LB	Roll-Off	
Net Wt.		3960 LB	TON	1.98

Municipal Solid Wast @ $64.00 per TON	126.72
Permit Fee	0.00
OutofArea	19.80
Total Charge Amount	146.52

Comment
Job/PO

Operating hours November 1st-March 31st
Monday - Friday 7:00 AM - 4:00 PM

Signature _____

La Crosse County Waste Inspection Reporting Form

Date: 3/29/2024 Time: 11:21 AM Inspected by: Jackie Davis

Hauler: Harter's Trash and Recycling

Truck Number: 12

WDNR License Number: 13521

Vehicle License Number: 60531Z

Origin of Load: Municipal Solid Waste

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☒ No ☐ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Mattress was removed by landfill operator

The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

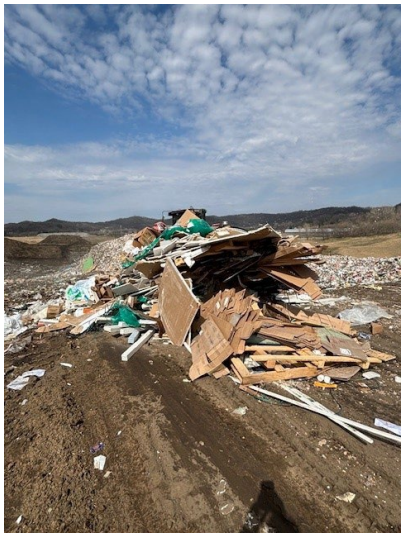
Attachments to be included: Scale ticket (1) and photos (5)

Load Inspection Photo #1

Load Inspection #2

Load Inspection #3

Load Inspection #4



Load Inspection #5

Scale Ticket

Solid Waste Department
LA CROSSE COUNTY
3240 Berlin Drive
La Crosse, WI 54601

DUPLICATE TICKET reprinted by semery at 12:57:13 on 04/01/24 **

Account # 10005
Harter's Trash & Recycling

2850 Larson Street
La Crosse WI 54603

Site	001
Ticket	00281823
Date In	03/29/24
Time In	11:18:38
Date Out	03/29/24
Time Out	11:28:28

Weigh master: Scale 10

Ref.

Origin LACROSSECOUNTY,WI

Grid

DESCRIPTION				
Scale 3		47800 LB	Vehicle HAR12	
Scale 2	Tare Wt.	37200 LB	Roll-Off	
Net Wt.		10600 LB	TON	5.30

Municipal Solid Wast @ $64.00 per TON	339.20
LF Unacceptable Matt @ $18.00 per EACH	18.00
Permit Fee	0.00
OutofArea	0.00
Total Charge Amount	357.20

Comment
Job/PO

Operating hours April 1st-October 31st
Monday - Friday 6:30 AM - 4:30 PM

Signature _____

La Crosse County Waste Inspection Reporting Form

Date: 4/10/2024 Time: 2:10 pm Inspected by: Jackie Davis

Hauler: Waste Management

Truck Number: 415494

WDNR License Number: 16954

Vehicle License Number: 731557

Origin of Load: Municipal Solid Waste

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☒ No ☐ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Microwave was removed by landfill operator

The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (5)

Load Inspection Photo #1

Load Inspection #2

Load Inspection #3

Load Inspection #4

Load Inspection #5

Scale Ticket

Solid Waste Department
LA CROSSE COUNTY
3240 Berlin Drive
La Crosse, WI 54601

DUPLICATE TICKET reprinted by bharvey at 09:06:02 on 04/11/24 **

Account # 10019
Waste Management
tgerke@wm.com
415 Island Street
La Crosse WI 54603

Site 001
Ticket 00283565
Date In 04/10/24
Time In 14:06:39
Date Out 04/10/24
Time Out 14:32:26

Weigh master: Scale 10

Ref.

Origin LACROSSECOUNTY,WI

Grid

DESCRIPTION				
Scale 3		38560 LB	Vehicle WAS415494	
Scale 2	Tare Wt.	36700 LB	Roll-Off	
Net Wt.		1860 LB	TON	0.93

Municipal Solid Wast @ $64.00 per TON	59.52
LF Unacceptable WG @ $25.00 per EACH	25.00
Permit Fee	0.00
OutofArea	0.00
Total Charge Amount	84.52

Comment 1 MICROWAVE
Job/PO

Operating hours April 1st-October 31st
Monday - Friday 6:30 AM - 4:30 PM

Signature _____

La Crosse County Waste Inspection Reporting Form

Date: 5/14/2024 Time: 12:55 PM Inspected by: Jackie Davis

Hauler: Midwest Roll-Off

Truck Number: 5

WDNR License Number: 15095

Vehicle License Number: QB17302

Origin of Load: Construction/Demolition

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

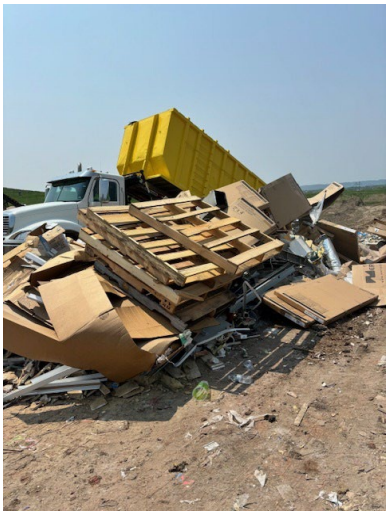
The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (5)

Load Inspection Photo #1

Load Inspection #2

Load Inspection #3



Load Inspection #4

Load Inspection #5

Scale Ticket

Solid Waste Department
LA CROSSE COUNTY
3240 Berlin Drive
La Crosse, WI 54601

DUPLICATE TICKET reprinted by bharvey at 13:25:11 on 05/14/24 **

Account # 10012
Midwest Roll-Off of LaX, LLC

PO Box 890
West Salem WI 54669

Site 001
Ticket 00290293
Date In 05/14/24
Time In 12:55:04
Date Out 05/14/24
Time Out 13:07:10

Weigh master: Scale 10

Ref.

Origin LACROSSECOUNTY,WI

Grid

DESCRIPTION				
Scale 3	39160 LB	Vehicle MID5		
Scale 2 Tare Wt.	34040 LB	Roll-Off		
Net Wt.	5120 LB	TON	2.56	

Demolition @ $64.00 per TON 163.84

Permit Fee 0.00
OutofArea 0.00
Total Charge Amount 163.84

Comment
Job/PO

Operating hours April 1st-October 31st
Monday - Friday 6:30 AM - 4:30 PM

Signature _____

La Crosse County Waste Inspection Reporting Form

Date: 5/22/2024 Time: 9:50 AM Inspected by: Jackie Davis

Hauler: Big Hook Trucking & Disposal

Truck Number: 4

WDNR License Number: 16606

Vehicle License Number: GD91587

Origin of Load: Construction/Demolition

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (5)

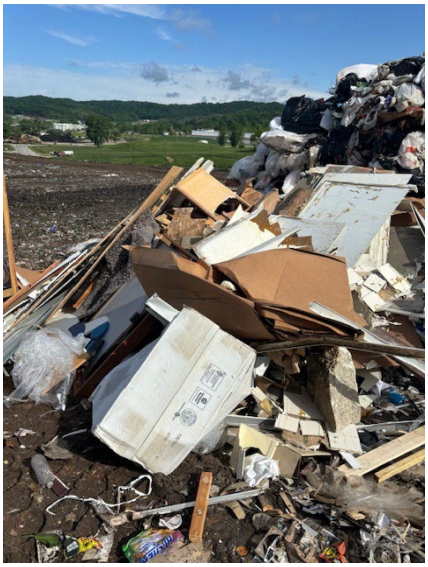
Load Inspection Photo #1

Load Inspection #2

Load Inspection #3

Load Inspection #4

Load Inspection #5



Scale Ticket

Solid Waste Department
LA CROSSE COUNTY
3240 Berlin Drive
La Crosse, WI 54601

DUPLICATE TICKET reprinted by bharvey at 10:00:19 on 05/22/24 **

Account # 10003
Big Hook Trucking & Disposal
Mike
N3074 County Road M
La Crosse WI 54601

Site 001
Ticket 00292039
Date In 05/22/24
Time In 09:15:18
Date Out 05/22/24
Time Out 09:27:06

Weigh master: Scale 10

Ref.

Origin LACROSSECOUNTY,WI

Grid

DESCRIPTION			
Scale 3	17680 LB	Vehicle BIG4	
Scale 2 Tare Wt.	15460 LB	Roll-Off	
Net Wt.	2220 LB	TON	1.11

Demolition @ $64.00 per TON 71.04

Permit Fee 0.00
OutofArea 0.00
Total Charge Amount 71.04

Comment
Job/PO

Operating hours April 1st-October 31st
Monday - Friday 6:30 AM - 4:30 PM

Signature _____

La Crosse County Waste Inspection Reporting Form

Date: 5/30/2024 Time: 10:07 AM Inspected by: Jackie Davis

Hauler: Always Affordable Container LLC

Truck Number: 02

WDNR License Number: 15094

Vehicle License Number: LB11 800

Origin of Load: Construction/Demolition

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

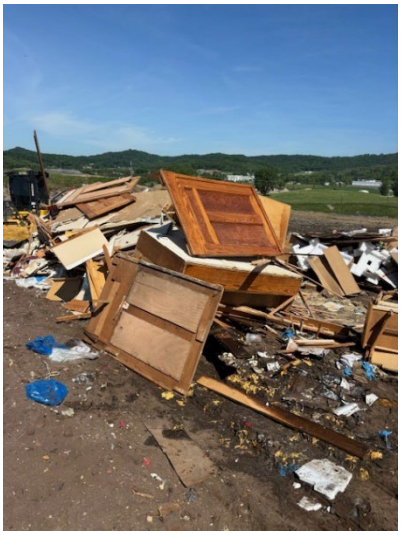
The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (5)

Load Inspection Photo #1

Load Inspection #2

Load Inspection #3



Load Inspection #4

Load Inspection #5

Scale Ticket

Solid Waste Department
LA CROSSE COUNTY
3240 Berlin Drive
La Crosse, WI 54601

DUPLICATE TICKET reprinted by semery at 13:18:05 on 08/06/24 **

Account # 10002
Always Affordable LLC
Dan Erickson
N22233 Rogness Coulee Road
Ettrick WI 54627

Site 001
Ticket 00293808
Date In 05/30/24
Time In 10:03:55
Date Out 05/30/24
Time Out 10:13:22

Weigh master: Scale 10

Ref.

Origin ARCADIA,CITYOF

Grid

DESCRIPTION				
Scale 3		34460 LB	Vehicle ALW2	
Scale 2	Tare Wt.	30420 LB	Roll-Off	
Net Wt.		4040 LB	TON	2.02

Demolition @ $64.00 per TON 129.28

Permit Fee 0.00
OutofArea 0.00
Total Charge Amount 129.28

Comment
Job/PO

Operating hours April 1st-October 31st
Monday - Friday 6:30 AM - 4:30 PM

Signature _____

La Crosse County Waste Inspection Reporting Form

Date: 6/27/2024 Time: 2:45 PM Inspected by: Jackie Davis

Hauler: Harter's Trash and Recycling

Truck Number: 6

WDNR License Number: 13521

Vehicle License Number: 54548X

Origin of Load: Municipal Solid Waste

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (5)

Load Inspection Photo #1

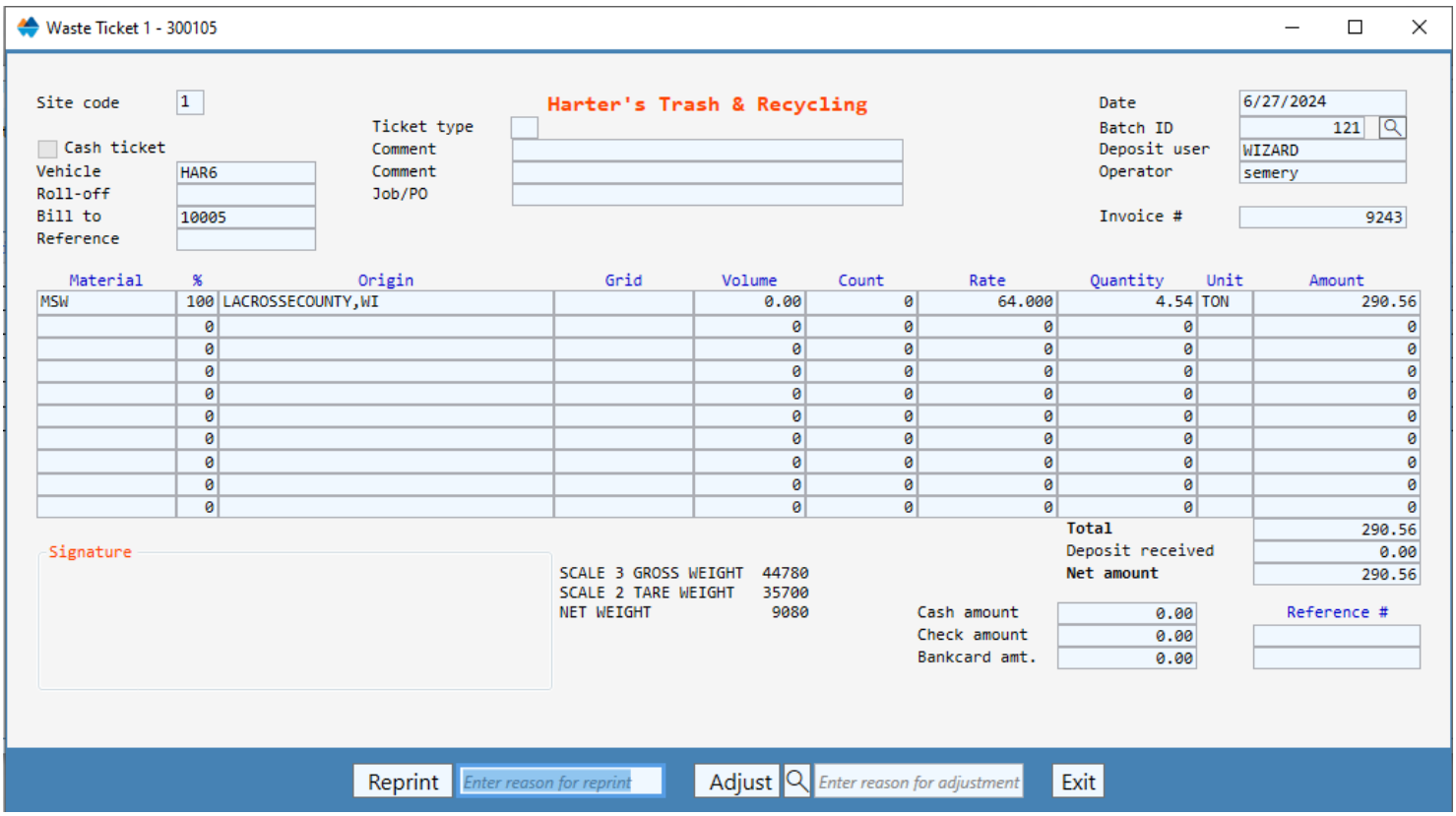
Load Inspection #2

Load Inspection #3

Load Inspection #4

Load Inspection #5

Scale Ticket



La Crosse County Waste Inspection Reporting Form

Date: 6/28/2024 Time: 2:20 PM Inspected by: Jackie Davis

Hauler: Hilltopper Refuse & Recycling

Truck Number: 62

WDNR License Number: 13066

Vehicle License Number: MC13011

Origin of Load: Municipal Solid Waste

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (5)

Load Inspection Photo #1

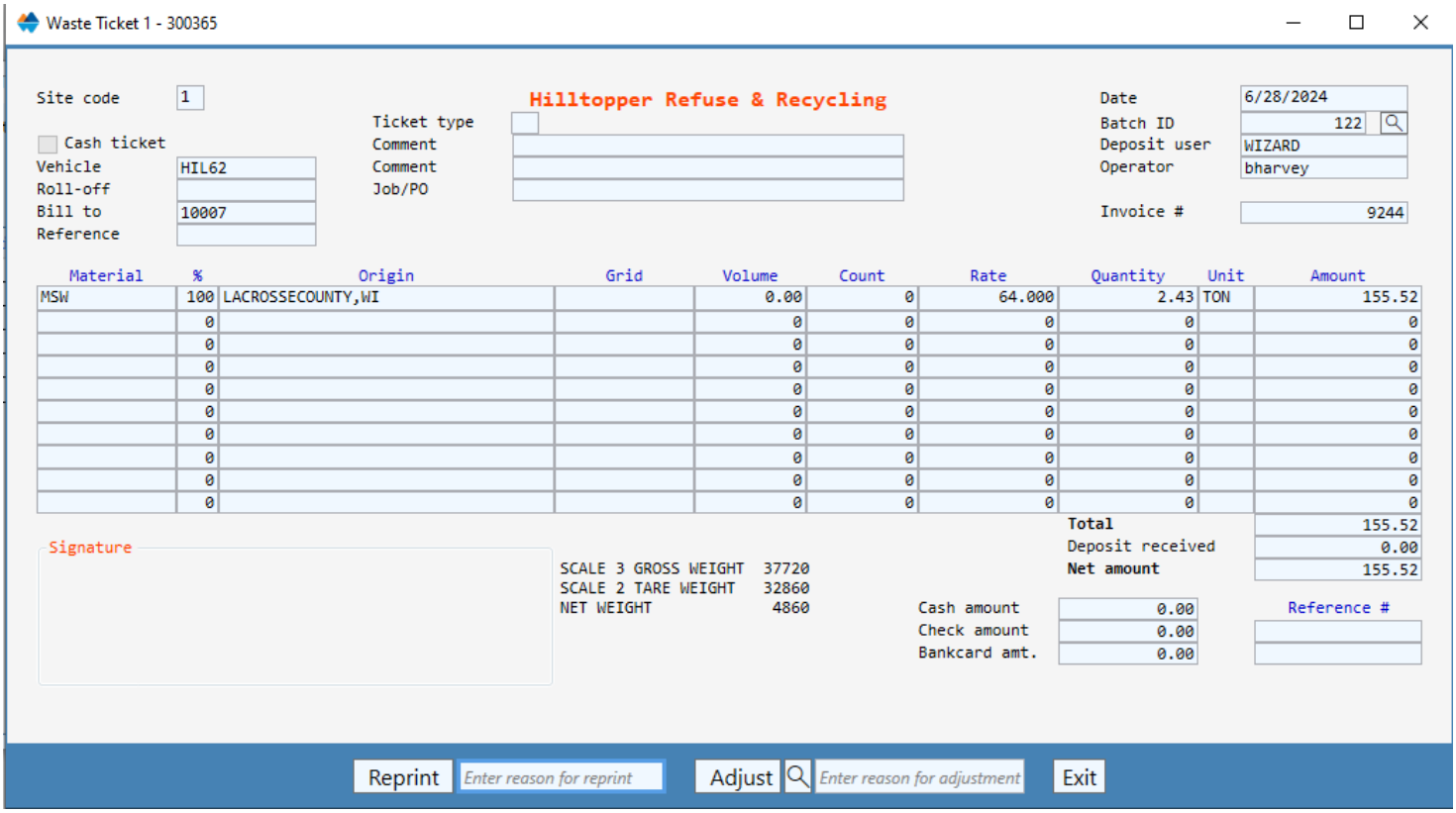
Load Inspection #2

Load Inspection #3

Load Inspection #4

Load Inspection #5

Scale Ticket



La Crosse County Waste Inspection Reporting Form

Date: 7/25/2024 Time: 10:00 AM Inspected by: Jackie Davis

Hauler: Two Guys and a Dumpster

Truck Number: 22

WDNR License Number: 15602

Vehicle License Number: MC11616

Origin of Load: Municipal Solid Waste

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

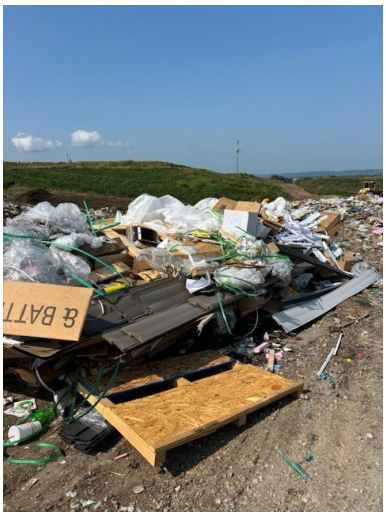
The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (5)

Load Inspection Photo #1

Load Inspection #2

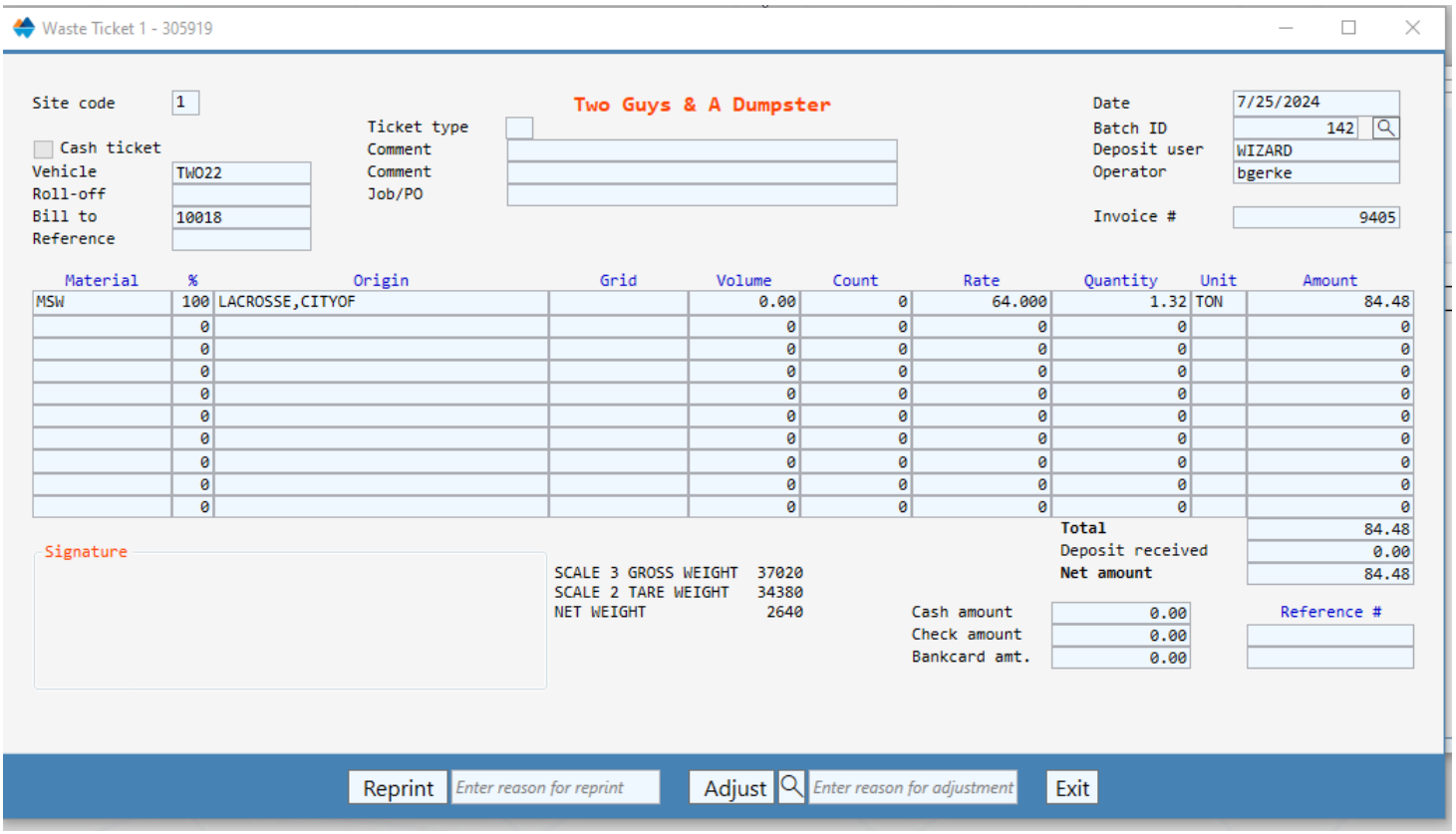
Load Inspection #3



Load Inspection #4

Load Inspection #5

Scale Ticket



La Crosse County Waste Inspection Reporting Form

Date: 7/31/2024 Time: 9:45 am Inspected by: Jackie Davis

Hauler: Always Affordable Container LLC

Truck Number: 02

WDNR License Number: 15094

Vehicle License Number: LB11800

Origin of Load: Construction/Demolition

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

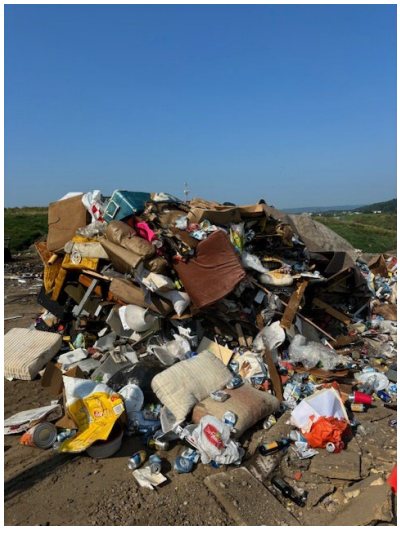
The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (5)

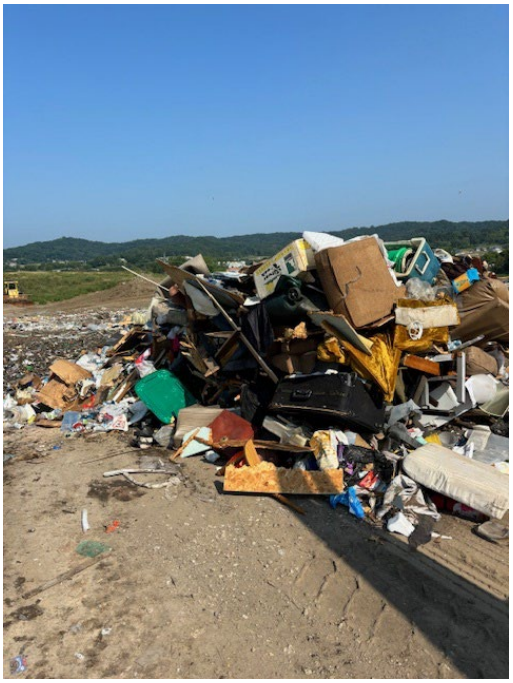
Load Inspection Photo #1

Load Inspection #2

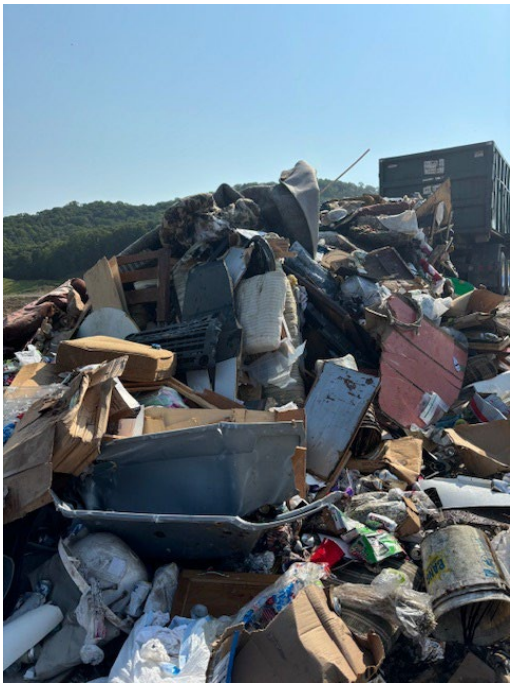
Load Inspection #3



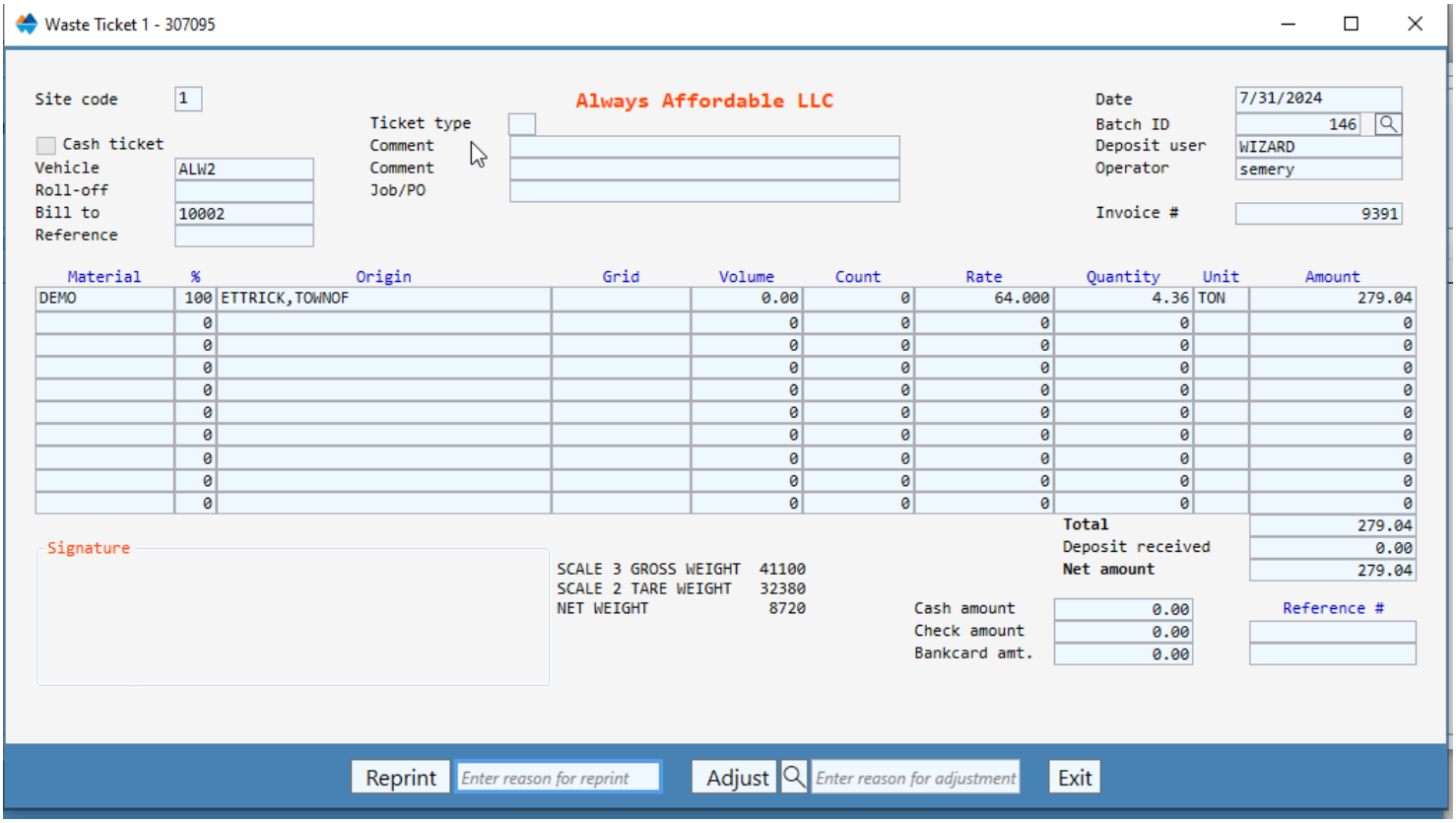
Load Inspection #4



Load Inspection #5



Scale Ticket



La Crosse County Waste Inspection Reporting Form

Date: 8/27/2024 Time: 1:40 PM Inspected by: Jackie Davis

Hauler: Richard's Sanitation

Truck Number: 55

WDNR License Number: 13629

Vehicle License Number: YCF2977

Origin of Load: Municipal Solid Waste

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

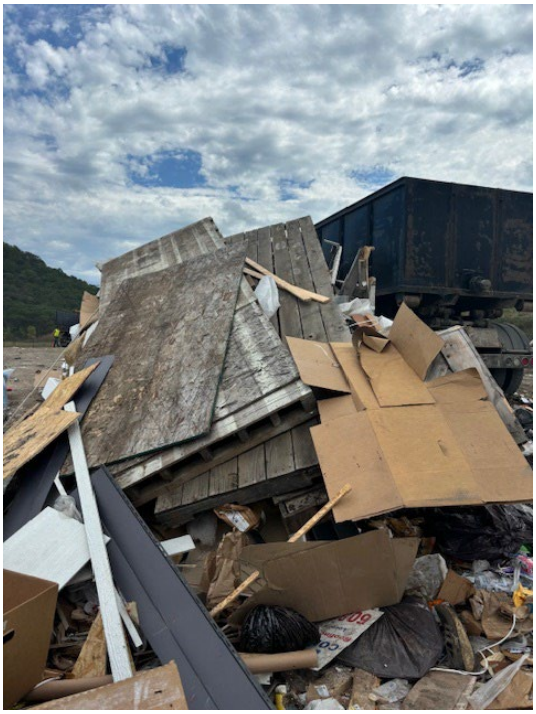
Attachments to be included: Scale ticket (1) and photos (5)

Load Inspection Photo #1

Load Inspection #2

Load Inspection #3

Load Inspection #4



Load Inspection #5

Scale Ticket

Solid Waste Department
LA CROSSE COUNTY
3240 Berlin Drive
La Crosse, WI 54601

DUPLICATE TICKET reprinted by bharvey at 13:05:57 on 08/29/24 **

Account # 10014		Site	001
Richard's Sanitation		Ticket	00312636
Greg Skauge		Date In	08/27/24
PO Box 226		Time In	13:35:23
Caledonia MN 55921		Date Out	08/27/24
		Time Out	13:44:59

Weigh master: Scale 12 Ref.

Origin HOUSTONCOUNTY,MN Grid

DESCRIPTION				
Scale 3	36860 LB	Vehicle RIC55		
Scale 2 Tare Wt.	30540 LB	Roll-Off		
Net Wt.	6320 LB	TON	3.16	

Municipal Solid Wast @ $64.00 per TON 202.24

Permit Fee	0.00
OutofArea	0.00
Total Charge Amount	202.24

Comment
Job/PO

Operating hours April 1st-October 31st
Monday - Friday 6:30 AM - 4:30 PM

Signature _____

La Crosse County Waste Inspection Reporting Form

Date: 8/29/2024 Time: 9:50 AM Inspected by: Jackie Davis

Hauler: Richard's Sanitation

Truck Number: 217451

WDNR License Number: 10843

Vehicle License Number: 75091Z

Origin of Load: Municipal Solid Waste

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☒

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☒ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: 1 Printer was removed by landfill operators

The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (5)

Load Inspection #1

Load Inspection #2

Load Inspection #3

Load Inspection #4

Load Inspection #5

Load Inspection #6

Load Inspection #7 (unacceptable item)

Scale Ticket (2)

Solid Waste Department
LA CROSSE COUNTY
3240 Berlin Drive
La Crosse, WI 54601

DUPLICATE TICKET reprinted by bharvey at 13:10:20 on 08/29/24 **

Account # 10019
Waste Management
tgerke@wm.com
415 Island Street
La Crosse WI 54603

Site 001
Ticket 00313034
Date In 08/29/24
Time In 09:44:47
Date Out 08/29/24
Time Out 09:54:24

Weigh master: Scale 12
Ref.

Origin LACROSSECOUNTY,WI
Grid

DESCRIPTION			
Scale 3	61260 LB	Vehicle WAS217451	
Scale 2 Tare Wt.	43360 LB	Roll-Off	
Net Wt.	17900 LB	TON	8.95

Municipal Solid Wast @ $64.00 per TON 572.80

Permit Fee 0.00
OutofArea 0.00
Total Charge Amount 572.80

Comment
Job/PO

Operating hours April 1st-October 31st
Monday - Friday 6:30 AM - 4:30 PM

Signature _____

Solid Waste Department
LA CROSSE COUNTY
3240 Berlin Drive
La Crosse, WI 54601

Account # 10019
Waste Management
tgerke@wm.com
415 Island Street
La Crosse WI 54603

Site 001
Ticket 00313040
Date In 08/29/24
Time In 09:58:05
Date Out 08/29/24
Time Out 09:58:05

Weigh master: Scale 10
Ref. 313034

Origin LACROSSECOUNTY,WI
Grid

DESCRIPTION			
Manual	0 LB	Vehicle WAS217451	
Manual Tare Wt.	0 LB	Roll-Off	
Net Wt.	0 LB	TON	0.00

LF Unacceptable WG @ $25.00 per EACH 25.00

Permit Fee 0.00
OutofArea 0.00
Total Charge Amount 25.00

Comment 1 PRINTER
Job/PO

Operating hours April 1st-October 31st
Monday - Friday 6:30 AM - 4:30 PM

Signature _____

La Crosse County Waste Inspection Reporting Form

Date: 9/27/2024 Time: 11:15 AM Inspected by: Jackie Davis

Hauler: Harter's Trash and Recycling

Truck Number: 8

WDNR License Number: 13521

Vehicle License Number: T56764Z

Origin of Load: Municipal Solid Waste

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (5)

Load Inspection Photo #1

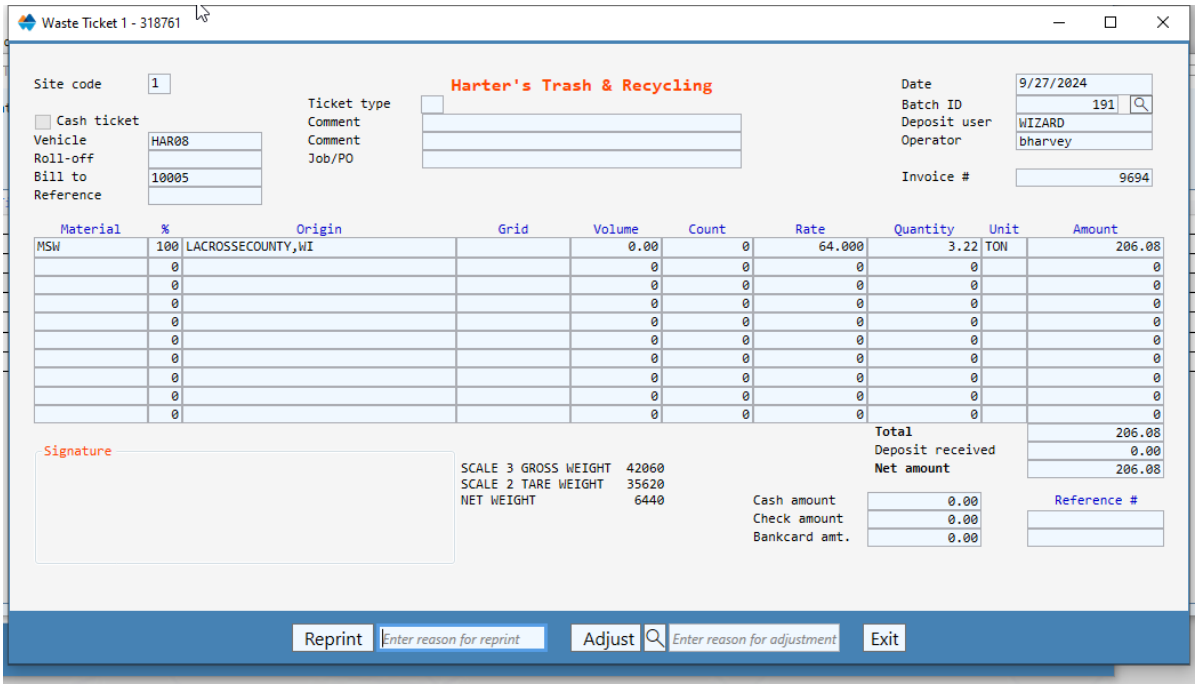
Load Inspection #2

Load Inspection #3

Load Inspection #4

Load Inspection #5

Scale Ticket



La Crosse County Waste Inspection Reporting Form

Date: 9/30/2024 Time: 1:00 pm Inspected by: Jackie Davis

Hauler: Big Hook Trucking & Disposal

Truck Number: 68

WDNR License Number: 16606

Vehicle License Number: RB30946

Origin of Load: Construction/Demolition

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

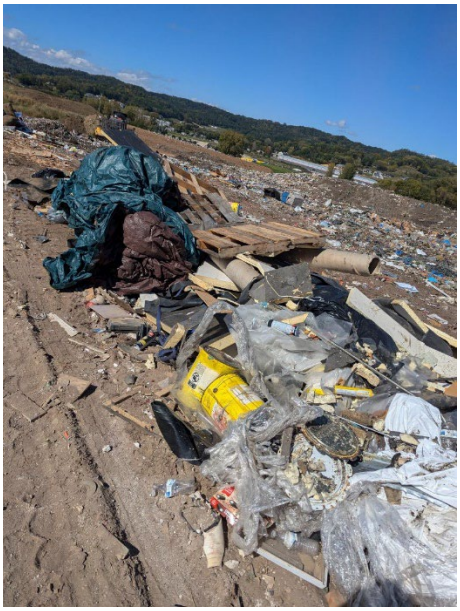
If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (5)

Load Inspection Photo #1



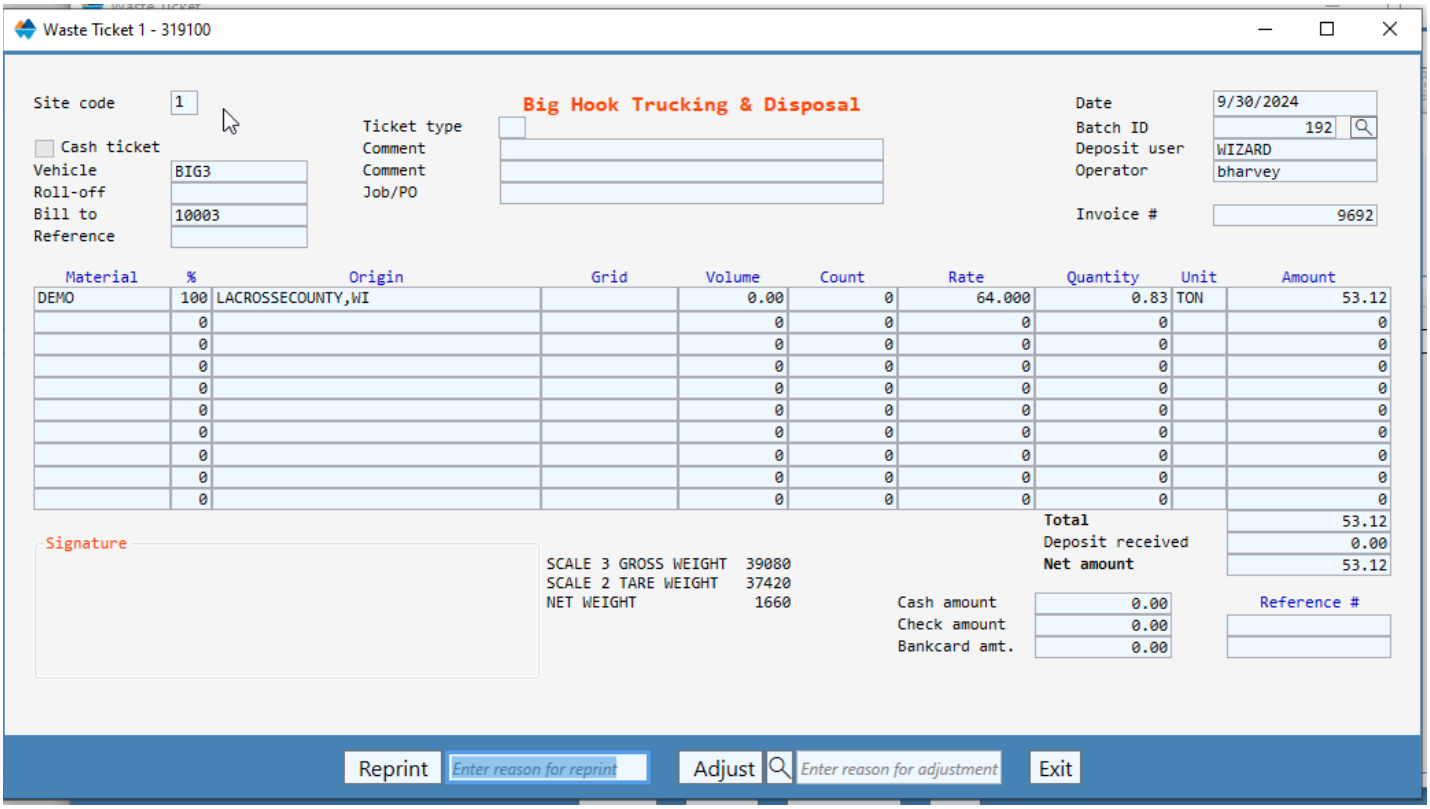
Load Inspection #2

Load Inspection #5

Load Inspection #3

Load Inspection #4

Scale Ticket



La Crosse County Waste Inspection Reporting Form

Date: 10/23/2024 Time: 11:40 AM Inspected by: Jackie Davis

Hauler: Midwest Roll-Off of LAX

Truck Number: 1

WDNR License Number: 15095

Vehicle License Number: QB15470

Origin of Load: Municipal Solid Waste

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (6)

Load Inspection Photo #1

Load Inspection #2

Load Inspection #3

Load Inspection #4

Load Inspection #5

Load Inspection #6

Scale Ticket

Solid Waste Department
LA CROSSE COUNTY
3240 Berlin Drive
La Crosse, WI 54601

DUPLICATE TICKET reprinted by bharvey at 10:14:14 on 10/30/24 **

Account # 10012
Midwest Roll-Off of LaX, LLC

PO Box 890
West Salem WI 54669

Site 001
Ticket 00323800
Date In 10/23/24
Time In 11:30:16
Date Out 10/23/24
Time Out 11:44:17

Weigh master: Scale 2

Ref.

Origin LACROSSECOUNTY,WI

Grid

DESCRIPTION			
Scale 3	39300 LB	Vehicle MID1	
Scale 2 Tare Wt.	36080 LB	Roll-Off	
Net Wt.	3220 LB	TON	1.61

Municipal Solid Wast @ $64.00 per TON 103.04

Permit Fee 0.00
OutofArea 0.00
Total Charge Amount 103.04

Comment
Job/PO

Operating hours April 1st-October 31st
Monday - Friday 6:30 AM - 4:30 PM

Signature _____

La Crosse County Waste Inspection Reporting Form

Date: 10/30/2024 Time: 10:00 AM Inspected by: Jackie Davis

Hauler: Two Guys and A Dumpster

Truck Number: 22

WDNR License Number: 15602

Vehicle License Number: MC11616

Origin of Load: Municipal Solid Waste

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

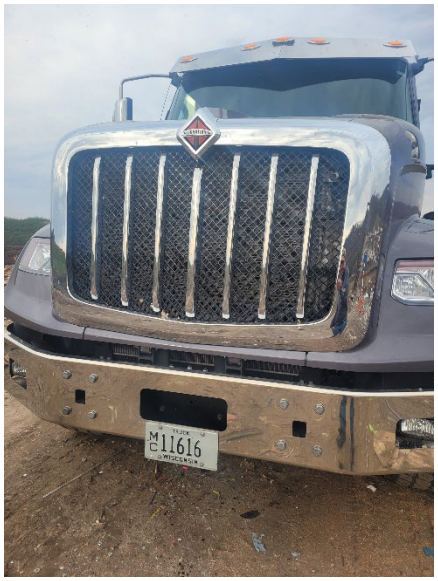
If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (6)

Load Inspection Photo #1



Load Inspection #2

Load Inspection #3

Load Inspection #4

Load Inspection #5

Load Inspection #6

Scale Ticket

Solid Waste Department
LA CROSSE COUNTY
3240 Berlin Drive
La Crosse, WI 54601

DUPLICATE TICKET reprinted by bharvey at 10:12:47 on 10/30/24 **

Account # 10018
Two Guys & A Dumpster
Justin Birdd
PO Box 890
West Salem WI 54669

Site 001
Ticket 00325235
Date In 10/30/24
Time In 09:31:37
Date Out 10/30/24
Time Out 09:48:56

Weigh master: Scale 12

Ref.

Origin LACROSSE,CITYOF

Grid

DESCRIPTION				
Scale 3		37080 LB	Vehicle TWO22	
Scale 2	Tare Wt.	31980 LB	Roll-Off	
Net Wt.		5100 LB	TON	2.55

Municipal Solid Wast @ $64.00 per TON 163.20

Permit Fee 0.00
OutofArea 0.00
Total Charge Amount 163.20

Comment
Job/PO

Operating hours April 1st-October 31st
Monday - Friday 6:30 AM - 4:30 PM

Signature _____

La Crosse County Waste Inspection Reporting Form

Date: 11/12/2024 Time: 2:35 PM Inspected by: Jackie Davis

Hauler: Always Affordable Container LLC

Truck Number: 02

WDNR License Number: 15094

Vehicle License Number: LB11 800

Origin of Load: Construction/Demolition

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

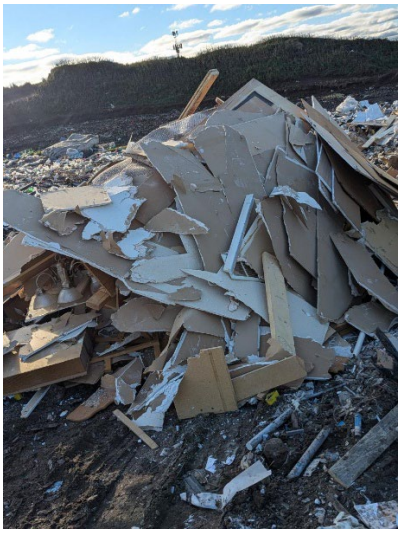
Attachments to be included: Scale ticket (1) and photos (5)

Load Inspection Photo #1

Load Inspection #2

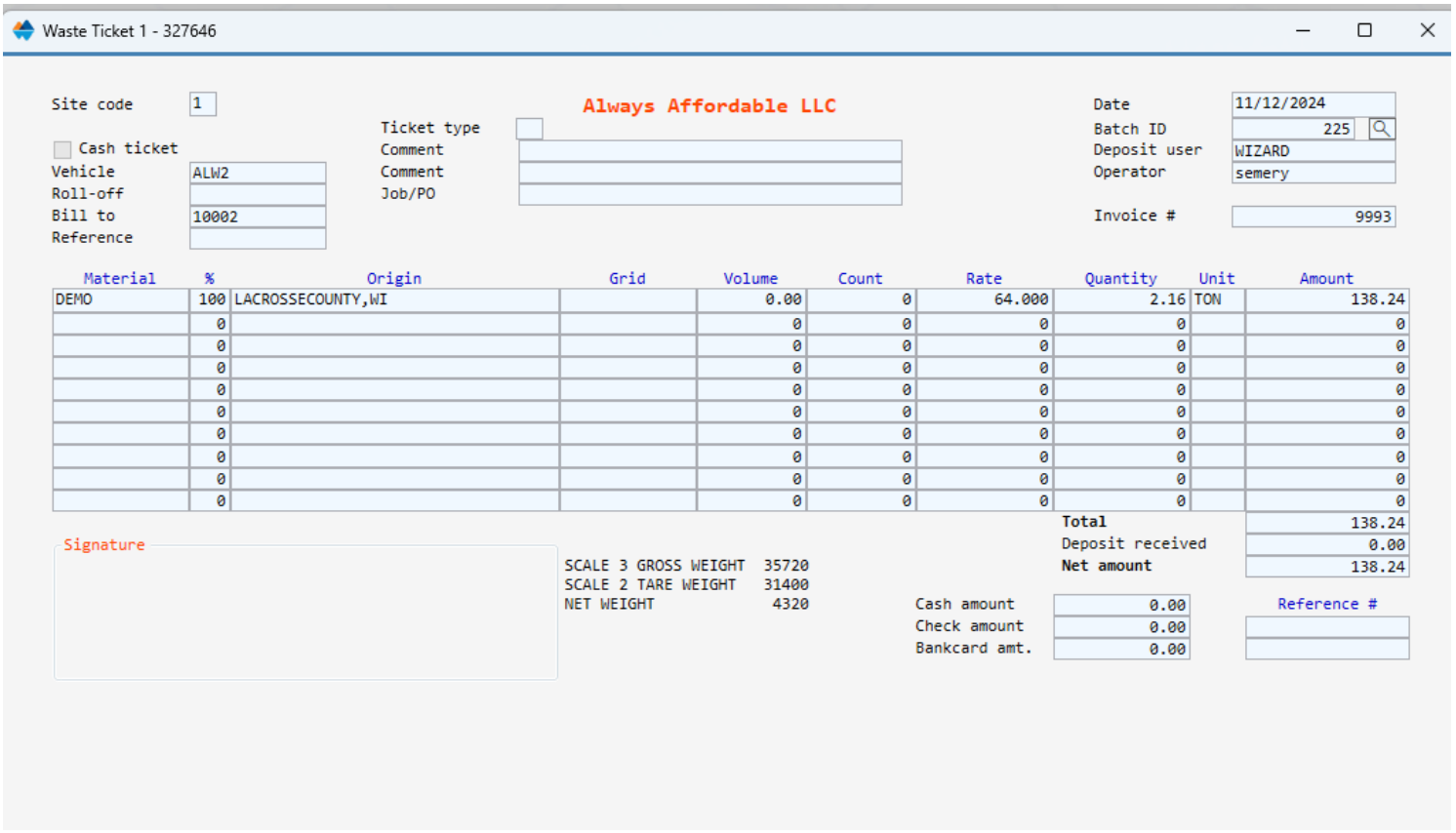
Load Inspection #3

Load Inspection #4



Load Inspection #5

Scale Ticket



La Crosse County Waste Inspection Reporting Form

Date: 11/15/2024 Time: 10:00 AM Inspected by: Jackie Davis

Hauler: Richard's Sanitation

Truck Number: 55

WDNR License Number: 13629

Vehicle License Number: YCF2977

Origin of Load: Construction/Demolition

Type of Waste: Residential ☒ Industrial ☐ Commercial ☐

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Click or tap here to enter text.

The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (5)

Load Inspection Photo #1

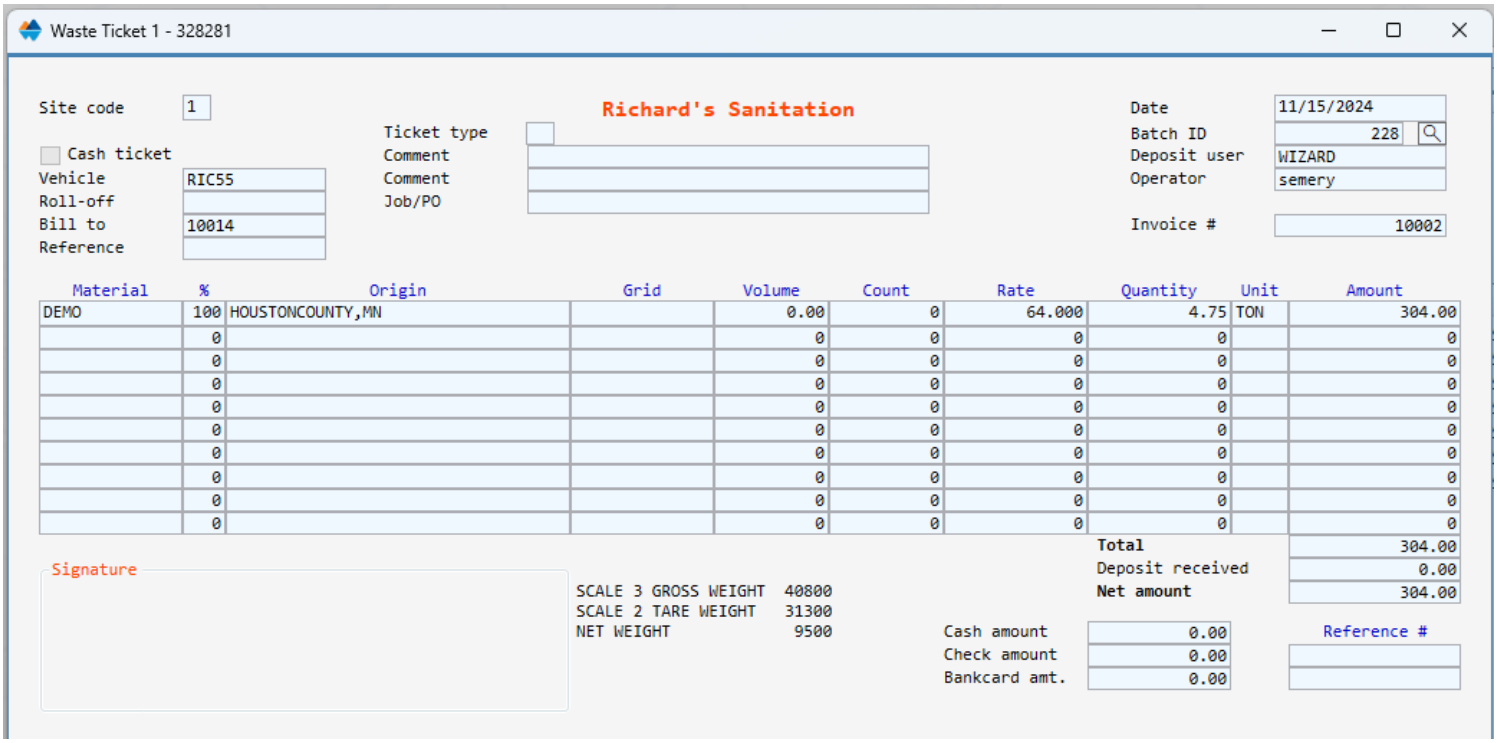
Load Inspection #2

Load Inspection #3

Load Inspection #4

Load Inspection #5

Scale Ticket



La Crosse County Waste Inspection Reporting Form

Date: 12/27/2024 Time: 2:41 PM Inspected by: Jackie Davis

Hauler: Harter's Trash and Recycling

Truck Number: 08

WDNR License Number: 13521

Vehicle License Number: 56764Z

Origin of Load: Municipal Solid Waste

Type of Waste: Residential ☐ Industrial ☐ Commercial ☒

Type of Container: Roll- Off ☒ Packer ☐

Were any hazardous wastes found? Yes ☐ No ☒

Were any PCB wastes found? Yes ☐ No ☒

Were any recyclables found? Yes ☐ No ☒

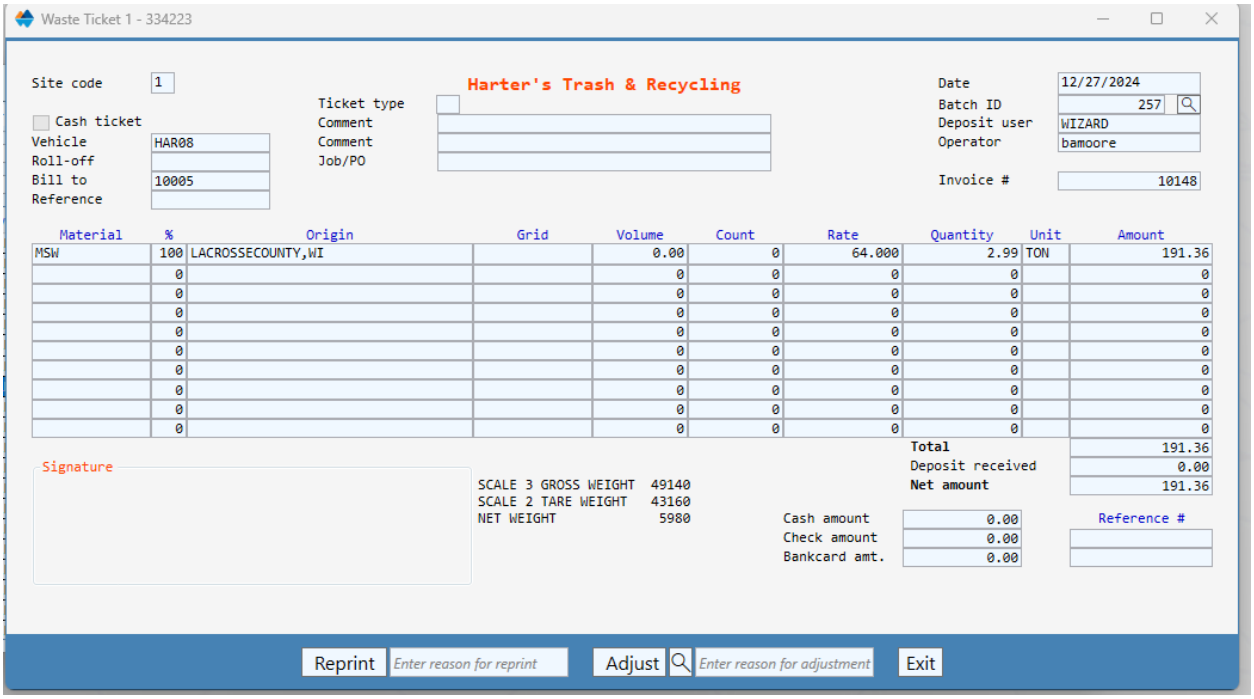
Were any banned materials found? Yes ☐ No ☒ (Examples: white goods, oil filters, absorbents)

If so, what was the final disposition of the load?

Comments: Inspection of load performed by WDNR certified site operations contractor, Integrity Grading and Excavating, no photos taken.

The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Ticket


Waste Ticket 1 - 334223
Site code 1
Harter's Trash & Recycling
Cash ticket
Vehicle HAR08
Roll-off
Bill to 10005
Reference
Ticket type
Comment
Comment
Job/PO
Date 12/27/2024
Batch ID 257
Deposit user WIZARD
Operator bamoore
Invoice # 10148
Material % Origin Grid Volume Count Rate Quantity Unit Amount
MSW 100 LACROSSECOUNTY,WI 0.00 0 64.000 2.99 TON 191.36
Total 191.36
Deposit received 0.00
Net amount 191.36
Signature
SCALE 3 GROSS WEIGHT 49140
SCALE 2 TARE WEIGHT 43160
NET WEIGHT 5980
Cash amount 0.00
Check amount 0.00
Bankcard amt. 0.00
Reference #
Reprint
Enter reason for reprint
Adjust
Enter reason for adjustment
Exit

Appendix B

Operations

Appendix B

Operations

B-1 – Wind Speed Report

B-1 – Wind Speed Report

Fugitive Dust & Wind-Blown Litter Corrective Action Record

Date: _____

Name of Person Performing Inspection: _____

Reason for corrective action: _____

_____

Location: _____

_____

Description of Corrective Action: _____

_____

_____

_____

Identification of Party Responsible for Implementing Corrective Action: _____

_____

Appendix C

Special Waste & ADC

Appendix C

Special Waste & ADC

C-1 – Tonnage Reports
C-2 – ADC Testing Data

C-1 – Tonnage Reports

La Crosse County Landfill
2024 Tonnages
All Sites

						OTHER WASTE		MSW LANDFILL	ASH MONOFILL	COMBINED LANDFILLS	RECYCLING & OTHER
CATEGORY *	1	25	27	30	31	19	Varies		20		R
MONTH	DIRECT LANDFILL	CONST & DEMO	MSW-NON-PROFIT	LANDFILL-MRF	XCEL (LANDFILL)	XCEL BOTTOM ASH	SPECIAL WASTE	SUBTOTAL	XCEL WTE ASH **	TOTAL	TOTAL
JANUARY	2,502.17	2,380.29	38.38	0.00	1,807.80	253.22	1,839.42	8,821.28	989.58	9,810.86	223.68
FEBRUARY	2,562.83	1,281.55	36.85	0.00	1,133.30	262.88	1,877.78	7,155.19	775.33	7,930.52	492.91
MARCH	5,818.18	1,734.25	36.76	106.10	1,432.80	113.94	2,684.01	11,926.04	419.64	12,345.68	510.33
APRIL	3,273.06	2,438.42	63.86	0.00	1,836.00	208.37	2,134.01	9,953.72	728.34	10,682.06	1,141.00
MAY	3,745.18	3,101.74	62.16	0.00	1,744.10	258.90	1,766.33	10,678.41	905.07	11,583.48	1,284.98
JUNE	3,329.95	3,058.95	68.59	0.00	1,796.30	240.44	1,341.78	9,836.01	845.34	10,681.35	1,123.26
JULY	3,527.46	3,306.33	64.68	0.00	1,357.20	300.37	1,979.06	10,535.10	989.69	11,524.79	1,286.90
AUGUST	3,133.69	2,786.65	78.20	0.00	1,490.70	237.90	2,451.27	10,178.41	920.42	11,098.83	1,943.36
SEPTEMBER	3,068.39	2,350.12	70.68	0.00	1,703.10	248.30	2,309.61	9,750.20	720.25	10,470.45	964.78
OCTOBER	3,297.94	3,186.62	72.23	0.00	1,198.90	289.60	1,391.72	9,437.01	1,076.49	10,513.50	1,107.28
NOVEMBER	2,828.62	2,439.19	61.23	0.00	1,306.80	299.14	3,719.14	10,654.12	816.45	11,470.57	543.04
DECEMBER	2,658.88	1,831.65	50.39	0.00	1,489.60	281.15	1,297.00	7,608.67	1,010.05	8,618.72	250.86
Actual YTD Tonnage	39,746.35	29,895.76	704.01	106.10	18,296.60	2,994.21	24,791.13	**116,534.16**	**10,196.65**	**126,730.81**	**10,872.38**
% MSW Landfill	34.11%	25.65%	0.60%	0.09%	15.70%	2.57%	21.27%	**100.00%**			
% Combined Landfills	31.36%	23.59%	0.56%	0.08%	14.44%	2.36%	19.56%	91.95%	8.05%	**100.00%**	
YTD Cubic Yards	59619.53	44843.64	1056.02	159.15	27444.90	2215.72			7,545.52	**Cover Ratio 10.47:1 or 9.55%**	

Numbers in Red — This number includes 5.5 tons for each clean mobile home disposed in landfill.

La Crosse County Landfill
2024 Special Waste Tonnages

CATEGORY	2	5	6	6	6	6	6	19	19	19	21	23	
MONTH	COAL/ WOOD ASH	POTW SLUDGES	ASBESTOS (FRIABLE)	ASBESTOS (NON-FRIABLE)	ASBESTOS TOTAL	SLUDGE	MISC. SPECIAL WASTE	CATCH BASIN-DC	OTHER APPROVED DC	STREET SWEEPINGS-DC	HV IND WASTE-DC	PETROLEUM IMPACTED SOIL-BIO	SPECIAL WASTE TOTAL
JANUARY	11.56	0.00	272.23	15.36	287.59	53.78	103.30	14.16	230.13	213.80	924.62	0.48	1,839.42
FEBRUARY	8.68	0.00	7.38	5.09	12.47	49.74	100.93	27.19	249.31	356.99	1,072.47	0.00	1,877.78
MARCH	9.60	9.90	7.65	30.95	38.60	44.43	553.17	45.92	468.36	398.67	1,115.36	0.00	2,684.01
APRIL	4.99	278.48	14.74	9.98	24.72	90.20	169.76	6.51	93.86	325.01	1,140.48	0.00	2,134.01
MAY	7.83	5.63	4.49	55.03	59.52	36.96	342.76	25.93	13.06	218.67	1,016.75	39.22	1,766.33
JUNE	3.12	8.64	8.04	22.65	30.69	59.43	137.93	18.46	0.00	106.50	930.84	46.17	1,341.78
JULY	7.63	28.66	1.62	37.87	39.49	45.40	532.67	11.38	38.04	127.06	1,135.64	13.09	1,979.06
AUGUST	0.00	58.50	2.30	17.35	19.65	49.22	601.47	152.63	70.22	221.09	962.81	315.68	2,451.27
SEPTEMBER	4.44	101.28	1.58	2.00	3.58	64.41	124.81	11.52	906.84	181.25	892.45	19.03	2,309.61
OCTOBER	8.11	26.42	1.18	8.90	10.08	62.06	136.28	12.87	63.67	75.31	949.03	47.89	1,391.72
NOVEMBER	15.06	16.33	5.25	6.07	11.32	52.50	2,875.85	9.98	12.67	40.54	615.73	69.16	3,719.14
DECEMBER	5.08	76.83	9.97	2.81	12.78	60.28	91.89	11.06	27.60	12.28	999.11	0.09	1,297.00
Actual YTD Tonnage	86.10	610.67	336.43	214.06	550.49	668.41	5,770.82	347.61	2,173.76	2,277.17	11,755.29	550.81	**24,791.13**
% Special Waste	0.35%	2.46%	1.36%	0.86%		2.70%	23.28%	1.40%	8.77%	9.19%	47.42%	2.22%	**100%**
		% Asbestos	61%	39%	100%								
YTD Cubic Yards	63.71	916.01	504.65	321.09		1,002.62	8,656.23	257.23	1,608.58	1,685.11	8,698.91	407.60	

DC=Daily Cover

C-2 – ADC Testing Data

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Alliant Castings, Inc
2. Generator Mailing Address 1200 West 3rd Street
3. Facility Address (site of waste generation) 1200 West 3rd Street
4. Generator City Winona
5. Generator State/Zip 55987
6. General Contact Person Tom Renk
   Phone # and email 507-474-2233 tom.renk @alliantcastings.com
7. Technical Contact Person Tom Renk
   Phone # and email 507-474-2233 tom.renk @alliantcastings.com

---

1. Name of Waste Foundry Dust
2. Process Generating Waste Baghouse
3. Waste Color gray
4. Waste Odor x None ____ Mild ____ Strong
5. Physical State ____ None ____ Liquid ____ Semi-Solid Other dust
6. Free Liquids ____ Yes ____ % x No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A x
8. Flash Point (cc) x None ____<140F ____140-199F ____>200
9. a. Waste Composition:

	Range
dust	____ to ____%
	____ to ____%
	____ to ____%
	____ to ____%
	____ to ____%

b. Does Waste Contain	Yes	No	Do Not Know
PCBS		x	
Cyanide		x	
Sulfide		x	
Phenol		x	
Chlorinated Solvents		x	
AromaticSolvents		x	

10. Analytical Laboratory Pace Analytical
11. Date of Analysis 10/10/24

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes x No
Tank interiors _____Yes x No
Vehicle types N/A

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck x Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units pounds

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency 2x per month

3. Hauler Name and Address Miller Scrap
   1 Recycling Lane
   Winona, MN 55987

4. Bill to Name and Address Alliant Castings - attn: accounts payables
   1200 West 3rd Street
   winona, MN 55987
   email: ap@alliantcastings.com

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title Bryce Gerke / Department Technician		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.
2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.
3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.
4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).
5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.
6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.
7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.
8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.
9. Signature _____
10. Title GM _____
11. Name (Type or print) Thomas Renk _____
12. Date 10/2 9/24 _____

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Alliant Castings, Inc
2. Generator Mailing Address 1200 West 3rd Street
3. Facility Address (site of waste generation) 1200 West 3rd Street
4. Generator City Winona
5. Generator State/Zip 55987
6. General Contact Person Tom Renk
   Phone # and email 507-474-2233 tom.renk@alliantcastings.com
7. Technical Contact Person Tom Renk
   Phone # and email 507-474-2233 tom.renk@alliantcastings.com

---

1. Name of Waste Foundry Slag
2. Process Generating Waste Furnace
3. Waste Color gray/black
4. Waste Odor x None ____ Mild ____ Strong
5. Physical State ____ None ____ Liquid ____ Semi-Solid Other solid
6. Free Liquids ____ Yes ____ % x No
7. pH ____ <2 ____ 2-4.0 ____ 4.1-7.0 ____ 7.1-10.0 ____ 10.1-12.5 ____ >12.5 ____ N/A x
8. Flash Point (cc) x None ____ <140F ____ 140-199F ____ >200
9. a. Waste Composition:

	Range
melting slag	____ to ____%
	____ to ____%
	____ to ____%
	____ to ____%
	____ to ____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS		x	
Cyanide		x	
Sulfide		x	
Phenol		x	
Chlorinated Solvents		x	
Aromatic Solvents		x	

10. Analytical Laboratory Pace Analytical
11. Date of Analysis 10/10/24

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes x____No
Tank interiors _____Yes x____No
Vehicle types N/A

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck x____Dump Truck
_____Roll-off ____Other _____

2. Waste Quantity/Units pounds

☐ One-time Disposal
☑ On-going Disposal

Frequency 2x per month

3. Hauler Name and Address

Miller Scrap
1 Recycling Lane
Winona, MN 55987

4. Bill to Name and Address

Alliant Castings - attn: accounts payables
1200 West 3rd Street
winona, MN 55987
email: ap@alliantcastings.com

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title Bryce Gerke / Department Technician		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.
2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.
3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.
4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).
5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.
6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.
7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.
8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.
9. Signature _____
10. Title GM _____
11. Name (Type or print) Thomas Renk _____
12. Date 10/29/24 _____

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Alliant Castings, Inc
2. Generator Mailing Address 1200 West 3rd Street
3. Facility Address (site of waste generation) 1200 West 3rd Street
4. Generator City Winona
5. Generator State/Zip 55987
6. General Contact Person Tom Renk
   Phone # and email 507-474-2233 tom.renk@alliantcastings.com
7. Technical Contact Person Tom Renk
   Phone # and email 507-474-2233 tom.renk@alliantcastings.com

---

1. Name of Waste Foundry green sand
2. Process Generating Waste molding
3. Waste Color black
4. Waste Odor x None ____ Mild ____ Strong
5. Physical State ____ None ____ Liquid ____ Semi-Solid Other sand
6. Free Liquids ____ Yes ____ % x No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A x
8. Flash Point (cc) x____ None ____<140F ____140-199F ____>200
9. a. Waste Composition:

	Range
sand	____ to ____%
	____ to ____%
	____ to ____%
	____ to ____%
	____ to ____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS		x	
Cyanide		x	
Sulfide		x	
Phenol		x	
Chlorinated Solvents		x	
Aromatic Solvents		x	

10. Analytical Laboratory P æ Anal yt icla
11. Date of Analysis 10/10/24

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes x____No
Tank interiors _____Yes x____No
Vehicle types N/A

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck x____Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units pounds

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency 2x per month

3. Hauler Name and Address Miller Scrap
   1 Recycling Lane
   Winona, MN 55987

4. Bill to Name and Address Alliant Castings - attn: accounts payables
   1200 West 3rd Street
   winona, MN 55987
   email: ap@alliantcastings.com

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection	
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes ☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes ☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes ☐ No
4) Waste accepted for disposal?	☒ Yes ☐ No
5) Signature/Title	Bryce Gerke / Department Technician

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.
2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.
3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.
4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).
5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.
6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.
7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.
8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.
9. Signature _____
10. Title GM _____
11. Name (Type or print) Thomas Renk _____
12. Date 10/29/24 _____

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Alliant Castings, Inc
2. Generator Mailing Address 1200 West 3rd Street
3. Facility Address (site of waste generation) 1200 West 3rd Street
4. Generator City Winona
5. Generator State/Zip 55987
6. General Contact Person Tom Renk
   Phone # and email 507-474-2233 tom.renk@alliantcastings.com
7. Technical Contact Person Tom Renk
   Phone # and email 507-474-2233 tom.renk@alliantcastings.com

---

1. Name of Waste Foundry nobake sand
2. Process Generating Waste molding
3. Waste Color gray
4. Waste Odor x None ____ Mild ____ Strong
5. Physical State ____ None ____ Liquid ____ Semi-Solid Other sand
6. Free Liquids ____ Yes ____ % x No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A x
8. Flash Point (cc) x None ____ <140F ____ 140-199F ____ >200
9. a. Waste Composition:

	Range
sand	____ to ____ %
	____ to ____ %
	____ to ____ %
	____ to ____ %
	____ to ____ %

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS		x	
Cyanide		x	
Sulfide		x	
Phenol		x	
Chlorinated Solvents		x	
Aromatic Solvents		x	

10. Analytical Laboratory Pace Analytical
11. Date of Analysis 10/10/24

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes x No
Tank interiors _____Yes x No
Vehicle types N/A

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck X Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units pounds

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency 2x per month

3. Hauler Name and Address Pozanc Trucking
   157 Mankato Ave
   Winona, MN 55987

4. Bill to Name and Address Alliant Castings - attn: accounts payables
   1200 West 3rd Street
   winona, MN 55987
   email: ap@alliantcastings.com

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title Bryce Gerke / Department Technician		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.
2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.
3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.
4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).
5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.
6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.
7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.
8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.
9. Signature _____
10. Title GM _____
11. Name (Type or print) Thomas Renk _____
12. Date 10/29/24 _____

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

October 25, 2024

Marissa Gillett-Behrens
U.S. COMPLIANCE
520 Third Street
Suite 100
Excelsior, MN 55331

RE: Project: TCLP Sand Profiles (501874) AI
Pace Project No.: 10710575

Dear Marissa Gillett-Behrens:

Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2024. 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.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

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

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

Sincerely,

Bryan Nguyen

Bryan Nguyen
bryan.nguyen@pacelabs.com
612-656-2286
Project Manager

Enclosures

cc: Tom Renk

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: TCLP Sand Profiles (501874) Al
Pace Project No.: 10710575

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: TCLP Sand Profiles (501874) Al
Pace Project No.: 10710575

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10710575001	**01-Foundry Dust**	Solid	10/03/24 09:25	10/04/24 09:45
10710575002	**02-Slag**	Solid	10/03/24 09:00	10/04/24 09:45
10710575003	**03-Green Sand**	Solid	10/03/24 08:30	10/04/24 09:45
10710575004	**04-No-bake Sand**	Solid	10/03/24 08:05	10/04/24 09:45

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: TCLP Sand Profiles (501874) Al
Pace Project No.: 10710575

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10710575001	**01-Foundry Dust**	EPA 6010D	DM	10
		EPA 7470A	LMW	1
10710575002	**02-Slag**	EPA 6010D	IP	10
		EPA 7470A	LMW	1
10710575003	**03-Green Sand**	EPA 6010D	DM	10
		EPA 7470A	LMW	1
10710575004	**04-No-bake Sand**	EPA 6010D	DM	10
		EPA 7470A	LMW	1

PASI-M = Pace Analytical Services - Minneapolis

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: TCLP Sand Profiles (501874) Al
Pace Project No.: 10710575

Sample: 01-Foundry Dust **Lab ID: 10710575001** Collected: 10/03/24 09:25 Received: 10/04/24 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP MICRO	Analytical Method: EPA 6010D Preparation Method: EPA 3015A Leachate Method/Date: EPA 1311; 10/09/24 14:36 Pace Analytical Services - Minneapolis								
Arsenic	ND	mg/L	0.20	0.021	1	10/10/24 08:24	10/10/24 11:20	7440-38-2	
Barium	**270**	ug/L	100	18.7	1	10/10/24 08:24	10/10/24 11:20	7440-39-3	
Cadmium	ND	ug/L	30.0	2.6	1	10/10/24 08:24	10/10/24 11:20	7440-43-9	
Chromium	ND	ug/L	100	6.3	1	10/10/24 08:24	10/10/24 11:20	7440-47-3	
Copper	ND	ug/L	100	17.1	1	10/10/24 08:24	10/10/24 11:20	7440-50-8	
Lead	ND	ug/L	100	43.8	1	10/10/24 08:24	10/10/24 11:20	7439-92-1	
Nickel	**1840**	ug/L	200	10.2	1	10/10/24 08:24	10/10/24 11:20	7440-02-0	
Selenium	ND	ug/L	200	39.3	1	10/10/24 08:24	10/10/24 11:20	7782-49-2	
Silver	ND	ug/L	100	4.1	1	10/10/24 08:24	10/10/24 11:20	7440-22-4	
Zinc	**857**	ug/L	200	54.1	1	10/10/24 08:24	10/10/24 11:20	7440-66-6	
7470A Mercury, TCLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1311; 10/09/24 14:36 Pace Analytical Services - Minneapolis								
Mercury	ND	ug/L	0.60	0.29	1	10/10/24 07:54	10/10/24 12:05	7439-97-6	

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: TCLP Sand Profiles (501874) Al
Pace Project No.: 10710575

Sample: 02-Slag **Lab ID: 10710575002** Collected: 10/03/24 09:00 Received: 10/04/24 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP MICRO	Analytical Method: EPA 6010D Preparation Method: EPA 3015A Leachate Method/Date: EPA 1311; 10/14/24 13:05 Pace Analytical Services - Minneapolis								
Arsenic	ND	mg/L	0.20	0.021	1	10/15/24 08:10	10/15/24 12:21	7440-38-2	
Barium	ND	ug/L	100	18.7	1	10/15/24 08:10	10/15/24 12:21	7440-39-3	
Cadmium	ND	ug/L	30.0	2.6	1	10/15/24 08:10	10/15/24 12:21	7440-43-9	
Chromium	**3340**	ug/L	100	6.3	1	10/15/24 08:10	10/15/24 12:21	7440-47-3	
Copper	ND	ug/L	100	17.1	1	10/15/24 08:10	10/15/24 12:21	7440-50-8	
Lead	ND	ug/L	100	43.8	1	10/15/24 08:10	10/15/24 12:21	7439-92-1	
Nickel	**1680**	ug/L	200	10.2	1	10/15/24 08:10	10/15/24 12:21	7440-02-0	
Selenium	ND	ug/L	200	39.3	1	10/15/24 08:10	10/15/24 12:21	7782-49-2	
Silver	ND	ug/L	100	4.1	1	10/15/24 08:10	10/15/24 12:21	7440-22-4	
Zinc	ND	ug/L	200	54.1	1	10/15/24 08:10	10/15/24 12:21	7440-66-6	
7470A Mercury, TCLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1311; 10/14/24 13:05 Pace Analytical Services - Minneapolis								
Mercury	ND	ug/L	0.60	0.29	1	10/15/24 07:50	10/16/24 10:15	7439-97-6	

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: TCLP Sand Profiles (501874) Al
Pace Project No.: 10710575

Sample: 03-Green Sand **Lab ID: 10710575003** Collected: 10/03/24 08:30 Received: 10/04/24 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP MICRO	Analytical Method: EPA 6010D Preparation Method: EPA 3015A Leachate Method/Date: EPA 1311; 10/09/24 14:36 Pace Analytical Services - Minneapolis								
Arsenic	ND	mg/L	0.20	0.021	1	10/10/24 08:24	10/10/24 11:25	7440-38-2	
Barium	**274**	ug/L	100	18.7	1	10/10/24 08:24	10/10/24 11:25	7440-39-3	
Cadmium	ND	ug/L	30.0	2.6	1	10/10/24 08:24	10/10/24 11:25	7440-43-9	
Chromium	ND	ug/L	100	6.3	1	10/10/24 08:24	10/10/24 11:25	7440-47-3	
Copper	ND	ug/L	100	17.1	1	10/10/24 08:24	10/10/24 11:25	7440-50-8	
Lead	ND	ug/L	100	43.8	1	10/10/24 08:24	10/10/24 11:25	7439-92-1	
Nickel	ND	ug/L	200	10.2	1	10/10/24 08:24	10/10/24 11:25	7440-02-0	
Selenium	ND	ug/L	200	39.3	1	10/10/24 08:24	10/10/24 11:25	7782-49-2	
Silver	ND	ug/L	100	4.1	1	10/10/24 08:24	10/10/24 11:25	7440-22-4	
Zinc	**321**	ug/L	200	54.1	1	10/10/24 08:24	10/10/24 11:25	7440-66-6	
7470A Mercury, TCLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1311; 10/09/24 14:36 Pace Analytical Services - Minneapolis								
Mercury	ND	ug/L	0.60	0.29	1	10/10/24 07:54	10/10/24 12:07	7439-97-6	

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: TCLP Sand Profiles (501874) Al
Pace Project No.: 10710575

Sample: 04-No-bake Sand **Lab ID: 10710575004** Collected: 10/03/24 08:05 Received: 10/04/24 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP MICRO	Analytical Method: EPA 6010D Preparation Method: EPA 3015A Leachate Method/Date: EPA 1311; 10/09/24 14:36 Pace Analytical Services - Minneapolis								
Arsenic	ND	mg/L	0.20	0.021	1	10/10/24 08:24	10/10/24 11:27	7440-38-2	
Barium	ND	ug/L	100	18.7	1	10/10/24 08:24	10/10/24 11:27	7440-39-3	
Cadmium	ND	ug/L	30.0	2.6	1	10/10/24 08:24	10/10/24 11:27	7440-43-9	
Chromium	ND	ug/L	100	6.3	1	10/10/24 08:24	10/10/24 11:27	7440-47-3	
Copper	ND	ug/L	100	17.1	1	10/10/24 08:24	10/10/24 11:27	7440-50-8	
Lead	ND	ug/L	100	43.8	1	10/10/24 08:24	10/10/24 11:27	7439-92-1	
Nickel	**345**	ug/L	200	10.2	1	10/10/24 08:24	10/10/24 11:27	7440-02-0	
Selenium	ND	ug/L	200	39.3	1	10/10/24 08:24	10/10/24 11:27	7782-49-2	
Silver	ND	ug/L	100	4.1	1	10/10/24 08:24	10/10/24 11:27	7440-22-4	
Zinc	ND	ug/L	200	54.1	1	10/10/24 08:24	10/10/24 11:27	7440-66-6	
7470A Mercury, TCLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1311; 10/09/24 14:36 Pace Analytical Services - Minneapolis								
Mercury	ND	ug/L	0.60	0.29	1	10/10/24 07:54	10/10/24 12:08	7439-97-6	

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RSW017

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Bill's Pumping LLC
2. Generator Mailing Address W220 CTH JJ Rockland
3. Facility Address (site of waste generation) Same as Above
4. Generator City Wisconsin
5. Generator State/Zip 54653
6. General Contact Person Don Numsen
   Phone # and email 6087827633 billspumping@gmail.com
7. Technical Contact Person _____
   Phone # and email _____

---

1. Name of Waste Car Wash/Catch Basin
2. Process Generating Waste Clean out of car wash catch basins
3. Waste Color Brown
4. Waste Odor X None ____ Mild ____ Strong
5. Physical State X None ____ Liquid ____ Semi-Solid Other____
6. Free Liquids ____ Yes ____ % X No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/AX
8. Flash Point (cc) X None ____<140F ____140-199F ____>200
9. a. Waste Composition:

	Range
Sand/Dirt	99 to 100 %
Trash	0 to 1 %
	____ to ____ %
	____ to ____ %
	____ to ____ %

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	X	____
Cyanide	____	X	____
Sulfide	____	X	____
Phenol	____	X	____
Chlorinated Solvents	____	X	____
Aromatic Solvents	____	X	____

F10W24

10. Analytical Laboratory N/A
11. Date of Analysis _____

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes X No
Tank interiors _____Yes X No
Vehicle types Vac Truck

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck _____Dump Truck
   _____Roll-off _____Other Vac Truck
2. Waste Quantity/Units ~200 tons annually

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency As Needed
3. Hauler Name and Address Bills Pumping LLC
   W22 CTH JJ
   Rockland, WI 54653
4. Bill to Name and Address Same as above

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☑ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☑ Yes	☐ No
5) Signature/Title	[signature] / Solid Waste	

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature Jacob Numsen

10. Title Co-Owner

11. Name (Type or print) Jacob Numsen

12. Date 8-10-22

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name City of La Crosse
2. Generator Mailing Address 2000 Marco Drive, La Crosse WI, 54601
3. Facility Address (site of waste generation) 2000 Marco Drive
4. Generator City La Crosse
5. Generator State/Zip Wisconsin, 54601
6. General Contact Person Ashley Freeman
   Phone # and email 608-789-7508, freemana@cityoflacrosse.org
7. Technical Contact Person NA
   Phone # and email NA

---

1. Name of Waste Street Sweepings
2. Process Generating Waste Street Sweeper
3. Waste Color Brown
4. Waste Odor X None ____ Mild ____ Strong
5. Physical State ____ None ____ Liquid X Semi-Solid Other____
6. Free Liquids ____ Yes ____ % X No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A X
8. Flash Point (cc) X None _____<140F _____140-199F _____>200
9. a. Waste Composition:

	Range
Sand	99 to 100 %
	____ to ____ %
	____ to ____ %
	____ to ____ %
	____ to ____ %

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	X	____
Cyanide	____	X	____
Sulfide	____	X	____
Phenol	____	X	____
Chlorinated Solvents	____	X	____
Aromatic Solvents	____	X	____

10. Analytical Laboratory Davy Laboratories
11. Date of Analysis 9/14/23 & 10/5/23

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck X Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units 10 ton/per truckload

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency 10-20 loads per month

3. Hauler Name and Address City of La Crosse
   Street Department
   2000 Marco Drive, La Crosse, WI, 54601

4. Bill to Name and Address City of La Crosse
   Street Department
   2000 Marco Drive, La Crosse, WI, 54601

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection
1) Does waste meet requirements of the current Plan of Operations? ☐ Yes ☐ No
2) Is waste acceptable upon approval by WDNR? ☐ Yes ☐ No
3) Plan of Operations Approval Required? (Attach copy if yes) ☐ Yes ☐ No
4) Waste accepted for disposal? ☐ Yes ☐ No
5) Signature/Title Jackie Davis / Operations Coordinator

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature Ashley Freeman

10. Title Recycling Coordinator/Street Supervisor

11. Name (Type or print) Ashley Freeman

12. Date 10/10/23

DAVY LABORATORIES
A Division of Davy Engineering Co., Inc.
115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

Division of Davy Engineering Co.

LABORATORY ANALYSIS REPORT

La Crosse, City of , Street Department
Attn: Ashley Freeman
2000 Marcou Dr.
La Crosse, WI 54601

Date: September 25, 2023
Client No: 11388

Sample No: 23I0083-01
Sample Site: 2000 Marcou

Sample Collected: 06-Sep-23 09:00

Sample Received: 06-Sep-23 09:34

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Laboratory Results									
Particle Size Distribution (Sieve)	**5**	**% by Volume**			1	14-Sep-23 21:15	14-Sep-23 21:15	ASTM D421-85	Sub-5

Submitted by:
Davy Laboratories

Jennifer M. Buchholz
Jennifer M. Buchholz, Laboratory Director

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115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

LABORATORY ANALYSIS REPORT

La Crosse, City of , Street Department
Attn: Ashley Freeman
2000 Marcou Dr.
La Crosse, WI 54601

Date: September 25, 2023
Client No: 11388

Notes and Definitions

Sub-5	Wisconsin Laboratory Certification No. 157066030
LOD	Limit of Detection, adjusted for the dilution factor
LOQ/RL	Limit of Quantitation/Reporting Limit, adjusted for the dilution factor

Total metals are equivalent to total recoverable metals.

Cooler Information

Temperature °C	
Received on Ice	No
Required COC Information completed	Yes
Sample labels match COC	Yes
All samples received in the appropriate Containers	Yes
All samples received with sufficient volume	Yes
All samples received with sufficient holding time	Yes
All sample bottles received with H2SO4 were pH <2	No
All sample bottles received with HNO3 were pH <2	No
All sample bottles received with HCl were pH <2	No
All sample bottles received with NaOH were pH >12	No
All sample bottles for cyanide confirmed Sulfide absent	No
All sample bottles for cyanide confirmed Residual Cl absent	No

Preservation of VOC samples checked by the analyst.
Preservation of FOG samples checked by the analyst.
Residual Chlorine absent checked by the analyst unless noted above.

Case Narrative

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LABORATORY ANALYSIS REPORT

La Crosse, City of , Street Department
Attn: Ashley Freeman
2000 Marcou Dr.
La Crosse, WI 54601

Date: October 10, 2023
Client No: 11388

Sample No: 23J0015-01
Sample Site: Sweeper Dump
Sample Collected: 02-Oct-23 12:45
Sample Received: 02-Oct-23 13:00

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Subcontracted									
Free Liquid	**0**	**%**			1	05-Oct-23 00:00	05-Oct-23 00:00	EPA 9095B	A-01

Submitted by:
Davy Laboratories

Jennifer M. Buchholz
Jennifer M. Buchholz, Laboratory Director

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LABORATORY ANALYSIS REPORT

La Crosse, City of , Street Department
Attn: Ashley Freeman
2000 Marcou Dr.
La Crosse, WI 54601

Date: October 10, 2023
Client No: 11388

Notes and Definitions

Z-01	0
A-01	SUB 445023150
LOD	Limit of Detection, adjusted for the dilution factor
LOQ/RL	Limit of Quantitation/Reporting Limit, adjusted for the dilution factor

Total metals are equivalent to total recoverable metals.

Cooler Information

Temperature °C	
Received on Ice	No
Required COC Information completed	Yes
Sample labels match COC	Yes
All samples received in the appropriate Containers	Yes
All samples received with sufficient volume	Yes
All samples received with sufficient holding time	Yes
All sample bottles received with H2SO4 were pH <2	No
All sample bottles received with HNO3 were pH <2	No
All sample bottles received with HCl were pH <2	No
All sample bottles received with NaOH were pH >12	No
All sample bottles for cyanide confirmed Sulfide absent	No
All sample bottles for cyanide confirmed Residual Cl absent	No
Preservation of VOC samples checked by the analyst.	
Preservation of FOG samples checked by the analyst.	
Residual Chlorine absent checked by the analyst unless noted above.	

Case Narrative

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name City of La Crosse WWTP
2. Generator Mailing Address 905 Joseph Houska Park Drive
3. Facility Address (site of waste generation) 905 Joseph Houska Park Drive
4. Generator City La Crosse
5. Generator State/Zip 54601
6. General Contact Person Jared Greeno
   Phone # and email (608) 789-7322 greenoja@cityoflacrosse.org
7. Technical Contact Person Claire Jablonski
   Phone # and email (608) 799-4815 jablonskic@cityoflacrosse.org

---

1. Name of Waste Grit from Sewer Cleaning
2. Process Generating Waste Sewer Cleaning
3. Waste Color Brown / Gray
4. Waste Odor _____None X Mild _____ Strong
5. Physical State _____None _____Liquid X Semi-Solid Other_____
6. Free Liquids _____Yes _____% X No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0X 10.1-12.5____ >12.5____ N/A____
8. Flash Point (cc) X None _____<140F _____140-199F _____>200
9. a. Waste Composition:

	Range
Gravel	0 to 5 %
Coarse sand	0 to 10 %
Medium sand	30 to 50 %
Fine sand	40 to 60 %
Silt	0 to 5 %

b. Does Waste Contain	Yes	No	Do Not Know
PCBS		X	
Cyanide		X	
Sulfide		X	
Phenol		X	
Chlorinated Solvents		X	
Aromatic Solvents		X	

10. Analytical Laboratory Davy Labs / CT Labs
11. Date of Analysis 12/8/23 - 12/18/23 Multiple dates: see attached lab reports.

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck X Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units _____

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency As needed

3. Hauler Name and Address City of La Crosse WWTP
   905 Joseph Houska Park Drive
   La Crosse, WI 54601

4. Bill to Name and Address Same

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☑ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☑ Yes	☐ No
5) Signature/Title John Warnecke / Solid Waste Technician		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature Claire Jablonski

10. Title Stormwater Coordinator

11. Name (Type or print) Claire Jablonski

12. Date 1/2/2024

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(608) 782-3130
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LABORATORY ANALYSIS REPORT

La Crosse, City of
Attn: Claire Jablonski
905 Joseph Houska Dr.
La Crosse, WI 54601

Date: December 27, 2023
Client No: 00760

Sample No: 23L0193-01 Sample Collected: 04-Dec-23 09:15 Sample Received: 07-Dec-23 09:52
Sample Site: 1

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Laboratory Results									
Particle Size Distribution (Sieve)	**Attached**	**% by Volume**			1	18-Dec-23 00:00	18-Dec-23 00:00	ASTM D422	A-01
Subcontracted									
Corrosivity	**7.56**	**-----**			1	08-Dec-23 14:55	08-Dec-23 14:55	Chapter 7	Sub-5
Free Liquid	**0.0**	**%**			1	11-Dec-23 00:00	11-Dec-23 00:00	EPA 9095B	A-01a

Submitted by:
Davy Laboratories

Jennifer M. Buchholz
Jennifer M. Buchholz, Laboratory Director

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LABORATORY ANALYSIS REPORT

La Crosse, City of
Attn: Claire Jablonski
905 Joseph Houska Dr.
La Crosse, WI 54601

Date: December 27, 2023
Client No: 00760

Sample No: 23L0193-02 Sample Collected: 04-Dec-23 09:25 Sample Received: 07-Dec-23 09:52
Sample Site: 2

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Laboratory Results									
Particle Size Distribution (Sieve)	**Attached**	**% by Volume**			1	18-Dec-23 00:00	18-Dec-23 00:00	ASTM D422	A-01
Subcontracted									
Corrosivity	**7.31**	**-----**			1	08-Dec-23 14:55	08-Dec-23 14:55	Chapter 7	Sub-5
Free Liquid	**0.0**	**%**			1	11-Dec-23 00:00	11-Dec-23 00:00	EPA 9095B	A-01a

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LABORATORY ANALYSIS REPORT

La Crosse, City of
Attn: Claire Jablonski
905 Joseph Houska Dr.
La Crosse, WI 54601

Date: December 27, 2023
Client No: 00760

Sample No: 23L0193-03 Sample Collected: 07-Dec-23 08:50 Sample Received: 07-Dec-23 09:52
Sample Site: 3

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Subcontracted									
Corrosivity	**6.43**	**-----**			1	08-Dec-23 14:55	08-Dec-23 14:55	Chapter 7	Sub-5
Free Liquid	**0.0**	**%**			1	11-Dec-23 00:00	11-Dec-23 00:00	EPA 9095B	A-01a

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LABORATORY ANALYSIS REPORT

La Crosse, City of
Attn: Claire Jablonski
905 Joseph Houska Dr.
La Crosse, WI 54601

Date: December 27, 2023
Client No: 00760

Notes and Definitions

Z-01a	Attached
Z-01	0.0
Sub-5	Wisconsin Laboratory Certification No. 157066030
A-01a	SUB Lab Cert #: 445023150
A-01	Analyzed by Mi-Tech Services
LOD	Limit of Detection, adjusted for the dilution factor
LOQ/RL	Limit of Quantitation/Reporting Limit, adjusted for the dilution factor

Total metals are equivalent to total recoverable metals.

Cooler Information

Temperature °C	
Received on Ice	No
Required COC Information completed	Yes
Sample labels match COC	Yes
All samples received in the appropriate Containers	Yes
All samples received with sufficient volume	Yes
All samples received with sufficient holding time	Yes
All sample bottles received with H2SO4 were pH <2	No
All sample bottles received with HNO3 were pH <2	No
All sample bottles received with HCl were pH <2	No
All sample bottles received with NaOH were pH >12	No
All sample bottles for cyanide confirmed Sulfide absent	No
All sample bottles for cyanide confirmed Residual Cl absent	No

Preservation of VOC samples checked by the analyst.

Case Narrative

Sample 23L0193-03 could not be analyzed for particle size. The subcontract lab reported there was not any sediment in the sample. It was all rags and organic material.

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LABORATORY ANALYSIS REPORT

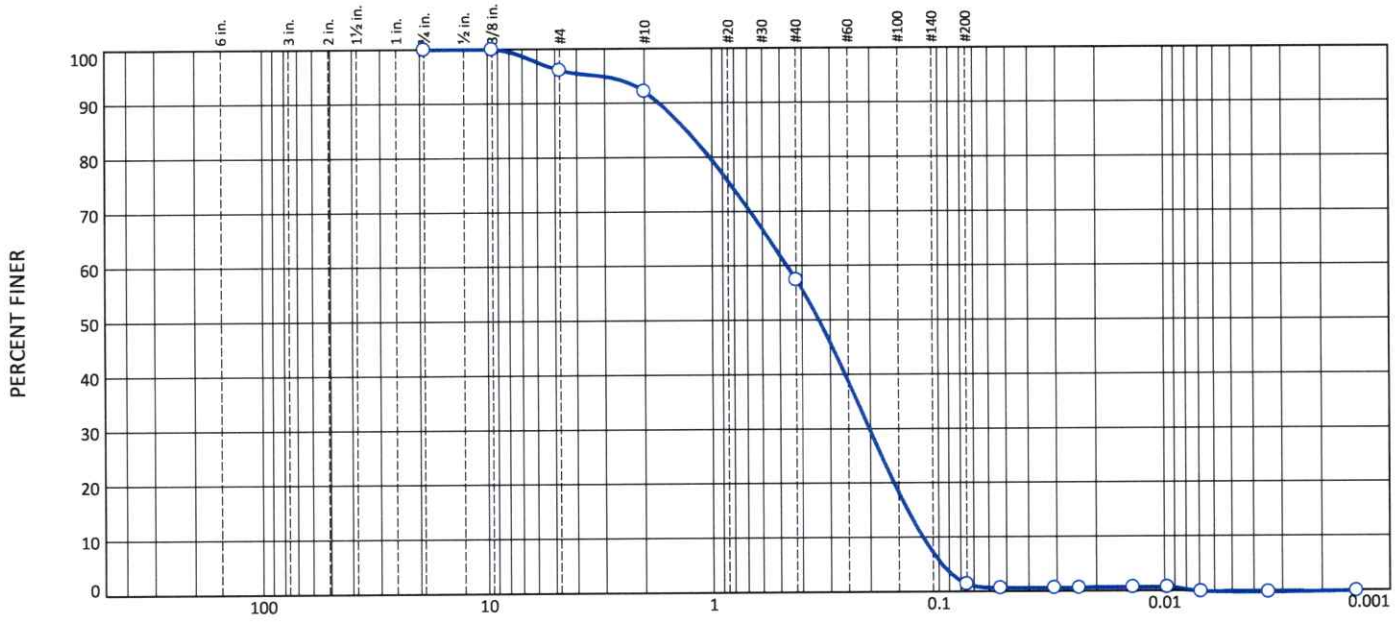
La Crosse, City of
Attn: Claire Jablonski
905 Joseph Houska Dr.
La Crosse, WI 54601

Date: December 27, 2023
Client No: 00760

Preservation of FOG samples checked by the analyst. Residual Chlorine absent checked by the analyst unless noted above.	

23LO193-01

Particle Size Distribution Report (Hydrometer Method)



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.9	4.0	34.7	56.0	1.4	

Test Results (ASTM D6913 & D1140, D7928)

Sieve Size or Diam. (mm.)	Finer (%)	Spec.* (%)	Out of Spec. (%)
0.75	100.0		
3/8	100.0		
#4	96.1		
#10	92.1		
#40	57.4		
#200	1.4		
0.0532 mm.	0.7		
0.0307 mm.	0.7		
0.0238 mm.	0.7		
0.0137 mm.	0.7		
0.0097 mm.	0.7		
0.0069 mm.			
0.0034 mm.			
0.0014 mm.			

* (no specification provided)

Sample Number: 1405106

Client Sample Description

23LO193-01

Sieve Test (ASTM D6913 & D1140)

Test Date: 12/13/23 **Technician:** CLZ

Test Notes

Hydrometer Test (ASTM D7928)

Test Date: 12/14/23 **Technician:** CLZ

Test Notes

Atterberg (ASTM D4318)

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 1.7232 D_{85}= 1.2983

D_{60}= 0.4671 D_{50}= 0.3360

D_{30}= 0.2022 D_{15}= 0.1370

D_{10}= 0.1173

C_u= 3.98 C_c= 0.75

USCS (ASTM D2487)

SP

Date Sampled: 12/04/23

Date Received: 12/12/23

Checked By: SMF

Title: Enviro. Manager

Mi-Tech Services, Inc.

Wausau, WI

Client: CT Laboratories

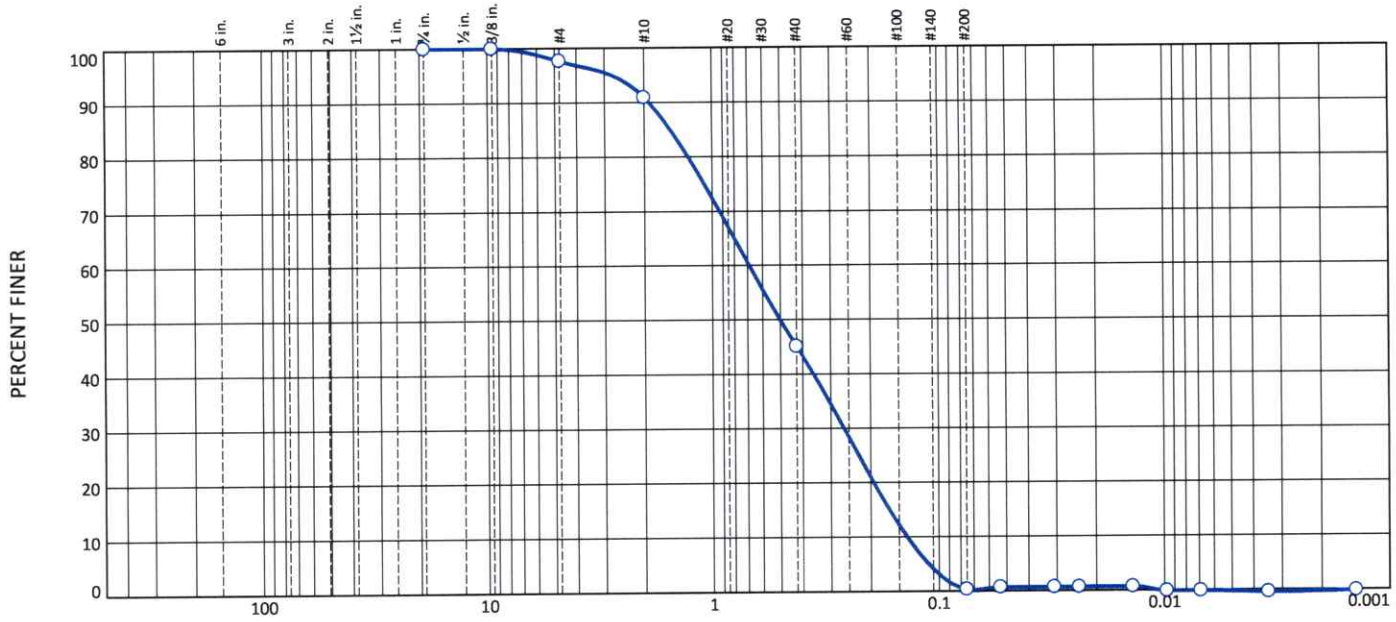
Project: 23LO193 WI

Project No: 12498 (PO #182670)

Figure # 1

23LO193-02

Particle Size Distribution Report (Hydrometer Method)



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	2.3	6.8	45.7	44.9	0.3	

Test Results (ASTM D6913 & D1140, D7928)

Sieve Size or Diam. (mm.)	Finer (%)	Spec.* (%)	Out of Spec. (%)
0.75	100.0		
3/8	100.0		
#4	97.7		
#10	90.9		
#40	45.2		
#200	0.3		
0.0532 mm.	0.7		
0.0307 mm.	0.7		
0.0238 mm.	0.7		
0.0137 mm.	0.7		
0.0097 mm.			
0.0069 mm.			
0.0034 mm.			
0.0014 mm.			

* (no specification provided)

Sample Number: 1405107

Client Sample Description

23LO193-02

Sieve Test (ASTM D6913 & D1140)

Test Date: 12/13/23 **Technician:** CLZ

Test Notes

Hydrometer Test (ASTM D7928)

Test Date: 12/14/23 **Technician:** CLZ

Test Notes

Atterberg (ASTM D4318)

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 1.9074 D_{85}= 1.5345

D_{60}= 0.6862 D_{50}= 0.5020

D_{30}= 0.2622 D_{15}= 0.1649

D_{10}= 0.1380

C_u= 4.97 C_c= 0.73

USCS (ASTM D2487)

SP

Date Sampled: 12/4/23

Date Received: 12/12/23

Checked By: SMF

Title: Enviro. Manager

Mi-Tech Services, Inc.

Wausau, WI

Client: CT Laboratories

Project: 23LO193 WI

Project No: 12498 (PO #182670)

Figure # 2

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

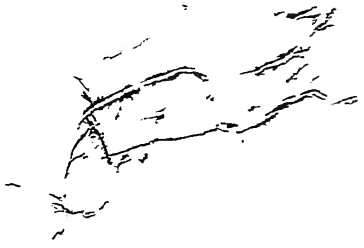
1. Generator Name City of Onalaska
2. Generator Mailing Address 415 Main St. Onalaska, WI 54650
3. Facility Address (site of waste generation) 252 Mason St.
4. Generator City Onalaska
5. Generator State/Zip WI, 54650
6. General Contact Person John Wiatt
   Phone # and email 608-780-8848 jwiatt@onalaskawi.gov
7. Technical Contact Person Ashlee Kramer
   Phone # and email 608-769-2878 akramer@onalaskawi.gov

---

1. Name of Waste Drain Sludge
2. Process Generating Waste Vehicle Washing
3. Waste Color Dark-Brown | Black
4. Waste Odor ____None __X__Mild ____Strong
5. Physical State ____None ____Liquid __X__ Semi-Solid Other____
6. Free Liquids ____Yes ____% __X__No
7. pH____ <2____ 2-4.0____ 4.1-7.0 X 7.1-10.0____ 10.1-12.5____ >12.5____ N/A____
8. Flash Point (cc) ____ None ____<140F __X__140-199F ____>200
9. a. Waste Composition:

	Range
Solid	92.5 to 92.5 %
Semi-solid	7.5 to 7.5 %
	____ to ____ %
	____ to ____ %
	____ to ____ %

b. Does Waste Contain	Yes	No	Do Not Know
PCBS	____	X	____
Cyanide	____	X	____
Sulfide	____	X	____
Phenol	____	X	____
Chlorinated Solvents	____	X	____
Aromatic Solvents	____	X	____



10. Analytical Laboratory Dairy Laboratories
11. Date of Analysis 9/19/24

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge ____Yes __x__No
Tank interiors ____Yes __x__No
Vehicle types Dump Trucks | Pickups | Loaders | Backhoes

PART C: TRANSPORTATION INFORMATION

1. Method of delivery ____Drum ____Paper Truck __x__Dump Truck
   ____Roll-off ____Other ____

2. Waste Quantity/Units ____

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency As-needed 2-3 times a year

3. Hauler Name and Address City of Onalaska

4. Bill to Name and Address City of Onalaska
   415 Main St.
   Onalaska, WI 54650

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection	
1) Does waste meet requirements of the current Plan of Operations?	☑ Yes ☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes ☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes ☐ No
4) Waste accepted for disposal?	☑ Yes ☐ No
5) Signature/Title	Bryce Gerke / Department Technician

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.
2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.
3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.
4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).
5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.
6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.
7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.
8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.
9. Signature _____
10. Title Public Works Director
11. Name (Type or print) John D. Wiatt
12. Date 9-17-24

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La Crosse, WI 54601
(608) 782-3130
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LABORATORY ANALYSIS REPORT

Onalaska, City of
Attn: Amber Beatse
415 Main St.
Onalaska, WI 54650

Date: October 07, 2024
Client No: 01310

Sample No: 24I0577-01 Sample Collected: 17-Sep-24 08:00 Sample Received: 18-Sep-24 14:39
Sample Site: PWF Wash Bay

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Laboratory Results									
Flashpoint	**>140**	**°F**			1	23-Sep-24 09:30	23-Sep-24 09:30	EPA 1010A	Sub-5
Oil & Grease (HEM)	**1370**	**mg/kg (dry wt.)**	45.0	175	1	25-Sep-24 08:35	25-Sep-24 08:35	EPA 1664B-2010	
pH, Lab	**8.73**	**pH Units**			1	24-Sep-24 16:18	24-Sep-24 16:18	EPA 9045 D	A-01, H1
% Solids	**92.5**	**% by Weight**			1	19-Sep-24 14:28	20-Sep-24 13:54	SM 2540 G-2011	
Subcontracted									
Free Liquid	**Absent**	**%**			1	24-Sep-24 07:51	24-Sep-24 07:51	EPA 9095B	Sub-5

Submitted by:
Davy Laboratories

Cody A. Ritchie
Cody A. Ritchie, Laboratory Director

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WI Certification 632021390 and WI DATCP 105-216, MN NELAC Certification 055-999-151, IA Certification 304. Revision #5 - 9/19/2024

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LABORATORY ANALYSIS REPORT

Onalaska, City of
Attn: Amber Beatse
415 Main St.
Onalaska, WI 54650

Date: October 07, 2024
Client No: 01310

Notes and Definitions

Z-01a	Absent
Z-01	>140
Sub-5	Wisconsin Laboratory Certification No. 157066030
H1	Sample received past analysis holding time.
A-01	20mL sample/40mL DI
LOD	Limit of Detection, adjusted for the dilution factor
LOQ/RL	Limit of Quantitation/Reporting Limit, adjusted for the dilution factor

Total metals are equivalent to total recoverable metals.

Cooler Information

Temperature 22.80 °C

Received on Ice	No
Required COC Information completed	Yes
Sample labels match COC	Yes
All samples received in the appropriate Containers	Yes
All samples received with sufficient volume	Yes
All samples received with sufficient holding time	Yes
All sample bottles received with H2SO4 were pH <2	No
All sample bottles received with HNO3 were pH <2	No
All sample bottles received with HCl were pH <2	No
All sample bottles received with NaOH were pH >12	No
All sample bottles for cyanide confirmed Sulfide absent	No
All sample bottles for cyanide confirmed Residual Cl absent	No

Preservation of VOC samples checked by the analyst.

Case Narrative

DAVY LABORATORIES
A Division of Davy Engineering Co., Inc.
115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

LABORATORY ANALYSIS REPORT

Onalaska, City of
Attn: Amber Beatse
415 Main St.
Onalaska, WI 54650

Date: October 07, 2024
Client No: 01310

Preservation of FOG samples checked by the analyst. Residual Chlorine absent checked by the analyst unless noted above.	

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name City of Onalaska
2. Generator Mailing Address 415 Main St, Onalaska, WI 54650
3. Facility Address (site of waste generation) City wide street sweeping
4. Generator City Onalaska
5. Generator State/Zip WI, 54650
6. General Contact Person Amber Beatse
   Phone # and email 608-781-9543, abeatse@onalaskawi.gov
7. Technical Contact Person John Wiatt
   Phone # and email 608-781-9543, jwiatt@onalaskawi.gov

---

1. Name of Waste Street Sweeping
2. Process Generating Waste Sweeping city streets of debris for stormwater compliance
3. Waste Color N/A
4. Waste Odor N/A None _____ Mild _____ Strong
5. Physical State N/A None _____ Liquid _____ Semi-Solid Other_____
6. Free Liquids N/A Yes _____ % _____ No
7. pH N/A <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A____
8. Flash Point (cc) N/A None _____<140F _____140-199F _____>200
9. a. Waste Composition:

	Range
N/A	_____ to _____%
	_____ to _____%
	_____ to _____%
	_____ to _____%
	_____ to _____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS			N/A
Cyanide			N/A
Sulfide			N/A
Phenol			N/A
Chlorinated Solvents			N/A
Aromatic Solvents			N/A

10. Analytical Laboratory N/A
11. Date of Analysis N/A

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes N/A No
Tank interiors _____Yes N/A No
Vehicle types N/A

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck X Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units _____

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency 4 times a month from April-November

3. Hauler Name and Address City of Onalaska Public Works Department
   252 Mason St, Onalaska, WI 54650

4. Bill to Name and Address City of Onalaska
   415 Main St, Onalaska, WI 54650

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title John Warnecke / Operations Technician		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.
2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.
3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.
4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).
5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.
6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.
7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.
8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.
9. Signature Amber Beatse
10. Title Public Works Office Supervisor
11. Name (Type or print) Amber Beatse
12. Date 4/10/2024

ANALYTICAL REPORT

CT Laboratories
Attn: Mr. Brett Szymanski
1230 Lange Court
Baraboo, WI 53913
bszymanski@ctlaboratories.com

PROJECT NAME:	**24D0373 (Onalaska Street Sweepings)**		
REPORT DATE:	04/23/24	CT LABS PO #	185514 MITECH
ANALYSIS:	SIEVE / HYDROMETER	MI-TECH #	12584
METHOD:	ASTM D7928 / D6913	DATE RECEIVED:	04/16/24

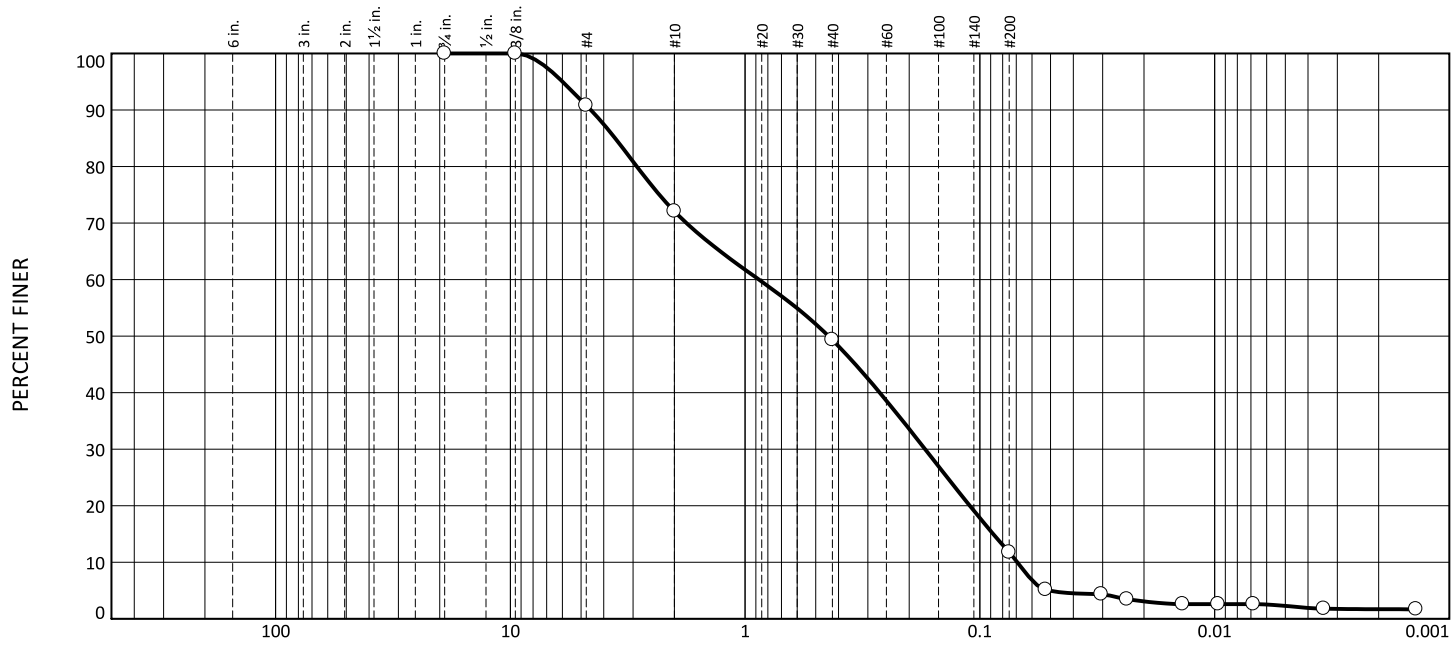
Dear Mr. Szymanski:

Analytical results for the above referenced project are enclosed. Thank you for your business.

Sincerely,
Mi-Tech Services, Inc.

Stephanie M. Finamore, M.S., P.G.
Environmental Manager

Particle Size Distribution Report (Hydrometer Method)



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	9.2	18.7	22.8	37.5	9.5	2.3

Test Results (ASTM D6913 & D1140, D7928)

Sieve Size or Diam. (mm.)	Finer (%)	Spec.* (%)	Out of Spec. (%)
0.75	100.0		
3/8	100.0		
#4	90.8		
#10	72.1		
#40	49.3		
#200	11.8		
0.0524 mm.	5.1		
0.0304 mm.	4.3		
0.0236 mm.	3.5		
0.0137 mm.	2.6		
0.0097 mm.	2.6		
0.0068 mm.	2.6		
0.0034 mm.	1.8		
0.0014 mm.	1.7		

* (no specification provided)

Sample Number: 1445948

Client Sample Description

24D0373-01

Sieve Test (ASTM D6913 & D1140)

Test Date: 4/16/24 **Technician:** CLZ

Test Notes

Hydrometer Test (ASTM D7928)

Test Date: 4/16/24 **Technician:** CLZ / NW

Test Notes

Significant amount of organics in sample (leaves, twigs, sticks, seeds)

Atterberg (ASTM D4318)

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 4.5395 D_{85}= 3.5781

D_{60}= 0.8732 D_{50}= 0.4409

D_{30}= 0.1712 D_{15}= 0.0877

D_{10}= 0.0692

C_u= 12.61 C_c= 0.48

USCS (ASTM D2487)

SP-SM

Date Sampled: 4/11/24

Date Received: 4/16/24

Checked By: SMF

Title: Enviro. Manager

Mi-Tech Services, Inc.

Wausau, WI

Client: CT Laboratories

Project: 24D0373 (Onalaska Street Sweepings)

Project No: 12584 (PO #185514)

Figure # 1

SUBCONTRACT ORDER

DAVY LABORATORIES
Division of Davy Engineering Co.

115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

Sending Laboratory:

Davy Laboratories
115 6th Street S
La Crosse, WI 54601
Phone: 608.782.3130
Fax: 608.784.6611

Project Manager: Julie Klimek

Subcontracted Laboratory:

CT Laboratories
1230 Lange Ct
Baraboo, WI 53913
Phone: (608) 356-2760

Folder #: 185514
Company: DAVY LABORATORIES
Project: GENERAL
Logged By: erc PM: BMS

Work Order: 24D0373

Analysis	Due	Expires	Comments
Sample ID: 24D0373-01 ***Solid Sampled: 04/11/2024 11:40***			
(SUB) Particle Size Analysis, Sieve ASTM D4	04/25/2024	05/09/2024 11:40	

Containers Supplied:
ZB_Ziplock Bag (Large) 9x13 (A)

1445948

Released By | Date | Received By | Date

Page 1 of 1

DAVY LABORATORIES
A Division of Davy Engineering Co., Inc.
115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

LABORATORY ANALYSIS REPORT

Onalaska, City of
Attn: Amber Beatse
415 Main St.
Onalaska, WI 54650

Date: April 24, 2024
Client No: 01310

Sample No: 24D0373-01
Sample Site: Street Sweepings

Sample Collected: 11-Apr-24 11:40

Sample Received: 11-Apr-24 13:14

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Laboratory Results									
Particle Size Distribution (Sieve)	**Attached**	**% by Volume**			1	16-Apr-24 11:28	16-Apr-24 11:29	ASTM D422	A-01

Submitted by:
Davy Laboratories

Julie A. Klimek
Julie A. Klimek, Laboratory Director

The laboratory analyses reported were determined in accordance with methods from approved authoritative sources. Approved authoritative sources are defined and listed within the respective state certification codes. The results are representative of the samples only; conditions can be expected to vary at different times and under different sampling conditions. This report may not be reproduced, except in full, without the written approval of the laboratory.
WI Certification 632021390 and WI DATCP 105-216, MN NELAC Certification 055-999-151, IA Certification 304. Revision #4 - 2/22/2024

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LABORATORY ANALYSIS REPORT

Onalaska, City of
Attn: Amber Beatse
415 Main St.
Onalaska, WI 54650

Date: April 24, 2024
Client No: 01310

Notes and Definitions

Z-01	Attached
A-01	Analyzed by Mi-Tech Services
LOD	Limit of Detection, adjusted for the dilution factor
LOQ/RL	Limit of Quantitation/Reporting Limit, adjusted for the dilution factor

Total metals are equivalent to total recoverable metals.

Cooler Information

Temperature °C	
Received on Ice	No
Required COC Information completed	Yes
Sample labels match COC	Yes
All samples received in the appropriate Containers	Yes
All samples received with sufficient volume	Yes
All samples received with sufficient holding time	Yes
All sample bottles received with H2SO4 were pH <2	No
All sample bottles received with HNO3 were pH <2	No
All sample bottles received with HCl were pH <2	No
All sample bottles received with NaOH were pH >12	No
All sample bottles for cyanide confirmed Sulfide absent	No
All sample bottles for cyanide confirmed Residual Cl absent	No
Preservation of VOC samples checked by the analyst.	
Preservation of FOG samples checked by the analyst.	
Residual Chlorine absent checked by the analyst unless noted above.	

Case Narrative

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Dahl Honda
2. Generator Mailing Address 3919 Creekside Lane
   Holmen, WI 54636
3. Facility Address (site of waste generation) 2520 Midwest Dr
4. Generator City Onalaska,
5. Generator State/Zip WI 54650
6. General Contact Person Justin Happel
   Phone # and email 608-317-9486 holmenpumping@yahoo.com
7. Technical Contact Person Justin Happel
   Phone # and email 608-317-9486 holmenpumping@yahoo.com

---

1. Name of Waste Car Wash Grit
2. Process Generating Waste Car Wash
3. Waste Color Brown/Black
4. Waste Odor ____None ✓ Mild ____ Strong
5. Physical State ____None ____Liquid ✓ Semi-Solid Other____
6. Free Liquids ____Yes ____% ____No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A____
8. Flash Point (cc) ____ None ____<140F ____140-199F ____>200
9. a. Waste Composition:

	Range
	____ to ____%
	____ to ____%
	____ to ____%
	____ to ____%
	____ to ____%

b. Does Waste Contain	Yes	No	Do Not Know
PCBS		✓	
Cyanide		✓	
Sulfide		✓	
Phenol		✓	
Chlorinated Solvents		✓	
Aromatic Solvents		✓	

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

November 02, 2022

Walk-In
Pace Analytical Green Bay
1941 Bellevue St.
Green Bay, WI 54302

RE: Project: HOLEMAN PUMPING SERVICES
Pace Project No.: 40253603

Dear Walk-In:

Enclosed are the analytical results for sample(s) received by the laboratory on October 24, 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,

Steven Mleczko
steve.mleczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Walk-In, PACE Analytical Services, LLC.

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

CERTIFICATIONS

Project: HOLEMAN PUMPING SERVICES
Pace Project No.: 40253603

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: HOLEMAN PUMPING SERVICES
Pace Project No.: 40253603

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40253603001	**CAR WASH CATCH BASIN WASTE**	Solid	10/20/22 00:00	10/24/22 15:07

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: HOLEMAN PUMPING SERVICES
Pace Project No.: 40253603

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40253603001	**CAR WASH CATCH BASIN WASTE**	EPA 9095	HNT	1	PASI-G
		ASTM D6913	AXW	14	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: HOLEMAN PUMPING SERVICES
Pace Project No.: 40253603

Sample: CAR WASH CATCH BASIN WASTE **Lab ID: 40253603001** Collected: 10/20/22 00:00 Received: 10/24/22 15:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9095 Paint Filter Liquid Test	Analytical Method: EPA 9095 Pace Analytical Services - Green Bay								
Free Liquids	**Pass**	no units			1		11/01/22 15:15		
ASTM D6913 Grain Size	Analytical Method: ASTM D6913 Pace Analytical Services - Green Bay								
Sieve 3.0"	**100.0**	%			1		10/26/22 12:36		
Sieve 2.0"	**100.0**	%			1		10/26/22 12:36		
Sieve 1.5"	**100.0**	%			1		10/26/22 12:36		
Sieve 1.0"	**100.0**	%			1		10/26/22 12:36		
Sieve 0.75"	**100.0**	%			1		10/26/22 12:36		
Sieve 0.375"	**100.0**	%			1		10/26/22 12:36		
Sieve #4	**99.3**	%			1		10/26/22 12:36		
Sieve #10	**97.8**	%			1		10/26/22 12:36		
Sieve #20	**92.9**	%			1		10/26/22 12:36		
Sieve #40	**79.8**	%			1		10/26/22 12:36		
Sieve #60	**54.1**	%			1		10/26/22 12:36		
Sieve #100	**17.8**	%			1		10/26/22 12:36		
Sieve #140	**8.6**	%			1		10/26/22 12:36		
Sieve #200	**5.1**	%			1		10/26/22 12:36		

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: HOLEMAN PUMPING SERVICES
Pace Project No.: 40253603

QC Batch: 430342
QC Batch Method: EPA 9095
Analysis Method: EPA 9095
Analysis Description: 9095 PAINT FILTER LIQUID TEST
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40253603001

METHOD BLANK: 2478248 Matrix: Solid
Associated Lab Samples: 40253603001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Free Liquids	no units	Fail		11/01/22 15:11	

LABORATORY CONTROL SAMPLE: 2478249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Free Liquids	no units		Pass			

SAMPLE DUPLICATE: 2478250

Parameter	Units	40253603001 Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids	no units	Pass	Pass			

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

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

QUALIFIERS

Project: HOLEMAN PUMPING SERVICES
Pace Project No.: 40253603

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.

BATCH QUALIFIERS

Batch: 429745

[1] coarse and fine sieved 10/27/22; test assisted by OMH

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HOLEMAN PUMPING SERVICES
Pace Project No.: 40253603

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40253603001	**CAR WASH CATCH BASIN WASTE**	EPA 9095	430342		
40253603001	**CAR WASH CATCH BASIN WASTE**	ASTM D6913	429745		

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
www.pacelabs.com

COC No. 40253603

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Holmen pumping service, inc
Branch/Location:	
Project Contact:	Justin Happel
Phone:	608-317-9486
Project Number:	
Project Name:	
Project State:	Wisconsin
Sampled By (Print	
Sampled By (Sign)	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Justin Happel
Mail To Company:	Holmen Pumping Servie
Mail To Address:	N15070 County Rd M Galesville, WI 54630
Invoice To Contact:	Justin Happel
Invoice To Company:	Holmen Pumping Servie
Invoice To Address:	N15070 County Rd M Galesville, WI 54630
Invoice To Phone:	608-317-9486

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Wate
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
Sl = Sludge	WP = Wipe

FILTERED? (YES/NO) PRESERVATION (CODE)*

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Y/N	Pick Letter	Analyses Requested: Free Liquids	Analyses Requested: P200 Particle Size	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
G01							x	x			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	Holmenpumping@yahoo.com
Email #2:	
Telephone:	608-317-9486
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
USPS	10/24/22 1430	Tampa Pace	10/24/22 1430

PACE Project No. 40253603

Receipt Temp = °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / ~~Not Present~~ Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

40253603

Car Wash Catch Basin Wastes

Tests Required	Test Method
Free Liquids	Paint Filter
P200	Particle Size Sieve Analysis

Sample Preservation Receipt Form

Client Name: Holmen Pumping Service Project # 40253603

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

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

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																									1									2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

TP 10/24/22

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	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40253603

40253603

Client Name: Holmen Pumping Service

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

Tracking #: 9505 5156 0962 2293 2963 96

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 - 110 **Type of Ice:** Wet Blue Dry (None) ☐ Meltwater Only

Cooler Temperature Uncorr: 22 /Corr: 22.5

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

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

Person examining contents:
Date: 10/24/22 Initials: TP

Labeled By Initials: NK

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. proj. name/#, Sample ID, date, time collected, PO #, preserve TP 10/24/22
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.
- DI 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.
Correct Type: Pace Green Bay, Pace IR, Non-Pace		
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: S	☐Yes ☑No ☐N/A	12. no ID, date, time TP 10/24/22
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 logi

GRAIN SIZE DISTRIBUTION TEST DATA

10/27/2022

Project Number: 10630557, 10630600, 40253603
Location: CAR WASH CATCH BASIN WASTE
Sample Number: 40253603-001
Material Description: Manual description: moist, somewhat compact, sandy silt
Geosystems description: poorly graded sand with silt
Sample Date: 10/20/22
Date Received: 10/24/22 **PL:** NP **LL:** NV **PI:** NP
USCS Classification: SP-SM **AASHTO Classification:** A-3
Grain Size Test Method: D6913 mod - Sieve Only
Testing Remarks: Batch 48406, HBN 429745; coarse and fine sieved 10/27/22; test assisted by OMH; 16.71g in catch pan (<#200)
Tested By: Anthony Wendel **Test Date:** 10/27/22
Checked By: Brandy Mahoney **Title:** Scientist

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
920.64	582.58	3"	0.00	0.00	100.0
		2"	0.00	0.00	100.0
		1.5"	0.00	0.00	100.0
		1"	0.00	0.00	100.0
		0.75"	0.00	0.00	100.0
		0.375"	0.00	0.00	100.0
		#4	2.43	0.00	99.3
		#10	5.09	0.00	97.8
		#20	16.44	0.00	92.9
		#40	44.40	0.00	79.8
		#60	86.94	0.00	54.1
		#100	122.45	0.00	17.8
		#140	31.26	0.00	8.6
		#200	11.81	0.00	5.1

Fractional Components

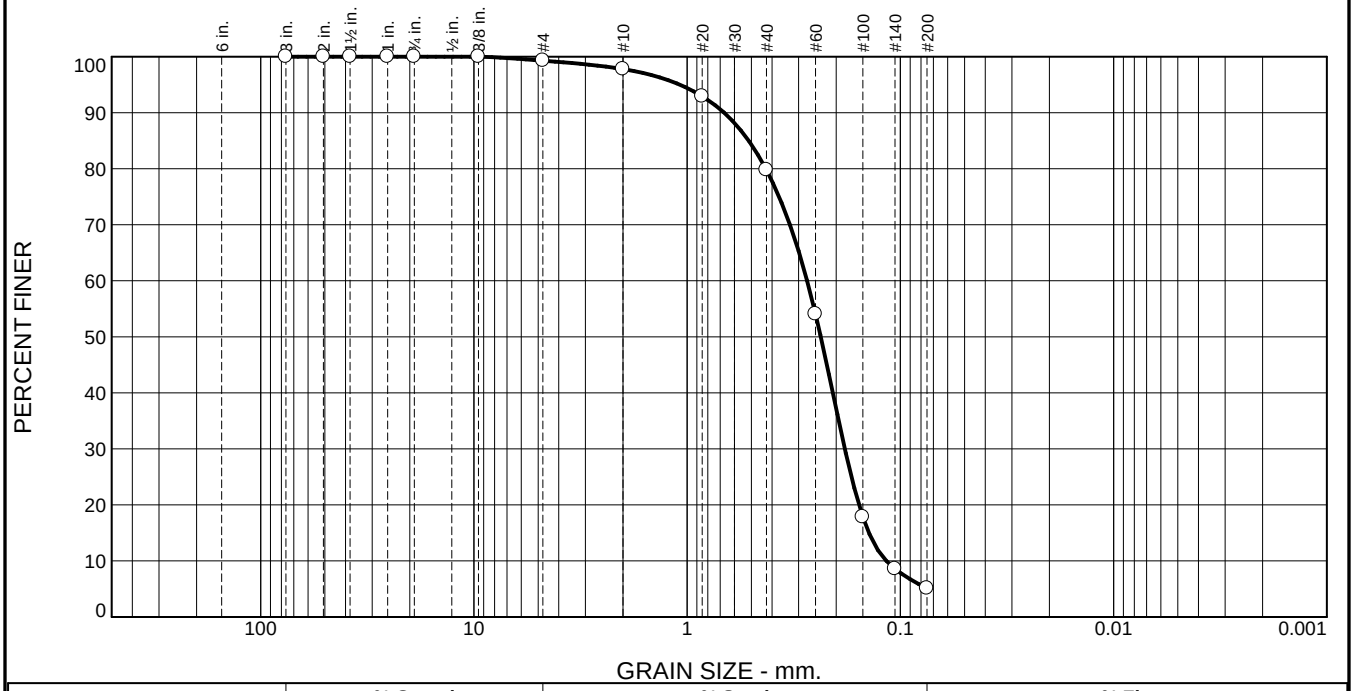
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.7	0.7	1.5	18.0	74.7	94.2			5.1

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
	0.1164	0.1405	0.1563	0.1821	0.2075	0.2363	0.2737	0.4280	0.5145	0.6710	1.0833

Fineness Modulus	C_u	C_c
1.36	2.35	1.04

Pace Analytical Services, Inc.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.7	1.5	18.0	74.7	5.1	

TEST RESULTS (D6913 mod - Sieve Only)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0		
2"	100.0		
1.5"	100.0		
1"	100.0		
0.75"	100.0		
0.375"	100.0		
#4	99.3		
#10	97.8		
#20	92.9		
#40	79.8		
#60	54.1		
#100	17.8		
#140	8.6		
#200	5.1		

* (no specification provided)

Material Description

Manual description: moist, somewhat compact, sandy silt
Geosystems description: poorly graded sand with silt

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SP-SM **AASHTO (M 145)=** A-3

Coefficients

D_{90}= 0.6710 D_{85}= 0.5145 D_{60}= 0.2737
D_{50}= 0.2363 D_{30}= 0.1821 D_{15}= 0.1405
D_{10}= 0.1164 C_u= 2.35 C_c= 1.04

Remarks

Batch 48406, HBN 429745; coarse and fine sieved 10/27/22; test assisted by OMH; 16.71g in catch pan (<#200)

Date Received: 10/24/22 **Date Tested:** 10/27/22

Tested By: Anthony Wendel

Checked By: Brandy Mahoney

Title: Scientist

Location: CAR WASH CATCH BASIN WASTE
Sample Number: 40253603-001

Date Sampled: 10/20/22

Pace Analytical Services, Inc.

Green Bay, WI

Client:
Project:

Project No: 10630557, 10630600, **Figure**

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Katz Industrial Metals, Inc
2. Generator Mailing Address PO Box 81, La Crosse, WI 54602
3. Facility Address (site of waste generation) 2535 East Ave S
4. Generator City La Crosse
5. Generator State/Zip WI 54601
6. General Contact Person Dirk Swanson
   Phone # and email 608-788-2800 dirk@katzmetals.com
7. Technical Contact Person _____
   Phone # and email _____

---

1. Name of Waste Steel Slag
2. Process Generating Waste Torch cutting steel
3. Waste Color Gray
4. Waste Odor __X__ None _____ Mild _____ Strong
5. Physical State _____ None _____ Liquid __X__ Semi-Solid Other_____
6. Free Liquids _____ Yes _____ % __X__ No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A____
8. Flash Point (cc) _____ None _____ <140F _____ 140-199F __X__ >200
9. a. Waste Composition:

	Range
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	X	_____
Cyanide	____	X	_____
Sulfide	____	X	_____
Phenol	____	X	_____
Chlorinated Solvents	____	X	_____
Aromatic Solvents	____	X	_____

10. Analytical Laboratory BRAUN/ PACE ANALYTICS
11. Date of Analysis _____

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes __X__No
Tank interiors _____Yes __X__No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck _____Dump Truck
   __X__Roll-off _____Other _____

2. Waste Quantity/Units _____

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency SEMI ANNUAL

3. Hauler Name and Address MIDWEST ROLLOFF
   608-788-2053

4. Bill to Name and Address KATZ INDUSTRIAL METALS, INC
   PO BOX 81
   LA CROSSE, WI 54602

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title Bryce Jerke / Department Technician		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature Dirk Swanson

10. Title President

11. Name (Type or print) Dirk Swanson

12. Date 8/12/24

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

July 23, 2024

John Wyciskalla
Braun Intertec Corporation
2309 Palace Street
La Crosse, WI 54603

RE: Project: B2406421 / KATZ METALS
Pace Project No.: 40281204

Dear John Wyciskalla:

Enclosed are the analytical results for sample(s) received by the laboratory on July 17, 2024. 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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CERTIFICATIONS

Project: B2406421 / KATZ METALS
Pace Project No.: 40281204

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: B2406421 / KATZ METALS
Pace Project No.: 40281204

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40281204001	**SLAG COMP.**	Solid	07/16/24 10:40	07/17/24 10:05

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SAMPLE ANALYTE COUNT

Project: B2406421 / KATZ METALS
Pace Project No.: 40281204

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40281204001	**SLAG COMP.**	EPA 6010D	SIS	7
		EPA 7470	RZA	1

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: B2406421 / KATZ METALS
Pace Project No.: 40281204

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40281204001	**SLAG COMP.**					
EPA 6010D	Barium	0.091	mg/L	0.0050	07/19/24 15:38	

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ANALYTICAL RESULTS

Project: B2406421 / KATZ METALS
Pace Project No.: 40281204

Sample: SLAG COMP. **Lab ID: 40281204001** Collected: 07/16/24 10:40 Received: 07/17/24 10:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP	Analytical Method: EPA 6010D Preparation Method: EPA 3015A Leachate Method/Date: EPA 1311; 07/17/24 15:01 Pace Analytical Services - Green Bay								
Arsenic	**<0.0083**	mg/L	0.025	0.0083	1	07/19/24 12:10	07/19/24 15:38	7440-38-2	
Barium	**0.091**	mg/L	0.0050	0.0015	1	07/19/24 12:10	07/19/24 15:38	7440-39-3	
Cadmium	**<0.0013**	mg/L	0.0050	0.0013	1	07/19/24 12:10	07/19/24 15:38	7440-43-9	
Chromium	**<0.0025**	mg/L	0.010	0.0025	1	07/19/24 12:10	07/19/24 15:38	7440-47-3	
Lead	**<0.0059**	mg/L	0.020	0.0059	1	07/19/24 12:10	07/19/24 15:38	7439-92-1	
Selenium	**<0.012**	mg/L	0.040	0.012	1	07/19/24 12:10	07/19/24 15:38	7782-49-2	
Silver	**<0.0032**	mg/L	0.010	0.0032	1	07/19/24 12:10	07/19/24 15:38	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Leachate Method/Date: EPA 1311; 07/17/24 15:01 Pace Analytical Services - Green Bay								
Mercury	**<0.066**	ug/L	0.20	0.066	1	07/23/24 08:37	07/23/24 13:22	7439-97-6	

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QUALITY CONTROL DATA

Project: B2406421 / KATZ METALS
Pace Project No.: 40281204

QC Batch: 480024
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40281204001

METHOD BLANK: 2749317 Matrix: Water
Associated Lab Samples: 40281204001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	07/23/24 12:55	

METHOD BLANK: 2746850 Matrix: Water
Associated Lab Samples: 40281204001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	07/23/24 13:53	

METHOD BLANK: 2747449 Matrix: Water
Associated Lab Samples: 40281204001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	07/23/24 13:32	

LABORATORY CONTROL SAMPLE: 2749318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.7	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2749319 2749320

Parameter	Units	40279772019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.11J	5	5	6.2	4.9	123	95	85-115	25	20	M0,R1

MATRIX SPIKE SAMPLE: 2749321

Parameter	Units	40281204001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.066	5	5.3	106	85-115	

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QUALITY CONTROL DATA

Project: B2406421 / KATZ METALS
Pace Project No.: 40281204

MATRIX SPIKE SAMPLE: 2749322

Parameter	Units	40281147001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.000066 mg/L	5	4.2	84	85-115	M0

MATRIX SPIKE SAMPLE: 2749323

Parameter	Units	40281111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.066	5	5.9	118	85-115	M0

MATRIX SPIKE SAMPLE: 2749324

Parameter	Units	40281015001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.000066 mg/L	5	5.1	102	85-115	

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QUALITY CONTROL DATA

Project: B2406421 / KATZ METALS
Pace Project No.: 40281204

QC Batch: 479877
QC Batch Method: EPA 3015A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET TCLP
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40281204001

METHOD BLANK: 2748282 Matrix: Water
Associated Lab Samples: 40281204001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0083	0.025	07/19/24 15:04	
Barium	mg/L	<0.0015	0.0050	07/19/24 15:04	
Cadmium	mg/L	<0.0013	0.0050	07/19/24 15:04	
Chromium	mg/L	<0.0025	0.010	07/19/24 15:04	
Lead	mg/L	<0.0059	0.020	07/19/24 15:04	
Selenium	mg/L	<0.012	0.040	07/19/24 15:04	
Silver	mg/L	<0.0032	0.010	07/19/24 15:04	

METHOD BLANK: 2747448 Matrix: Solid
Associated Lab Samples: 40281204001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0083	0.025	07/19/24 15:42	
Barium	mg/L	0.0017J	0.0050	07/19/24 15:42	
Cadmium	mg/L	<0.0013	0.0050	07/19/24 15:42	
Chromium	mg/L	<0.0025	0.010	07/19/24 15:42	
Lead	mg/L	<0.0059	0.020	07/19/24 15:42	
Selenium	mg/L	<0.012	0.040	07/19/24 15:42	
Silver	mg/L	<0.0032	0.010	07/19/24 15:42	

LABORATORY CONTROL SAMPLE: 2748283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.28	0.27	96	80-120	
Barium	mg/L	0.28	0.28	102	80-120	
Cadmium	mg/L	0.28	0.28	102	80-120	
Chromium	mg/L	0.28	0.28	100	80-120	
Lead	mg/L	0.28	0.29	103	80-120	
Selenium	mg/L	0.28	0.28	102	80-120	
Silver	mg/L	0.14	0.14	101	80-120	

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

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QUALITY CONTROL DATA

Project: B2406421 / KATZ METALS
Pace Project No.: 40281204

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2748284 2748285

Parameter	Units	40279772005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	<0.0083	0.28	0.28	0.27	0.27	97	95	75-125	2	20	
Barium	mg/L	1.7	0.28	0.28	2.0	2.0	95	93	75-125	0	20	
Cadmium	mg/L	0.032	0.28	0.28	0.32	0.32	104	105	75-125	1	20	
Chromium	mg/L	0.0059J	0.28	0.28	0.29	0.29	101	101	75-125	1	20	
Lead	mg/L	0.44	0.28	0.28	0.72	0.71	102	100	75-125	1	20	
Selenium	mg/L	<0.012	0.28	0.28	0.29	0.29	103	104	75-125	2	20	
Silver	mg/L	<0.0032	0.14	0.14	0.14	0.14	103	103	75-125	1	20	

MATRIX SPIKE SAMPLE: 2748286

Parameter	Units	40281111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.0083	0.28	0.27	97	75-125	
Barium	mg/L	0.85	0.28	1.1	100	75-125	
Cadmium	mg/L	0.0017J	0.28	0.29	104	75-125	
Chromium	mg/L	<0.0025	0.28	0.28	101	75-125	
Lead	mg/L	0.048	0.28	0.33	103	75-125	
Selenium	mg/L	<0.012	0.28	0.28	102	75-125	
Silver	mg/L	<0.0032	0.14	0.14	102	75-125	

MATRIX SPIKE SAMPLE: 2748287

Parameter	Units	40281147001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.017	0.28	0.28	100	75-125	
Barium	mg/L	5.3	0.28	5.5	80	75-125	
Cadmium	mg/L	<0.0027	0.28	0.29	105	75-125	
Chromium	mg/L	<0.0051	0.28	0.29	103	75-125	
Lead	mg/L	<0.012	0.28	0.31	107	75-125	
Selenium	mg/L	<0.024	0.28	0.29	106	75-125	
Silver	mg/L	<0.0064	0.14	0.15	105	75-125	

MATRIX SPIKE SAMPLE: 2748288

Parameter	Units	40281204001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.0083	0.28	0.27	95	75-125	
Barium	mg/L	0.091	0.28	0.37	101	75-125	
Cadmium	mg/L	<0.0013	0.28	0.28	102	75-125	
Chromium	mg/L	<0.0025	0.28	0.28	101	75-125	
Lead	mg/L	<0.0059	0.28	0.29	103	75-125	
Selenium	mg/L	<0.012	0.28	0.29	105	75-125	
Silver	mg/L	<0.0032	0.14	0.14	102	75-125	

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

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

QUALIFIERS

Project: B2406421 / KATZ METALS
Pace Project No.: 40281204

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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.

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B2406421 / KATZ METALS
Pace Project No.: 40281204

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40281204001	**SLAG COMP.**	EPA 3015A	479877	EPA 6010D	479941
40281204001	**SLAG COMP.**	EPA 7470	480024	EPA 7470	480106

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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: 40281204

ALL SHADED AREAS are for LAB USE ONLY

Company: Braun Intertec	Billing Information: Braun Intertec
Address: 2309 Palace St., LaCrosse, WI 54603	
Report To: John Wyciskalla	Email To: jwyciskalla@braunintertec.com
Copy To:	Site Collection Info/Address: 2535 East Ave, South
Customer Project Name/Number: Katz Metals / B2406421	State: WI County/City: LaCrosse Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET
Phone: 608-781-7277 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): David Bradshaw	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): David M. Bradshaw	Turnaround Date Required: STD 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 [ ] No Analysis:

Container Preservative Type **: U

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 _____

Analyses: TCLP Metals

Lab Profile/Line:

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:

* 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	TCLP Metals	Lab Sample # / Comments
Slag Comp.	SL	Comp.	7.16.24	10:40				3	X	001

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: (1)

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

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

Lab Tracking #: 2947935

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: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments: (1)

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 13 of 15

Relinquished by/Company: (Signature) Braun / David M. Bradshaw	d by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) Fedex	d by/Company: (Signature)	Date/Time: 7/17/24 1105
Relinquished by/Company: (Signature)	d by/Company: (Signature)	Date/Time:

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

1-902 returning please save room in bin

Sample Preservation Receipt Form

Client Name: Braun Project # 40281204

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

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

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																				1	2														2.5 / 5
002																																			2.5 / 5
003																																			2.5 / 5
004																																			2.5 / 5
005																																			2.5 / 5
006																																			2.5 / 5
007																																			2.5 / 5
008																																			2.5 / 5
009																																			2.5 / 5
010																																			2.5 / 5
011																																			2.5 / 5
012																																			2.5 / 5
013				mh 7/17/24																															2.5 / 5
014																																			2.5 / 5
015																																			2.5 / 5
016																																			2.5 / 5
017																																			2.5 / 5
018																																			2.5 / 5
019																																			2.5 / 5
020																																			2.5 / 5

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	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40281204

40281204

Client Name: Braun Intertec

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

Tracking #: 5092 4935 8126

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 - 120 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 0.0 /Corr: 0.0

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

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

Person examining contents:
Date: 7/10/24 /Initials: MH

Labeled By Initials: MH

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
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.
- DI 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:		8.
For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	
Correct Containers Used:	☑Yes ☐No	9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace		
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
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 logi

BRAUN INTERTEC
The Science You Build On.

200 Sieve Loss By Washing

ASTM D1140

Report Date: 07/18/2024

2309 Palace Street
La Crosse, WI 54603
Phone: 608-781-7277

Client:

Katz Metals
Accounts Payable
PO Box 81
La Crosse, WI 54602

Project:

B2406421
Katz Metals - Slag Sampling_La Crosse WI
2535 East Avenue South
La Crosse, WI 54601

Sample Information

Sample Number:	602389	**Sampled By:**	Bradshaw, David
Sampling Method:	Not Provided		
Location:	Other		
Location Details:	Slag Composite Sample		
Specification:	For Informational Purposes Only		
Sample Date:	07/16/2024	**Material:**	Not Given
Received Date:	07/16/2024	**Lab:**	2309 Palace Street, La Crosse, WI
Tested Date:	07/17/2024	**Tested By:**	Steele, Trevor

Laboratory Data

Loss By Washing (%):	5	**Method Used:**	Method A Soak In Water
Maximum Particle Size:	75 mm (3 inch) to 4.75 mm (No. 4)	**Soaking Time (min):**	30
Soil Classification:	Composite Slag Sample		

General

Results: The test is for informational purposes.

Timothy Felker 07/18/2024

Uncertainty was not taken into account in determining whether the test results meet the requirements. The results included in this report relate only to the items inspected or tested. Sampled per project specifications or industry standards. Also, this report is for the exclusive use of the addressed parties. We assume no responsibility to other parties regarding this report. The information indicated in this report shall not be reproduced, except in full, without prior written approval.

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name La Crosse County Highway Department
2. Generator Mailing Address 301 Carlson Road, West Salem, WI 54669
3. Facility Address (site of waste generation) La Crosse County
4. Generator City La Crosse County
5. Generator State/Zip WI
6. General Contact Person Joe Langeberg
   Phone # and email 608-786-3813
7. Technical Contact Person Jay Anderson
   Phone # and email 608-786-3817

---

1. Name of Waste Street Sweepings
2. Process Generating Waste Remove dirt, sand, and debri when sweeping roadways
3. Waste Color Brown, tan
4. Waste Odor x None ____ Mild ____ Strong
5. Physical State ____ None ____ Liquid x Semi-Solid Other____
6. Free Liquids ____ Yes ____ % x No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A x
8. Flash Point (cc) x None ____ <140F ____ 140-199F ____ >200
9. a. Waste Composition:

	Range
Dirt	10 to 20 %
Sand	70 to 80 %
Misc	0 to 10 %
	____ to ____ %
	____ to ____ %

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS			x
Cyanide			x
Sulfide			x
Phenol			x
Chlorinated Solvents			x
Aromatic Solvents			x

10. Analytical Laboratory Davy Laboratories
11. Date of Analysis 12-27-23

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes x No
Tank interiors _____Yes x No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck x Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units 20 ton truck

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency as needed

3. Hauler Name and Address La Crosse County Highway Dept
   301 Carlson Road, West Salem, WI 54669

4. Bill to Name and Address Attn: Amy Braun, La Crosse County Highway Dept
   301 Carlson Road, West Salem, WI 54669

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☑ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☑ Yes	☐ No
5) Signature/Title John Warnecke / Solid Waste Technician		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

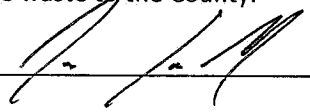
4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature  _____

10. Title Highway Commissioner _____

11. Name (Type or print) Joe Langeberg _____

12. Date 12-28-23 _____

DAVY LABORATORIES
A Division of Davy Engineering Co., Inc.
115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

LABORATORY ANALYSIS REPORT

La Crosse Hwy Dept.
Attn: Jay Anderson
301 Carlson Rd
West Salem, WI 54669

Date: December 27, 2023
Client No: 5006

Sample No: 23L0242-01
Sample Site: Midway Shop
Sample Collected: 08-Dec-23 10:45
Sample Received: 11-Dec-23 08:33

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Laboratory Results									
Particle Size Distribution (Sieve)	**3**	**% by Volume**			1	12-Dec-23 00:00	12-Dec-23 00:00	ASTM D421-85	Sub-5
Subcontracted									
Free Liquid	**0.00**	**%**			1	15-Dec-23 00:00	15-Dec-23 00:00	EPA 9095B	A-01

Submitted by:
Davy Laboratories

Jennifer M. Buchholz
Jennifer M. Buchholz, Laboratory Director

The laboratory analyses reported were determined in accordance with methods from approved authoritative sources. Approved authoritative sources are defined and listed within the respective state certification codes. The results are representative of the samples only; conditions can be expected to vary at different times and under different sampling conditions. This report may not be reproduced, except in full, without the written approval of the laboratory.
WI Certification 632021390 and WI DATCP 105-216, MN NELAC Certification 055-999-151, IA Certification 304. Revision #3 - 7/29/2019

DAVY LABORATORIES
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115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

LABORATORY ANALYSIS REPORT

La Crosse Hwy Dept.
Attn: Jay Anderson
301 Carlson Rd
West Salem, WI 54669

Date: December 27, 2023
Client No: 5006

Notes and Definitions

Z-01	0.00
Sub-5	Wisconsin Laboratory Certification No. 157066030
A-01	WI DNR Cert # 445023150
LOD	Limit of Detection, adjusted for the dilution factor
LOQ/RL	Limit of Quantitation/Reporting Limit, adjusted for the dilution factor

Total metals are equivalent to total recoverable metals.

Cooler Information

Temperature °C	
Received on Ice	No
Required COC Information completed	Yes
Sample labels match COC	Yes
All samples received in the appropriate Containers	Yes
All samples received with sufficient volume	Yes
All samples received with sufficient holding time	Yes
All sample bottles received with H2SO4 were pH <2	No
All sample bottles received with HNO3 were pH <2	No
All sample bottles received with HCl were pH <2	No
All sample bottles received with NaOH were pH >12	No
All sample bottles for cyanide confirmed Sulfide absent	No
All sample bottles for cyanide confirmed Residual Cl absent	No

Preservation of VOC samples checked by the analyst.
Preservation of FOG samples checked by the analyst.
Residual Chlorine absent checked by the analyst unless noted above.

Case Narrative

DAVY LABORATORIES
A Division of Davy Engineering Co., Inc.
115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

LABORATORY ANALYSIS REPORT

La Crosse Hwy Dept.
Attn: Jay Anderson
301 Carlson Rd
West Salem, WI 54669

Date: December 27, 2023
Client No: 5006

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Mid-City Steel Inc
2. Generator Mailing Address 115 Buchner Place LaCrosse, WI 54601
3. Facility Address (site of waste generation) 115 Buchner Place
4. Generator City La Crosse
5. Generator State/Zip WI, 54601
6. General Contact Person Steven B Beck
   Phone # and email 608-793-2316 sbeck@mid-citysteel.com
7. Technical Contact Person Tim Becker
   Phone # and email 608-793-2313

---

1. Name of Waste Coal Slag
2. Process Generating Waste Blasting
3. Waste Color Grey/Brown
4. Waste Odor _____None __x__Mild _____ Strong
5. Physical State _____None _____Liquid __x__ Semi-Solid Other_____
6. Free Liquids _____Yes _____% __x__No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A x ____
8. Flash Point (cc) __x__ None _____<140F _____140-199F _____>200
9. a. Waste Composition:

	Range
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	____	_____
Cyanide	____	____	_____
Sulfide	____	____	_____
Phenol	____	____	_____
Chlorinated Solvents	____	____	_____
Aromatic Solvents	____	____	_____

10. Analytical Laboratory N/A
11. Date of Analysis N/A

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck _____Dump Truck
   X Roll-off _____Other _____

2. Waste Quantity/Units 1 Roll Off at a time

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency As needed (approximately 15-20 tons per month)

3. Hauler Name and Address Mid-West Rolloff
   N5059 Green Coulee Rd
   Onalaska, WI

4. Bill to Name and Address Mid-West Rolloff
   N5059 Green Coulee Rd
   Onalaska, WI

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection
1) Does waste meet requirements of the current Plan of Operations? ■ Yes ☐ No
2) Is waste acceptable upon approval by WDNR? ☐ Yes ☐ No
3) Plan of Operations Approval Required? (Attach copy if yes) ☐ Yes ☐ No
4) Waste accepted for disposal? ■ Yes ☐ No
5) Signature/Title _____/_____

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature Steven B Beck _____

10. Title Operations Leader _____

11. Name (Type or print) Steven B Beck _____

12. Date 9/26/22 _____

Safety Data Sheet

Material Name: Coal Slag

Click to View
Spanish Translation.

* * *Section 1 - IDENTIFICATION* * *

Material Name:
Coal Slag
Trade Name:
Black Magnum™, Black Diamond
Recommended Use:
Abrasives, Roofing Granules and other aggregate uses.
Restrictions on Use:
None known.

Manufacturer Information

US Minerals, Inc.
18635 West Creek Drive
Tinley Park, IL 60477

Phone: (708) 623-1935
Fax: 219-864-4675
Emergency # (800) 803-2803; (800) 424-9300 (ChemTrec)

* * *Section 2 - HAZARDS IDENTIFICATION* * *

OSHA (29 CFR 1910.1200) Classification of Coal Slag (CAS # 68476-96-0):

Hazard Symbol	Hazard Classification	Signal Word	Hazard Statement
	Single Target Organ Toxicity (STOT) Repeated Exposure Category 2 (Respiratory System)	Warning	May cause damage to lungs (pulmonary fibrosis) through prolonged or repeated exposure.

Precautionary Statements		
Prevention	**Response**	**Disposal**
Do not breathe dusts.	Get medical advice/attention if you feel unwell.	Dispose of contents in accordance with federal, state/provincial and local regulations

Hazards not Otherwise Classified: None Known.

Unknown Acute Toxicity Statement (Mixture): None Known.

* * *Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS* * *

CAS Number	Components of Coal Slag	Percent %
60676-86-0	Amorphous Fused Silicon Dioxide	40-50
1344-28-1	Aluminum oxide	18-22
1309-37-1	Iron oxide	5-12
1305-78-8	Calcium Oxide	15-22
12136-45-7	Potassium Oxide	0-1
13463-67-7	Titanium Oxide	1-2
1309-48-4	Magnesium Oxide	3-5
1313-59-3	Sodium Oxide	0-1
14808-60-7	Crystalline Silica as Quartz	0-0.6
14464-46-1	Crystalline Silica as Cristobalite	<0.01
7440-41-7	Beryllium	0-0.00005

* * *Section 4 - FIRST AID MEASURES* * *

Description of Necessary Measures

Inhalation

Remove to fresh air. Get medical attention if you feel unwell.

Skin

Product is not a skin sensitizer. Wash skin thoroughly with water and soap. Remove contaminated clothing. Get medical advice/attention if symptoms occur.

Eyes:

Immediately flush eyes with water for at least several minutes. Remove contact lenses, if present and easy to do. Do not rub eyes. Continue rinsing. If irritation persists, get medical attention.

Ingestion

If a large amount is swallowed, rinse out mouth. Give water to drink. Do not induce vomiting. Get medical attention if symptoms occur.

Most Important Symptoms/Effects, Acute and Delayed (Chronic)

Acute Effects

Inhalation: Excessive exposure to high concentrations of dust may cause irritation to the mucous membranes of the upper respiratory tract.
Eye: Excessive exposure to high concentrations of dust may cause irritation to the eyes.
Skin: Skin contact with dusts may cause irritation or dermatitis.
Ingestion: Ingestion of dust may cause nausea and/or vomiting.

Chronic Effects

Prolonged and repeated inhalation exposure to excessive concentrations of dusts may cause pulmonary fibrosis.

Immediate Medical Attention and Special Treatment: Treat symptomatically.

* * *Section 5 - FIRE FIGHTING MEASURES* * *

Suitable (and Unsuitable) Extinguishing Media

Use extinguishing agents appropriate for surrounding fire.

Specific Hazards Arising from the Chemical

Not applicable for solid product.

Hazardous Combustion Products

None known

Special Protective Equipment and Precautions for Firefighters

Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure to fumes and/or smoke from the fire. Do not release runoff from fire control methods to sewers or waterways.

* * *Section 6 - ACCIDENTAL RELEASE MEASURES* * *

Personal Precautions, Protective Equipment and Emergency Procedures

For spills involving finely divided particles, clean-up personnel should be protected against contact with eyes and skin. If material is in a dry state, avoid inhalation of dust. Fine, dry material should be removed by vacuuming or wet weeping methods to prevent spreading of dust. Avoid use compressed air to air sweep surfaces. Do not release into sewers or waterways.

Methods and Materials for Containment and Cleaning Up

Collect spilled material in appropriate, labeled container for recovery or disposal in accordance with federal, state/provincial, and local regulations.

* * *Section 7 - HANDLING AND STORAGE* * *

Precautions for Safe Handling

Do not breathe dust. Wear protective gloves / protective clothing / eye protection, as applicable. Emergency safety shower and eye wash stations should be present.

Conditions for Safe Storage, including any Incompatibilities

Store away from incompatibles such as strong acids and bases.

* * *Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION* * *

Component Exposure Limits

Iron oxide (CAS # 1309-37-1)

ACGIH: 5 mg/m^3 TWA (respirable fraction)
NIOSH: 5 mg/m^3 TWA (as Fe, dust and fume)
OSHA: 10 mg/m^3 TWA (fume); 15 mg/m^3 TWA (total dust); 5 mg/m^3 TWA (respirable fraction)
Mexico: 5 mg/m^3 TWA LMPE-PPT
10 mg/m^3 STEL [LMPE-CT] (as Fe)

Amorphous Fused Silicon Dioxide (CAS # 60676-86-0)

NIOSH: 6 mg/m^3 TWA
OSHA: 80 mg/m^3 / % SiO_2 TWA

Calcium oxide (CAS # 1305-78-8)

ACGIH: 2 mg/m^3 TWA
NIOSH: 2 mg/m^3 TWA
25 mg/m3 IDLH
OSHA: 5 mg/m^3 TWA
Mexico: 2 mg/m^3 TWA LMPE-PPT

Aluminum oxide (CAS # 1344-28-1)

OSHA: 15 mg/m^3 TWA (total dust); 5 mg/m^3 TWA (respirable fraction)
Mexico: 10 mg/m^3 TWA LMPE-PPT

Appropriate Engineering Controls

Local exhaust ventilation should be used to control the emissions of air contaminants below recommended exposure limits. General dilution ventilation may assist with the reduction of air contaminant concentrations. Emergency eye wash stations and deluge safety showers should be available in the work area.

Individual Protection Measures:

Respiratory Protection:

Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, use only a NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. Concentration in air of the various contaminants determines the extent of respiratory protection needed.

Half-face, negative-pressure, air-purifying respirator equipped with P100 filter is acceptable for concentrations up to 10 times the exposure limit. Full-face, negative-pressure, air-purifying respirator equipped with P100 filter is acceptable for concentrations up to 50 times the exposure limit. Protection by air-purifying negative-pressure and powered air respirators is limited. Use a positive-pressure-demand, full-face, supplied air respirator or self-contained breathing apparatus (SCBA) for concentrations above 50 times the exposure limit. If exposure is above the IDLH (immediately dangerous to life or health) for any of the constituents, or there is a possibility of an uncontrolled release or exposure levels are unknown, then use a positive-demand, full-face, supplied air respirator with escape bottle or SCBA.

Warning! Air-purifying respirators both negative-pressure, and powered-air do not protect workers in oxygen-deficient atmospheres.

Eyes:

Wear eye protection/face protection. Chemical goggles, face shields or glasses should be worn to prevent eye contact. Contact lenses should not be worn where particulate exposure to this material is likely.

Skin:

Persons handling this product should wear appropriate clothing to prevent skin contact. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

* * *Section 9 - PHYSICAL AND CHEMICAL PROPERTIES* * *

Physical State:	Coarse Solid	**Appearance:**	Black, granular shiny solid
Color:	Black	**Physical Form:**	Solid
Odor:	No characteristic odor	**Odor Threshold:**	Not available
pH:	Not available	**Melting Point:**	Not available
Boiling Point:	Not applicable	**Flash Point:**	Not applicable
Decomposition:	Not available	**Evaporation Rate:**	Not available
Vapor Density (air = 1):	Not applicable	**Upper/Lower Flammability or Explosive Limits**	Not applicable
Specific Gravity (water = 1):	Not available	**Vapor Pressure:**	Not applicable
Log KOW:	Not available	**Density:**	Not available
Viscosity	Not available	**Water Solubility:**	Marginal

* * *Section 10 - STABILITY AND REACTIVITY* * *

Reactivity

No reactivity hazard is expected.

Chemical Stability

Coal slag is stable at normal temperature and pressure.

Possibility of Hazardous Reactions

None Known.

Conditions to Avoid

None known.

Incompatible Materials

Strong acids or bases

Hazardous Decomposition Products

None known.

* * * Section 11 - TOXICOLOGICAL INFORMATION * * *

Acute Toxicity Values:

Coal Slag	Oral LD50 Rat	>2,000 mg/kg
	Dermal LD50 Rabbit	>2,000 mg/kg
Iron Oxide	Oral LD50 Rat	>10,000 mg/kg
Amorphous Silicon Dioxide	Oral LD50 Rat	>5,000 mg/kg
	Dermal LD50 Rabbit	>2,000 mg/kg
Aluminum Oxide	Oral LD50 Rat	>5,000 mg/kg
Calcium Oxide	Oral LD50 Rat	>2,000 mg/kg

No **Skin (Dermal) Irritation** data has been determined for Coal Slag as a mixture. The following is available for components:

Calcium Oxide and Iron Oxide: Moderately irritating.

No **Eye Irritation** data has been determined for Coal Slag as a mixture or its individual components.

No **Skin (Dermal)/Respiratory Sensitization** data has been determined for Coal Slag as a mixture or its individual components.

No **Aspiration Hazard** data has been determined for Coal Slag as a mixture or its individual components.

No **Germ Cell Mutagenicity** data has been determined for Coal Slag as a mixture or its individual components.

Carcinogenicity: Coal Slag **is not** listed as a carcinogen by IARC, NTP, NIOSH, and OSHA. The following information was identified for the components:

Iron Oxide: ACGIH A4 – Not Classifiable as a Human Carcinogen.
Beryllium: NTP and IARC – Known to be a Human Carcinogen.
Crystalline Silica: NTP and IARC – Known to be a Human Carcinogen.

No **Toxic Reproductive** data has been determined for Coal Slag as a mixture or its individual components.

No **Specific Target Organ Toxicity (STOT) following Single Exposure** data has been determined for Coal Slag as a mixture. The following information was identified for the components:

Calcium Oxide: Can cause respiratory tract irritation, skin and eye irritation.

Specific Target Organ Toxicity (STOT) following Prolonged or Repeated Exposure data has been determined for Coal Slag as a mixture and for its individual components. The following information was identified for the components:

Coal Slag: Repeated or prolonged inhalation exposure to excessive concentrations of coal slag can cause lung fibrosis.
Iron Oxide: Repeated or prolonged inhalation exposure of excessive concentrations of iron oxide dust can cause a benign lung disease, called Siderosis.

* * *Section 12 - ECOLOGICAL INFORMATION* * *

Ecotoxicity (aquatic and terrestrial)

Coal slag is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment

Persistence and Degradability

No data available for coal slag.

Bioaccumulative Potential

No data available for coal slag.

Mobility

No data available for coal slag.

* * *Section 13 - DISPOSAL CONSIDERATIONS* * *

Disposal Methods

Dispose in accordance with all applicable regulations. Observe safe handling procedures.

* * *Section 14 - TRANSPORT INFORMATION* * *

Coal Slag does not have a Transport Dangerous Goods (TDG) classification.

U.S. Department of Transportation, DOT (49 CFR 172.101):

Shipping Name: Coal Slag is Not Regulated.

International Maritime Dangerous Goods (IMDG):

Shipping Name: Coal Slag is Not Regulated.

* * *Section 15 - REGULATORY INFORMATION* * *

Component Analysis

U.S. Federal Regulations

Coal Slag contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), and TSCA 12(b).

Aluminum oxide (1344-28-1)

SARA 313: 1.0 % de minimis concentration (fibrous forms)

SARA 311/312 Hazardous Categories

Acute Health: Yes **Chronic Health:** Yes **Fire:** No **Pressure:** No **Reactive:** No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Iron oxide	1309-37-1	Yes	Yes	Yes	Yes	Yes
Amorphous Silicon Dioxide	60676-86-0	Yes	Yes	Yes	Yes	Yes
Calcium oxide	1305-78-8	Yes	Yes	Yes	Yes	Yes
Aluminum oxide	1344-28-1	Yes	Yes	Yes	Yes	Yes
Titanium oxide	13463-67-7	Yes	Yes	No	Yes	Yes
Potassium oxide	12136-45-7	Yes	Yes	No	Yes	Yes
Magnesium oxide	1309-48-4	Yes	Yes	No	Yes	Yes
Sodium oxide	1313-59-3	Yes	Yes	Yes	Yes	Yes

Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
Iron oxide	1309-37-1	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Amorphous Silicon Dioxide	60676-86-0	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Calcium oxide	1305-78-8	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Aluminum oxide	1344-28-1	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Titanium oxide	13463-67-7	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes
Potassium oxide	12136-45-7	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes
Magnesium oxide	1309-48-4	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes
Sodium oxide	1313-59-3	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes

* * *Section 16 - OTHER INFORMATION* * *

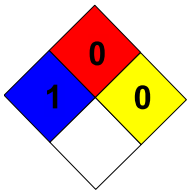
Web Sites with information about health effects from occupational exposure to the chemical substances contained in this product and associated engineering controls and personal protective equipment:

OSHA Website: http://www.osha.gov
NIOSH Website: http://www.cdc.gov.niosh
ACGIH Website: http://www.acgih.org
ATSDR Website: http://www.astdr.cdc.gov/toxprofiles

NFPA Ratings:

Health: 1 **Fire:** 0 **Reactivity:** 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe



Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Other Information

Disclaimer: Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

User's Responsibility

The OSHA Hazard Communication Standard 29 CFR 1910.1200 requires that this Safety Data Sheet is available to your employees who handle or may be exposed to this product. Educate and train your employees regarding applicable precautions. Instruct your employees to handle this product properly.

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Midwest Metal Products, Inc
2. Generator Mailing Address 1175 E. Broadway St Winona MN 55987
3. Facility Address (site of waste generation) 1175 E. Broadway St
4. Generator City Winona
5. Generator State/Zip MN / 55987
6. General Contact Person Joe Plunger
   Phone # and email 507-452-7231 joe@midwestmetalproducts.com
7. Technical Contact Person Joe Plunger
   Phone # and email 507-452-7231 joe@midwestmetalproducts.com

---

1. Name of Waste Foundry Sand with small amount of slag and dust
2. Process Generating Waste Molding and Pouring of steel and iron castings.
3. Waste Color Gray to Black
4. Waste Odor none None _____ Mild _____ Strong
5. Physical State _____ None _____ Liquid _____ Semi-Solid Other Solid
6. Free Liquids _____ Yes _____ % _____ No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A X
8. Flash Point (cc) none None _____ <140F _____ 140-199F _____ >200
9. a. Waste Composition:

	Range
Sand	94 to 97 %
Some dust - fines from collection	2.5 to 4 %
Some slag and refractory from metal handling equipment	1 to 2 %
	_____ to _____ %
	_____ to _____ %

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	X	
Cyanide	____	X	
Sulfide	____	X	
Phenol	____	X	below limit of detection
Chlorinated Solvents	____	X	
Aromatic Solvents	____	X	

10. Analytical Laboratory Davy Laboratories , Lacrosse WI
11. Date of Analysis 2-6-24

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge n/a Yes _____ No
Tank interiors n/a Yes _____ No
Vehicle types n/a

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____ Drum _____ Paper Truck X Dump Truck
   _____ Roll-off _____ Other _____

2. Waste Quantity/Units 65 tons

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency Per Month Average

3. Hauler Name and Address Pozanc Trucking
   157 Mankato Ave
   Winona MN 55987

4. Bill to Name and Address Midwest Metal Products, Inc
   1175 E. Broadway St
   Winona MN 55987

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title Bryce Gerke / Department Technician		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature Joseph Plunger

10. Title President

11. Name (Type or print) Joe Plunger

12. Date 2-8-24

DAVY LABORATORIES
A Division of Davy Engineering Co., Inc.
115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

Division of Davy Engineering Co.

LABORATORY ANALYSIS REPORT

Midwest Metal Products, Inc
Attn: Joe Plunger
1175 E. Broadway
Winona, MN 55987

Date: February 06, 2024
Client No: 10876

Sample No: 24A0382-01
Sample Site: Plant Refuse Sand

Sample Collected: 16-Jan-24 08:10

Sample Received: 16-Jan-24 15:38

Parameter	Protocal 1	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Subcontracted										
Mercury, Total	< .2	**<0.00200** ✓	mg/L	0.002	0.002	1	31-Jan-24 00:00	01-Feb-24 00:00	EPA 1311/EPA 7470A	A-01
Arsenic, Total	< 5	**<0.100** ✓	mg/L	0.0300	0.1000	1	24-Jan-24 00:00	30-Jan-24 00:00	EPA 6010D 2014	A-01
Barium, Total	< 100	**<0.200** ✓	mg/L	0.0400	0.2000	1	24-Jan-24 00:00	30-Jan-24 00:00	EPA 6010D 2014	A-01
Cadmium, Total	< 5	**<0.0200** ✓	mg/L	0.0039	0.0200	1	24-Jan-24 00:00	30-Jan-24 00:00	EPA 6010D 2014	A-01
Chromium, Total	< 5	**0.0282** ✓	mg/L	0.006	0.0200	1	24-Jan-24 00:00	30-Jan-24 00:00	EPA 6010D 2014	A-01
Lead, Total	< 5	**<0.100** ✓	mg/L	0.0260	0.1000	1	24-Jan-24 00:00	30-Jan-24 00:00	EPA 6010D 2014	A-01
Selenium, Total	< 1	**<0.100** ✓	mg/L	0.0290	0.1000	1	24-Jan-24 00:00	30-Jan-24 00:00	EPA 6010D 2014	A-01
Silver, Total	< 5	**<0.0500** ✓	mg/L	0.0140	0.0500	1	24-Jan-24 00:00	30-Jan-24 00:00	EPA 6010D 2014	A-01

All results under Protocal levels.

Submitted by:
Davy Laboratories

Jennifer M. Buchholz
Jennifer M. Buchholz, Laboratory Director

The laboratory analyses reported were determined in accordance with methods from approved authoritative sources. Approved authoritative sources are defined and listed within the respective state certification codes. The results are representative of the samples only; conditions can be expected to vary at different times and under different sampling conditions. This report may not be reproduced, except in full, without the written approval of the laboratory.
WI Certification 632021390 and WI DATCP 105-216, MN NELAC Certification 055-999-151, IA Certification 304. Revision #3 - 7/29/2019

DAVY LABORATORIES
A Division of Davy Engineering Co., Inc.
115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

Division of Davy Engineering Co.

LABORATORY ANALYSIS REPORT

Midwest Metal Products, Inc
Attn: Joe Plunger
1175 E. Broadway
Winona, MN 55987

Date: February 06, 2024
Client No: 10876

Notes and Definitions

Z-01d	<0.200
Z-01c	<0.100
Z-01b	<0.0500
Z-01a	<0.0200
Z-01	<0.00200
A-01	Subcontract Lab # 019-999-319
LOD	Limit of Detection, adjusted for the dilution factor
LOQ/RL	Limit of Quantitation/Reporting Limit, adjusted for the dilution factor

Total metals are equivalent to total recoverable metals.

Cooler Information

Temperature °C	
Received on Ice	No
Required COC Information completed	Yes
Sample labels match COC	Yes
All samples received in the appropriate Containers	Yes
All samples received with sufficient volume	Yes
All samples received with sufficient holding time	Yes
All sample bottles received with H2SO4 were pH <2	No
All sample bottles received with HNO3 were pH <2	No
All sample bottles received with HCl were pH <2	No
All sample bottles received with NaOH were pH >12	No
All sample bottles for cyanide confirmed Sulfide absent	No
All sample bottles for cyanide confirmed Residual Cl absent	No

Case Narrative

DAVY LABORATORIES
A Division of Davy Engineering Co., Inc.
115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

DAVY LABORATORIES
Division of Davy Engineering Co.

LABORATORY ANALYSIS REPORT

Midwest Metal Products, Inc
Attn: Joe Plunger
1175 E. Broadway
Winona, MN 55987

Date: February 06, 2024
Client No: 10876

Preservation of VOC samples checked by the analyst. Preservation of FOG samples checked by the analyst. Residual Chlorine absent checked by the analyst unless noted above.	

MIDWEST METAL PRODUCTS, INC.
1175 EAST BROADWAY, P.O. BOX 64
WINONA, MN 55987
PHONE (507) 452- 7231
FAX (507) 452-7318
joe@midwestmetalproducts.com
www.midwestmetalproducts.com

Midwest Metal Products Waste Characterization

1-18-24

P200 Particle Size Sieve Analysis:

A 6.3 lb grab sample was taken from the waste stream.

After cutting the sample a .54 lb sample was screened through a #10 and a #200 screen.

Results:

.42 lb stayed on the #10 screen	77.77%
.12 lb stayed on the # 200 screen	22.22%
Approximately .001 lb passed to pan	0.18%

Joe

Joe Plunger
Midwest Metal Products, Inc

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name NRB Metals
2. Generator Mailing Address 202 Industrial Park Drive
3. Facility Address (site of waste generation) Same as above
4. Generator City St. Charles
5. Generator State/Zip MN 55972
6. General Contact Person Nick Beyerstedt
   Phone # and email 507-932-8260 nick@nrbmetals.com
7. Technical Contact Person Same as above
   Phone # and email _____

---

1. Name of Waste Foundry Block
2. Process Generating Waste Casting waste
3. Waste Color light brown/tan
4. Waste Odor _____None X Mild _____ Strong
5. Physical State X None _____Liquid _____ Semi-Solid Other_____
6. Free Liquids _____Yes _____% X No
7. pH____ <2____ 2-4.0____ 4.1-7.0X 7.1-10.0____ 10.1-12.5____ >12.5____ N/A____
8. Flash Point (cc) X None _____<140F _____140-199F _____>200
9. a. Waste Composition:

	Range
Block	50 to 90 %
Sand	10 to 50 %
	_____ to _____ %
	_____ to _____ %
	_____ to _____ %

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS		X	
Cyanide		X	
Sulfide		X	
Phenol		X	
Chlorinated Solvents		X	
Aromatic Solvents		X	

10. Analytical Laboratory Minnesota Valley Testing
11. Date of Analysis 2/27/24

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck X Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units ~5000 tons per year

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency Weekly

3. Hauler Name and Address Green Leaf Trucking
   320 Badger Drive
   Taylor, WI 54659

4. Bill to Name and Address NRB Metals
   202 Industrial Park Drive
   St. Charles, MN 55972

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☑ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☑ Yes	☐ No
5) Signature/Title Bryce Gerke / Department Technician		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature _____

10. Title Owner

11. Name (Type or print) Nick Beyerstedt

12. Date 3-13-24

MINNESOTA VALLEY TESTING LABORATORIES, INC.
1126 North Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
2616 East Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.MVTL.com

Member ACIL

Account #: 66249 **Client:** NRB Metals

Analytical Results

Lab ID: 41463001 **Date Collected:** No Date Sampled Supplied **Matrix:** TCLP Extract
Sample ID: Foundry Sand **Date Received:** 02/23/2024 09:58 **Collector:** Client
Extraction Date/Time: 27 Feb. 2024 @ 1645
Temp @ Receipt (C): Ambient

SW846 Method 1311

Parameter	Results	Units	Action Level	RDL	DF	Analyzed	Qual
Method: EPA 200.2/EPA 6010D							
Barium	<2.5	mg/L	100	2.5	25	03/01/2024 11:26	
Cadmium	<0.25	mg/L	1	0.25	25	03/01/2024 11:26	
Chromium	<1.25	mg/L	5	1.25	25	03/01/2024 11:26	
Lead	<2.5	mg/L	5	2.5	25	03/01/2024 11:26	
Method: EPA 200.2/EPA 6020B							
Arsenic	<0.200	mg/L	5	0.200	100	02/29/2024 13:19	
Selenium	<0.200	mg/L	1	0.200	100	02/29/2024 13:19	
Silver	<0.200	mg/L	5	0.200	100	02/29/2024 13:19	*
Method: SW846 7470A							
Mercury	<0.01	mg/L	0.2	0.01	50	03/07/2024 11:25	
Method: EPA 1311							
Extraction Date/Time Start	27 Feb. 2024 @ 1645	None			1	02/27/2024 16:45	
pH of Extract	**5.0**	units		0.10	1	02/27/2024 16:45	
% Dry Solids	**100**	%		0.5	1	02/27/2024 16:45	
% Wet Solid	**100**	%		0.5	1	02/27/2024 16:45	

Sample Comments

Time sampled was not supplied by the client.

Analysis Results Comments

Silver

Matrix spike and/or matrix spike duplicate recoveries were low. Low recoveries were due to the amount of spike added and the use of HCl in the metals digestion process. Data was accepted based on the acceptable recoveries of the post digestion spikes and/or LCS.

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Omaha Track
2. Generator Mailing Address 12930 I street, omaha, NE 68137
3. Facility Address (site of waste generation) 505 Bainbridge st
4. Generator City La Crosse
5. Generator State/Zip WI 54601
6. General Contact Person Lisa Roberts
   Phone # and email 402-677-7913 lisa@omahatrack.com
7. Technical Contact Person Nate Kelemen
   Phone # and email 608 792-2274 lacrosse@omahatrack.com

---

1. Name of Waste Tailings
2. Process Generating Waste Railroad screened material
3. Waste Color Brown / black
4. Waste Odor ____ None ____X____ Mild ____ Strong
5. Physical State ____ None ____ Liquid ____ Semi-Solid Other____
6. Free Liquids N/A Yes ____% ____X____ No
7. pH N/A <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A____
8. Flash Point (cc) ____ None ____<140F ____140-199F ____>200
9. a. Waste Composition:

	Range
Soil	____ to ____%
Rock	____ to ____%
Sand	____ to ____%
	____ to ____%
	____ to ____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS			N/A
Cyanide			
Sulfide			
Phenol			
Chlorinated Solvents			
Aromatic Solvents			

See per ANALYSIS attached

10. Analytical Laboratory Pace Analytical
11. Date of Analysis 6/8/22

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge N/A Yes _____ No
Tank interiors N/A Yes _____ No
Vehicle types N/A

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____ Drum _____ Paper Truck X Dump Truck
   _____ Roll-off _____ Other _____

2. Waste Quantity/Units _____

   ☐ One-time Disposal
   ☒ On-going Disposal

   Frequency _____

3. Hauler Name and Address Omaha Trash
   12930 Z Street
   Omaha, NE 68137

4. Bill to Name and Address SAME

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection	
1) Does waste meet requirements of the current Plan of Operations?	☐ Yes ☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes ☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes ☐ No
4) Waste accepted for disposal?	☐ Yes ☐ No
5) Signature/Title	_____ / _____

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.
2. This waste [ ] does [X] does not contain regulated radioactive materials and [ ] does [X] does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.
3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.
4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).
5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.
6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.
7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.
8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.
9. Signature _____
10. Title Manager
11. Name (Type or print) Pete Kelzer
12. Date 7/29/22

GRAIN SIZE DISTRIBUTION TEST DATA

6/9/2022

Client: WALK IN PAID
Project: CAR DEBRIS
Project Number: 40245952
Location: 1-YELLOW, 2-RED, 1-BAG, 2-BAG
Sample Number: 40245952-001
Material Description: manual description: moist, silt, many woodchips, metal, gasoline odor
geosystems description: silty sand with gravel
Sample Date: 6/2/22
Date Received: 6/3/22 **PL:** NP **LL:** NV **PI:** NP
USCS Classification: SM **AASHTO Classification:** A-1-b
Grain Size Test Method: D7928 mod - With Hydrometer
Testing Remarks: Batch 46533, HBN 417438; test completed by GRR, MMJ, MLR, and GEE; coarse sieved 6/6/22, fine sieved 6/8/22; ethanol (#281100) added to sample to dissipate foam during hydrometer test; lab sieved coarse portion both with and without its woodchips due to high amount of woodchips that remained after washing step (woodchips typically rinse away during washing). This report includes woodchips in the coarse material.
Tested By: Madeline Rohde **Test Date:** 6/6/22
Checked By: Brandy Mahoney **Title:** Scientist

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
585.60	349.09	3"	0.00	0.00	100.0
		2"	0.00	0.00	100.0
		1.5"	0.00	0.00	100.0
		1"	0.00	0.00	100.0
		0.75"	0.00	0.00	100.0
		0.375"	5.82	0.00	97.5
		#4	31.17	0.00	84.4
		#10	37.20	0.00	68.6
74.52	0.00	#20	12.11	0.00	57.5
		#40	19.06	0.00	39.9
		#60	12.81	0.00	28.1
		#100	8.29	0.00	20.5
		#140	3.23	0.00	17.5
		#200	1.87	0.00	15.8

Hydrometer Test Data

Hydrometer test uses material passing #10

Percent passing #10 based upon complete sample = 68.6

Weight of hydrometer sample =74.52

Automatic temperature correction

Composite correction (fluid density and meniscus height) at 20 deg. C = -5

Meniscus correction only = 0.0

Specific gravity of solids = 2.65

Hydrometer type = 152H

Hydrometer effective depth equation: L = 16.294964 - 0.164 **x Rm**

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
1.00	21.0	19.0	14.2	0.0135	19.0	13.2	0.0489	13.1
2.00	21.0	14.0	9.2	0.0135	14.0	14.0	0.0357	8.5
4.00	21.0	13.0	8.2	0.0135	13.0	14.2	0.0254	7.5
15.00	21.0	11.0	6.2	0.0135	11.0	14.5	0.0132	5.7
30.00	21.0	11.0	6.2	0.0135	11.0	14.5	0.0094	5.7
60.00	21.0	10.0	5.2	0.0135	10.0	14.7	0.0067	4.8
240.00	21.5	9.0	4.3	0.0134	9.0	14.8	0.0033	4.0
1440.00	21.0	8.0	3.2	0.0135	8.0	15.0	0.0014	2.9

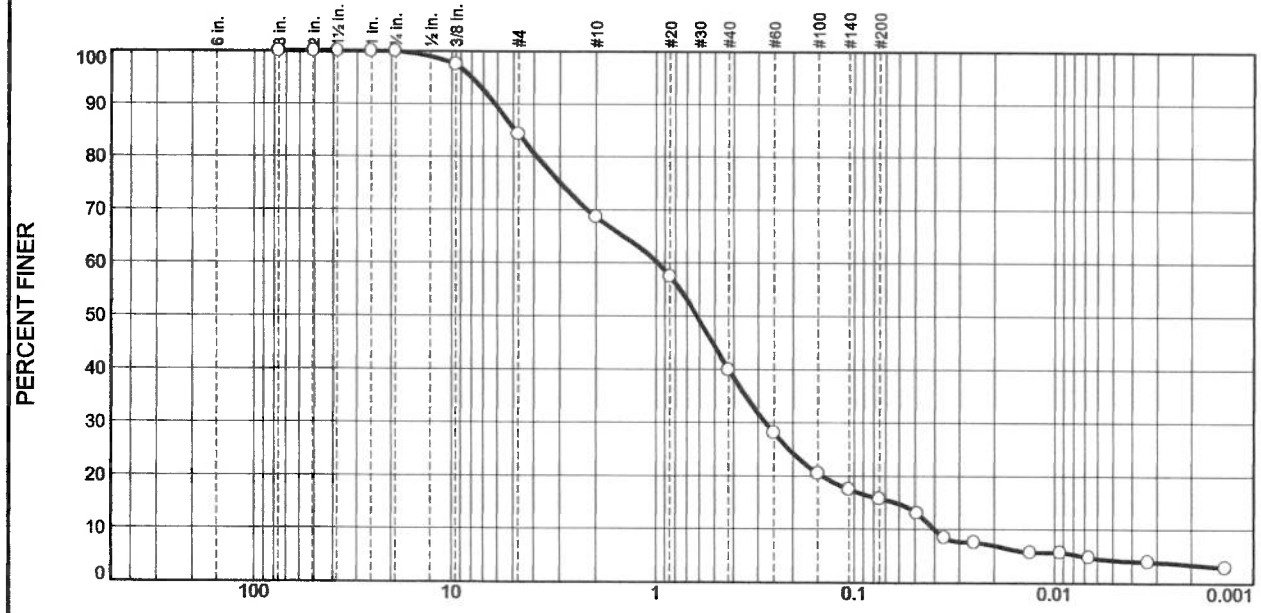
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	15.6	15.6	15.8	28.7	24.1	68.6	11.6	4.2	15.8

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0072	0.0402	0.0615	0.1432	0.2755	0.4262	0.6187	0.9805	3.8687	4.8908	6.1496	7.9689

Fineness Modulus	C_u	C_c
2.83	24.41	1.93

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	15.6	15.8	28.7	24.1	11.6	4.2

TEST RESULTS (D7928 mod - With Hydrometer)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0		
2"	100.0		
1.5"	100.0		
1"	100.0		
0.75"	100.0		
0.375"	97.5		
#4	84.4		
#10	68.6		
#20	57.5		
#40	39.9		
#60	28.1		
#100	20.5		
#140	17.5		
#200	15.8		
0.0489 mm.	13.1		
0.0357 mm.	8.5		
0.0254 mm.	7.5		
0.0132 mm.	5.7		
0.0094 mm.	5.7		
0.0067 mm.	4.8		
0.0033 mm.	4.0		
0.0014 mm.	2.9		

* (no specification provided)

Material Description

manual description: moist, silt, many woodchips, metal, gasoline odor

geosystems description: silty sand with gravel

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= SM AASHTO (M 145)= A-1-b

Coefficients

D_{90}= 6.1496 D_{85}= 4.8908 D_{60}= 0.9805
D_{50}= 0.6187 D_{30}= 0.2755 D_{15}= 0.0615
D_{10}= 0.0402 C_u= 24.41 C_c= 1.93

Remarks

Batch 46533, HBN 417438; test completed by GRR, MMJ, MLR, and GEE; coarse sieved 6/6/22, fine sieved 6/8/22; ethanol (#281100) added to sample to dissipate foam during hydrometer

Date Received: 6/3/22 **Date Tested:** 6/6/22

Tested By: Madeline Rohde

Checked By: Brandy Mahoney

Title: Scientist

Location: 1-YELLOW, 2-RED, 1-BAG, 2-BAG **Date Sampled:** 6/2/22
Sample Number: 40245952-001

Pace Analytical Services, Inc.

Green Bay, WI

Client: WALK IN PAID
Project: CAR DEBRIS

Project No: 40245952 **Figure**

GRAIN SIZE DISTRIBUTION TEST DATA

6/9/2022

Client: WALK IN PAID
Project: CAR DEBRIS
Project Number: 40245952
Location: 1-YELLOW, 2-RED, 1-BAG, 2-BAG (w/o coarse woodchips)
Sample Number: 40245952-001 no wcs
Material Description: manual description: moist, silt, many woodchips (coarse woodchips removed for coarse sieve), metal, gasoline odor
geosystems description: silty sand
Sample Date: 6/2/22
Date Received: 6/3/22 **PL:** NP **LL:** NV **PI:** NP
USCS Classification: SM **AASHTO Classification:** A-2-4(0)
Grain Size Test Method: D7928 mod - With Hydrometer
Testing Remarks: Batch 46533, HBN 417438; test completed by GRR, MMJ, MLR, and GEE; coarse sieved 6/6/22, fine sieved 6/8/22; ethanol (#281100) added to sample to dissipate foam during hydrometer test; lab sieved coarse portion both with and without its woodchips due to high amount of woodchips that remained after washing step (woodchips typically rinse away during washing). This report is also of 40245952-001 and does not include woodchips in the coarse material.
Tested By: Madeline Rohde **Test Date:** 6/6/22
Checked By: Brandy Mahoney **Title:** Scientist

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
585.60	349.09	3"	0.00	0.00	100.0
		2"	0.00	0.00	100.0
		1.5"	0.00	0.00	100.0
		1"	0.00	0.00	100.0
		0.75"	0.00	0.00	100.0
		0.375"	5.70	0.00	97.6
		#4	9.03	0.00	93.8
		#10	8.79	0.00	90.1
74.52	0.00	#20	12.11	0.00	75.4
		#40	19.06	0.00	52.4
		#60	12.81	0.00	36.9
		#100	8.29	0.00	26.9
		#140	3.23	0.00	23.0
		#200	1.87	0.00	20.7

Hydrometer Test Data

Hydrometer test uses material passing #10

Percent passing #10 based upon complete sample = 90.1

Weight of hydrometer sample =74.52

Automatic temperature correction

Composite correction (fluid density and meniscus height) at 20 deg. C = -5

Meniscus correction only = 0.0

Specific gravity of solids = 2.65

Hydrometer type = 152H

Hydrometer effective depth equation: L = 16.294964 - 0.164 **x Rm**

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
1.00	21.0	19.0	14.2	0.0135	19.0	13.2	0.0489	17.1
2.00	21.0	14.0	9.2	0.0135	14.0	14.0	0.0357	11.1
4.00	21.0	13.0	8.2	0.0135	13.0	14.2	0.0254	9.9
15.00	21.0	11.0	6.2	0.0135	11.0	14.5	0.0132	7.5
30.00	21.0	11.0	6.2	0.0135	11.0	14.5	0.0094	7.5
60.00	21.0	10.0	5.2	0.0135	10.0	14.7	0.0067	6.3
240.00	21.5	9.0	4.3	0.0134	9.0	14.8	0.0033	5.2
1440.00	21.0	8.0	3.2	0.0135	8.0	15.0	0.0014	3.8

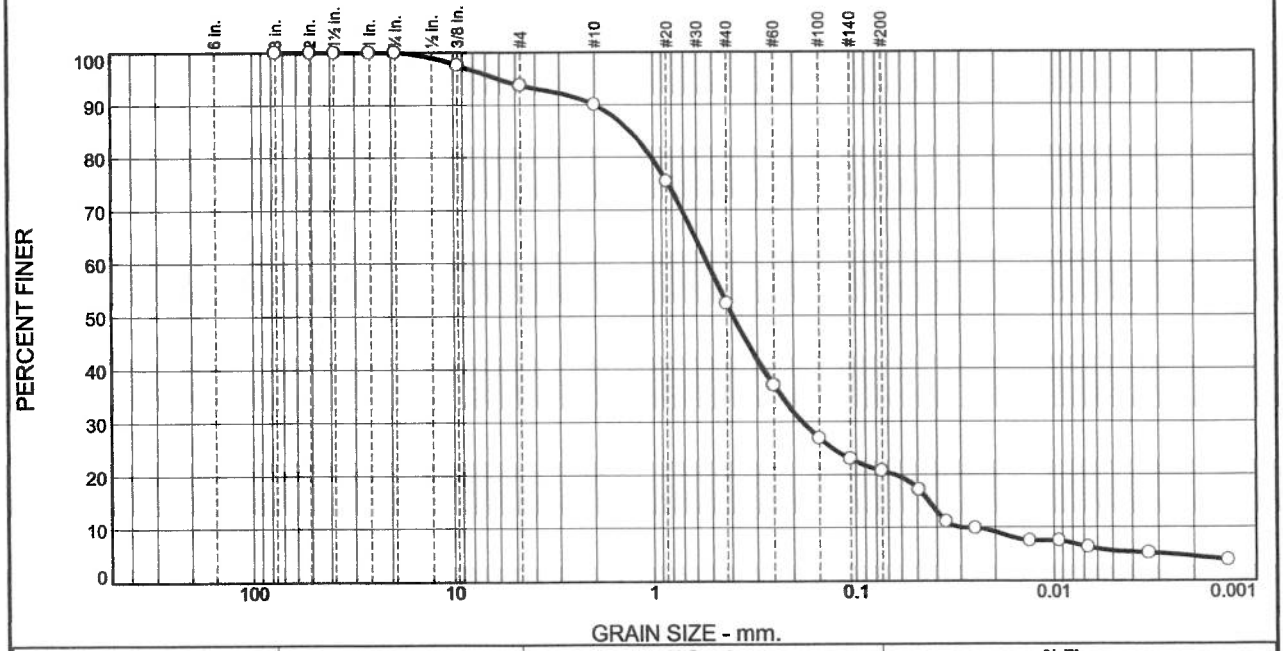
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	6.2	6.2	3.7	37.7	31.7	73.1	15.1	5.6	20.7

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.0028	0.0303	0.0439	0.0647	0.1813	0.2820	0.3952	0.5302	1.0179	1.3138	1.9864	6.0951

Fineness Modulus	C_u	C_c
2.01	17.50	2.05

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	6.2	3.7	37.7	31.7	15.1	5.6

TEST RESULTS (D7928 mod - With Hydrometer)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0		
2"	100.0		
1.5"	100.0		
1"	100.0		
0.75"	100.0		
0.375"	97.6		
#4	93.8		
#10	90.1		
#20	75.4		
#40	52.4		
#60	36.9		
#100	26.9		
#140	23.0		
#200	20.7		
0.0489 mm.	17.1		
0.0357 mm.	11.1		
0.0254 mm.	9.9		
0.0132 mm.	7.5		
0.0094 mm.	7.5		
0.0067 mm.	6.3		
0.0033 mm.	5.2		
0.0014 mm.	3.8		

* (no specification provided)

Material Description

manual description: moist, silt, many woodchips (coarse woodchips removed for coarse sieve), metal, gasoline odor

geosystems description: silty sand

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= SM AASHTO (M 145)= A-2-4(0)

Coefficients

D_{90}= 1.9864 D_{85}= 1.3138 D_{60}= 0.5302
D_{50}= 0.3952 D_{30}= 0.1813 D_{15}= 0.0439
D_{10}= 0.0303 C_u= 17.50 C_c= 2.05

Remarks

Batch 46533, HBN 417438; test completed by GRR, MMJ, MLR, and GEE; coarse sieved 6/6/22, fine sieved 6/8/22; ethanol (#281100) added to sample to dissipate foam during hydrometer

Date Received: 6/3/22 **Date Tested:** 6/6/22

Tested By: Madeline Rohde

Checked By: Brandy Mahoney

Title: Scientist

Location: 1-YELLOW, 2-RED, 1-BAG, 2-BAG (w/o coarse woodchips) **Date Sampled:** 6/2/22

Sample Number: 40245952-001 no wcs

Pace Analytical Services, Inc.

Green Bay, WI

Client: WALK IN PAID

Project: CAR DEBRIS

Project No: 40245952 **Figure**

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

June 15, 2022

Walk-In
PACE Analytical Services, LLC.
1241 Bellevue St
Suite 9
Green Bay, WI 54302

RE: Project: CAR DEBRIS
Pace Project No.: 40245952

Dear Walk-In:

Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 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,

Steven Mleczko
steve.mleczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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

CERTIFICATIONS

Project: CAR DEBRIS
Pace Project No.: 40245952

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

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SAMPLE SUMMARY

Project: CAR DEBRIS
Pace Project No.: 40245952

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40245952001	1-YELLOW, 2-RED, 1-BAG, 2-BAG	Solid	06/02/22 10:00	06/03/22 10:20

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SAMPLE ANALYTE COUNT

Project: CAR DEBRIS
Pace Project No.: 40245952

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40245952001	**1-YELLOW, 2-RED, 1-BAG, 2-BAG**	EPA 6010D	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
		EPA 9095	HNT	1	PASI-G
		ASTM D6913/D7928	MLR	22	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: CAR DEBRIS
Pace Project No.: 40245952

Sample: 1-YELLOW, 2-RED, 1-BAG, 2-BAG **Lab ID: 40245952001** Collected: 06/02/22 10:00 Received: 06/03/22 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP	Analytical Method: EPA 6010D Preparation Method: EPA 3015A Leachate Method/Date: EPA 1311; 06/13/22 13:54 Pace Analytical Services - Green Bay								
Arsenic	**<0.0083**	mg/L	0.025	0.0083	1	06/15/22 07:31	06/15/22 13:11	7440-38-2	
Barium	**0.094**	mg/L	0.0050	0.0015	1	06/15/22 07:31	06/15/22 13:11	7440-39-3	
Cadmium	**<0.0013**	mg/L	0.0050	0.0013	1	06/15/22 07:31	06/15/22 13:11	7440-43-9	
Chromium	**<0.0025**	mg/L	0.010	0.0025	1	06/15/22 07:31	06/15/22 13:11	7440-47-3	
Lead	**<0.0059**	mg/L	0.020	0.0059	1	06/15/22 07:31	06/15/22 13:11	7439-92-1	
Selenium	**<0.012**	mg/L	0.040	0.012	1	06/15/22 07:31	06/15/22 13:11	7782-49-2	
Silver	**<0.0032**	mg/L	0.010	0.0032	1	06/15/22 07:31	06/15/22 13:11	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Leachate Method/Date: EPA 1311; 06/13/22 13:54 Pace Analytical Services - Green Bay								
Mercury	**<0.000066**	mg/L	0.00020	0.000066	1	06/14/22 12:10	06/15/22 08:59	7439-97-6	1q
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**36.0**	%	0.10	0.10	1		06/07/22 15:22		
9095 Paint Filter Liquid Test	Analytical Method: EPA 9095 Pace Analytical Services - Green Bay								
Free Liquids	**Pass**	no units			1		06/08/22 13:14		
ASTM D6913D7928 GrainsizeHydro	Analytical Method: ASTM D6913/D7928 Pace Analytical Services - Green Bay								
Sieve 3.0"	**100.0**	%			1		06/03/22 21:58		
Sieve 2.0"	**100.0**	%			1		06/03/22 21:58		
Sieve 1.5"	**100.0**	%			1		06/03/22 21:58		
Sieve 1.0"	**100.0**	%			1		06/03/22 21:58		
Sieve 0.75"	**100.0**	%			1		06/03/22 21:58		
Sieve 0.375"	**97.5**	%			1		06/03/22 21:58		
Sieve #4	**84.4**	%			1		06/03/22 21:58		
Sieve #10	**68.6**	%			1		06/03/22 21:58		
Sieve #20	**57.5**	%			1		06/03/22 21:58		
Sieve #40	**39.9**	%			1		06/03/22 21:58		
Sieve #60	**28.1**	%			1		06/03/22 21:58		
Sieve #100	**20.5**	%			1		06/03/22 21:58		
Sieve #140	**17.5**	%			1		06/03/22 21:58		
Sieve #200	**15.8**	%			1		06/03/22 21:58		
Hydrometer 1 Passing	**13.1**	%			1		06/03/22 21:58		
Hydrometer 2 Passing	**8.5**	%			1		06/03/22 21:58		
Hydrometer 3 Passing	**7.5**	%			1		06/03/22 21:58		
Hydrometer 4 Passing	**5.7**	%			1		06/03/22 21:58		
Hydrometer 5 Passing	**5.7**	%			1		06/03/22 21:58		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CAR DEBRIS
Pace Project No.: 40245952

Sample: 1-YELLOW, 2-RED, 1-BAG, 2-BAG **Lab ID: 40245952001** Collected: 06/02/22 10:00 Received: 06/03/22 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
ASTM D6913D7928 GrainsizeHydro	Analytical Method: ASTM D6913/D7928 Pace Analytical Services - Green Bay								
Hydrometer 6 Passing	**4.8**	%			1		06/03/22 21:58		
Hydrometer 7 Passing	**4.0**	%			1		06/03/22 21:58		
Hydrometer 8 Passing	**2.9**	%			1		06/03/22 21:58		

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QUALITY CONTROL DATA

Project: CAR DEBRIS
Pace Project No.: 40245952

QC Batch: 418255
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40245952001

METHOD BLANK: 2408714 Matrix: Water
Associated Lab Samples: 40245952001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.000066	0.00020	06/15/22 08:38	

METHOD BLANK: 2408180 Matrix: Water
Associated Lab Samples: 40245952001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.000066	0.00020	06/15/22 09:24	

METHOD BLANK: 2408181 Matrix: Water
Associated Lab Samples: 40245952001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.000066	0.00020	06/15/22 09:52	

LABORATORY CONTROL SAMPLE: 2408715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0050	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2408716 2408717

Parameter	Units	40246277001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	<0.066 ug/L	0.005	0.005	0.0042	0.0042	84	85	85-115	1	20	M0

MATRIX SPIKE SAMPLE: 2408718

Parameter	Units	40245899001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	<0.000066	0.005	0.0050	100	85-115	

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QUALITY CONTROL DATA

Project: CAR DEBRIS
Pace Project No.: 40245952

MATRIX SPIKE SAMPLE: 2408719

Parameter	Units	40245952001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	<0.000066	0.005	0.0049	97	85-115	

MATRIX SPIKE SAMPLE: 2408720

Parameter	Units	40246130001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	<0.000066	0.005	0.0047	93	85-115	

MATRIX SPIKE SAMPLE: 2408721

Parameter	Units	40246300001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.00019J	0.005	0.0054	105	85-115	

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QUALITY CONTROL DATA

Project: CAR DEBRIS
Pace Project No.: 40245952

QC Batch: 418274
QC Batch Method: EPA 3015A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET TCLP
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40245952001

METHOD BLANK: 2408826 Matrix: Water
Associated Lab Samples: 40245952001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0083	0.025	06/15/22 12:27	
Barium	mg/L	<0.0015	0.0050	06/15/22 12:27	
Cadmium	mg/L	<0.0013	0.0050	06/15/22 12:27	
Chromium	mg/L	<0.0025	0.010	06/15/22 12:27	
Lead	mg/L	<0.0059	0.020	06/15/22 12:27	
Selenium	mg/L	<0.012	0.040	06/15/22 12:27	
Silver	mg/L	<0.0032	0.010	06/15/22 12:27	

METHOD BLANK: 2408136 Matrix: Solid
Associated Lab Samples: 40245952001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0083	0.025	06/15/22 13:56	
Barium	mg/L	0.0056	0.0050	06/15/22 13:56	
Cadmium	mg/L	<0.0013	0.0050	06/15/22 13:56	
Chromium	mg/L	0.0026J	0.010	06/15/22 13:56	
Lead	mg/L	<0.0059	0.020	06/15/22 13:56	
Selenium	mg/L	0.014J	0.040	06/15/22 13:56	
Silver	mg/L	<0.0032	0.010	06/15/22 13:56	

METHOD BLANK: 2408137 Matrix: Solid
Associated Lab Samples: 40245952001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0083	0.025	06/15/22 13:23	
Barium	mg/L	0.0030J	0.0050	06/15/22 13:23	
Cadmium	mg/L	<0.0013	0.0050	06/15/22 13:23	
Chromium	mg/L	<0.0025	0.010	06/15/22 13:23	
Lead	mg/L	<0.0059	0.020	06/15/22 13:23	
Selenium	mg/L	<0.012	0.040	06/15/22 13:23	
Silver	mg/L	<0.0032	0.010	06/15/22 13:23	

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QUALITY CONTROL DATA

Project: CAR DEBRIS
Pace Project No.: 40245952

LABORATORY CONTROL SAMPLE: 2408827

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.28	0.28	100	80-120	
Barium	mg/L	0.28	0.29	103	80-120	
Cadmium	mg/L	0.28	0.29	104	80-120	
Chromium	mg/L	0.28	0.28	103	80-120	
Lead	mg/L	0.28	0.29	106	80-120	
Selenium	mg/L	0.28	0.29	104	80-120	
Silver	mg/L	0.14	0.14	101	80-120	

MATRIX SPIKE SAMPLE: 2408828

Parameter	Units	40245952001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.0083	0.28	0.28	100	75-125	
Barium	mg/L	0.094	0.28	0.38	102	75-125	
Cadmium	mg/L	<0.0013	0.28	0.29	105	75-125	
Chromium	mg/L	<0.0025	0.28	0.28	102	75-125	
Lead	mg/L	<0.0059	0.28	0.29	104	75-125	
Selenium	mg/L	<0.012	0.28	0.29	106	75-125	
Silver	mg/L	<0.0032	0.14	0.14	103	75-125	

MATRIX SPIKE SAMPLE: 2408829

Parameter	Units	40246130001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.0083	0.28	0.28	102	75-125	
Barium	mg/L	0.34	0.28	0.62	101	75-125	
Cadmium	mg/L	0.0031J	0.28	0.29	105	75-125	
Chromium	mg/L	0.0045J	0.28	0.28	100	75-125	
Lead	mg/L	<0.0059	0.28	0.29	103	75-125	
Selenium	mg/L	<0.012	0.28	0.29	106	75-125	
Silver	mg/L	<0.0032	0.14	0.15	104	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2408830 2408831

Parameter	Units	40246415001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	<0.0083	0.28	0.28	0.29	0.29	104	103	75-125	1	20	
Barium	mg/L	0.52	0.28	0.28	0.79	0.80	98	101	75-125	1	20	
Cadmium	mg/L	<0.0013	0.28	0.28	0.29	0.30	105	107	75-125	1	20	
Chromium	mg/L	<0.0025	0.28	0.28	0.28	0.28	100	101	75-125	2	20	
Lead	mg/L	<0.0059	0.28	0.28	0.28	0.29	101	102	75-125	1	20	
Selenium	mg/L	<0.012	0.28	0.28	0.29	0.29	106	106	75-125	0	20	
Silver	mg/L	<0.0032	0.14	0.14	0.14	0.15	104	106	75-125	1	20	

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QUALITY CONTROL DATA

Project: CAR DEBRIS
Pace Project No.: 40245952

QC Batch: 417679
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40245952001

SAMPLE DUPLICATE: 2405087

Parameter	Units	40246030003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.1	5.1	0	10	

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QUALITY CONTROL DATA

Project: CAR DEBRIS
Pace Project No.: 40245952

QC Batch: 417775
QC Batch Method: EPA 9095
Analysis Method: EPA 9095
Analysis Description: 9095 PAINT FILTER LIQUID TEST
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40245952001

METHOD BLANK: 2405562 Matrix: Solid
Associated Lab Samples: 40245952001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Free Liquids	no units	Fail		06/08/22 13:04	

LABORATORY CONTROL SAMPLE: 2405563

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Free Liquids	no units		Pass			

SAMPLE DUPLICATE: 2405564

Parameter	Units	40245794001 Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids	no units	Pass	Pass			

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Green Bay, WI 54302
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QUALIFIERS

Project: CAR DEBRIS
Pace Project No.: 40245952

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.

ANALYTE QUALIFIERS

1q	Analyte was measured in the associated leach blank at a concentration of -0.000070mg/L.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CAR DEBRIS
Pace Project No.: 40245952

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40245952001	1-YELLOW, 2-RED, 1-BAG, 2-BAG	EPA 3015A	418274	EPA 6010D	418399
40245952001	1-YELLOW, 2-RED, 1-BAG, 2-BAG	EPA 7470	418255	EPA 7470	418313
40245952001	1-YELLOW, 2-RED, 1-BAG, 2-BAG	ASTM D2974-87	417679		
40245952001	1-YELLOW, 2-RED, 1-BAG, 2-BAG	EPA 9095	417775		
40245952001	1-YELLOW, 2-RED, 1-BAG, 2-BAG	ASTM D6913/D7928	417438		

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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: 40245952

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Company: OMAHA Track	Billing Information: OMAHA TRACK 12930 I Street OMAHA, NE 68137
Address: 505 Bainbridge St	
Report To: LISA @omahatrack.com	Email To: LISA @omahatrack.com
Copy To: LaCrosse @omahatrack.com	Site Collection Info/Address: 505 Bainbridge St
Customer Project Name/Number: 9R Debris	State: WI County/City: LaCrosse Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: 792-2274	Site/Facility ID #:
Email: LaCrosse @omahatrack.com	Compliance Monitoring? [✓] Yes [ ] No
Collected By (print): Luke Kelemen	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required:
Sample Disposal: Dispose as appropriate [ ] Return Archive: ____ Hold: ____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	DW PWS ID #: DW Location Code:
	Immediately Packed on Ice: [✓] Yes [ ] No
	Field Filtered (if applicable): [ ] Yes [✓] No Analysis: ____

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)

Container Preservative Type **

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 ____

Analyses

see bottle sheet

Lab Profile/Line:

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:	

Scanned 6/3/22

LAB USE ONLY:
Lab Sample # / Comments:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	Lab Sample # / Comments
1 - yellow			6/2	10:00				1	001
2 - Red			6/2	10:00				1	002
-Bag			6/2	10:00				1	003 sum
- Bag			6/2	10:00				1	004 6/3/2022
			6/2	10:00					

Customer Remarks / Special Conditions / Possible Hazards:

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 #: 2767456

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: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments: 0

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Fedex	6/3/22 1020	Pace	6/3/22 1020
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
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

UDL595a
steve.mleczko@pacelabs.com

Pace Container Order #957696

Addresses

Order By :		Ship To :		Return To:	
Company	Omaha Track	Company	Omaha Track	Company	Pace Analytical Green Bay
Contact	Roberts, Lisa	Contact	Nate Keleman	Contact	Mleczko, Steven
Email	lisa@omahatrack.com	Email	lacrosse@omahatrack.com	Email	steve.mleczko@pacelabs.com
Address	505 Bainbridge	Address	505 Bainbridge	Address	1241 Bellevue Street
Address 2		Address 2		Address 2	Suite 9
City	LaCrosse	City	LaCrosse	City	Green Bay
State	WI Zip 54603	State	WI Zip 54603	State	WI Zip 54302
Phone		Phone		Phone	(920)469-2436

Info

Project Name: Particle Size and TCLP testing | Due Date: 05/20/2022 | Profile: 1 | Quote:

Project Manager: Mleczko, Steven | Return Date: | Carrier: Most Economical | Location: WI

Trip Blanks

- [ ] Include Trip Blanks

Bottle Labels

- [X] Blank
- [ ] Pre-Printed No Sample IDs
- [ ] Pre-Printed With Sample IDs

Bottles

- [ ] Boxed Cases
- [ ] Individually Wrapped
- [ ] Grouped By Sample ID/Matrix

Return Shipping Labels

- [ ] No Shipper
- [ ] With Shipper

COC Options

- [X] Number of Blanks: 1
- [ ] Pre-Printed

Misc

- [X] Sampling Instructions
- [X] Custody Seal
- [X] Temp. Blanks
- [X] Coolers
- [ ] Syringes
- [ ] Extra Bubble Wrap
- [ ] Short Hold/Rush Stickers
- [ ] DI Water Liter(s)
- [ ] USDA Regulated Soils

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
1	SL	Particle Size Analysis	1 Quart Ziplock Bag	2	0		
1	SL	TCLP 8 RCRA Metals	4oz. Amber Jar Unpreserved	1	0	G-2-005-04DB	
1	SL	Paint Filter Liquid Test	8 oz glass jar	1	0	F-1-340-03AB	

Hazard Shipping Placard In Place : NA

'Sample receiving hours are typically 8am-5pm, but may differ by location. Please check with your Pace Project Manager.

'Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

'Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.

'Payment term are net 30 days.

'Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:

Ship Date :	05/18/2022
Prepared By:	KLS
Verified By:	
Tracking Num:	509249209629

Sample

Total cost for all is $285

CLIENT USE (Optional):

Date Rec'd:	
Received By:	
Verified By:	

F-ALL-C-009-rev.00, 19Dec2016

Sample Preservation Receipt Form

Client Name: Omaha Track Project # WID45952

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

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

	Glass							Plastic					Vials						Jars				General							
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	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)
																				1					2								2.5 / 5 / 10
	1																								1								2.5 / 5 / 10
	SLM 6/3/22																								1	SLM 6/3/22							2.5 / 5 / 10
																									1								2.5 / 5 / 10
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																																	2.5 / 5 / 10
																																	2.5 / 5 / 10

eptions 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

J	1 liter amber glass
J	1 liter clear glass
H	1 liter amber glass HCL
S	125 mL amber glass H2SO4
J	120 mL amber glass unpres
J	100 mL amber glass unpres
S	500 mL amber glass H2SO4
J	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	

Sample Condition Upon Receipt Form (SCUR)

Project #: WO# : 40245952

40245952

Client Name: Omaha Track

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

Tracking #: 273845141527

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 - 98 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice

Cooler Temperature Uncorr: 4 /Corr: 4

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

Person examining contents:
Date: 6/3/22 /Initials: NK

Labeled By Initials: mh

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. +2CC 6/3/22 NK
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. pg. #1, Analyses, presen 6/3/22 NK
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: S	☒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: lab added analyses to COC, identified from bottle sheet 6/3/22 NK

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

Page 2 of 2

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Property Cleaning Systems
2. Generator Mailing Address N5880 LEHMAN RD WEST SALEM, WI 54669
3. Facility Address (site of waste generation) N5880 LEHMAN RD
4. Generator City WEST SALEM
5. Generator State/Zip WI 54669
6. General Contact Person Jerry Ball
   Phone # and email 608-769-8001 jerry.ball@dalcoonline.com
7. Technical Contact Person Same
   Phone # and email _____

---

1. Name of Waste Street Sweepings
2. Process Generating Waste Parking lot sweepings
3. Waste Color Brown
4. Waste Odor X None _____ Mild _____ Strong
5. Physical State X None _____ Liquid _____ Semi-Solid Other_____
6. Free Liquids _____ Yes _____ % X No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/AX
8. Flash Point (cc) X None _____<140F _____140-199F _____>200
9. a. Waste Composition:

	Range
Sand	99 to 100 %
Debris	0 to 1 %
	_____ to _____ %
	_____ to _____ %
	_____ to _____ %

b. Does Waste Contain	Yes	No	Do Not Know
PCBS	____	X	_____
Cyanide	____	X	_____
Sulfide	____	X	_____
Phenol	____	X	_____
Chlorinated Solvents	____	X	_____
Aromatic Solvents	____	X	_____

10. Analytical Laboratory Braun Intertec
11. Date of Analysis 9/14/2021

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck _____Dump Truck
   X Roll-off _____Other _____

2. Waste Quantity/Units Less than 100 tons

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency Bi-Annually

3. Hauler Name and Address Hilltopper Refuse and Recycling
   W6833 Industrial Blvd, Onalaska, WI 54650

4. Bill to Name and Address Hilltopper Refuse and Recycling
   W6833 Industrial Blvd, Onalaska, WI 54650

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection
1) Does waste meet requirements of the current Plan of Operations? ☐ Yes ☐ No
2) Is waste acceptable upon approval by WDNR? ☐ Yes ☐ No
3) Plan of Operations Approval Required? (Attach copy if yes) ☐ Yes ☐ No
4) Waste accepted for disposal? ☐ Yes ☐ No
5) Signature/Title _____/_____

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☐ does not contain regulated radioactive materials and ☐ does ☐ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature _____

10. Title PCS President

11. Name (Type or print) Jerry Ball

12. Date 11/11/21

BRAUN INTERTEC
The Science You Build On.

Letter of Transmittal

Transmittal #1
Transmittal Date 09/13/21

2309 Palace Street
La Crosse, WI 54603
Phone: 608-781-7277

Client:
Property Cleaning Systems, Inc
N5880 Lehman Road
West Salem, WI 54669

Project:
B2108592
Property Cleaning Systems Laboratory Testing
N5880 Lehman Road
West Salem, WI 54669

If you have any questions, please contact Ben Sullivan.

Table of Contents	
Title	**Description**
200 Sieve Loss By Washing	2021-09-13 - 402694

Distribution List	
Name	**Company**
Ball, Jerry	Property Cleaning Systems, Inc
Sullivan, Benjamin	Braun Intertec

BRAUN INTERTEC
The Science You Build On.

200 Sieve Loss By Washing

ASTM D1140

09/13/2021

2309 Palace Street
La Crosse, WI 54603
Phone: 608-781-7277

Client:

Property Cleaning Systems, Inc
N5880 Lehman Road
West Salem, WI 54669

Project:

B2108592
Property Cleaning Systems Laboratory Testing
N5880 Lehman Road
West Salem, WI 54669

Sample Information

Sample Number:	402694	**Source:**	Not given
Sampling Method:	Not Provided	**Sampled By:**	Client
Location:	Other		
Location Details:	Street Sweeper Material		
Specification:	For Informational Purposes Only		
Sample Date:	09/10/2021		
Received Date:	09/10/2021	**Lab:**	2309 Palace Street, La Crosse, WI
Tested Date:	09/13/2021	**Tested By:**	Tos, Yot

Laboratory Data

Loss By Washing (%):	3.2	**Method Used:**	Method A Soak In Water
Maximum Particle Size:	Finer than 4.75 mm (No. 4)	**Soaking Time (min):**	30
Moisture Content (%):	4.80		
Soil Classification:	Street Sweeper Material		

General

Results: The test is for informational purposes.

Benjamin Sullivan

The results included in this report relate only to the items inspected or tested. Additionally, this report is for the exclusive use of the addressed parties. We assume no responsibility to other parties regarding this report. The information indicated in this report shall not be reproduced, except in full, without the prior written approval.

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Torrance Casting, Inc.
2. Generator Mailing Address 3131 Commerce Street
3. Facility Address (site of waste generation) 3131 Commerce Street
4. Generator City La Crosse
5. Generator State/Zip Wi/54603
6. General Contact Person Corey Yonkovich
   Phone # and email 608-781-0600 ext. 207/ csy@torrancecasting.com
7. Technical Contact Person Corey Yonkovich
   Phone # and email 608-781-0600 ext. 207 / csy@torrancecasting.com

---

1. Name of Waste Mixture of Green Sand/Dust
2. Process Generating Waste Building Sand Cores
3. Waste Color Green
4. Waste Odor x None _____ Mild _____ Strong
5. Physical State _____ None _____ Liquid _____ Semi-Solid Other_____
6. Free Liquids _____ Yes _____ % _____ No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A____
8. Flash Point (cc) _____ None _____<140F _____140-199F _____>200
9. a. Waste Composition:

	Range
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	x	_____
Cyanide	____	x	_____
Sulfide	____	x	_____
Phenol	____	x	_____
Chlorinated Solvents	____	x	_____
Aromatic Solvents	____	x	_____

10. Analytical Laboratory Pace Analytical
11. Date of Analysis 01-05-2022

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck _____Dump Truck
   x Roll-off _____Other _____

2. Waste Quantity/Units _____

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency_____

3. Hauler Name and Address Harter's Trash and Recycling
   2850 Larson Street
   La Crosse Wi, 54603

4. Bill to Name and Address Harter's Trash and Recycling
   2850 Larson Street
   La Crosse Wi, 54603

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection
1) Does waste meet requirements of the current Plan of Operations? ☐ Yes ☐ No
2) Is waste acceptable upon approval by WDNR? ☐ Yes ☐ No
3) Plan of Operations Approval Required? (Attach copy if yes) ☐ Yes ☐ No
4) Waste accepted for disposal? ☐ Yes ☐ No
5) Signature/Title _____/_____

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature Corey Yonkovich

10. Title EHS Specialist

11. Name (Type or print) Corey Yonkovich

12. Date 9-28-2022

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

January 06, 2022

Joshua Smale
Torrance Casting
3131 Commerce Street
La Crosse, WI 54603

RE: Project: TORRANCE CASTING
Pace Project No.: 40238945

Dear Joshua Smale:

Enclosed are the analytical results for sample(s) received by the laboratory on December 29, 2021. 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,

Steven Mleczko
steve.mleczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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without the written consent of Pace Analytical Services, LLC.

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

CERTIFICATIONS

Project: TORRANCE CASTING
Pace Project No.: 40238945

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

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

SAMPLE SUMMARY

Project: TORRANCE CASTING
Pace Project No.: 40238945

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238945001	**2102715019**	Solid	12/28/21 12:27	12/29/21 10:50
40238945002	**2102715016**	Solid	12/28/21 12:27	12/29/21 10:50
40238945003	**2102715017**	Solid	12/28/21 12:27	12/29/21 10:50
40238945004	**2102715018**	Solid	12/28/21 12:27	12/29/21 10:50

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: TORRANCE CASTING
Pace Project No.: 40238945

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40238945001	**2102715019**	EPA 6010D	TXW	5
		ASTM D2974-87	SKW	1
40238945002	**2102715016**	EPA 6010D	TXW	5
		ASTM D2974-87	SKW	1
40238945003	**2102715017**	EPA 6010D	TXW	5
		ASTM D2974-87	SKW	1
40238945004	**2102715018**	EPA 6010D	TXW	5
		ASTM D2974-87	SKW	1

PASI-G = Pace Analytical Services - Green Bay

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

ANALYTICAL RESULTS

Project: TORRANCE CASTING
Pace Project No.: 40238945

Sample: 2102715019 **Lab ID: 40238945001** Collected: 12/28/21 12:27 Received: 12/29/21 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Chromium	**718**	mg/kg	23.0	6.4	10	01/04/22 06:20	01/05/22 17:16	7440-47-3	
Copper	**1040**	mg/kg	23.0	6.4	10	01/04/22 06:20	01/05/22 17:16	7440-50-8	
Lead	**<13.8**	mg/kg	46.0	13.8	10	01/04/22 06:20	01/05/22 17:16	7439-92-1	D3
Manganese	**13800**	mg/kg	11.5	4.3	10	01/04/22 06:20	01/05/22 17:16	7439-96-5	
Nickel	**494**	mg/kg	23.0	6.1	10	01/04/22 06:20	01/05/22 17:16	7440-02-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**56.7**	%	0.10	0.10	1		01/03/22 14:36		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TORRANCE CASTING
Pace Project No.: 40238945

Sample: 2102715016 **Lab ID: 40238945002** Collected: 12/28/21 12:27 Received: 12/29/21 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Chromium	**2080**	mg/kg	19.3	5.4	20	01/04/22 06:20	01/05/22 17:21	7440-47-3	
Copper	**2850**	mg/kg	19.3	5.3	20	01/04/22 06:20	01/05/22 17:21	7440-50-8	
Lead	**<11.5**	mg/kg	38.6	11.5	20	01/04/22 06:20	01/05/22 17:21	7439-92-1	D3
Manganese	**4880**	mg/kg	9.6	3.6	20	01/04/22 06:20	01/05/22 17:21	7439-96-5	
Nickel	**3070**	mg/kg	19.3	5.1	20	01/04/22 06:20	01/05/22 17:21	7440-02-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**<0.10**	%	0.10	0.10	1		01/03/22 14:36		

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ANALYTICAL RESULTS

Project: TORRANCE CASTING
Pace Project No.: 40238945

Sample: 2102715017 **Lab ID: 40238945003** Collected: 12/28/21 12:27 Received: 12/29/21 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Chromium	**22.0**	mg/kg	1.1	0.30	1	01/04/22 06:20	01/04/22 17:09	7440-47-3	
Copper	**55.0**	mg/kg	1.1	0.30	1	01/04/22 06:20	01/04/22 17:09	7440-50-8	
Lead	**5.5**	mg/kg	2.2	0.65	1	01/04/22 06:20	01/04/22 17:09	7439-92-1	
Manganese	**539**	mg/kg	0.54	0.20	1	01/04/22 06:20	01/04/22 17:09	7439-96-5	
Nickel	**7.5**	mg/kg	1.1	0.29	1	01/04/22 06:20	01/04/22 17:09	7440-02-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.5**	%	0.10	0.10	1		01/03/22 14:36		

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ANALYTICAL RESULTS

Project: TORRANCE CASTING
Pace Project No.: 40238945

Sample: 2102715018 **Lab ID: 40238945004** Collected: 12/28/21 12:27 Received: 12/29/21 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Chromium	**4.8**	mg/kg	1.0	0.28	1	01/04/22 06:20	01/04/22 17:11	7440-47-3	
Copper	**6.5**	mg/kg	1.0	0.28	1	01/04/22 06:20	01/04/22 17:11	7440-50-8	
Lead	**5.7**	mg/kg	2.0	0.61	1	01/04/22 06:20	01/04/22 17:11	7439-92-1	
Manganese	**229**	mg/kg	0.51	0.19	1	01/04/22 06:20	01/04/22 17:11	7439-96-5	
Nickel	**3.0**	mg/kg	1.0	0.27	1	01/04/22 06:20	01/04/22 17:11	7440-02-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**3.8**	%	0.10	0.10	1		01/03/22 14:36		

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QUALITY CONTROL DATA

Project: TORRANCE CASTING
Pace Project No.: 40238945

QC Batch: 405483
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238945001, 40238945002, 40238945003, 40238945004

METHOD BLANK: 2339770 Matrix: Solid
Associated Lab Samples: 40238945001, 40238945002, 40238945003, 40238945004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/kg	<0.28	1.0	01/04/22 16:42	
Copper	mg/kg	<0.28	1.0	01/04/22 16:42	
Lead	mg/kg	<0.60	2.0	01/04/22 16:42	
Manganese	mg/kg	<0.19	0.50	01/04/22 16:42	
Nickel	mg/kg	<0.26	1.0	01/04/22 16:42	

LABORATORY CONTROL SAMPLE: 2339771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	25	23.7	95	80-120	
Copper	mg/kg	25	24.2	97	80-120	
Lead	mg/kg	25	25.2	101	80-120	
Manganese	mg/kg	25	24.3	97	80-120	
Nickel	mg/kg	25	25.4	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339772 2339773

Parameter	Units	40238960003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/kg	39.2	35	34.9	57.7	52.5	53	38	75-125	9	20	M0
Copper	mg/kg	21.9	35	34.9	52.1	46.8	86	71	75-125	11	20	M0
Lead	mg/kg	4.8	35	34.9	38.6	37.9	97	95	75-125	2	20	
Manganese	mg/kg	321	35	34.9	365	375	126	153	75-125	3	20	P6
Nickel	mg/kg	12.4	35	34.9	45.2	40.6	94	81	75-125	11	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.

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QUALITY CONTROL DATA

Project: TORRANCE CASTING
Pace Project No.: 40238945

QC Batch: 405461
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238945001, 40238945002, 40238945003, 40238945004

SAMPLE DUPLICATE: 2339670

Parameter	Units	40239025001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.6	6.5	1	10	

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.

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(920)469-2436

QUALIFIERS

Project: TORRANCE CASTING
Pace Project No.: 40238945

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.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TORRANCE CASTING
Pace Project No.: 40238945

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238945001	**2102715019**	EPA 3050B	405483	EPA 6010D	405544
40238945002	**2102715016**	EPA 3050B	405483	EPA 6010D	405544
40238945003	**2102715017**	EPA 3050B	405483	EPA 6010D	405544
40238945004	**2102715018**	EPA 3050B	405483	EPA 6010D	405544
40238945001	**2102715019**	ASTM D2974-87	405461		
40238945002	**2102715016**	ASTM D2974-87	405461		
40238945003	**2102715017**	ASTM D2974-87	405461		
40238945004	**2102715018**	ASTM D2974-87	405461		

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402389 45

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

ALL SHADED AREAS are for LAB USE ONLY

Company: Torrance Casting	Billing Information: Torrance Casting 3131 Commerce St, La Crosse, WI 54603
Address: 3131 Commerce St. LaCrosse	
Report To: Joshua Smale	Email To: JSS@torrancecasting.com
Copy To:	Site Collection Info/Address: 3131 Commerce St.
Customer Project Name/Number:	State: WI / County/City: LaCrosse / Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: (608)781-0600 Email: JSS@torrancecasting.com	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Joshua Smale	Purchase Order #: 202102593 Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: / Immediately Packed on Ice: [✓] Yes [ ] No
Sample Disposal: [✓] 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 [✓] No Analysis:

** 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	Lab Profile/Line
1	210271 5019	SL	Grab	12-28	12:27P					001
2	210271 5016	SL	Grab	12-28	12:27P					002
3	210271 5017	SL	Grab	12-28	12:27P					003
4	210271 5018	SL	Grab	12-28	12:27P					004

Analyses

Lab Profile/Line:

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:

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 #: 2697931

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: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
/ Torrance Casting	12-28-21 12:38 PM		
UPS	12/29/21 1050		12/29/21 1052
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: Torrance Casting Project # 40238945

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

All containers needing preservation have been checked and noted below: □Yes □No □N/A

Initial when completed: Date/ Time:

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

Pace Lab #	Glass								Plastic					Vials						Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN							
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																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																													12/29/			2.5 / 5 / 10
019																																2.5 / 5 / 10
020																														SCW		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	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Torrance Castings Project #:

WO# : 40238945

40238945

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

Tracking #: 1Z584973030125 3725

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 - 105 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4 /Corr: 4

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

Person examining contents: Date: 12/29/21 /Initials: SK

Labeled By Initials: AJ

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. 4 2CC 12/29/21 SK
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. Preserve, Analysis - determined by enclosed bottle order 12/29/21 SK
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: S	☐Yes ☑No ☐N/A	12. Client used water soluable ink - Labels unlegible. Could pick out a few digits. PM determined patients ID was the jar bar code determined jar placement.
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 logi

Page 2 of 2

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name TOWN OF CAMPBELL
2. Generator Mailing Address 2219 BAINBRIDGE ST
3. Facility Address (site of waste generation) TOWN ROADS
4. Generator City LA CROSSE
5. Generator State/Zip WI 54603
6. General Contact Person TOWN CLERK
   Phone # and email 608-783-0050 clerk@townofcampbellwi.gov
7. Technical Contact Person JASON HILTON
   Phone # and email 608-790-8103 jhilton@townofcampbellwi.gov

---

1. Name of Waste STREET SWEEPINGS
2. Process Generating Waste SWEEPING OF STREETS
3. Waste Color BROWN/BLACK MULTI COLORS
4. Waste Odor N/A None _____ Mild _____ Strong
5. Physical State _____ None _____ Liquid _____ Semi-Solid Other_____
6. Free Liquids _____ Yes _____ % _____ No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A X
8. Flash Point (cc) _____ None _____ <140F _____ 140-199F _____ >200
9. a. Waste Composition:

	Range
N/A	_____ to _____%
	_____ to _____%
	_____ to _____%
	_____ to _____%
	_____ to _____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS			X
Cyanide			X
Sulfide			X
Phenol			X
Chlorinated Solvents			X
Aromatic Solvents			X

10. Analytical Laboratory N/A
11. Date of Analysis N/A

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types N/A

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck __X__Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units _____

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency USUALLY DAILY APRIL/MAY

3. Hauler Name and Address TOWN OF CAMPBELL
   2219 BAINBRIDGE ST
   LA CROSSE WI 54603

4. Bill to Name and Address TOWN OF CAMPBELL
   2219 BAINBRIDGE ST
   LA CROSSE WI 54603

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title John Warnecke /	3/19/2024	

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature Brittany Fiksdal

10. Title Clerk / Treasurer

11. Name (Type or print) Brittany Fiksdal

12. Date 03/19/2024

DAVY LABORATORIES
A Division of Davy Engineering Co., Inc.
115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

LABORATORY ANALYSIS REPORT

Campbell, Town of
Attn: Jason Hilton
2219 Bainbridge St.
La Crosse, WI 54603

Date: March 15, 2024
Client No: 00185

Sample No: 24B0656-01
Sample Site: Shop

Sample Collected: 26-Feb-24 10:45

Sample Received: 26-Feb-24 11:43

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Subcontracted									
Free Liquid	**0.00**	**%**			1	28-Feb-24 08:09	28-Feb-24 08:12	EPA 9095B	A-01
Particle Size Distribution (Sieve)	**5**	**% passing**			1	03-Mar-24 10:35	03-Mar-24 10:35	ASTM D421-85	Sub-5

Submitted by:
Davy Laboratories

Julie A. Klimek
Julie A. Klimek, Laboratory Director

The laboratory analyses reported were determined in accordance with methods from approved authoritative sources. Approved authoritative sources are defined and listed within the respective state certification codes. The results are representative of the samples only; conditions can be expected to vary at different times and under different sampling conditions. This report may not be reproduced, except in full, without the written approval of the laboratory.
WI Certification 632021390 and WI DATCP 105-216, MN NELAC Certification 055-999-151, IA Certification 304. Revision #4 - 2/22/2024

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115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

LABORATORY ANALYSIS REPORT

Campbell, Town of
Attn: Jason Hilton
2219 Bainbridge St.
La Crosse, WI 54603

Date: March 15, 2024
Client No: 00185

Notes and Definitions

Z-01	0.00
Sub-5	Wisconsin Laboratory Certification No. 157066030
A-01	Subcontract Laboratory 445023150
LOD	Limit of Detection, adjusted for the dilution factor
LOQ/RL	Limit of Quantitation/Reporting Limit, adjusted for the dilution factor

Total metals are equivalent to total recoverable metals.

Cooler Information

Temperature °C	
Received on Ice	No
Required COC Information completed	Yes
Sample labels match COC	Yes
All samples received in the appropriate Containers	Yes
All samples received with sufficient volume	Yes
All samples received with sufficient holding time	Yes
All sample bottles received with H2SO4 were pH <2	No
All sample bottles received with HNO3 were pH <2	No
All sample bottles received with HCl were pH <2	No
All sample bottles received with NaOH were pH >12	No
All sample bottles for cyanide confirmed Sulfide absent	No
All sample bottles for cyanide confirmed Residual Cl absent	No

Preservation of VOC samples checked by the analyst.
Preservation of FOG samples checked by the analyst.
Residual Chlorine absent checked by the analyst unless noted above.

Case Narrative

DAVY LABORATORIES
A Division of Davy Engineering Co., Inc.
115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

Division of Davy Engineering Co.

LABORATORY ANALYSIS REPORT

Campbell, Town of
Attn: Jason Hilton
2219 Bainbridge St.
La Crosse, WI 54603

Date: March 15, 2024
Client No: 00185

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Town of Shelby
2. Generator Mailing Address 2800 Ward Ave La Crosse, WI 54601
3. Facility Address (site of waste generation) (same)
4. Generator City
5. Generator State/Zip
6. General Contact Person Terry Wright
   Phone # and email 608-788-1032 Ext 5
7. Technical Contact Person (same)
   Phone # and email

---

1. Name of Waste Street sweeping
2. Process Generating Waste Sweep streets, screen out with 3/4 screen-anything larger than 3/4 to landfill
3. Waste Color brown
4. Waste Odor X None ____ Mild ____ Strong
5. Physical State N/A None ____ Liquid ____ Semi-Solid Other____
6. Free Liquids ____ Yes ____ % X No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A X
8. Flash Point (cc) X None ____ <140F ____ 140-199F ____ >200
9. a. Waste Composition:

	Range
N/A	____ to ____%
	____ to ____%
	____ to ____%
	____ to ____%
	____ to ____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	____	____
Cyanide	____	____	____
Sulfide	____	____	____
Phenol	____	____	____
Chlorinated Solvents	____	____	____
Aromatic Solvents	____	____	____

10. Analytical Laboratory _____
11. Date of Analysis _____

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types N/A

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck X Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units _____

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency Each Spring

3. Hauler Name and Address Town of Shelby
   2800 Ward Ave
   La Crosse, WI 54601

4. Bill to Name and Address Same as above

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection
1) Does waste meet requirements of the current Plan of Operations? ☐ Yes ☐ No
2) Is waste acceptable upon approval by WDNR? ☐ Yes ☐ No
3) Plan of Operations Approval Required? (Attach copy if yes) ☐ Yes ☐ No
4) Waste accepted for disposal? ☐ Yes ☐ No
5) Signature/Title _____/_____

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature _____

10. Title Public Works

11. Name (Type or print) Terry Wright

12. Date 6/18/2024

DAVY LABORATORIES
A Division of Davy Engineering Co., Inc.
115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

LABORATORY ANALYSIS REPORT

Shelby, Town of
Attn: Terry Wright
2800 Ward Ave.
La Crosse, WI 54601

Date: July 17, 2024
Client No: 1118

Sample No: 24F0551-01
Sample Site: Unknown

Sample Collected: 19-Jun-24 08:45

Sample Received: 19-Jun-24 10:00

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Subcontracted									
Particle Size Distribution (Sieve)	**2**	**% passing**			1	27-Jun-24 15:15	27-Jun-24 15:15	ASTM D421-85	Sub-5

Submitted by:
Davy Laboratories

Julie A. Klimek
Julie A. Klimek, Laboratory Director

The laboratory analyses reported were determined in accordance with methods from approved authoritative sources. Approved authoritative sources are defined and listed within the respective state certification codes. The results are representative of the samples only; conditions can be expected to vary at different times and under different sampling conditions. This report may not be reproduced, except in full, without the written approval of the laboratory.
WI Certification 632021390 and WI DATCP 105-216, MN NELAC Certification 055-999-151, IA Certification 304. Revision #4 - 2/22/2024

DAVY LABORATORIES
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115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

LABORATORY ANALYSIS REPORT

Shelby, Town of
Attn: Terry Wright
2800 Ward Ave.
La Crosse, WI 54601

Date: July 17, 2024
Client No: 1118

Notes and Definitions

Sub-5	Wisconsin Laboratory Certification No. 157066030
LOD	Limit of Detection, adjusted for the dilution factor
LOQ/RL	Limit of Quantitation/Reporting Limit, adjusted for the dilution factor

Total metals are equivalent to total recoverable metals.

Cooler Information

Temperature °C	
Received on Ice	No
Required COC Information completed	Yes
Sample labels match COC	Yes
All samples received in the appropriate Containers	Yes
All samples received with sufficient volume	Yes
All samples received with sufficient holding time	Yes
All sample bottles received with H2SO4 were pH <2	No
All sample bottles received with HNO3 were pH <2	No
All sample bottles received with HCl were pH <2	No
All sample bottles received with NaOH were pH >12	No
All sample bottles for cyanide confirmed Sulfide absent	No
All sample bottles for cyanide confirmed Residual Cl absent	No

Preservation of VOC samples checked by the analyst.
Preservation of FOG samples checked by the analyst.
Residual Chlorine absent checked by the analyst unless noted above.

Case Narrative

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Xcel Energy French Island Facility
2. Generator Mailing Address 200 Bainbridge Street
3. Facility Address (site of waste generation) _____
4. Generator City La Crosse
5. Generator State/Zip WI 54601
6. General Contact Person Todd Baus
   Phone # and email todd.j.baus@xcelenergy.com 608-780-6883
7. Technical Contact Person _____
   Phone # and email _____

---

1. Name of Waste Bottom Ash
2. Process Generating Waste RDF Combustion
3. Waste Color Gray
4. Waste Odor X None _____ Mild _____ Strong
5. Physical State X None _____ Liquid _____ Semi-Solid Other_____
6. Free Liquids _____ Yes _____ % X No
7. pH____ <2____ 2-4.0____ 4.1-7.0 X ___ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A____
8. Flash Point (cc) X ____ None _____<140F _____140-199F _____>200
9. a. Waste Composition:

	Range
Ash	99 to 100 %
	_____ to _____ %
	_____ to _____ %
	_____ to _____ %
	_____ to _____ %

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	X	_____
Cyanide	____	X	_____
Sulfide	____	X	_____
Phenol	____	X	_____
Chlorinated Solvents	____	X	_____
Aromatic Solvents	____	X	_____

10. Analytical Laboratory Minneapolis Testing Laboratory
11. Date of Analysis 4/14/2021

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck _____Dump Truck
   X Roll-off _____Other _____

2. Waste Quantity/Units ~2,800 tons

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency Weekly

3. Hauler Name and Address Strupp Trucking
   N6200 County Road XX
   Onalaska WI 54650

4. Bill to Name and Address Xcel Energy Ash
   200 Bainbridge Street
   La Crosse WI 54601

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection
1) Does waste meet requirements of the current Plan of Operations? ☐ Yes ☐ No
2) Is waste acceptable upon approval by WDNR? ☐ Yes ☐ No
3) Plan of Operations Approval Required? (Attach copy if yes) ☐ Yes ☐ No
4) Waste accepted for disposal? ☐ Yes ☐ No
5) Signature/Title _____/_____

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature _____

10. Title _____

11. Name (Type or print) _____

12. Date _____

French Island Generating Plant
200 Bainbridge Street
La Crosse, WI 54603

March 27, 2024

Mr. John Morris – Waste Program Supervisor
Wisconsin Department of Natural Resources
Spooner Service Center
810 W Maple Street
Spooner, WI 54801-1255

Subject: **Northern States Power Company, a Wisconsin Corporation (an Xcel Energy company) French Island Generating Plant, Annual Municipal Solid Waste Combustor Ash Analysis & Generation Report for 2023**

Mr. Morris:

Northern States Power Company, a Wisconsin Corporation (an Xcel Energy company) is submitting this letter and the enclosed report to comply with the annual reporting requirements for municipal solid waste combustor residue management at the French Island Generating Plant as authorized by Wisconsin Department of Natural Resources (Department) January 18, 1996, exemption letter and Administrative Code Chapter NR 502.13(8). Enclosed are the following report contents:

(1) 2023 Quarterly and Annual chemical analysis of the ash – Toxicity Characteristic Leaching Procedure (TCLP) and Bulk Chemical Analyses as prescribed under NR 502.13 Table 1.

(2) 2023 French Island Monthly/Annual Fuel and Generation Report.

(3) 2023 Out-of-State Waste Tonnage Report that is prepared by the La Crosse County Solid Waste Department.

French Island Generating Plant continues to have an exclusive waste-processing contract with La Crosse County. The only states that provided this facility with solid waste in 2023 were Wisconsin, Minnesota, and Illinois. Waste totals identified in this report reflect record keeping practices performed by Xcel Energy and La Crosse County.

Additionally, the facility performed routine ash sampling in accordance with the Department exemption letter dated January 18, 1996 and Wis. Admin. Code NR 502. Weekly composite samples were collected within 2 weeks of March 15th, June 15th, September 15th, and December 15th.

If you have any questions regarding this information, please contact me via phone at (651) 380-5118 or via email at brad.giese@xcelenergy.com.

Regards,

Brad Giese
Xcel Energy, Environmental Analyst

Enclosure(s)

c: Casey Lamensky – Wisconsin Department of Natural Resources (electronic)
Sonny Zentner – Wisconsin Department of Natural Resources (electronic)
Todd Baus – Xcel Energy, French Island Generating Plant (electronic)
Jadd Stilwell – La Crosse County Solid Waste Department (electronic)

French Island Generating Plant

Annual Solid Waste & Ash Generation Report

Attachment 1 – Quarterly and Annual Chemical Ash Analysis

Attachment 2 – Monthly/Annual Fuel and Generation Report

Attachment 3 – Out of State Waste Tonnage Report

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Attachment 1

Quarterly and Annual Chemical Ash Analysis

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French Island Generating Plant - Annual Summary of Quarterly Ash Analysis - 2023

TCLP	(Original) 1st Qtr	2nd Qtr (fly ash)	2nd Qtr (bottom ash)	3rd Qtr	4th Qtr
Mercury (ug/L)	<0.0930	<0.0930	<0.0930	<0.0930	0.0712
Silver (ug/L)	<0.460	<0.460	<0.460	<0.460	<0.195
Arsenic (ug/L)	<6.64	<6.64	<6.64	<6.64	<7.40
Barium (ug/L)	1250	1930	1110	1130	1030
Cadmium (ug/L)	<4.61	<4.61	<4.61	<3.11	<3.11
Chromium (ug/L)	<12.1	<20.5	<20.5	<20.5	<20.5
Lead (ug/L)	<2.84	<2.84	<2.84	<2.84	<2.62
Selenium (ug/L)	<23.8	<13.9	<13.9	<13.9	<13.9
pH (pH Units)	10.2	9.87	11.7	9.97	9.99
Total Composition (Annual Analysis)					
Silver (mg/kg)	-	-	-	-	7.21
Arsenic (mg/kg)	-	-	-	-	25.7
Barium (mg/kg)	-	-	-	-	680
Cadmium (mg/kg)	-	-	-	-	9.61
Chromium (mg/kg)	-	-	-	-	127
Lead (mg/kg)	-	-	-	-	474
Antimony (mg/kg)	-	-	-	-	33.3
Selenium (mg/kg)	-	-	-	-	<0.382
Aluminum (mg/kg)	-	-	-	-	59500
Boron (mg/kg)	-	-	-	-	236
Calcium (mg/kg)	-	-	-	-	117000
Iron (mg/kg)	-	-	-	-	18700
Potassium (mg/kg)	-	-	-	-	11100
Magnesium (mg/kg)	-	-	-	-	14000
Sodium (mg/kg)	-	-	-	-	19000
Zinc (mg/kg)	-	-	-	-	1780
Mercury (mg/kg)	-	-	-	-	0.846
Percent Moisture (%)	-	-	-	-	13.54
Chlorides, as received (ug/g)	-	-	-	-	30151
Chlorides, dry basis (ug/g)	-	-	-	-	34874
Fluorides, as received (ug/g)	-	-	-	-	103
Fluorides, dry basis (ug/g)	-	-	-	-	119
Tot Organic Carbon, Mean (mg/kg)	-	-	-	-	9600

1st Quarter sampled during week of 3/28/2023; 2nd Quarter sampled during week of 6/11/2023; 3rd Quarter sampled during week of 9/25/2023; 4th Quarter samples during week of 12/19/2023.

Minneapolis Testing Laboratory
1518 Chestnut Ave N
Minneapolis, MN 55043
Certification #MN-027-053-197
WI-999071150
Christine Keefe, Manager (612) 630-4506

24 April 2023

Brian Schmidt

Environmental Services-Waste Wisconsin

1414 West Hamilton Ave

Eau Claire, WI 54701

cc:

RE: French Island Quarterly Ash

Enclosed are the results of analyses for samples received by the laboratory on 03/31/2023 10:30. If you have any questions concerning this report, please feel free to contact me.

I certify that this analysis report was prepared under my direction or supervision under a system designed to assure that qualified personnel analyzed the submitted samples. All protocols for analysis were followed as required by Minnesota Rules and the Applicable Management Plan.

Sincerely,

Steve Davis

Project Manager

Minneapolis Testing Laboratory
1518 Chestnut Ave N
Minneapolis, MN 55043
Certification # MN-027-053-197
WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brian Schmidt	04/24/2023 08:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sample Qualifier	Laboratory ID	Matrix	Sampled	Received
1st Quarter Ash		MID0019-01	Solid	03/28/2023 0:00	03/31/2023 10:30

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Minneapolis Testing Laboratory
1518 Chestnut Ave N
Minneapolis, MN 55043
Certification # MN-027-053-197
WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brian Schmidt	04/24/2023 08:05

1st Quarter Ash

MID0019-01 (Solid) - Chain of Custody Number: 286863

Analyte	Result	LOD	LOQ	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
TCLP Metals											
Mercury	< 0.0930	0.0930	0.310	ug/L		1	BID0378	4/19/23 14:15	4/20/23 14:58	EPA 245.1/7470A	HRD
TCLP Metals by ICPMS											
Silver	< 0.460	0.460	1.53	ug/L		50	BID0349	4/19/23 9:52	4/20/23 8:25	EPA 6020B	CRL
Arsenic	< 6.64	6.64	22.1	ug/L		50	BID0349	4/19/23 9:52	4/20/23 8:25	EPA 6020B	CRL
Barium	1250	4.54	15.1	ug/L		50	BID0349	4/19/23 9:52	4/20/23 8:25	EPA 6020B	CRL
Cadmium	< 4.61	4.61	15.4	ug/L		50	BID0349	4/19/23 9:52	4/20/23 8:25	EPA 6020B	CRL
Chromium	< 12.1	12.1	40.3	ug/L		50	BID0349	4/19/23 9:52	4/20/23 8:25	EPA 6020B	CRL
Lead	< 2.84	2.84	9.47	ug/L		50	BID0349	4/19/23 9:52	4/20/23 8:25	EPA 6020B	CRL
Selenium	< 23.8	23.8	79.2	ug/L		50	BID0349	4/19/23 9:52	4/20/23 8:25	EPA 6020B	CRL
TCLP Leachate pH											
pH	10.2			pH Units		1	BID0319	4/18/23 7:59	4/19/23 8:56	SM 4500-H+ B	CRL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Minneapolis Testing Laboratory
1518 Chestnut Ave N
Minneapolis, MN 55043
Certification # MN-027-053-197
WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brian Schmidt	04/24/2023 08:05

TCLP Metals - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BID0378 - EPA 245.1, EPA 7470A											
Blank (BID0378-BLK1)					Prepared: 04/19/2023 Analyzed: 04/20/2023						
Mercury	<0.0930	0.0930	0.31000	ug/L							
LCS (BID0378-BS1)					Prepared: 04/19/2023 Analyzed: 04/20/2023						
Mercury	5.5464	0.0930	0.31000	ug/L	6.0000		92.4	85-115			
Duplicate (BID0378-DUP1)		**Source: MID0019-01**			Prepared: 04/19/2023 Analyzed: 04/20/2023						
Mercury	<0.0930	0.0930	0.31000	ug/L		<0.0930				20	
Matrix Spike (BID0378-MS1)		**Source: MID0019-01**			Prepared: 04/19/2023 Analyzed: 04/20/2023						
Mercury	5.6000	0.0930	0.31000	ug/L	6.0000	<0.0930	93.3	70-130			
Matrix Spike Dup (BID0378-MSD1)		**Source: MID0019-01**			Prepared: 04/19/2023 Analyzed: 04/20/2023						
Mercury	5.6356	0.0930	0.31000	ug/L	6.0000	<0.0930	93.9	70-130	0.634	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Minneapolis Testing Laboratory
1518 Chestnut Ave N
Minneapolis, MN 55043
Certification # MN-027-053-197
WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brian Schmidt	04/24/2023 08:05

TCLP Metals by ICPMS - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BID0349 - EPA 200.2, EPA 3005											
Blank (BID0349-BLK1)					Prepared: 04/19/2023 Analyzed: 04/20/2023						
Arsenic	<		22.135	ug/L							
Silver	<		1.5344	ug/L							
Cadmium	<		15.374	ug/L							
Chromium	<		40.338	ug/L							
Selenium	<		79.195	ug/L							
Barium	<		15.145	ug/L							
Lead	<		9.4734	ug/L							
LCS (BID0349-BS1)					Prepared: 04/19/2023 Analyzed: 04/20/2023						
Chromium	1094.7		40.338	ug/L	1000.0		109	80-120			
Barium	1048.4		15.145	ug/L	1000.0		105	80-120			
Lead	1006.9		9.4734	ug/L	1000.0		101	80-120			
Arsenic	1086.8		22.135	ug/L	1000.0		109	80-120			
Cadmium	1075.6		15.374	ug/L	1000.0		108	80-120			
Selenium	1100.1		79.195	ug/L	1000.0		110	80-120			
Silver	100.44		1.5344	ug/L	100.00		100	80-120			
Duplicate (BID0349-DUP1)		**Source: MID0019-01**			Prepared: 04/19/2023 Analyzed: 04/20/2023						
Barium	1402.5		15.145	ug/L		1245.2			11.9	20	
Silver	<		1.5344	ug/L		<				20	
Arsenic	<		22.135	ug/L		<				20	
Lead	<		9.4734	ug/L		<				20	
Selenium	<		79.195	ug/L		<				20	
Chromium	<		40.338	ug/L		<				20	
Cadmium	<		15.374	ug/L		<				20	
Matrix Spike (BID0349-MS1)		**Source: MID0019-01**			Prepared: 04/19/2023 Analyzed: 04/20/2023						
Selenium	1088.9		79.195	ug/L	1000.0	<	109	75-125			
Silver	97.753		1.5344	ug/L	100.00	<	97.8	75-125			
Cadmium	1051.5		15.374	ug/L	1000.0	<	105	75-125			
Lead	991.83		9.4734	ug/L	1000.0	<	99.2	75-125			
Arsenic	1080.9		22.135	ug/L	1000.0	<	108	75-125			
Chromium	1055.2		40.338	ug/L	1000.0	<	106	75-125			
Barium	2290.6		15.145	ug/L	1000.0	1245.2	105	75-125			

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WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brian Schmidt	04/24/2023 08:05

TCLP Metals by ICPMS - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BID0349 - EPA 200.2, EPA 3005											
Matrix Spike Dup (BID0349-MSD1)		**Source: MID0019-01**			Prepared: 04/19/2023 Analyzed: 04/20/2023						
Arsenic	1088.1		22.135	ug/L	1000.0	<	109	75-125	0.660	20	
Chromium	1036.2		40.338	ug/L	1000.0	<	104	75-125	1.81	20	
Silver	99.236		1.5344	ug/L	100.00	<	99.2	75-125	1.50	20	
Barium	2343.9		15.145	ug/L	1000.0	1245.2	110	75-125	2.30	20	
Cadmium	1061.9		15.374	ug/L	1000.0	<	106	75-125	0.985	20	
Selenium	1088.6		79.195	ug/L	1000.0	<	109	75-125	0.0288	20	
Lead	1014.1		9.4734	ug/L	1000.0	<	101	75-125	2.22	20	

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Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brian Schmidt	04/24/2023 08:05

TCLP Leachate pH - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BID0319 - Wet Prep											
Blank (BID0319-BLK1)					Prepared: 04/18/2023 Analyzed: 04/19/2023						
pH	4.8200			pH Units							
LCS (BID0319-BS1)					Prepared: 04/18/2023 Analyzed: 04/19/2023						
pH	7.0600			pH Units	7.0000		101	90-110			
LCS (BID0319-BS2)					Prepared: 04/18/2023 Analyzed: 04/19/2023						
pH	7.0700			pH Units	7.0000		101	90-110			
Duplicate (BID0319-DUP1)		**Source: MID0019-01**			Prepared: 04/18/2023 Analyzed: 04/19/2023						
pH	10.120			pH Units		10.220			0.983	20	

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Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brian Schmidt	04/24/2023 08:05

Qualifiers and Definitions

Z	Non Accredited Analyte
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LOD	Limit of Detection
LOQ	Limit of Quantitation
	Results from solid samples were not adjusted for moisture content.
	When samples are diluted, the LOD and LOQ are adjusted by the dilution factor.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Xcel Energy

Nº 286863

Chain of Custody

Amarillo Testing Laboratory
7201 N. Lakeside Road, Amarillo, TX 79108
Phone (806) 381-6461 – Fax (806) 381-6468

Denver Testing Laboratory
9500 Interstate 76, Henderson, CO 80640
Phone (303) 628-2606 – Fax (303) 628-2926

Minneapolis Testing Laboratory
1518 Chestnut Avenue North, Minneapolis, MN 55403
Phone (612) 630-4506 – Fax (612) 630-4367

Facility/Project/Location: French Island Generating Plant
Project Manager/Requestor: Jessica Ahrnen
Phone #/E-mail Address: 608. 793. 0084
Sampled By (print/signature): Operations Staff
Copies of Report to: jahrnen
LSR #:

**LIMS ID	Sample ID/Location	Date	Time	Safety Related (Nuclear)	Matrix	Preservative	# of Containers	Volume/Amount	Analyses: Anions:	Wet Chem.:	Metals: TCLP metals	PCBs	Oil Testing: (Comp)	DGA Furans (circle selection(s))	Fuels:	Asbestos:					** Sample Temperature ° C	** Sample pH
	French Island - 1Q2023 Fly Ash Sample	week of 3/28/23	comps		S		1	gal			✓											

Relinquished by: jahrnen Date/Time 3/28/23 1500
Relinquished by: Date/Time
Relinquished by: Date/Time

Received by: 3/31/23 0700 Date/Time
Received by: Date/Time
Received by: Date/Time

Comments: On Counter
Temp: Ambient

Distribution: White: Return Original (electronic or hard copy) to Project Manager with Analytical Results; **Canary:** Laboratory; **Pink**: Generator's Copy
Matrix: **(W)** Water **(S** Solid **(SL)** Sludge **(O)** Other (Specify) **Preservative**: **(I)** Ice **(N)** Nitric Acid **(S)** Sulfuric Acid **(H)** Hydrochloric Acid **(D)** Sodium Hydroxide **(X)** Other (Specify)
(F)filtered **(F15)** filtered within 15 minutes (O-PO4)
Note: ** - indicates lab use only

Form 17-9084 Revision 01/29/14

Amended Report

Original Report ID: MIF0333 Xcel General Report WI FINAL 07 07 2023 1012

Minneapolis Testing Laboratory
1518 Chestnut Ave N
Minneapolis, MN 55043
Certification #MN-027-053-197
WI-999071150
Christine Keefe, Manager (612) 630-4506

26 March 2024

Brad Giese

Environmental Services-Waste Wisconsin

1414 West Hamilton Ave

Eau Claire, WI 54701

RE: French Island Quarterly Ash

cc: Reissued report with corrected sample name. HSD 3/26/24

Enclosed are the results of analyses for samples received by the laboratory on 06/22/2023 14:30. If you have any questions concerning this report, please feel free to contact me.

I certify that this analysis report was prepared under my direction or supervision under a system designed to assure that qualified personnel analyzed the submitted samples. All protocols for analysis were followed as required by Minnesota Rules and the Applicable Management Plan.

Sincerely,

Steve Davis

System Chemist

Amended Report

Original Report ID: MIF0333 Xcel General Report WI FINAL 07 07 2023 1012

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Minneapolis, MN 55043
Certification # MN-027-053-197
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Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	03/26/2024 07:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sample Qualifier	Laboratory ID	Matrix	Sampled	Received
2nd Quarter Ash		MIF0333-01	Solid	06/16/2023 9:00	06/22/2023 14:30
Bottom Ash		MIF0333-02	Solid	06/12/2023 9:00	06/22/2023 14:30

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Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	03/26/2024 07:01

2nd Quarter Ash

MIF0333-01 (Solid) - Chain of Custody Number: 284360

Analyte	Result	LOD	LOQ	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
TCLP Metals											
Mercury	< 0.0930	0.0930	0.310	ug/L		1	BIG0057	7/6/23 8:41	7/6/23 14:02	EPA 245.1/7470A	HRD
TCLP Metals by ICPMS											
Silver	< 0.460	0.460	1.53	ug/L		50	BIG0056	7/6/23 8:55	7/7/23 9:08	EPA 6020B	CRL
Arsenic	< 6.64	6.64	22.1	ug/L		50	BIG0056	7/6/23 8:55	7/7/23 9:08	EPA 6020B	CRL
Barium	1930	4.54	15.1	ug/L		50	BIG0056	7/6/23 8:55	7/7/23 9:08	EPA 6020B	CRL
Cadmium	< 4.61	4.61	15.4	ug/L		50	BIG0056	7/6/23 8:55	7/7/23 9:08	EPA 6020B	CRL
Chromium	< 20.5	20.5	68.3	ug/L		50	BIG0056	7/6/23 8:55	7/7/23 9:08	EPA 6020B	CRL
Lead	< 2.84	2.84	9.47	ug/L		50	BIG0056	7/6/23 8:55	7/7/23 9:08	EPA 6020B	CRL
Selenium	< 13.9	13.9	46.2	ug/L		50	BIG0056	7/6/23 8:55	7/7/23 9:08	EPA 6020B	CRL
TCLP Leachate pH											
pH	9.87			pH Units		1	BIG0024	7/5/23 6:31	7/6/23 9:10	SM 4500-H+ B	CRL

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Amended Report

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Minneapolis Testing Laboratory
1518 Chestnut Ave N
Minneapolis, MN 55043
Certification # MN-027-053-197
WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	03/26/2024 07:01

Bottom Ash

MIF0333-02 (Solid) - Chain of Custody Number: 284360

Analyte	Result	LOD	LOQ	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
TCLP Metals											
Mercury	< 0.0930	0.0930	0.310	ug/L		1	BIG0057	7/6/23 8:41	7/6/23 14:08	EPA 245.1/7470A	HRD
TCLP Metals by ICPMS											
Silver	< 0.460	0.460	1.53	ug/L		50	BIG0056	7/6/23 8:55	7/7/23 9:20	EPA 6020B	CRL
Arsenic	< 6.64	6.64	22.1	ug/L		50	BIG0056	7/6/23 8:55	7/7/23 9:20	EPA 6020B	CRL
Barium	1110	4.54	15.1	ug/L		50	BIG0056	7/6/23 8:55	7/7/23 9:20	EPA 6020B	CRL
Cadmium	< 4.61	4.61	15.4	ug/L		50	BIG0056	7/6/23 8:55	7/7/23 9:20	EPA 6020B	CRL
Chromium	< 20.5	20.5	68.3	ug/L		50	BIG0056	7/6/23 8:55	7/7/23 9:20	EPA 6020B	CRL
Lead	< 2.84	2.84	9.47	ug/L		50	BIG0056	7/6/23 8:55	7/7/23 9:20	EPA 6020B	CRL
Selenium	< 13.9	13.9	46.2	ug/L		50	BIG0056	7/6/23 8:55	7/7/23 9:20	EPA 6020B	CRL
TCLP Leachate pH											
pH	11.7			pH Units		1	BIG0024	7/5/23 6:31	7/6/23 9:13	SM 4500-H+ B	CRL

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Amended Report

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Minneapolis Testing Laboratory
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Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	03/26/2024 07:01

TCLP Metals - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BIG0057 - EPA 245.1, EPA 7470A											
Blank (BIG0057-BLK1)					Prepared & Analyzed: 07/06/2023						
Mercury	<0.0930	0.0930	0.31000	ug/L							
LCS (BIG0057-BS1)					Prepared & Analyzed: 07/06/2023						
Mercury	5.7976	0.0930	0.31000	ug/L	6.0000		96.6	85-115			
Duplicate (BIG0057-DUP1)		**Source: MIF0266-01**			Prepared & Analyzed: 07/06/2023						
Mercury	<0.0930	0.0930	0.31000	ug/L		<0.0930				20	
Matrix Spike (BIG0057-MS1)		**Source: MIF0266-01**			Prepared & Analyzed: 07/06/2023						
Mercury	5.6918	0.0930	0.31000	ug/L	6.0000	<0.0930	94.9	70-130			
Matrix Spike Dup (BIG0057-MSD1)		**Source: MIF0266-01**			Prepared & Analyzed: 07/06/2023						
Mercury	5.7502	0.0930	0.31000	ug/L	6.0000	<0.0930	95.8	70-130	1.02	20	

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Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	03/26/2024 07:01

TCLP Metals by ICPMS - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BIG0056 - EPA 200.2, EPA 3005											
Blank (BIG0056-BLK1)					Prepared: 07/06/2023 Analyzed: 07/07/2023						
Arsenic	<		22.135	ug/L							
Silver	<		1.5344	ug/L							
Cadmium	<		10.362	ug/L							
Chromium	<		68.329	ug/L							
Selenium	<		46.219	ug/L							
Barium	<		15.145	ug/L							
Lead	<		9.4734	ug/L							
LCS (BIG0056-BS1)					Prepared: 07/06/2023 Analyzed: 07/07/2023						
Chromium	1018.5		68.329	ug/L	1000.0		102	80-120			
Barium	1024.4		15.145	ug/L	1000.0		102	80-120			
Lead	957.31		9.4734	ug/L	1000.0		95.7	80-120			
Arsenic	1070.8		22.135	ug/L	1000.0		107	80-120			
Cadmium	1075.6		10.362	ug/L	1000.0		108	80-120			
Selenium	1117.0		46.219	ug/L	1000.0		112	80-120			
Silver	100.66		1.5344	ug/L	100.00		101	80-120			
Duplicate (BIG0056-DUP1)		**Source: MIF0266-01**			Prepared: 07/06/2023 Analyzed: 07/07/2023						
Barium	366.22		15.145	ug/L		296.90			20.9	20	M_D
Silver	<		1.5344	ug/L		<				20	
Arsenic	<		22.135	ug/L		<				20	
Lead	<		9.4734	ug/L		<				20	
Selenium	<		46.219	ug/L		<				20	
Chromium	55.818		68.329	ug/L		53.617			4.02	20	
Cadmium	<		10.362	ug/L		<				20	
Matrix Spike (BIG0056-MS1)		**Source: MIF0266-01**			Prepared: 07/06/2023 Analyzed: 07/07/2023						
Selenium	1090.1		46.219	ug/L	1000.0	<	109	75-125			
Silver	99.366		1.5344	ug/L	100.00	<	99.4	75-125			
Cadmium	1061.3		10.362	ug/L	1000.0	<	106	75-125			
Lead	953.76		9.4734	ug/L	1000.0	<	95.4	75-125			
Arsenic	1064.7		22.135	ug/L	1000.0	<	106	75-125			
Chromium	1059.5		68.329	ug/L	1000.0	53.617	101	75-125			
Barium	1383.9		15.145	ug/L	1000.0	296.90	109	75-125			

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Amended Report

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Minneapolis Testing Laboratory
1518 Chestnut Ave N
Minneapolis, MN 55043
Certification # MN-027-053-197
WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	03/26/2024 07:01

TCLP Metals by ICPMS - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BIG0056 - EPA 200.2, EPA 3005											
Matrix Spike Dup (BIG0056-MSD1)		**Source: MIF0266-01**			Prepared: 07/06/2023 Analyzed: 07/07/2023						
Arsenic	1080.5		22.135	ug/L	1000.0	<	108	75-125	1.47	20	
Chromium	1077.7		68.329	ug/L	1000.0	53.617	102	75-125	1.71	20	
Silver	98.564		1.5344	ug/L	100.00	<	98.6	75-125	0.810	20	
Barium	1410.6		15.145	ug/L	1000.0	296.90	111	75-125	1.91	20	
Cadmium	1070.3		10.362	ug/L	1000.0	<	107	75-125	0.836	20	
Selenium	1092.1		46.219	ug/L	1000.0	<	109	75-125	0.179	20	
Lead	934.27		9.4734	ug/L	1000.0	<	93.4	75-125	2.06	20	

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Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	03/26/2024 07:01

TCLP Leachate pH - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BIG0024 - Wet Prep											
Blank (BIG0024-BLK1)					Prepared: 07/05/2023 Analyzed: 07/06/2023						
pH	4.8300			pH Units							
LCS (BIG0024-BS1)					Prepared: 07/05/2023 Analyzed: 07/06/2023						
pH	3.9600			pH Units	4.0000		99.0	90-110			
LCS (BIG0024-BS2)					Prepared: 07/05/2023 Analyzed: 07/06/2023						
pH	3.9900			pH Units	4.0000		99.8	90-110			
Duplicate (BIG0024-DUP1)		**Source: MIF0266-01**			Prepared: 07/05/2023 Analyzed: 07/06/2023						
pH	11.180			pH Units		11.200			0.179	20	

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Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	03/26/2024 07:01

Qualifiers and Definitions

M_D	The RPD for the sample duplicate was outside of QC acceptance limits possibly due to non-homogeneous matrix.
Z	Non Accredited Analyte
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LOD	Limit of Detection
LOQ	Limit of Quantitation
	Results from solid samples were not adjusted for moisture content.
	When samples are diluted, the LOD and LOQ are adjusted by the dilution factor.

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Xcel Energy®

Nº 284360

Chain of Custody

Amarillo Testing Laboratory
7201 N. Lakeside Road, Amarillo, TX 79108
Phone (806) 381-6461 – Fax (806) 381-6468

Denver Testing Laboratory
9500 Interstate 76, Henderson, CO 80640
Phone (303) 628-2606 – Fax (303) 628-2926

Minneapolis Testing Laboratory
1518 Chestnut Avenue North, Minneapolis, MN 55403
Phone (612) 630-4506 – Fax (612) 630-4367

Facility/Project/Location: French Island Generating Plant
Project Manager/Requestor: Jessica Ahnen
Phone #/E-mail Address: 608 793 0884
Sampled By (print/signature): jahnen
Copies of Report to:
LSR #:

**LIMS ID	Sample ID/Location	Date	Time	Safety Related (Nuclear)	Matrix	Preservative	# of Containers	Volume/Amount	Analyses: Anions:	Wet Chem.:	Metals: TCLP metals	PCBs	Oil Testing: (Comp)	DGA Furans (circle selection(s))	Fuels:	Asbestos:					** Sample Temperature ° C	** Sample pH
	French Island - 2Q 2023																					
	Fly Ash Sample	Week of 6/11/23	0900		S		1	gal			✓											
	Bottom Ash Sample	Week of 6/11/23	0900		S		1	gal			✓											

Relinquished by:	Date/Time	Received by:	Date/Time	Comments:
jahnen	6/21/23	Troy Gaasterland	06/21/23	12:00 PM.. Ambient
Troy Gaasterland	06/22/23		6/22/23 1430	
Relinquished by:	Date/Time	Received by:	Date/Time	

Distribution: White: Return Original (electronic or hard copy) to Project Manager with Analytical Results; **Canary:** Laboratory; **Pink**: Generator's Copy
Matrix: **(W)** Water **(S** Solid **(SL)** Sludge **(O)** Other (Specify) **Preservative**: **(I)** Ice **(N)** Nitric Acid **(S)** Sulfuric Acid **(H)** Hydrochloric Acid **(D)** Sodium Hydroxide **(X)** Other (Specify)
(F)filtered **(F15)** filtered within 15 minutes (O-PO4)
Note: ** - indicates lab use only

Form 17-9084 Revision 01/29/14

Minneapolis Testing Laboratory
1518 Chestnut Ave N
Minneapolis, MN 55043
Certification #MN-027-053-197
WI-999071150
Christine Keefe, Manager (612) 630-4506

27 October 2023

Troy Gansluckner

Environmental Services-Waste Wisconsin

1414 West Hamilton Ave

Eau Claire, WI 54701

cc:

RE: French Island Quarterly Ash

Enclosed are the results of analyses for samples received by the laboratory on 10/09/2023 06:00. If you have any questions concerning this report, please feel free to contact me.

I certify that this analysis report was prepared under my direction or supervision under a system designed to assure that qualified personnel analyzed the submitted samples. All protocols for analysis were followed as required by Minnesota Rules and the Applicable Management Plan.

Sincerely,

Steve Davis

System Chemist

Minneapolis Testing Laboratory
1518 Chestnut Ave N
Minneapolis, MN 55043
Certification # MN-027-053-197
WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Troy Gansluckner	10/27/2023 08:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sample Qualifier	Laboratory ID	Matrix	Sampled	Received
3rd Quarter Ash		MIJ0045-01	Solid	09/29/2023 9:00	10/09/2023 6:00

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Troy Gansluckner	10/27/2023 08:48

3rd Quarter Ash

MIJ0045-01 (Solid) - Chain of Custody Number: 284366

Analyte	Result	LOD	LOQ	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
TCLP Metals											
Mercury	< 0.0930	0.0930	0.310	ug/L		1	BIJ0320	10/12/23 9:07	10/12/23 15:05	EPA 245.1/7470A	HRD
TCLP Metals by ICPMS											
Silver	< 0.460	0.460	1.53	ug/L		50	BIJ0366	10/16/23 8:30	10/24/23 11:05	EPA 6020B	CRL
Arsenic	< 6.64	6.64	22.1	ug/L		50	BIJ0366	10/16/23 8:30	10/24/23 11:05	EPA 6020B	CRL
Barium	1130	4.54	15.1	ug/L		50	BIJ0366	10/16/23 8:30	10/24/23 11:05	EPA 6020B	CRL
Cadmium	< 3.11	3.11	10.4	ug/L		50	BIJ0366	10/16/23 8:30	10/24/23 11:05	EPA 6020B	CRL
Chromium	< 20.5	20.5	68.3	ug/L		50	BIJ0366	10/16/23 8:30	10/24/23 11:05	EPA 6020B	CRL
Lead	< 2.84	2.84	9.47	ug/L		50	BIJ0366	10/16/23 8:30	10/24/23 11:05	EPA 6020B	CRL
Selenium	< 13.9	13.9	46.2	ug/L		50	BIJ0366	10/16/23 8:30	10/24/23 11:05	EPA 6020B	CRL
TCLP Leachate pH											
pH	9.97			pH Units		1	BIJ0262	10/11/23 7:14	10/12/23 9:11	SM 4500-H+ B	CRL

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Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Troy Gansluckner	10/27/2023 08:48

TCLP Metals - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BIJ0320 - EPA 245.1, EPA 7470A											
Blank (BIJ0320-BLK1)					Prepared & Analyzed: 10/12/2023						
Mercury	<0.0930	0.0930	0.31000	ug/L							
LCS (BIJ0320-BS1)					Prepared & Analyzed: 10/12/2023						
Mercury	5.6900	0.0930	0.31000	ug/L	6.0000		94.8	85-115			
Duplicate (BIJ0320-DUP1)			**Source: MIJ0045-01**		Prepared & Analyzed: 10/12/2023						
Mercury	<0.0930	0.0930	0.31000	ug/L		<0.0930				20	
Matrix Spike (BIJ0320-MS1)			**Source: MIJ0045-01**		Prepared & Analyzed: 10/12/2023						
Mercury	5.6534	0.0930	0.31000	ug/L	6.0000	<0.0930	94.2	70-130			
Matrix Spike Dup (BIJ0320-MSD1)			**Source: MIJ0045-01**		Prepared & Analyzed: 10/12/2023						
Mercury	5.5934	0.0930	0.31000	ug/L	6.0000	<0.0930	93.2	70-130	1.07	20	

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Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Troy Gansluckner	10/27/2023 08:48

TCLP Metals by ICP - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BIJ0401 - EPA 200.2, EPA 3005											
Blank (BIJ0401-BLK1)					Prepared: 10/17/2023 Analyzed: 10/18/2023						
Silver	0.0042207	0.00180	0.0059999	mg/L							M_B-07
Duplicate (BIJ0401-DUP1)			**Source: MIJ0045-01**		Prepared: 10/17/2023 Analyzed: 10/18/2023						
Silver	0.021079	0.00180	0.0059999	mg/L		0.021955			4.07	20	
Matrix Spike (BIJ0401-MS1)			**Source: MIJ0045-01**		Prepared: 10/17/2023 Analyzed: 10/18/2023						
Silver	0.12275	0.00180	0.0059999	mg/L	0.10000	0.021955	101	75-125			
Matrix Spike Dup (BIJ0401-MSD1)			**Source: MIJ0045-01**		Prepared: 10/17/2023 Analyzed: 10/18/2023						
Silver	0.12536	0.00180	0.0059999	mg/L	0.10000	0.021955	103	75-125	2.11	20	

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Minneapolis, MN 55043
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Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Troy Gansluckner	10/27/2023 08:48

TCLP Metals by ICPMS - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BIJ0366 - EPA 200.2, EPA 3005											
Blank (BIJ0366-BLK1)					Prepared: 10/16/2023 Analyzed: 10/24/2023						
Silver	<		1.5344	ug/L							
Arsenic	<		22.135	ug/L							
Cadmium	<		10.362	ug/L							
Chromium	<		68.329	ug/L							
Barium	<		15.145	ug/L							
Selenium	<		46.219	ug/L							
Lead	<		9.4734	ug/L							
LCS (BIJ0366-BS1)					Prepared: 10/16/2023 Analyzed: 10/24/2023						
Arsenic	1117.8		22.135	ug/L	1000.0		112	80-120			
Selenium	1115.1		46.219	ug/L	1000.0		112	80-120			
Chromium	1144.9		68.329	ug/L	1000.0		114	80-120			
Barium	1109.2		15.145	ug/L	1000.0		111	80-120			
Lead	1059.4		9.4734	ug/L	1000.0		106	80-120			
Cadmium	1062.2		10.362	ug/L	1000.0		106	80-120			
Silver	102.33		1.5344	ug/L	100.00		102	80-120			
Duplicate (BIJ0366-DUP1)		**Source: MIJ0045-01**			Prepared: 10/16/2023 Analyzed: 10/24/2023						
Chromium	<		68.329	ug/L		<				20	
Selenium	<		46.219	ug/L		<				20	
Silver	<		1.5344	ug/L		<				20	
Lead	<		9.4734	ug/L		<				20	
Barium	1164.1		15.145	ug/L		1127.1			3.23	20	
Arsenic	<		22.135	ug/L		<				20	
Cadmium	<		10.362	ug/L		<				20	
Matrix Spike (BIJ0366-MS1)		**Source: MIJ0045-01**			Prepared: 10/16/2023 Analyzed: 10/24/2023						
Arsenic	1085.0		22.135	ug/L	1000.0	<	108	75-125			
Barium	2182.2		15.145	ug/L	1000.0	1127.1	106	75-125			
Cadmium	1040.7		10.362	ug/L	1000.0	<	104	75-125			
Silver	97.822		1.5344	ug/L	100.00	<	97.8	75-125			
Selenium	1086.8		46.219	ug/L	1000.0	<	109	75-125			
Chromium	1072.3		68.329	ug/L	1000.0	<	107	75-125			
Lead	1000.7		9.4734	ug/L	1000.0	<	100	75-125			

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WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Troy Gansluckner	10/27/2023 08:48

TCLP Metals by ICPMS - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BIJ0366 - EPA 200.2, EPA 3005											
Matrix Spike Dup (BIJ0366-MSD1)		**Source: MIJ0045-01**			Prepared: 10/16/2023 Analyzed: 10/24/2023						
Silver	96.511		1.5344	ug/L	100.00	<	96.5	75-125	1.35	20	
Barium	2211.4		15.145	ug/L	1000.0	1127.1	108	75-125	1.33	20	
Cadmium	1062.5		10.362	ug/L	1000.0	<	106	75-125	2.07	20	
Selenium	1131.9		46.219	ug/L	1000.0	<	113	75-125	4.07	20	
Arsenic	1069.3		22.135	ug/L	1000.0	<	107	75-125	1.46	20	
Chromium	1084.1		68.329	ug/L	1000.0	<	108	75-125	1.09	20	
Lead	1011.1		9.4734	ug/L	1000.0	<	101	75-125	1.04	20	

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Minneapolis, MN 55043
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WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Troy Gansluckner	10/27/2023 08:48

TCLP Leachate pH - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BIJ0262 - Wet Prep											
Blank (BIJ0262-BLK1)					Prepared: 10/11/2023 Analyzed: 10/12/2023						
pH	4.8400			pH Units							
LCS (BIJ0262-BS1)					Prepared: 10/11/2023 Analyzed: 10/12/2023						
pH	3.9500			pH Units	4.0000		98.8	90-110			
LCS (BIJ0262-BS2)					Prepared: 10/11/2023 Analyzed: 10/12/2023						
pH	3.9900			pH Units	4.0000		99.8	90-110			
Duplicate (BIJ0262-DUP1)		**Source: MIJ0045-01**			Prepared: 10/11/2023 Analyzed: 10/12/2023						
pH	9.8800			pH Units		9.9700			0.907	20	

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WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Quarterly Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Troy Gansluckner	10/27/2023 08:48

Qualifiers and Definitions

M_B-07	Blank results are above method defined criterion but below reporting limit
Z	Non Accredited Analyte
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LOD	Limit of Detection
LOQ	Limit of Quantitation
	Results from solid samples were not adjusted for moisture content.
	When samples are diluted, the LOD and LOQ are adjusted by the dilution factor.

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Xcel Energy®

Nº 284366

Chain of Custody

Amarillo Testing Laboratory
7201 N. Lakeside Road, Amarillo, TX 79108
Phone (806) 381-6461 – Fax (806) 381-6468

Denver Testing Laboratory
9500 Interstate 76, Henderson, CO 80640
Phone (303) 628-2606 – Fax (303) 628-2926

Minneapolis Testing Laboratory
1518 Chestnut Avenue North, Minneapolis, MN 55403
Phone (612) 630-4506 – Fax (612) 630-4367

Facility/Project/Location: French Island
Project Manager/Requestor: Jessica Ahren
Phone #/E-mail Address: 608.793.0084
Sampled By (print/signature): Jahren
Copies of Report to: Troy Ganshuckner
LSR #:

**LIMS ID	Sample ID/Location	Date	Time	Safety Related (Nuclear)	Matrix	Preservative	# of Containers	Volume/Amount	Analyses: Anions:	Wet Chem.:	Metals: TCLP metals	PCBs	Oil Testing: (Comp)	DGA Furans (circle selection(s))	Fuels:	Asbestos:					** Sample Temperature ° C	** Sample pH
	Fly Ash Sample-3023	9/25/23	0900		S		1	gal			X											

Relinquished by:	Date/Time	Received by:	Date/Time
Jahren	9/25/23		10/6/23
Relinquished by:	Date/Time	Received by: Lab: HSD	Date/Time 10/9/23 @ 0600
Relinquished by:	Date/Time	Received by:	Date/Time

Comments: USPS

Temp: Ambient

Distribution: White: Return Original (electronic or hard copy) to Project Manager with Analytical Results; **Canary:** Laboratory; **Pink**: Generator's Copy
Matrix: **(W)** Water **(S** Solid **(SL)** Sludge **(O)** Other (Specify) **Preservative**: **(I)** Ice **(N)** Nitric Acid **(S)** Sulfuric Acid **(H)** Hydrochloric Acid **(D)** Sodium Hydroxide **(X)** Other (Specify)
(F)filtered **(F15)** filtered within 15 minutes (O-PO4)
Note: ** - indicates lab use only

Form 17-9084 Revision 01/29/14

Minneapolis Testing Laboratory
1518 Chestnut Ave N
Minneapolis, MN 55043
Certification #MN-027-053-197
WI-999071150
Christine Keefe, Manager (612) 630-4506

23 February 2024

Brad Giese

Environmental Services-Waste Wisconsin

1414 West Hamilton Ave

Eau Claire, WI 54701

cc:

RE: French Island Annual Ash

Enclosed are the results of analyses for samples received by the laboratory on 01/02/2024 06:15. If you have any questions concerning this report, please feel free to contact me.

I certify that this analysis report was prepared under my direction or supervision under a system designed to assure that qualified personnel analyzed the submitted samples. All protocols for analysis were followed as required by Minnesota Rules and the Applicable Management Plan.

Sincerely,

Steve Davis

System Chemist

Minneapolis Testing Laboratory
1518 Chestnut Ave N
Minneapolis, MN 55043
Certification # MN-027-053-197
WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Annual Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sample Qualifier	Laboratory ID	Matrix	Sampled	Received
Annual Ash		MJA0002-01	Solid	12/19/2023 0:00	01/02/2024 6:15

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Minneapolis, MN 55043
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WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Annual Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

SUBCONTRACTED ANALYSES

The following analyses were subcontracted to Amarillo Testing Lab. Please see attached for results.

Lab Number	Analysis
MJA0002-01	Chlorine in Coal and Ash
MJA0002-01	Fluorine in Coal and Ash

The following analyses were subcontracted to Pace Analytical. Please see attached for results.

Lab Number	Analysis
MJA0002-01	SM 5310-B

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WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Annual Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

Annual Ash

MJA0002-01 (Solid) - Chain of Custody Number: 302455

Analyte	Result	LOD	LOQ	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Total Metals by ICPMS											
Silver	7.21	0.0222	0.0742	mg/kg		2	BJA0449	1/29/24 9:10	2/5/24 8:09	EPA 6020B	CRL
Arsenic	25.7	0.298	0.995	mg/kg		2	BJA0449	1/29/24 9:10	2/5/24 8:09	EPA 6020B	CRL
Barium	680	0.687	2.29	mg/kg		2	BJA0449	1/29/24 9:10	2/5/24 8:09	EPA 6020B	CRL
Cadmium	9.61	0.278	0.928	mg/kg		2	BJA0449	1/29/24 9:10	2/5/24 8:09	EPA 6020B	CRL
Chromium	127	0.575	1.92	mg/kg		2	BJA0449	1/29/24 9:10	2/5/24 8:09	EPA 6020B	CRL
Lead	474	0.651	2.17	mg/kg		2	BJA0449	1/29/24 9:10	2/5/24 8:09	EPA 6020B	CRL
Antimony	33.3	0.127	0.424	mg/kg		2	BJA0449	1/29/24 9:10	2/5/24 8:09	EPA 6020B	CRL
Selenium	< 0.382	0.382	1.27	mg/kg		2	BJA0449	1/29/24 9:10	2/5/24 8:09	EPA 6020B	CRL
Total Metals by ICP											
Aluminum	59500	326	1090	mg/kg		3.9	BJA0448	1/29/24 9:02	2/5/24 18:15	EPA 6010D	HRD
Boron	236	60.5	202	mg/kg		3.9	BJA0448	1/29/24 9:02	2/5/24 18:15	EPA 6010D	HRD
Calcium	117000	3110	10400	mg/kg		3.9	BJA0448	1/29/24 9:02	2/5/24 18:13	EPA 6010D	HRD
Iron	18700	45.0	150	mg/kg		3.9	BJA0448	1/29/24 9:02	2/5/24 18:15	EPA 6010D	HRD
Potassium	11100	209	698	mg/kg		0.2	BJA0448	1/29/24 9:02	2/5/24 18:23	EPA 6010D	HRD
Magnesium	14000	197	655	mg/kg		0.2	BJA0448	1/29/24 9:02	2/5/24 18:23	EPA 6010D	HRD
Sodium	19000	147	491	mg/kg		0.2	BJA0448	1/29/24 9:02	2/5/24 18:23	EPA 6010D	HRD
Zinc	1780	44.0	147	mg/kg		3.9	BJA0448	1/29/24 9:02	2/5/24 18:15	EPA 6010D	HRD
TCLP Metals											
Mercury	0.0712	0.0360	0.120	ug/L		1	BJA0120	1/9/24 9:29	1/9/24 14:48	EPA 245.1/7470A	HRD
TCLP Metals by ICPMS											
Silver	< 0.195	0.195	0.650	ug/L		50	BJA0117	1/9/24 9:02	1/11/24 7:59	EPA 6020B	CRL
Arsenic	< 7.40	7.40	24.7	ug/L		50	BJA0117	1/9/24 9:02	1/11/24 7:59	EPA 6020B	CRL
Barium	1030	5.08	16.9	ug/L		50	BJA0117	1/9/24 9:02	1/11/24 7:59	EPA 6020B	CRL
Cadmium	< 3.11	3.11	10.4	ug/L		50	BJA0117	1/9/24 9:02	1/11/24 7:59	EPA 6020B	CRL
Chromium	< 20.5	20.5	68.3	ug/L		50	BJA0117	1/9/24 9:02	1/11/24 7:59	EPA 6020B	CRL
Lead	< 2.62	2.62	8.72	ug/L		50	BJA0117	1/9/24 9:02	1/11/24 7:59	EPA 6020B	CRL
Selenium	< 13.9	13.9	46.2	ug/L		50	BJA0117	1/9/24 9:02	1/11/24 7:59	EPA 6020B	CRL

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Minneapolis Testing Laboratory
1518 Chestnut Ave N
Minneapolis, MN 55043
Certification # MN-027-053-197
WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Annual Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

Annual Ash

MJA0002-01 (Solid) - Chain of Custody Number: 302455

Analyte	Result	LOD	LOQ	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Fuel Analysis											
Mercury	0.846	0.00897	0.0299	mg/kg		1	BJB0374	2/20/24 9:00	2/21/24 0:52	EPA 7473	JRL
TCLP Leachate pH											
pH	9.99			pH Units		1	BJA0102	1/8/24 10:57	1/9/24 8:56	SM 4500-H+ B	CRL

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Environmental Services-Waste Wisconsin	Project Name/Location: French Island Annual Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

Total Metals by ICPMS - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BJA0449 - EPA 3051A											
Blank (BJA0449-BLK1)					Prepared: 01/29/2024 Analyzed: 02/05/2024						
Cadmium	<0.0100	0.0100	0.033333	mg/kg							
Lead	<0.663	0.663	2.2096	mg/kg							
Selenium	<0.0500	0.0500	0.16667	mg/kg							
Antimony	<0.129	0.129	0.43106	mg/kg							
Barium	<0.699	0.699	2.3289	mg/kg							
Chromium	<0.585	0.585	1.9514	mg/kg							
Arsenic	<0.0464	0.0464	0.15467	mg/kg							
Silver	<0.0226	0.0226	0.075456	mg/kg							
LCS (BJA0449-BS1)					Prepared: 01/29/2024 Analyzed: 02/05/2024						
Arsenic	96.546	0.0464	0.15467	mg/kg	100.00		96.5	80-120			
Chromium	102.53	0.585	1.9514	mg/kg	100.00		103	80-120			
Selenium	97.885	0.0500	0.16667	mg/kg	100.00		97.9	80-120			
Silver	9.4953	0.0226	0.075456	mg/kg	10.000		95.0	80-120			
Lead	94.194	0.663	2.2096	mg/kg	100.00		94.2	80-120			
Antimony	99.229	0.129	0.43106	mg/kg	100.00		99.2	80-120			
Cadmium	97.935	0.0100	0.033333	mg/kg	100.00		97.9	80-120			
Barium	92.116	0.699	2.3289	mg/kg	100.00		92.1	80-120			
Duplicate (BJA0449-DUP1)		**Source: MJA0067-01**			Prepared: 01/29/2024 Analyzed: 02/05/2024						
Chromium	66.090	0.578	1.9279	mg/kg		64.737			2.07	35	
Antimony	38.065	0.128	0.42587	mg/kg		24.671			42.7	35	M_D
Cadmium	17.688	0.00988	0.032931	mg/kg		16.933			4.36	35	
Barium	2462.8	0.690	2.3008	mg/kg		2510.4			1.91	35	
Lead	929.98	0.655	2.1830	mg/kg		728.21			24.3	35	
Selenium	<0.0494	0.0494	0.16466	mg/kg		<0.0494				35	
Silver	7.9294	0.0224	0.074546	mg/kg		8.2797			4.32	35	
Arsenic	22.061	0.0458	0.15280	mg/kg		20.524			7.22	35	

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1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

Total Metals by ICPMS - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BJA0449 - EPA 3051A											
Duplicate (BJA0449-DUP2)		**Source: MJA0070-01**			Prepared: 01/29/2024 Analyzed: 02/05/2024						
Lead	1166.6	0.629	2.0964	mg/kg		676.12			53.2	35	M_D
Barium	682.93	0.663	2.2096	mg/kg		689.71			0.988	35	
Arsenic	24.612	0.0440	0.14674	mg/kg		24.187			1.74	35	
Antimony	77.723	0.123	0.40898	mg/kg		43.922			55.6	35	M_D
Chromium	67.986	0.555	1.8514	mg/kg		90.389			28.3	35	
Silver	2.6996	0.0215	0.071590	mg/kg		2.9501			8.87	35	
Selenium	<0.0474	0.0474	0.15813	mg/kg		<0.0474				35	
Cadmium	22.357	0.00949	0.031625	mg/kg		18.950			16.5	35	
Matrix Spike (BJA0449-MS1)		**Source: MJA0067-01**			Prepared: 01/29/2024 Analyzed: 02/05/2024						
Cadmium	112.65	0.00996	0.033194	mg/kg	99.582	16.933	96.1	75-125			
Silver	15.066	0.0225	0.075140	mg/kg	9.9582	8.2797	68.1	75-125			M_MS
Barium	2618.2	0.696	2.3192	mg/kg	99.582	2510.4	108	75-125			
Arsenic	118.01	0.0462	0.15402	mg/kg	99.582	20.524	97.9	75-125			
Chromium	168.30	0.583	1.9432	mg/kg	99.582	64.737	104	75-125			
Lead	774.87	0.660	2.2004	mg/kg	99.582	728.21	46.8	75-125			M_MS
Selenium	96.082	0.0498	0.16597	mg/kg	99.582	<0.0498	96.5	75-125			
Antimony	57.820	0.129	0.42926	mg/kg	99.582	24.671	33.3	75-125			M_MS
Matrix Spike (BJA0449-MS2)		**Source: MJA0070-01**			Prepared: 01/29/2024 Analyzed: 02/05/2024						
Silver	12.158	0.0221	0.073731	mg/kg	9.7714	2.9501	94.2	75-125			
Arsenic	123.89	0.0453	0.15113	mg/kg	97.714	24.187	102	75-125			
Selenium	95.879	0.0489	0.16285	mg/kg	97.714	<0.0489	98.1	75-125			
Antimony	157.57	0.126	0.42121	mg/kg	97.714	43.922	116	75-125			
Chromium	171.83	0.572	1.9068	mg/kg	97.714	90.389	83.3	75-125			
Barium	767.65	0.683	2.2757	mg/kg	97.714	689.71	79.8	75-125			
Cadmium	115.58	0.00977	0.032571	mg/kg	97.714	18.950	98.9	75-125			
Lead	874.88	0.648	2.1591	mg/kg	97.714	676.12	203	75-125			M_MS

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Environmental Services-Waste Wisconsin	Project Name/Location: French Island Annual Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

Total Metals by ICPMS - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BJA0449 - EPA 3051A											
Matrix Spike Dup (BJA0449-MSD1)		**Source: MJA0067-01**			Prepared: 01/29/2024 Analyzed: 02/05/2024						
Silver	13.851	0.0210	0.069841	mg/kg	9.2558	8.2797	60.2	75-125	8.40	35	M_MS
Selenium	89.753	0.0463	0.15426	mg/kg	92.558	<0.0463	97.0	75-125	6.81	35	
Cadmium	106.64	0.00926	0.030852	mg/kg	92.558	16.933	96.9	75-125	5.48	35	
Barium	2528.8	0.647	2.1556	mg/kg	92.558	2510.4	19.9	75-125	3.47	35	M_MS
Chromium	163.92	0.542	1.8062	mg/kg	92.558	64.737	107	75-125	2.64	35	
Lead	881.58	0.614	2.0452	mg/kg	92.558	728.21	166	75-125	12.9	35	M_MS
Arsenic	113.26	0.0429	0.14316	mg/kg	92.558	20.524	100	75-125	4.12	35	
Antimony	107.56	0.120	0.39898	mg/kg	92.558	24.671	89.5	75-125	60.1	35	M_MS
Matrix Spike Dup (BJA0449-MSD2)		**Source: MJA0070-01**			Prepared: 01/29/2024 Analyzed: 02/05/2024						
Arsenic	117.30	0.0422	0.14081	mg/kg	91.042	24.187	102	75-125	5.47	35	
Barium	801.06	0.636	2.1203	mg/kg	91.042	689.71	122	75-125	4.26	35	
Silver	13.098	0.0206	0.068696	mg/kg	9.1042	2.9501	111	75-125	7.44	35	
Lead	760.14	0.604	2.0117	mg/kg	91.042	676.12	92.3	75-125	14.0	35	
Cadmium	109.25	0.00910	0.030347	mg/kg	91.042	18.950	99.2	75-125	5.64	35	
Chromium	164.54	0.533	1.7766	mg/kg	91.042	90.389	81.4	75-125	4.33	35	
Antimony	182.19	0.118	0.39245	mg/kg	91.042	43.922	152	75-125	14.5	35	M_MS
Selenium	87.871	0.0455	0.15173	mg/kg	91.042	<0.0455	96.5	75-125	8.72	35	
Reference (BJA0449-SRM1)					Prepared: 01/29/2024 Analyzed: 02/05/2024						
Arsenic	244.60	0.0454	0.15137	mg/kg	248.00		98.6	59.8-111			
Silver	9.6320	0.0222	0.073846	mg/kg	25.700		37.5	60.1-118			
Barium	418.49	0.684	2.2792	mg/kg	409.00		102	65.3-110			
Antimony	100.20	0.127	0.42187	mg/kg	116.00		86.4	10-125			
Selenium	101.39	0.0489	0.16311	mg/kg	103.00		98.4	54.9-113			
Lead	79.329	0.649	2.1625	mg/kg	84.200		94.2	59.2-112			
Chromium	46.380	0.573	1.9098	mg/kg	53.800		86.2	62.3-116			
Cadmium	163.11	0.00979	0.032622	mg/kg	164.00		99.5	65.8-110			

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1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

Total Metals by ICP - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BJA0448 - EPA 3051A											
Blank (BJA0448-BLK1)					Prepared: 01/29/2024 Analyzed: 02/05/2024						
Potassium	<213	213	709.99	mg/kg							
Zinc	<2.24	2.24	7.4666	mg/kg							
Aluminum	<16.6	16.6	55.333	mg/kg							
Boron	<11.9	11.9	39.666	mg/kg							
Magnesium	<200	200	666.66	mg/kg							
Iron	<2.29	2.29	7.6333	mg/kg							
Calcium	<158	158	526.66	mg/kg							M_B-07
Sodium	<150	150	500.00	mg/kg							M_B-07
LCS (BJA0448-BS1)					Prepared: 01/29/2024 Analyzed: 02/05/2024						
Potassium	<213	213	709.99	mg/kg	10000		101	80-120			
Boron	97.486	11.9	39.666	mg/kg	100.00		97.5	80-120			
Aluminum	99.694	16.6	55.333	mg/kg	100.00		99.7	80-120			
Magnesium	9683.6	200	666.66	mg/kg	10000		96.8	80-120			
Iron	<2.29	2.29	7.6333	mg/kg	100.00		100	80-120			
Sodium	<150	150	500.00	mg/kg	10000		101	80-120			
Calcium	9956.1	158	526.66	mg/kg	10000		99.6	80-120			
Zinc	<2.24	2.24	7.4666	mg/kg	100.00		100	80-120			
Duplicate (BJA0448-DUP1)			**Source: MJA0067-01**		Prepared: 01/29/2024 Analyzed: 02/05/2024						
Boron	284.32	235	783.76	mg/kg		285.76			0.504	20	
Aluminum	39931	328	1093.3	mg/kg		38665			3.22	20	
Zinc	<44.3	44.3	147.53	mg/kg		<44.3			10.6	20	
Sodium	<2960	2960	9879.4	mg/kg		<2960			2.65	20	
Magnesium	<3950	3950	13173	mg/kg		<3950			0.460	20	
Calcium	<3120	3120	10406	mg/kg		<3120			2.09	20	
Iron	<45.2	45.2	150.83	mg/kg		<45.2			4.64	20	
Potassium	8809.8	4210	14029	mg/kg		8016.3				20	

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1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

Total Metals by ICP - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BJA0448 - EPA 3051A											
Duplicate (BJA0448-DUP2)		**Source: MJA0070-01**			Prepared: 01/29/2024 Analyzed: 02/05/2024						
Aluminum	<315	315	1050.0	mg/kg		<315			10.3	20	
Boron	<226	226	752.68	mg/kg		<226				20	
Calcium	<3000	3000	9993.6	mg/kg		<3000			5.68	20	
Iron	<43.5	43.5	144.84	mg/kg		<43.5			6.78	20	
Potassium	7715.5	4040	13472	mg/kg		7116.9				20	
Magnesium	9626.4	3800	12650	mg/kg		9250.0			3.99	20	
Zinc	<42.5	42.5	141.68	mg/kg		<42.5			2.41	20	
Sodium	<2850	2850	9487.6	mg/kg		<2850			4.90	20	
Matrix Spike (BJA0448-MS1)		**Source: MJA0067-01**			Prepared: 01/29/2024 Analyzed: 02/05/2024						
Aluminum	39110	331	1102.0	mg/kg	99.582	38665	447	75-125			M_MS
Zinc	<44.6	44.6	148.71	mg/kg	99.582	<44.6	554	75-125			M_MS
Magnesium	<3980	3980	13277	mg/kg	9958.2	<3980	94.0	75-125			
Boron	368.84	237	790.01	mg/kg	99.582	285.76	83.4	75-125			
Potassium	<4240	4240	14140	mg/kg	9958.2	8016.3	96.4	75-125			
Calcium	<3150	3150	10489	mg/kg	9958.2	<3150	113	75-125			
Sodium	<2990	2990	9958.1	mg/kg	9958.2	<2990	99.0	75-125			
Iron	<45.6	45.6	152.03	mg/kg	99.582	<45.6	393	75-125			M_MS
Matrix Spike (BJA0448-MS2)		**Source: MJA0070-01**			Prepared: 01/29/2024 Analyzed: 02/05/2024						
Aluminum	32629	324	1081.4	mg/kg	97.714	<324	NR	75-125			M_MS
Boron	295.39	233	775.19	mg/kg	97.714	<233	302	75-125			
Calcium	<3090	3090	10292	mg/kg	9771.4	<3090	185	75-125			M_MS
Sodium	<2930	2930	9771.3	mg/kg	9771.4	<2930	114	75-125			
Magnesium	<3910	3910	13028	mg/kg	9771.4	9250.0	105	75-125			
Zinc	<43.8	43.8	145.92	mg/kg	97.714	<43.8	61.9	75-125			M_MS
Iron	<44.8	44.8	149.17	mg/kg	97.714	<44.8	NR	75-125			M_MS
Potassium	<4160	4160	13875	mg/kg	9771.4	7116.9	109	75-125			

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Total Metals by ICP - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BJA0448 - EPA 3051A											
Matrix Spike Dup (BJA0448-MSD1)		**Source: MJA0067-01**			Prepared: 01/29/2024 Analyzed: 02/05/2024						
Iron	<42.4	42.4	141.30	mg/kg	92.558	<42.4	NR	75-125	3.10	20	M_MS
Zinc	<41.5	41.5	138.22	mg/kg	92.558	<41.5	31.8	75-125	18.9	20	M_MS
Sodium	28158	2780	9255.7	mg/kg	9255.8	<2780	115	75-125	2.78	20	
Potassium	<3940	3940	13143	mg/kg	9255.8	8016.3	109	75-125		20	
Boron	360.33	220	734.29	mg/kg	92.558	285.76	80.6	75-125	2.33	20	
Calcium	<2920	2920	9749.4	mg/kg	9255.8	<2920	185	75-125	4.81	20	M_MS
Magnesium	<3700	3700	12341	mg/kg	9255.8	<3700	93.9	75-125	2.83	20	
Aluminum	40975	307	1024.3	mg/kg	92.558	38665	NR	75-125	4.66	20	M_MS
Matrix Spike Dup (BJA0448-MSD2)		**Source: MJA0070-01**			Prepared: 01/29/2024 Analyzed: 02/05/2024						
Aluminum	<302	302	1007.5	mg/kg	91.042	<302	NR	75-125	22.4	20	M_MS
Boron	306.86	217	722.26	mg/kg	91.042	<217	337	75-125	3.81	20	
Calcium	<2880	2880	9589.6	mg/kg	9104.2	<2880	91.7	75-125	7.33	20	
Magnesium	<3640	3640	12139	mg/kg	9104.2	9250.0	104	75-125	4.29	20	
Zinc	<40.8	40.8	135.95	mg/kg	91.042	<40.8	NR	75-125	33.2	20	M_MS
Sodium	<2730	2730	9104.1	mg/kg	9104.2	<2730	101	75-125	8.11	20	
Iron	<41.7	41.7	138.99	mg/kg	91.042	<41.7	NR	75-125	1.16	20	M_MS
Potassium	<3880	3880	12928	mg/kg	9104.2	7116.9	96.3	75-125		20	
Reference (BJA0448-SRM1)					Prepared: 01/29/2024 Analyzed: 02/05/2024						
Magnesium	9925.0	196	652.44	mg/kg	9800.0		101	65.9-110			
Potassium	5599.0	208	694.85	mg/kg	6020.0		93.0	63.3-121			
Calcium	<155	155	515.43	mg/kg	12200		100	69-113			
Iron	<22.4	22.4	74.704	mg/kg	15800		66.1	35.1-147			
Aluminum	7862.6	162	541.52	mg/kg	11100		70.8	57.2-159			
Sodium	<147	147	489.33	mg/kg	11600		101	60.3-116			
Zinc	<2.19	2.19	7.3073	mg/kg	109.00		101	61.2-114			
Boron	137.86	11.6	38.820	mg/kg	124.00		111	49.7-116			

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Environmental Services-Waste Wisconsin	Project Name/Location: French Island Annual Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

TCLP Metals - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BJA0120 - EPA 245.1, EPA 7470A											
Blank (BJA0120-BLK1)					Prepared & Analyzed: 01/09/2024						
Mercury	0.037200	0.0360	0.12000	ug/L							M_B-07
LCS (BJA0120-BS1)					Prepared & Analyzed: 01/09/2024						
Mercury	5.6614	0.0360	0.12000	ug/L	6.0000		94.4	85-115			
Duplicate (BJA0120-DUP1)		**Source: MIL0146-01**			Prepared & Analyzed: 01/09/2024						
Mercury	<0.0360	0.0360	0.12000	ug/L		<0.0360				20	
Matrix Spike (BJA0120-MS1)		**Source: MIL0146-01**			Prepared & Analyzed: 01/09/2024						
Mercury	5.3322	0.0360	0.12000	ug/L	6.0000	<0.0360	88.9	70-130			
Matrix Spike Dup (BJA0120-MSD1)		**Source: MIL0146-01**			Prepared & Analyzed: 01/09/2024						
Mercury	5.3316	0.0360	0.12000	ug/L	6.0000	<0.0360	88.9	70-130	0.0113	20	

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Minneapolis Testing Laboratory
1518 Chestnut Ave N
Minneapolis, MN 55043
Certification # MN-027-053-197
WI-999071150
Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Annual Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

TCLP Metals by ICPMS - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BJA0117 - EPA 200.2, EPA 3005											
Blank (BJA0117-BLK1)					Prepared: 01/09/2024 Analyzed: 01/11/2024						
Lead	<2.62	2.62	8.7206	ug/L							
Selenium	<13.9	13.9	46.219	ug/L							
Chromium	<20.5	20.5	68.329	ug/L							
Cadmium	<3.11	3.11	10.362	ug/L							
Barium	5.7555	5.08	16.926	ug/L							
Arsenic	<7.40	7.40	24.658	ug/L							
Silver	<0.195	0.195	0.64966	ug/L							
LCS (BJA0117-BS1)					Prepared: 01/09/2024 Analyzed: 01/11/2024						
Barium	<5.08	5.08	16.926	ug/L	1000.0		107	80-120			
Chromium	<20.5	20.5	68.329	ug/L	1000.0		103	80-120			
Arsenic	<7.40	7.40	24.658	ug/L	1000.0		108	80-120			
Lead	990.16	2.62	8.7206	ug/L	1000.0		99.0	80-120			
Cadmium	<3.11	3.11	10.362	ug/L	1000.0		102	80-120			
Selenium	<13.9	13.9	46.219	ug/L	1000.0		106	80-120			
Silver	101.43	0.195	0.64966	ug/L	100.00		101	80-120			
Duplicate (BJA0117-DUP1)		**Source: MIL0146-01**			Prepared: 01/09/2024 Analyzed: 01/11/2024						
Arsenic	<7.40	7.40	24.658	ug/L		<7.40				20	
Cadmium	<3.11	3.11	10.362	ug/L		<3.11				20	
Silver	<0.195	0.195	0.64966	ug/L		<0.195				20	
Chromium	<20.5	20.5	68.329	ug/L		<20.5				20	
Barium	597.63	5.08	16.926	ug/L		603.33			0.949	20	
Selenium	<13.9	13.9	46.219	ug/L		<13.9				20	
Lead	<2.62	2.62	8.7206	ug/L		<2.62				20	
Matrix Spike (BJA0117-MS1)		**Source: MIL0146-01**			Prepared: 01/09/2024 Analyzed: 01/11/2024						
Cadmium	<3.11	3.11	10.362	ug/L	1000.0	<3.11	106	75-125			
Lead	<2.62	2.62	8.7206	ug/L	1000.0	<2.62	100	75-125			
Barium	<5.08	5.08	16.926	ug/L	1000.0	603.33	108	75-125			
Silver	100.98	0.195	0.64966	ug/L	100.00	<0.195	101	75-125			
Chromium	<20.5	20.5	68.329	ug/L	1000.0	<20.5	102	75-125			
Selenium	<13.9	13.9	46.219	ug/L	1000.0	<13.9	105	75-125			
Arsenic	<7.40	7.40	24.658	ug/L	1000.0	<7.40	109	75-125			

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Environmental Services-Waste Wisconsin	Project Name/Location: French Island Annual Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

TCLP Metals by ICPMS - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BJA0117 - EPA 200.2, EPA 3005											
Matrix Spike Dup (BJA0117-MSD1)		**Source: MIL0146-01**			Prepared: 01/09/2024 Analyzed: 01/11/2024						
Arsenic	<7.40	7.40	24.658	ug/L	1000.0	<7.40	107	75-125	1.41	20	
Selenium	<13.9	13.9	46.219	ug/L	1000.0	<13.9	107	75-125	1.89	20	
Barium	<5.08	5.08	16.926	ug/L	1000.0	603.33	107	75-125	0.626	20	
Silver	102.69	0.195	0.64966	ug/L	100.00	<0.195	103	75-125	1.68	20	
Chromium	<20.5	20.5	68.329	ug/L	1000.0	<20.5	105	75-125	3.52	20	
Lead	<2.62	2.62	8.7206	ug/L	1000.0	<2.62	100	75-125	0.102	20	
Cadmium	<3.11	3.11	10.362	ug/L	1000.0	<3.11	109	75-125	2.24	20	

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Environmental Services-Waste Wisconsin	Project Name/Location: French Island Annual Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

Fuel Analysis - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BJB0374 - Fuel Prep											
Duplicate (BJB0374-DUP1)		**Source: MJB0146-01**			Prepared & Analyzed: 02/20/2024						
Mercury	0.038072		0.029900	mg/kg		0.040398			5.93	20	
Duplicate (BJB0374-DUP2)		**Source: MJA0066-03**			Prepared & Analyzed: 02/20/2024						
Mercury	0.086727		0.029900	mg/kg		0.067575			24.8	20	M_D
Duplicate (BJB0374-DUP3)		**Source: MJA0065-01**			Prepared: 02/20/2024 Analyzed: 02/21/2024						
Mercury	0.86181		0.029900	mg/kg		0.84153			2.38	20	
Duplicate (BJB0374-DUP4)		**Source: MJA0070-01**			Prepared: 02/20/2024 Analyzed: 02/21/2024						
Mercury	1.0367		0.029900	mg/kg		1.0669			2.87	20	
Matrix Spike (BJB0374-MS1)		**Source: MJB0146-01**			Prepared & Analyzed: 02/20/2024						
Mercury	49.550		0.060696	ppb	29.378	19.900	101	80-120			
Matrix Spike (BJB0374-MS2)		**Source: MJA0066-03**			Prepared & Analyzed: 02/20/2024						
Mercury	56.554		0.060212	ppb	28.355	33.556	81.1	80-120			
Matrix Spike (BJB0374-MS3)		**Source: MJA0065-01**			Prepared: 02/20/2024 Analyzed: 02/21/2024						
Mercury	1905.6		0.046443	ppb	1310.9	541.77	104	80-120			
Matrix Spike (BJB0374-MS4)		**Source: MJA0070-01**			Prepared: 02/20/2024 Analyzed: 02/21/2024						
Mercury	1792.0		0.043333	ppb	1140.8	736.14	92.6	80-120			
Matrix Spike Dup (BJB0374-MSD1)		**Source: MJB0146-01**			Prepared & Analyzed: 02/20/2024						
Mercury	46.299		0.060459	ppb	29.266	19.979	89.9	80-120	6.78	20	
Matrix Spike Dup (BJB0374-MSD2)		**Source: MJA0066-03**			Prepared & Analyzed: 02/20/2024						
Mercury	65.173		0.061050	ppb	28.244	33.095	114	80-120	14.2	20	

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Environmental Services-Waste Wisconsin	Project Name/Location: French Island Annual Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

Fuel Analysis - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BJB0374 - Fuel Prep											
Matrix Spike Dup (BJB0374-MSD3)		**Source: MJA0065-01**			Prepared: 02/20/2024 Analyzed: 02/21/2024						
Mercury	1771.7		0.044594	ppb	1231.3	564.24	98.1	80-120	7.28	20	
Matrix Spike Dup (BJB0374-MSD4)		**Source: MJA0070-01**			Prepared: 02/20/2024 Analyzed: 02/21/2024						
Mercury	1877.9		0.046475	ppb	1312.4	686.38	90.8	80-120	4.68	20	

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Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Annual Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

TCLP Leachate pH - Quality Control

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BJA0102 - Wet Prep											
Blank (BJA0102-BLK1)					Prepared: 01/08/2024 Analyzed: 01/09/2024						
pH	4.8900			pH Units							
LCS (BJA0102-BS1)					Prepared: 01/08/2024 Analyzed: 01/09/2024						
pH	3.9800			pH Units	7.0000		56.9	90-110			
LCS (BJA0102-BS2)					Prepared: 01/08/2024 Analyzed: 01/09/2024						
pH	4.0000			pH Units	7.0000		57.1	90-110			
Duplicate (BJA0102-DUP1)		**Source: MIL0146-01**			Prepared: 01/08/2024 Analyzed: 01/09/2024						
pH	5.8700			pH Units		5.9500			1.35	20	

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Christine Keefe, Manager (612) 630-4506

Environmental Services-Waste Wisconsin	Project Name/Location: French Island Annual Ash	
1414 West Hamilton Ave		**Reported:**
Eau Claire WI, 54701	Project Manager: Brad Giese	02/23/2024 07:19

Qualifiers and Definitions

M_MS	The percent recovery and/or RPD were outside the acceptance limits for the MS/MSD due to possible matrix interference and/or non-homogeneous sample matrix.
M_D	The RPD for the sample duplicate was outside of QC acceptance limits possibly due to non-homogeneous matrix.
M_B-07	Blank results are above method defined criterion but below reporting limit
Z	Non Accredited Analyte
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LOD	Limit of Detection
LOQ	Limit of Quantitation
	Results from solid samples were not adjusted for moisture content.
	When samples are diluted, the LOD and LOQ are adjusted by the dilution factor.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nº 302455

Xcel Energy

Amarillo Testing Laboratory
7201 N. Lakeside Road, Amarillo, TX 79108
Phone (806) 381-6461 – Fax (806) 381-6468

Chain of Custody

Denver Testing Laboratory
9500 Interstate 76, Henderson, CO 80640
Phone (303) 628-2606 – Fax (303) 628-2926

Minneapolis Testing Laboratory
1518 Chestnut Avenue North, Minneapolis, MN 55403
Phone (612) 630-4506 – Fax (612) 630-4367

Facility/Project/Location: French Island
Project Manager/Requestor: Jessica Ahrens
Phone #/E-mail Address: 608.793.0084
Sampled By (print/signature): Jahrens
Copies of Report to:
LSR #:

**LIMS ID	Sample ID/Location	Date	Time	Safety Related (Nuclear)	Matrix	Preservative	# of Containers	Volume/Amount	Analyses: Anions	Wet Chem.:	Metals: TCLP mtls	PCBs	Oil Testing: (Comp)	DGA Furans (circle selection(s)	Fuels:	Asbestos:	TCLP	TDL			** Sample Temperature ° C	** Sample pH
	French Island 4Q 2023 Ash Composite	12/19/23	Comp		S		1	gal			✓						✓	✓				

Relinquished by:	Date/Time	Received by:	Date/Time	Comments:
Jahrens	12/19/23	JRL	12-28-23	USPS
Relinquished by:	Date/Time	Received by: Lab: HSL	Date/Time 1/2/24 @ 0615	
Relinquished by:	Date/Time	Received by:	Date/Time	Temp: Ambient

Distribution: White: Return Original (electronic or hard copy) to Project Manager with Analytical Results; **Canary:** Laboratory; **Pink**: Generator's Copy
Matrix: **(W)** Water **(S** Solid **(SL)** Sludge **(O)** Other (Specify) **Preservative**: **(I)** Ice **(N)** Nitric Acid **(S)** Sulfuric Acid **(H)** Hydrochloric Acid **(D)** Sodium Hydroxide **(X)** Other (Specify)
(F)filtered **(F15)** filtered within 15 minutes (O-PO4)
Note: ** - indicates lab use only

Form 17-9084 Revision 01/29/14

Total Chlorine Total Fluorine
COC 302284
French Island Plant Annual Ash

Date Received 1/9/2024
Date Reported 2/1/2024

Sample ID	Date Sampled	Sample Type	DryBasis Chlorine mg/Kg	DryBasis Fluorine mg\Kg	AsReceived Chlorine mg/Kg	AsReceived Fluorine mg\Kg	% Total Moisture
MJA0002-01	12/19/2023	Ash	34874	119	30151	103	13.54

cc
Glen Green
Steve Davis 612.630.4205

Xcel Energy
System Lab Amarillo

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

January 10, 2024

Steve Davis
Xcel Energy, Inc.
1518 Chestnut Ave
Minneapolis, MN 55414

RE: Project: French Island Annual Ash
Pace Project No.: 10680367

Dear Steve Davis:

Enclosed are the analytical results for sample(s) received by the laboratory on January 03, 2024. 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 - Duluth, MN

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

Sincerely,

Fiona Parcher
fiona.parcher@pacelabs.com
(612)607-6435
Project Manager

Enclosures

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: French Island Annual Ash
Pace Project No.: 10680367

Pace Analytical Services, LLC - Duluth MN
4730 Oneota Street, Duluth, MN 55807
Minnesota Certification #: 027-137-152
Minnesota Dept of Ag Approval: via Minnesota 027-137-152
Minnesota Petrofund Registration #: 1240
Montana Certification #: CERT0102
Nevada Certification #: MN00037
North Dakota Certification #: R-105
Wisconsin Certification #: 999446800
Wisconsin Dept of Ag Certification: 480341

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: French Island Annual Ash
Pace Project No.: 10680367

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10680367001	**MJA0002-01**	Solid	12/19/23 00:00	01/03/24 13:07

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(612)607-1700

SAMPLE ANALYTE COUNT

Project: French Island Annual Ash
Pace Project No.: 10680367

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10680367001	**MJA0002-01**	EPA 9060A	DW3	4
		ASTM D 2974-13 (2013)	JA2	1

PASI-DU = Pace Analytical Services - Duluth, MN

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(612)607-1700

ANALYTICAL RESULTS

Project: French Island Annual Ash
Pace Project No.: 10680367

Sample: MJA0002-01 **Lab ID: 10680367001** Collected: 12/19/23 00:00 Received: 01/03/24 13:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9060 TOC, 2 Rep Solids DU	Analytical Method: EPA 9060A Pace Analytical Services - Duluth, MN							
RPD%	**1.8**	%		1		01/08/24 16:39		
Total Organic Carbon	**9690**	mg/kg	1920	1		01/08/24 16:31	7440-44-0	
Total Organic Carbon	**9510**	mg/kg	1940	1		01/08/24 16:39	7440-44-0	
Mean Total Organic Carbon	**9600**	mg/kg	1930	1		01/08/24 16:39	7440-44-0	
Dry Weight DU	Analytical Method: ASTM D 2974-13 (2013) Pace Analytical Services - Duluth, MN							
Percent Moisture	**12.8**	%	0.10	1		01/05/24 13:33		N2

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: French Island Annual Ash
Pace Project No.: 10680367

QC Batch: 926553
QC Batch Method: EPA 9060A
Analysis Method: EPA 9060A
Analysis Description: 9060 TOC Average DU
Laboratory: Pace Analytical Services - Duluth, MN
Associated Lab Samples: 10680367001

METHOD BLANK: 4864405 Matrix: Solid
Associated Lab Samples: 10680367001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/kg	ND	600	01/08/24 16:06	

LABORATORY CONTROL SAMPLE: 4864406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/kg	120000	119000	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4864407 4864408

Parameter	Units	10680367001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mean Total Organic Carbon	mg/kg	9600	19200	19200	29000	29200	101	102	75-125	1	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.

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: French Island Annual Ash
Pace Project No.: 10680367

QC Batch: 926340
QC Batch Method: ASTM D 2974-13 (2013)
Analysis Method: ASTM D 2974-13 (2013)
Analysis Description: Dry Weight DU
Laboratory: Pace Analytical Services - Duluth, MN

Associated Lab Samples: 10680367001

SAMPLE DUPLICATE: 4863606

Parameter	Units	10680404001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.2	9.2	0	30	N2

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.

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: French Island Annual Ash
Pace Project No.: 10680367

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: French Island Annual Ash
Pace Project No.: 10680367

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10680367001	**MJA0002-01**	EPA 9060A	926553		
10680367001	**MJA0002-01**	EPA 9060A	926690		
10680367001	**MJA0002-01**	ASTM D 2974-13 (2013)	926340		

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Xcel Energy®

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7201 N. Lakeside Road, Amarillo, TX 79108
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Chain of Custody

Denver Testing Laboratory
9500 Interstate 76, Henderson, CO 80640
Phone (303) 628-2606 – Fax (303) 628-2926

Minneapolis Testing Laboratory
1518 Chestnut Avenue North, Minneapolis, MN 55403
Phone (612) 630-4506 – Fax (612) 630-4367

Nº 302282

Facility/Project/Location: French Island Annual Ash
Project Manager/Requestor: Steve Davis
Phone #/E-mail Address: 612-630-4205
Sampled By (print/signature):
Copies of Report to:
~~LSR #:~~ PO # 4500856185

**LIMS ID	Sample ID/Location	Date	Time	Safety Related (Nuclear)	Matrix	Preservative	# of Containers	Volume/Amount	Analyses: Anions:	Wet Chem.:	Metals:	PCBs	Oil Testing: (Comp)	DGA Furans (circle selection(s))	Fuels:	Asbestos:	TOC	** Sample Temperature °C	** Sample pH
	MJA0002-01	12/19/23	0000	S			1										X		

01

WO#: 10680367

10680367

Relinquished by:	Date/Time	Received by:	Date/Time	Comments:
[signature]	1/3/24 1300	[signature] Pace	1/3/24 1307	Temp 2.9
Relinquished by:	Date/Time	Received by:	Date/Time	
Relinquished by:	Date/Time	Received by:	Date/Time	

Distribution: White: Return Original (electronic or hard copy) to Project Manager with Analytical Results; **Canary:** Laboratory; **Pink:** Generator's Copy
Matrix: (W) Water **(S** Solid **(SL)** Sludge **(O)** Other (Specify) **Preservative: (I)** Ice **(N)** Nitric Acid **(S)** Sulfuric Acid **(H)** Hydrochloric Acid **(D)** Sodium Hydroxide **(X)** Other (Specify)
(F15) filtered within 15 minutes (O-PO4)
**** - indicates lab use only**

Form 17-9084 Revision 01/29/14

Sample Condition Upon Receipt | **Client Name:** Xcel Energy | **Project #:** WO#: 10680367

PM: FEP Due Date: 01/17/24
CLIENT: XCEL

Courier: ☐ FedEx ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: _____ ☐ See Exceptions ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☑ No Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other Temp Blank? ☑ Yes ☐ No

Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☑ T7 (0042) ☐ T8 (0775) ☐ T9(0727) ☐ 01339252/1710

Type of Ice: ☑ Wet ☐ Blue ☐ Dry ☐ None ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☑ No Were All Container Temps Taken? ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6 °C Cooler temp Read w/Temp Blank: 2.7 °C

Correction Factor: -0.2 Cooler Temp Corrected w/temp blank: 2.5 °C

Average Corrected Temp (no temp blank only): _____ °C ☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: (☑ N/A, water sample/other: Ash) Date/Initials of Person Examining Contents: 1-3-24 ACG

Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): ☐ Duluth ☑ Minneapolis ☐ Virginia

				COMMENTS
Chain of Custody Present and Filled Out?	☑ Yes	☐ No		1.
Chain of Custody Relinquished?	☑ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☐ Yes	☐ No	☑ N/A	3.
Samples Arrived within Hold Time?	☑ Yes	☐ No		4. If fecal: ☐ <8 hrs ☐ >8 hr, <24 ☐ No
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E.coli ☐ BOD/cBOD ☐ Hex Chrom ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☐ Yes	☑ No		6.
Sufficient Sample Volume?	☑ Yes	☐ No		7.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	8.
-Pace Containers Used?	☐ Yes	☑ No		
Containers Intact?	☑ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☑ Yes	☐ No		11. **If no, write ID/Date/Time of container below:** ☐ See Exceptions ENV-FRM-MIN4-0142
Matrix: ☐ Water ☐ Soil ☐ Oil ☑ Other Ash				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐ Yes	☐ No	☑ N/A	☐ NaOH ☐ HNO3 ☐ H2SO4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	☐ Yes	☐ No	☑ N/A	Positive for Residual Chlorine? ☐ Yes ☐ No ☐ See Exceptions ENV-FRM-MIN4-0142
				pH Paper Lot #
				Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐ Yes	☐ No	☑ N/A	13.
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☑ N/A	14. ☐ See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☑ N/A	
3 Trip Blanks Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☒ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Fiona Pardue Date: 01/03/2024

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: ACG Line: 4

Intra-Regional Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 10680367 **Workorder Name:** French Island Annual Ash **Owner Received Date:** 1/3/2024 **Due Date:** 1/17/2024

Received at:	Send To Lab:
Pace Analytical Minnesota 1700 Elm Street Minneapolis, MN 55414 Phone (612)607-6435	Pace Analytical Duluth 4730 Oneota St. Duluth, MN 55807 Phone (218) 727-6380

Report To: Fiona Parcher

JGCU

Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: ASTM D 2974-13 (2013)	Requested Analysis: EPA 9060A	LAB USE ONLY
MJA0002-01	PS	12/19/2023 00:00	10680367001	Solid	1	X	X	

nsfers	Released By	Date/Time	Received By	Date/Time
	Brian Green/PACE	1/4/24 9:30	[signature] 1/4/24	1050
	[signature] 1/4/24	1555	Garrett Nygren/Pace 1/4/24	1555

Comments

pler Temperature on Receipt 0.5 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

*n order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
*This chain of custody is considered complete as is since this information is available in the owner laboratory.

Page 32 of 33 MJA0002 Xcel General Report WI FINAL 02 23 2024 0719
Page 12 of 13

Sample Condition Upon Receipt

Client Name: Pace MN

Project #: 10680367

Courier: ☐ FedEx ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: _____ ☐ See Exceptions ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other **Temp Blank?** ☑ Yes ☐ No

Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9(0727) ☑ 01339252/1710 **Type of Ice:** ☑ Wet ☐ Blue ☐ Dry ☐ None ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☑ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6 °C **Cooler temp Read w/Temp Blank:** 0.8 °C

Correction Factor: -0.3 **Cooler Temp Corrected w/temp blank:** 0.5 °C

Average Corrected Temp (no temp blank only): _____ °C ☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: ☑ N/A, water sample/other: _____ **Date/Initials of Person Examining Contents:** JMM 1/4/24

Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): ☑ Duluth ☐ Minneapolis ☐ Virginia				**COMMENTS**
Chain of Custody Present and Filled Out?	☑ Yes	☐ No		1.
Chain of Custody Relinquished?	☑ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☐ Yes	☐ No	☑ N/A	3.
Samples Arrived within Hold Time?	☑ Yes	☐ No		4. If fecal: ☐ <8 hrs ☐ >8 hr, <24 ☐ No
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E.coli ☐ BOD/cBOD ☐ Hex Chrom ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested?	☐ Yes	☑ No		6.
Sufficient Sample Volume?	☑ Yes	☐ No		7.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	8.
-Pace Containers Used?	☑ Yes	☐ No		
Containers Intact?	☑ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☑ Yes	☐ No		11. **If no, write ID/Date/Time of container below:** ☐ See Exceptions ENV-FRM-MIN4-0142
Matrix: ☐ Water ☑ Soil ☐ Oil ☐ Other				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐ Yes	☐ No	☑ N/A	☐ NaOH ☐ HNO3 ☐ H2SO4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	☐ Yes	☐ No	☑ N/A	Positive for Residual Chlorine? ☐ Yes ☐ No ☐ See Exceptions ENV-FRM-MIN4-0142 **pH Paper Lot #**
				Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐ Yes	☐ No	☑ N/A	13.
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☑ N/A	14. ☐ See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☑ N/A	
3 Trip Blanks Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☒ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kevin Pardue **Date:** 01/05/2024

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: _____ **Line:** _____

Attachment 2

Monthly / Annual Fuel and Generation Report

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FRENCH ISLAND MONTHLY FUEL AND GENERATION REPORT

2023 MO	Pounds Recd	Tons Recd	Tons Diverted	Pounds Rej (O&B)	Tons Rej	Load Rej	% Rej	Tons RG	Load RG	Tons AWP	Pounds FE	Tons FE	% FE	Pounds FE/MN	Tons FE/MN	% FE/MN	Pounds Non Fe	Tons Non FE	% Non FE	Pounds Res	Tons Res	% Res	Tons RDF	% Yield	Tons Wood	Blr Hrs	MWH Hrs	Tons Ash	Estimatec TIB	TIB 3 YRA
JAN	13,863,680	6931.80	-	379,840	189.90	16	2.7%	-		6,741.90		0.0	0.0%	386,160	193.10	2.9%	31,760	15.90	0.2%	3,149,980	1,575.0	23.4%	4,957.90	73.54%	5,486.3	961.55	7,298	1,007.43	508	9,211
FEB	12,040,340	6020.20	-	152,475	76.20	8	1.3%	-		5,944.00	0	0.0	0.0%	367,220	183.60	3.1%	58,300	29.20	0.5%	3,142,200	1,571.1	26.4%	4,160.10	69.99%	4,622.8	818.56	6,354	783.72	237	9,211
MAR	13,600,140	6800.10		209,340	104.70	10	1.5%	-		6,695.40	0	0.0	0.0%	396,360	198.20	3.0%	56,660	28.30	0.4%	4,375,320	2,187.7	32.7%	4,281.20	63.94%	4,585.2	991.42	5,938	961.80	(138)	9,211
APR	13,074,252	6537.10	-	176,860	88.40	8	1.4%	-		6,448.70	0	0.0	0.0%	398,440	199.20	3.1%	55,420	27.70	0.4%	3,431,000	1,715.5	26.6%	4,506.30	69.88%	4,920.4	866.44	6,630	1,064.58	250	9,211
MAY	15,823,200	7911.60		217,610	108.80	11	1.4%	-		7802.8	0	0.0	0.0%	514,940	257.47	3.3%	62,760	31.40	0.4%	3,483,760	1,741.9	22.3%	5,772.03	73.97%	4,753.1	965.15	7,371	1,134.13	622	9,211
JUN	15,098,820	7549.40		233,880	116.90	12	1.5%	-		7432.5	0	0.0	0.0%	458,660	229.30	3.1%	66,780	33.40	0.4%	3,961,240	1,980.6	26.6%	5,189.20	69.82%	4,557.0	956.76	7,268	1,204.58	284	9,211
JUL	14,512,840	7256.40		254,660	127.30	12	1.8%	-		7129.1	0	0.0	0.0%	402,660	201.30	2.8%	69,740	34.90	0.5%	2,896,100	1,448.1	20.3%	5,444.80	76.37%	4,473.5	910.08	6,763	1,079.85	740	9,211
AUG	15,066,580	7533.30		142,780	71.40	8	0.9%	-		7461.9	0	0.0	0.0%	458,180	229.10	3.1%	54,760	27.40	0.4%	4,694,420	2,347.2	31.5%	4,858.20	65.11%	5,001.7	981.53	6,958	1,057.87	(67)	9,211
SEP	14,700,200	7350.10		240,680	120.30	9	1.6%	-		7229.8	0	0.0	0.0%	378,120	189.10	2.6%	55,080	27.50	0.4%	3,536,440	1,768.2	24.5%	5,245.00	72.55%	3,903.1	865.81	6,184	953.57	473	9,211
OCT	15,458,520	7729.30	-	383,900	192.00		2.5%	-		7,537.30	0	0.0	0.0%	416,880	208.40	2.8%	64,720	32.40	0.4%	3,908,280	1,954.1	25.9%	5,342.40	70.88%	3,768.8	789.28	6,265	1,137.01	368	9,211
NOV	14,267,020	7133.50	-	227,560	113.80		1.6%	-		7019.7	0	0.0	0.0%	417,840	208.90	3.0%	64,540	32.30	0.5%	4,013,300	2,006.7	28.6%	4,771.80	67.98%	4,026.6	855.76	6,365	951.73	139	9,211
DEC	13,302,260	6651.10	-	315,740	157.90		2.4%	-		6493.2	0	0.0	0.0%	378,100	189.05	2.9%	48,760	24.40	0.4%	2,657,940	1,329.0	20.5%	4,950.75	76.25%	4,292.0	824.32	6,496	1,039.07	665	9,211
TOT	170,807,852	85403.90		2,935,325.00	1467.60	94	1.7%			83,936.30		-	0.0%		2486.72	3.0%		344.80	0.41%		21,625.10	25.8%	59,479.68	70.86%	54,390.74	10,786.7	79,890	12,375.34	4,082	-

KEY

Recd	Received
Rej	Rejected
AWP	Actual Waste Processed
Res	Residue
TIB	Tons in Bank
RG	Raw Garbage
O&B	Oversize & Bulky

Highest Tonnag 9/4/2018 492.96
5/28/2019 533.76

Maintenance Days

Year	Used	Earne	Bal
2010		1	3
2011	5/9-5/13		-2
2011		2	0
2012		1	1
2013		2	3
2014		0	3
2015		1	4
2016		1	5
2017	10/20/17	0	4
2018		0	4
2019		0	4
2020		0	4
2021		4	8
2022		6	14

2010 Maintenance day-Memo of Understanding
2011 Used 5 days 5/9-5/13.
2017 Used 1 maintenance day 10/20/2017

Year end TIB to be calculated year end for actual.
(Do not use estimated TIB at year end, is only estimate)
If county brings in 73,000, or above, we must process 48,180 tons (66%)
Total RDF 2023 59480
48180
11300

All materials rejected are returned to La Crosse County
All ash is disposed of at the La Crosse County Landfill 12,375.34 Tons
The MSW cumbustor operates Monday through Friday 24 hours per day
Combustion temperature is >1,500 degrees F bed temperture
or vapor temperature.
Residence time to the screen tubes for the two fluidized bed boiler is
three seconds. (Per Dave Loberg)

FRENCH ISLAND MONTHLY FUEL AND GENERATION REPORT – DEFINITIONS

Heading	Description
Pound Recd	Pounds solid waste received
Tons Recd	Tons solid waste received
Tons Diverted	Solid waste diverted to La Crosse County landfill due to plant restriction/operation
Pounds Rej (O&B)	Pounds rejected due to oversized & bulky
Tons Rej	Tons rejected due to oversized & bulky
Load Rej	Number of loads rejected due to oversized & bulky
% Rej	Percent of Tons Recd that is rejected due to oversized & bulky
Tons RG	Tons of raw garbage received
Load RG	Loads of raw garbage received
Tons AWP	Tons of actual waste processed (Tons Recd – Tons Rej)
Pounds FE	Pounds ferrous removed from AWP; rejected & landfilled
Tons FE	Tons ferrous removed from AWP; rejected & landfilled
% FE	Percent ferrous removed from AWP; rejected & landfilled
Pounds Fe/MN	Pounds ferrous removed from AWP; recycled
Tons Fe/MN	Tons ferrous removed from AWP; recycled
% Fe/MN	Percent ferrous removed from AWP; recycled
Pounds NonFe	Pounds non-ferrous removed from AWP
Tons NonFe	Tons non-ferrous removed from AWP
% NonFe	Percent non-ferrous removed from AWP
Pounds Res	Pounds residue
Tons Res	Tons residue
% Res	Percent residue removed from AWP
Tons RDF	Total RDF produced; (Tons AWP) - (Tons Fe) - (Tons FE/MN) - (Tons NonFe) - (Tons Res)
% Yield	(Tons RDF / Tons AWP)
Tons Wood	Tons of wood received
Blr Hrs	Total boiler 1 & 2 operating hours
MWH Hrs	Total generator 1 & 2 megawatt hours
Tons Ash	Tons ash disposed
Estimate TIB	Estimated tons in contract bank
TIB 3YRA	Estimated tons in contract bank 3-yr average

Attachment 3

Out of State Waste Tonnage Report

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OUT-OF-COUNTY WASTE TONNAGES DELIVERED TO NSP
2023

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
BUFFALO COUNTY (B)	87.44	82.92	77.77	86.85	75.59	76.66	74.93	72.98	85.25	81.24	73.91	72.70	948.24
HOUSTON COUNTY (B)	462.27	454.18	516.51	495.86	610.53	575.31	569.62	577.45	520.33	589.62	572.78	503.24	6,447.70
WABASHA COUNTY (B)	278.93	224.51	264.08	170.01	169.94	171.20	325.45	247.76	290.75	188.00	178.39	123.89	2,632.91
TREMPEALEAU COUNTY (B)	361.61	333.53	391.86	405.33	465.79	478.17	363.60	474.72	402.77	430.00	389.82	402.97	4,900.17
WINONA COUNTY (B)	169.74	127.84	147.54	250.55	204.60	197.77	236.37	207.21	158.64	204.26	158.50	182.84	2,245.86
OUT OF STATE, IOWA (B)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OUT OF STATE, MN (B)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.30	8.30
MONROE COUNTY (B)	82.67	92.99	123.01	124.16	190.79	204.95	103.23	92.10	170.18	182.30	150.60	113.65	1,630.63
OUT OF AREA, WI (B)	288.95	249.13	272.80	277.00	236.54	307.58	152.49	185.75	165.11	214.11	193.86	148.28	2,691.60
FILLMORE COUNTY (B)	175.64	133.15	144.26	133.53	131.40	140.14	98.32	168.09	151.09	141.11	111.65	94.69	1,623.07
OUT OF STATE, IL (B)	141.02	34.42	45.72	28.77	30.76	33.04	30.77	32.80	25.63	40.25	30.87	29.25	503.30
JACKSON COUNTY, WI (B)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.50	28.50

(B) As reported at Xcel

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name DGI Lyndon Station LLC
2. Generator Mailing Address 200 E. Washington Street STE 2A, Appleton, Wisconsin 54911
3. Facility Address (site of waste generation) 150 East Wright Street
4. Generator City Lyndon Station
5. Generator State/Zip Wisconsin, 53944
6. General Contact Person Todd Platt
   Phone # and email (920)209-2050 tplatt@pfefferle.biz
7. Technical Contact Person Paul Lenaker, Terracon
   Phone # and email (414)209-7637 paul.lenaker@terracon.com

---

1. Name of Waste Soil
2. Process Generating Waste Targeted soil excavation from development of historic homestead
3. Waste Color Brown
4. Waste Odor XX None _____ Mild _____ Strong
5. Physical State _____ None _____ Liquid _____ Semi-Solid Other Solid
6. Free Liquids _____ Yes _____ % XX No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A XX
8. Flash Point (cc) XX None _____<140F _____140-199F _____>200
9. a. Waste Composition:

	Range
Soil	0 to 100 %
	_____ to _____ %
	_____ to _____ %
	_____ to _____ %
	_____ to _____ %

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	X	_____
Cyanide	____	X	_____
Sulfide	____	X	_____
Phenol	____	X	_____
Chlorinated Solvents	____	X	_____
Aromatic Solvents	____	X	_____

10. Analytical Laboratory Pace lab report #'s 40270734 and 40272095

11. Date of Analysis 11/09/2023 and 12/15/2023

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes __X__No
Tank interiors _____Yes __X__No
Vehicle types NA

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck __X__Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units Approximately 170 Cubic Yards or 270 Tons

   ☒ One-time Disposal
   ☐ On-going Disposal

   Frequency_____

3. Hauler Name and Address W&D Navis, Inc.
   N2747 State Road 26
   Waupun, WI 53963

4. Bill to Name and Address DGI Lyndon Station LLC
   200 E. Washington Street STE 2A,
   Appleton, Wisconsin 54911

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title Bryce Jerke / Department Technician		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ___does _X_does not contain regulated radioactive materials and ___does _X_does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature _____

10. Title President - Platt Development Corporation

11. Name (Type or print) Todd Platt

12. Date 12/20/2023

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

November 15, 2023

Paul Lenaker
Terracon, Inc. - Milwaukee
4900 S Pennsylvania Ave Ste100
Cudahy, WI 53110

RE: Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

Dear Paul Lenaker:

Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2023. 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,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40270734001	**P-3A (2)**	Solid	11/06/23 11:17	11/08/23 09:00
40270734002	**P-3A (4)**	Solid	11/06/23 11:20	11/08/23 09:00
40270734003	**P-8 (2)**	Solid	11/06/23 11:28	11/08/23 09:00
40270734004	**P-8 (4)**	Solid	11/06/23 11:30	11/08/23 09:00
40270734005	**P-9 (2)**	Solid	11/06/23 11:38	11/08/23 09:00
40270734006	**P-9 (4)**	Solid	11/06/23 11:40	11/08/23 09:00
40270734007	**P-10 (2)**	Solid	11/06/23 11:48	11/08/23 09:00
40270734008	**P-10 (4)**	Solid	11/06/23 11:50	11/08/23 09:00
40270734009	**P-11 (2)**	Solid	11/06/23 11:00	11/08/23 09:00
40270734010	**P-11 (4)**	Solid	11/06/23 11:02	11/08/23 09:00
40270734011	**P-2A (2)**	Solid	11/06/23 09:30	11/08/23 09:00
40270734012	**P-2A (4)**	Solid	11/06/23 09:40	11/08/23 09:00
40270734013	**P-4 (2)**	Solid	11/06/23 10:45	11/08/23 09:00
40270734014	**P-4 (4)**	Solid	11/06/23 10:50	11/08/23 09:00
40270734015	**P-5 (2)**	Solid	11/06/23 10:57	11/08/23 09:00
40270734016	**P-5 (4)**	Solid	11/06/23 11:02	11/08/23 09:00
40270734017	**P-6 (2)**	Solid	11/06/23 10:00	11/08/23 09:00
40270734018	**P-6 (4)**	Solid	11/06/23 10:05	11/08/23 09:00
40270734019	**P-7 (2)**	Solid	11/06/23 10:25	11/08/23 09:00
40270734020	**P-7 (4)**	Solid	11/06/23 10:30	11/08/23 09:00
40270734021	**MEOH BLANK**	Solid	11/06/23 00:00	11/08/23 09:00

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SAMPLE ANALYTE COUNT

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40270734001	**P-3A (2)**	EPA 6010D	SIS	1
		ASTM D2974-87	RZA	1
40270734002	**P-3A (4)**	EPA 6010D	SIS	1
		ASTM D2974-87	RZA	1
40270734003	**P-8 (2)**	EPA 6010D	SIS	1
		ASTM D2974-87	RZA	1
40270734004	**P-8 (4)**	EPA 6010D	SIS	1
		ASTM D2974-87	TJW	1
40270734005	**P-9 (2)**	EPA 6010D	SIS	1
		ASTM D2974-87	TJW	1
40270734006	**P-9 (4)**	EPA 6010D	SIS	1
		ASTM D2974-87	TJW	1
40270734007	**P-10 (2)**	EPA 6010D	SIS	1
		ASTM D2974-87	TJW	1
40270734008	**P-10 (4)**	EPA 6010D	SIS	1
		ASTM D2974-87	TJW	1
40270734009	**P-11 (2)**	EPA 6010D	SIS	1
		ASTM D2974-87	TJW	1
40270734010	**P-11 (4)**	EPA 6010D	SIS	1
		ASTM D2974-87	TJW	1
40270734011	**P-2A (2)**	EPA 8260	ALD	6
		ASTM D2974-87	TJW	1
40270734012	**P-2A (4)**	EPA 8260	ALD	6
		ASTM D2974-87	NMK	1
40270734013	**P-4 (2)**	EPA 8260	ALD	6
		ASTM D2974-87	TJW	1
40270734014	**P-4 (4)**	EPA 8260	ALD	6
		ASTM D2974-87	TJW	1
40270734015	**P-5 (2)**	EPA 8260	ALD	6
		ASTM D2974-87	TJW	1
40270734016	**P-5 (4)**	EPA 8260	ALD	6
		ASTM D2974-87	TJW	1
40270734017	**P-6 (2)**	EPA 8260	ALD	6
		ASTM D2974-87	TJW	1
40270734018	**P-6 (4)**	EPA 8260	ALD	6
		ASTM D2974-87	NMK	1
40270734019	**P-7 (2)**	EPA 8260	ALD	6

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SAMPLE ANALYTE COUNT

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		ASTM D2974-87	TJW	1
40270734020	**P-7 (4)**	EPA 8260	ALD	6
		ASTM D2974-87	TJW	1
40270734021	**MEOH BLANK**	EPA 8260	ALD	6

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40270734001	**P-3A (2)**					
EPA 6010D	Lead	55.6	mg/kg	2.1	11/09/23 15:19	M0, R1
ASTM D2974-87	Percent Moisture	4.8	%	0.10	11/08/23 13:27	
40270734002	**P-3A (4)**					
EPA 6010D	Lead	0.97J	mg/kg	2.0	11/09/23 15:27	
ASTM D2974-87	Percent Moisture	4.7	%	0.10	11/08/23 13:27	
40270734003	**P-8 (2)**					
EPA 6010D	Lead	138	mg/kg	2.1	11/09/23 15:30	
ASTM D2974-87	Percent Moisture	6.5	%	0.10	11/08/23 13:27	
40270734004	**P-8 (4)**					
EPA 6010D	Lead	0.84J	mg/kg	2.0	11/09/23 15:32	
ASTM D2974-87	Percent Moisture	4.0	%	0.10	11/08/23 14:42	
40270734005	**P-9 (2)**					
EPA 6010D	Lead	64.1	mg/kg	2.1	11/09/23 15:38	
ASTM D2974-87	Percent Moisture	5.7	%	0.10	11/08/23 14:42	
40270734006	**P-9 (4)**					
EPA 6010D	Lead	0.99J	mg/kg	2.0	11/09/23 15:40	
ASTM D2974-87	Percent Moisture	5.2	%	0.10	11/08/23 14:42	
40270734007	**P-10 (2)**					
EPA 6010D	Lead	18.6	mg/kg	2.1	11/09/23 15:42	
ASTM D2974-87	Percent Moisture	6.5	%	0.10	11/08/23 14:43	
40270734008	**P-10 (4)**					
EPA 6010D	Lead	0.74J	mg/kg	2.1	11/09/23 15:44	
ASTM D2974-87	Percent Moisture	3.5	%	0.10	11/08/23 14:43	
40270734009	**P-11 (2)**					
EPA 6010D	Lead	26.7	mg/kg	2.1	11/09/23 15:46	
ASTM D2974-87	Percent Moisture	7.1	%	0.10	11/08/23 14:43	
40270734010	**P-11 (4)**					
EPA 6010D	Lead	7.7	mg/kg	2.0	11/09/23 15:48	
ASTM D2974-87	Percent Moisture	5.9	%	0.10	11/08/23 14:43	
40270734011	**P-2A (2)**					
EPA 8260	Toluene	52.3J	ug/kg	93.5	11/10/23 16:02	
EPA 8260	p-Isopropyltoluene	102	ug/kg	93.5	11/10/23 16:02	
ASTM D2974-87	Percent Moisture	30.3	%	0.10	11/08/23 14:43	
40270734012	**P-2A (4)**					
ASTM D2974-87	Percent Moisture	11.8	%	0.10	11/09/23 14:35	
40270734013	**P-4 (2)**					
EPA 8260	p-Isopropyltoluene	222	ug/kg	84.1	11/09/23 18:27	
ASTM D2974-87	Percent Moisture	25.4	%	0.10	11/08/23 14:43	

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SUMMARY OF DETECTION

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40270734014	**P-4 (4)**					
ASTM D2974-87	Percent Moisture	14.4	%	0.10	11/08/23 14:43	
40270734015	**P-5 (2)**					
EPA 8260	p-Isopropyltoluene	30.5J	ug/kg	76.3	11/09/23 19:07	
ASTM D2974-87	Percent Moisture	20.8	%	0.10	11/08/23 14:44	
40270734016	**P-5 (4)**					
ASTM D2974-87	Percent Moisture	4.2	%	0.10	11/08/23 14:44	
40270734017	**P-6 (2)**					
EPA 8260	p-Isopropyltoluene	27.9J	ug/kg	72.9	11/09/23 19:48	
ASTM D2974-87	Percent Moisture	18.6	%	0.10	11/08/23 14:44	
40270734018	**P-6 (4)**					
ASTM D2974-87	Percent Moisture	13.2	%	0.10	11/09/23 14:35	
40270734019	**P-7 (2)**					
ASTM D2974-87	Percent Moisture	20.0	%	0.10	11/08/23 14:44	
40270734020	**P-7 (4)**					
ASTM D2974-87	Percent Moisture	15.3	%	0.10	11/08/23 14:44	

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ANALYTICAL RESULTS

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

Sample: P-3A (2) **Lab ID: 40270734001** Collected: 11/06/23 11:17 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Lead	**55.6**	mg/kg	2.1	0.63	1	11/09/23 07:01	11/09/23 15:19	7439-92-1	M0,R1
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**4.8**	%	0.10	0.10	1		11/08/23 13:27		

Sample: P-3A (4) **Lab ID: 40270734002** Collected: 11/06/23 11:20 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Lead	**0.97J**	mg/kg	2.0	0.60	1	11/09/23 07:01	11/09/23 15:27	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**4.7**	%	0.10	0.10	1		11/08/23 13:27		

Sample: P-8 (2) **Lab ID: 40270734003** Collected: 11/06/23 11:28 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Lead	**138**	mg/kg	2.1	0.62	1	11/09/23 07:01	11/09/23 15:30	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.5**	%	0.10	0.10	1		11/08/23 13:27		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

Sample: P-8 (4) **Lab ID: 40270734004** Collected: 11/06/23 11:30 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Lead	**0.84J**	mg/kg	2.0	0.60	1	11/09/23 07:01	11/09/23 15:32	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**4.0**	%	0.10	0.10	1		11/08/23 14:42		

Sample: P-9 (2) **Lab ID: 40270734005** Collected: 11/06/23 11:38 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Lead	**64.1**	mg/kg	2.1	0.63	1	11/09/23 07:01	11/09/23 15:38	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.7**	%	0.10	0.10	1		11/08/23 14:42		

Sample: P-9 (4) **Lab ID: 40270734006** Collected: 11/06/23 11:40 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Lead	**0.99J**	mg/kg	2.0	0.60	1	11/09/23 07:01	11/09/23 15:40	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.2**	%	0.10	0.10	1		11/08/23 14:42		

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ANALYTICAL RESULTS

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

Sample: P-10 (2) **Lab ID: 40270734007** Collected: 11/06/23 11:48 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Lead	**18.6**	mg/kg	2.1	0.62	1	11/09/23 07:01	11/09/23 15:42	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.5**	%	0.10	0.10	1		11/08/23 14:43		

Sample: P-10 (4) **Lab ID: 40270734008** Collected: 11/06/23 11:50 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Lead	**0.74J**	mg/kg	2.1	0.61	1	11/09/23 07:01	11/09/23 15:44	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**3.5**	%	0.10	0.10	1		11/08/23 14:43		

Sample: P-11 (2) **Lab ID: 40270734009** Collected: 11/06/23 11:00 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Lead	**26.7**	mg/kg	2.1	0.63	1	11/09/23 07:01	11/09/23 15:46	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.1**	%	0.10	0.10	1		11/08/23 14:43		

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ANALYTICAL RESULTS

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

Sample: P-11 (4) **Lab ID: 40270734010** Collected: 11/06/23 11:02 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Lead	**7.7**	mg/kg	2.0	0.59	1	11/09/23 07:01	11/09/23 15:48	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.9**	%	0.10	0.10	1		11/08/23 14:43		

Sample: P-2A (2) **Lab ID: 40270734011** Collected: 11/06/23 09:30 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Ethylbenzene	**<22.2**	ug/kg	93.5	22.2	1	11/09/23 08:00	11/10/23 16:02	100-41-4	
Toluene	**52.3J**	ug/kg	93.5	23.6	1	11/09/23 08:00	11/10/23 16:02	108-88-3	
p-Isopropyltoluene	**102**	ug/kg	93.5	31.8	1	11/09/23 08:00	11/10/23 16:02	99-87-6	
Surrogates									
Toluene-d8 (S)	145	%	70-139		1	11/09/23 08:00	11/10/23 16:02	2037-26-5	S1
4-Bromofluorobenzene (S)	128	%	72-142		1	11/09/23 08:00	11/10/23 16:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	137	%	67-144		1	11/09/23 08:00	11/10/23 16:02	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**30.3**	%	0.10	0.10	1		11/08/23 14:43		

Sample: P-2A (4) **Lab ID: 40270734012** Collected: 11/06/23 09:40 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Ethylbenzene	**<15.1**	ug/kg	63.3	15.1	1	11/09/23 08:00	11/09/23 15:05	100-41-4	
Toluene	**<16.0**	ug/kg	63.3	16.0	1	11/09/23 08:00	11/09/23 15:05	108-88-3	
p-Isopropyltoluene	**<21.5**	ug/kg	63.3	21.5	1	11/09/23 08:00	11/09/23 15:05	99-87-6	
Surrogates									
Toluene-d8 (S)	128	%	70-139		1	11/09/23 08:00	11/09/23 15:05	2037-26-5	
4-Bromofluorobenzene (S)	125	%	72-142		1	11/09/23 08:00	11/09/23 15:05	460-00-4	
1,2-Dichlorobenzene-d4 (S)	133	%	67-144		1	11/09/23 08:00	11/09/23 15:05	2199-69-1	

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ANALYTICAL RESULTS

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

Sample: P-2A (4) **Lab ID: 40270734012** Collected: 11/06/23 09:40 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Green Bay								
Percent Moisture	**11.8**	%	0.10	0.10	1		11/09/23 14:35		

Sample: P-4 (2) **Lab ID: 40270734013** Collected: 11/06/23 10:45 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
	Pace Analytical Services - Green Bay								
Ethylbenzene	**<20.0**	ug/kg	84.1	20.0	1	11/09/23 08:00	11/09/23 18:27	100-41-4	
Toluene	**<21.2**	ug/kg	84.1	21.2	1	11/09/23 08:00	11/09/23 18:27	108-88-3	
p-Isopropyltoluene	**222**	ug/kg	84.1	28.6	1	11/09/23 08:00	11/09/23 18:27	99-87-6	
Surrogates									
Toluene-d8 (S)	205	%	70-139		1	11/09/23 08:00	11/09/23 18:27	2037-26-5	S1
4-Bromofluorobenzene (S)	203	%	72-142		1	11/09/23 08:00	11/09/23 18:27	460-00-4	S1
1,2-Dichlorobenzene-d4 (S)	213	%	67-144		1	11/09/23 08:00	11/09/23 18:27	2199-69-1	S1
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Green Bay								
Percent Moisture	**25.4**	%	0.10	0.10	1		11/08/23 14:43		

Sample: P-4 (4) **Lab ID: 40270734014** Collected: 11/06/23 10:50 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
	Pace Analytical Services - Green Bay								
Ethylbenzene	**<15.9**	ug/kg	66.9	15.9	1	11/09/23 08:00	11/09/23 18:47	100-41-4	
Toluene	**<16.9**	ug/kg	66.9	16.9	1	11/09/23 08:00	11/09/23 18:47	108-88-3	
p-Isopropyltoluene	**<22.7**	ug/kg	66.9	22.7	1	11/09/23 08:00	11/09/23 18:47	99-87-6	
Surrogates									
Toluene-d8 (S)	124	%	70-139		1	11/09/23 08:00	11/09/23 18:47	2037-26-5	
4-Bromofluorobenzene (S)	123	%	72-142		1	11/09/23 08:00	11/09/23 18:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	134	%	67-144		1	11/09/23 08:00	11/09/23 18:47	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Green Bay								
Percent Moisture	**14.4**	%	0.10	0.10	1		11/08/23 14:43		

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ANALYTICAL RESULTS

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

Sample: P-5 (2) **Lab ID: 40270734015** Collected: 11/06/23 10:57 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Ethylbenzene	**<18.2**	ug/kg	76.3	18.2	1	11/09/23 08:00	11/09/23 19:07	100-41-4	
Toluene	**<19.2**	ug/kg	76.3	19.2	1	11/09/23 08:00	11/09/23 19:07	108-88-3	
p-Isopropyltoluene	**30.5J**	ug/kg	76.3	25.9	1	11/09/23 08:00	11/09/23 19:07	99-87-6	
Surrogates									
Toluene-d8 (S)	162	%	70-139		1	11/09/23 08:00	11/09/23 19:07	2037-26-5	S3
4-Bromofluorobenzene (S)	163	%	72-142		1	11/09/23 08:00	11/09/23 19:07	460-00-4	S3
1,2-Dichlorobenzene-d4 (S)	175	%	67-144		1	11/09/23 08:00	11/09/23 19:07	2199-69-1	S3
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**20.8**	%	0.10	0.10	1		11/08/23 14:44		

Sample: P-5 (4) **Lab ID: 40270734016** Collected: 11/06/23 11:02 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Ethylbenzene	**<12.9**	ug/kg	54.4	12.9	1	11/09/23 08:00	11/09/23 19:27	100-41-4	
Toluene	**<13.7**	ug/kg	54.4	13.7	1	11/09/23 08:00	11/09/23 19:27	108-88-3	
p-Isopropyltoluene	**<18.5**	ug/kg	54.4	18.5	1	11/09/23 08:00	11/09/23 19:27	99-87-6	
Surrogates									
Toluene-d8 (S)	129	%	70-139		1	11/09/23 08:00	11/09/23 19:27	2037-26-5	
4-Bromofluorobenzene (S)	127	%	72-142		1	11/09/23 08:00	11/09/23 19:27	460-00-4	
1,2-Dichlorobenzene-d4 (S)	136	%	67-144		1	11/09/23 08:00	11/09/23 19:27	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**4.2**	%	0.10	0.10	1		11/08/23 14:44		

Sample: P-6 (2) **Lab ID: 40270734017** Collected: 11/06/23 10:00 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Ethylbenzene	**<17.3**	ug/kg	72.9	17.3	1	11/09/23 08:00	11/09/23 19:48	100-41-4	
Toluene	**<18.4**	ug/kg	72.9	18.4	1	11/09/23 08:00	11/09/23 19:48	108-88-3	
p-Isopropyltoluene	**27.9J**	ug/kg	72.9	24.8	1	11/09/23 08:00	11/09/23 19:48	99-87-6	

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ANALYTICAL RESULTS

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

Sample: P-6 (2) **Lab ID: 40270734017** Collected: 11/06/23 10:00 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Surrogates									
Toluene-d8 (S)	157	%	70-139		1	11/09/23 08:00	11/09/23 19:48	2037-26-5	S3
4-Bromofluorobenzene (S)	157	%	72-142		1	11/09/23 08:00	11/09/23 19:48	460-00-4	S3
1,2-Dichlorobenzene-d4 (S)	165	%	67-144		1	11/09/23 08:00	11/09/23 19:48	2199-69-1	S3
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**18.6**	%	0.10	0.10	1		11/08/23 14:44		

Sample: P-6 (4) **Lab ID: 40270734018** Collected: 11/06/23 10:05 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Ethylbenzene	**<15.5**	ug/kg	65.2	15.5	1	11/09/23 08:00	11/09/23 20:08	100-41-4	
Toluene	**<16.4**	ug/kg	65.2	16.4	1	11/09/23 08:00	11/09/23 20:08	108-88-3	
p-Isopropyltoluene	**<22.2**	ug/kg	65.2	22.2	1	11/09/23 08:00	11/09/23 20:08	99-87-6	
Surrogates									
Toluene-d8 (S)	128	%	70-139		1	11/09/23 08:00	11/09/23 20:08	2037-26-5	
4-Bromofluorobenzene (S)	126	%	72-142		1	11/09/23 08:00	11/09/23 20:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	134	%	67-144		1	11/09/23 08:00	11/09/23 20:08	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**13.2**	%	0.10	0.10	1		11/09/23 14:35		

Sample: P-7 (2) **Lab ID: 40270734019** Collected: 11/06/23 10:25 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Ethylbenzene	**<17.9**	ug/kg	75.0	17.9	1	11/09/23 08:00	11/09/23 20:28	100-41-4	
Toluene	**<18.9**	ug/kg	75.0	18.9	1	11/09/23 08:00	11/09/23 20:28	108-88-3	
p-Isopropyltoluene	**<25.5**	ug/kg	75.0	25.5	1	11/09/23 08:00	11/09/23 20:28	99-87-6	
Surrogates									
Toluene-d8 (S)	165	%	70-139		1	11/09/23 08:00	11/09/23 20:28	2037-26-5	S3
4-Bromofluorobenzene (S)	165	%	72-142		1	11/09/23 08:00	11/09/23 20:28	460-00-4	S3

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ANALYTICAL RESULTS

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

Sample: P-7 (2) **Lab ID: 40270734019** Collected: 11/06/23 10:25 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Surrogates									
1,2-Dichlorobenzene-d4 (S)	173	%	67-144		1	11/09/23 08:00	11/09/23 20:28	2199-69-1	S3
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**20.0**	%	0.10	0.10	1		11/08/23 14:44		

Sample: P-7 (4) **Lab ID: 40270734020** Collected: 11/06/23 10:30 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Ethylbenzene	**<16.2**	ug/kg	68.1	16.2	1	11/09/23 08:00	11/09/23 20:49	100-41-4	
Toluene	**<17.2**	ug/kg	68.1	17.2	1	11/09/23 08:00	11/09/23 20:49	108-88-3	
p-Isopropyltoluene	**<23.1**	ug/kg	68.1	23.1	1	11/09/23 08:00	11/09/23 20:49	99-87-6	
Surrogates									
Toluene-d8 (S)	125	%	70-139		1	11/09/23 08:00	11/09/23 20:49	2037-26-5	
4-Bromofluorobenzene (S)	122	%	72-142		1	11/09/23 08:00	11/09/23 20:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	131	%	67-144		1	11/09/23 08:00	11/09/23 20:49	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**15.3**	%	0.10	0.10	1		11/08/23 14:44		

Sample: MEOH BLANK **Lab ID: 40270734021** Collected: 11/06/23 00:00 Received: 11/08/23 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Ethylbenzene	**<11.9**	ug/kg	50.0	11.9	1	11/09/23 08:00	11/09/23 14:45	100-41-4	
Toluene	**<12.6**	ug/kg	50.0	12.6	1	11/09/23 08:00	11/09/23 14:45	108-88-3	
p-Isopropyltoluene	**<17.0**	ug/kg	50.0	17.0	1	11/09/23 08:00	11/09/23 14:45	99-87-6	
Surrogates									
Toluene-d8 (S)	104	%	70-139		1	11/09/23 08:00	11/09/23 14:45	2037-26-5	
4-Bromofluorobenzene (S)	110	%	72-142		1	11/09/23 08:00	11/09/23 14:45	460-00-4	
1,2-Dichlorobenzene-d4 (S)	119	%	67-144		1	11/09/23 08:00	11/09/23 14:45	2199-69-1	

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QUALITY CONTROL DATA

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

QC Batch: 459959
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40270734001, 40270734002, 40270734003, 40270734004, 40270734005, 40270734006, 40270734007, 40270734008, 40270734009, 40270734010

METHOD BLANK: 2641294 Matrix: Solid
Associated Lab Samples: 40270734001, 40270734002, 40270734003, 40270734004, 40270734005, 40270734006, 40270734007, 40270734008, 40270734009, 40270734010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	<0.60	2.0	11/09/23 15:15	

LABORATORY CONTROL SAMPLE: 2641295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	25	26.2	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2641296 2641297

Parameter	Units	40270734001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	55.6	26.1	26.2	88.4	62.4	126	26	75-125	34	20	M0,R1

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QUALITY CONTROL DATA

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

QC Batch: 459968
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40270734011, 40270734012, 40270734013, 40270734014, 40270734015, 40270734016, 40270734017, 40270734018, 40270734019, 40270734020, 40270734021

METHOD BLANK: 2641322 Matrix: Solid
Associated Lab Samples: 40270734011, 40270734012, 40270734013, 40270734014, 40270734015, 40270734016, 40270734017, 40270734018, 40270734019, 40270734020, 40270734021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<11.9	50.0	11/09/23 12:03	
p-Isopropyltoluene	ug/kg	<17.0	50.0	11/09/23 12:03	
Toluene	ug/kg	<12.6	50.0	11/09/23 12:03	
1,2-Dichlorobenzene-d4 (S)	%	99	67-144	11/09/23 12:03	
4-Bromofluorobenzene (S)	%	91	72-142	11/09/23 12:03	
Toluene-d8 (S)	%	103	70-139	11/09/23 12:03	

LABORATORY CONTROL SAMPLE: 2641323

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/kg	2500	2600	104	80-120	
Toluene	ug/kg	2500	2540	102	80-120	
1,2-Dichlorobenzene-d4 (S)	%			103	67-144	
4-Bromofluorobenzene (S)	%			98	72-142	
Toluene-d8 (S)	%			107	70-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2641324 2641325

Parameter	Units	40270734012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethylbenzene	ug/kg	<15.1	1270	1270	1090	1170	86	93	80-120	7	20	
Toluene	ug/kg	<16.0	1270	1270	1080	1200	85	94	80-120	10	20	
1,2-Dichlorobenzene-d4 (S)	%						100	132	67-144			
4-Bromofluorobenzene (S)	%						97	127	72-142			
Toluene-d8 (S)	%						119	125	70-139			

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QUALITY CONTROL DATA

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

QC Batch: 459901
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40270734001, 40270734002, 40270734003

SAMPLE DUPLICATE: 2641055

Parameter	Units	40270716001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.3	4.3	2	10	

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QUALITY CONTROL DATA

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

QC Batch: 459926
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40270734004, 40270734005, 40270734006, 40270734007, 40270734008, 40270734009, 40270734010, 40270734011, 40270734013, 40270734014, 40270734015, 40270734016, 40270734017, 40270734019, 40270734020

SAMPLE DUPLICATE: 2641166

Parameter	Units	40270737001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.0	4.1	4	10	

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

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

QUALITY CONTROL DATA

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

QC Batch: 460015
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40270734012, 40270734018

SAMPLE DUPLICATE: 2641775

Parameter	Units	40270786001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.5	19.8	3	10	

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.

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Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

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.

DL - Adjusted Method Detection Limit.

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.

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
S1	Surrogate recovery outside laboratory control limits (confirmed by re-analysis).
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40270734

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40270734001	**P-3A (2)**	EPA 3050B	459959	EPA 6010D	460011
40270734002	**P-3A (4)**	EPA 3050B	459959	EPA 6010D	460011
40270734003	**P-8 (2)**	EPA 3050B	459959	EPA 6010D	460011
40270734004	**P-8 (4)**	EPA 3050B	459959	EPA 6010D	460011
40270734005	**P-9 (2)**	EPA 3050B	459959	EPA 6010D	460011
40270734006	**P-9 (4)**	EPA 3050B	459959	EPA 6010D	460011
40270734007	**P-10 (2)**	EPA 3050B	459959	EPA 6010D	460011
40270734008	**P-10 (4)**	EPA 3050B	459959	EPA 6010D	460011
40270734009	**P-11 (2)**	EPA 3050B	459959	EPA 6010D	460011
40270734010	**P-11 (4)**	EPA 3050B	459959	EPA 6010D	460011
40270734011	**P-2A (2)**	EPA 5035/5030B	459968	EPA 8260	459975
40270734012	**P-2A (4)**	EPA 5035/5030B	459968	EPA 8260	459975
40270734013	**P-4 (2)**	EPA 5035/5030B	459968	EPA 8260	459975
40270734014	**P-4 (4)**	EPA 5035/5030B	459968	EPA 8260	459975
40270734015	**P-5 (2)**	EPA 5035/5030B	459968	EPA 8260	459975
40270734016	**P-5 (4)**	EPA 5035/5030B	459968	EPA 8260	459975
40270734017	**P-6 (2)**	EPA 5035/5030B	459968	EPA 8260	459975
40270734018	**P-6 (4)**	EPA 5035/5030B	459968	EPA 8260	459975
40270734019	**P-7 (2)**	EPA 5035/5030B	459968	EPA 8260	459975
40270734020	**P-7 (4)**	EPA 5035/5030B	459968	EPA 8260	459975
40270734021	**MEOH BLANK**	EPA 5035/5030B	459968	EPA 8260	459975
40270734001	**P-3A (2)**	ASTM D2974-87	459901		
40270734002	**P-3A (4)**	ASTM D2974-87	459901		
40270734003	**P-8 (2)**	ASTM D2974-87	459901		
40270734004	**P-8 (4)**	ASTM D2974-87	459926		
40270734005	**P-9 (2)**	ASTM D2974-87	459926		
40270734006	**P-9 (4)**	ASTM D2974-87	459926		
40270734007	**P-10 (2)**	ASTM D2974-87	459926		
40270734008	**P-10 (4)**	ASTM D2974-87	459926		
40270734009	**P-11 (2)**	ASTM D2974-87	459926		
40270734010	**P-11 (4)**	ASTM D2974-87	459926		
40270734011	**P-2A (2)**	ASTM D2974-87	459926		
40270734012	**P-2A (4)**	ASTM D2974-87	460015		
40270734013	**P-4 (2)**	ASTM D2974-87	459926		
40270734014	**P-4 (4)**	ASTM D2974-87	459926		
40270734015	**P-5 (2)**	ASTM D2974-87	459926		
40270734016	**P-5 (4)**	ASTM D2974-87	459926		
40270734017	**P-6 (2)**	ASTM D2974-87	459926		
40270734018	**P-6 (4)**	ASTM D2974-87	460015		
40270734019	**P-7 (2)**	ASTM D2974-87	459926		
40270734020	**P-7 (4)**	ASTM D2974-87	459926		

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Pace® Location Requested (City/State):
Pace Analytical Green Bay
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

402707 34

Scan QR Code for instructions

Company Name.	Terracon, Inc. - Milwaukee	Contact/Report To	Paul Lenaker
Street Address	4900 S Pennsylvania Ave Ste100, Cudahy, WI 53110	Phone #.	414-423-0255
		E-Mail.	palenaker@terracon.com
		Cc E-Mail	
Customer Project #		Invoice To:	Accounts Payable
Project Name	58207188 Prop Dollar General	Invoice E-Mail.	itscan@kwiktrip.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable).	
		Quote #	
Time Zone Collected. [ ] AK [ ] PT [ ] MT [X] CT [ ] ET		County / State origin of sample(s).	Wisconsin

Data Deliverables
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc) as applicable

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable). [ ] Yes [ ] No

Analysis:

Specify Container Size **: 6 9 9

Identify Container Preservative Type***: 10 1 1

Analysis Requested

**Container Size (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj Mgr. Dan Milewsky
AcctNum / Client ID
Table #:
Profile / Template 4516
Prelog / Bottle Ord. ID. EZ 3012699

Preservation non-conformance identified for sample

* Matrix Codes (Insert in Matrix box below). Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	8260 PVOC + Naphthalene	Dry Weight	Lead and Dry Weight	Sample Comment
P-3a (2)	SL	G	11/6/2023	~~930~~ 1117 rts				1				X	001
P-3a (4)	SL			~~940~~ 1120 rts				1				X	002
P-8 (2)	SL			1128				1				X	003
P-8 (4)	SL			1130				1				X	004
P-9 (2)	SL			1138				1				X	005
P-9 (4)	SL			1140				1				X	006
P-10 (2)	SL			1148				1				X	007
P-10 (4)	SL			1150				1				X	008
P-11 (2)	SL			1100				1				X	009
P-11 (4)	SL			1102				1				X	010

Customer Remarks / Special Conditions / Possible Hazards:
For PVOC samples, only analyze toluene, ethylbenzene, and p-isopropyltoluene.

Collected By:
Printed Name Rachel Slonac
Signature

Additional Instructions from Pace®.

# Coolers:	Thermometer ID	Correction Factor (°C)	Obs. Temp (°C)	Corrected Temp (°C)

Relinquished by/Company (Signature)	Date/Time	Received by/Company (Signature)	Date/Time.	Tracking Number:
Terracon	11/7/23 1200			
CS Logistics	11/8/23 0900	pace	11/8/23 0900	Delivered by [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company. (Signature)	Date/Time	Received by/Company (Signature)	Date/Time.	
Relinquished by/Company (Signature)	Date/Time	Received by/Company (Signature)	Date/Time	Page: 1 of 3

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Pace® Location Requested (City/State):
Pace Analytical Green Bay
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

CHAIN-OF-CUSTODY Analytical Request Document

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40270734

Scan QR Code for instructions

Company Name:	Terracon, Inc. - Milwaukee	Contact/Report To:	Paul Lenaker
Street Address:	4900 S Pennsylvania Ave Ste100, Cudahy, WI 53110	Phone #.	414-423-0255
		E-Mail	palenaker@terracon.com
		Cc E-Mail.	
Customer Project #.		Invoice To:	Accounts Payable
Project Name.	58207188 Prop Dollar General	Invoice E-Mail:	itscan@kwiktrip.com
Site Collection Info/Facility ID (as applicable).		Purchase Order # (if applicable):	
		Quote #	

Time Zone Collected. [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Wisconsin

Data Deliverables.
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable.

Field Filtered (if applicable). [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below). Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 6 9 9

Identify Container Preservative Type***: 10 1 1

Analysis Requested

**Container Size (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types. (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr.: Dan Milewsky
AcctNum / Client ID.
Table #
Profile / Template: 4516
Prelog / Bottle Ord ID: EZ 3012699

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	8260 PVOC + Naphthalene	Dry Weight	Lead and Dry Weight	Sample Comment	Preservation non-conformance identified for sample.
	SL											X		
	SL											X		
P-2a (2)	SL	G	11/6/23	930				1	1	X	X			011
P-2a (4)	SL			940				1	1	X	X			012
P-4 (2)	SL			1045				1	1	X	X			013
P-4 (4)	SL			1050				1	1	X	X			014
P-5 (2)	SL			1057				1	1	X	X			015
P-5 (4)	SL			1102				1	1	X	X			016
P-6 (2)	SL			1000						X	X			017
P-6 (4)	SL			1005						X	X			018

Customer Remarks / Special Conditions / Possible Hazards:
Same as page 1

Collected By.
Printed Name: Rachel Slonac
Signature:

Additional Instructions from Pace®:

# Coolers:	Thermometer ID	Correction Factor (°C)	Obs. Temp (°C)	Corrected Temp (°C)

Relinquished by/Company (Signature)	Date/Time	Received by/Company (Signature)	Date/Time	Tracking Number:
Terracon	11/7/23 1200			
Relinquished by/Company (Signature) CS Logistics	Date/Time 11/8/23 0900	Received by/Company (Signature) pace	Date/Time 11/8/23 0900	Delivered by [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company. (Signature)	Date/Time	Received by/Company (Signature)	Date/Time	
Relinquished by/Company. (Signature)	Date/Time	Received by/Company (Signature)	Date/Time	Page: 2 of 3

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ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State).
Pace Analytical Green Bay
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

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40270734

Scan QR Code for instructions

Company Name:	Terracon, Inc. - Milwaukee	Contact/Report To:	Paul Lenaker
Street Address:	4900 S Pennsylvania Ave Ste100, Cudahy, WI 53110	Phone #:	414-423-0255
		E-Mail.	palenaker@terracon.com
		Cc E-Mail:	
Customer Project #.		Invoice To:	Accounts Payable
Project Name.	58207188 Prop Dollar General	Invoice E-Mail.	itscan@kwiktrip.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #	

Specify Container Size **: 6 9 9
Identify Container Preservative Type***: 10 1 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types. (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Wisconsin

Data Deliverables.
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

Lab Use Only
Proj. Mgr: Dan Milewsky
AcctNum / Client ID.
Table #.
Profile / Template. 4516
Prelog / Bottle Ord. ID EZ 3012699

* Matrix Codes (Insert in Matrix box below) Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	8260 PVOC + Naphthalene	Dry Weight	Lead and Dry Weight	Sample Comment	Preservation non-conformance identified for sample.
P-7(2)	SL	G	11/6/23	1025				1	1	X	X		019	
P-7 (4)	SL	"	"	1030				1	1	X	X		020	
	SL									X	X			
	SL									X	X			
MEOH Blank	—	—	11/6/23	—	—	—	—		1	X			021	

Customer Remarks / Special Conditions / Possible Hazards:
Same as page 1

Collected By:
Printed Name: Rachel Slonac
Signature: Rachel Slonac

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C)	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company (Signature)	Date/Time	Received by/Company (Signature)	Date/Time.	Tracking Number
Terracon	11/7/23 1200			
CS Logistics	11/8/23 0900	pace	11/8/23 0900	Delivered by [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company. (Signature)	Date/Time.	Received by/Company. (Signature)	Date/Time	
Relinquished by/Company (Signature)	Date/Time.	Received by/Company. (Signature)	Date/Time	Page: 3 of 3

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Sample Preservation Receipt Form

Client Name: Terracon Project # 40270734

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

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

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001																																		2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

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	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Preservation Receipt Form

Client Name: Terracon Project #: 40270734

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
021																		1																2.5 / 5
022																																		2.5 / 5
023																																		2.5 / 5
024																																		2.5 / 5
025																																		2.5 / 5
026																																		2.5 / 5
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031																																		2.5 / 5
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041																																		2.5 / 5
042																																		2.5 / 5
043																																		2.5 / 5
044																																		2.5 / 5
045																																		2.5 / 5
046																																		2.5 / 5
047																																		2.5 / 5
048																																		2.5 / 5

11/8/23 NK

Page 2 of 3

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40270734

40270734

Client Name: Terracon

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

Tracking #: _____

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 - 134 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 2.5 /Corr: 2.5

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

Person examining contents:
Date: 11/8/23 /Initials: NK

Labeled By Initials: R.A

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. proj.# 11/8/23 NK
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.
- DI 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:		8.
For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	
Correct Containers Used:	☒Yes ☐No	9.
Correct Type: ~~Pace Green Bay~~, Pace IR, Non-Pace		
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 1230		

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 logi

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

December 18, 2023

Paul Lenaker
Terracon, Inc. - Milwaukee
4900 S Pennsylvania Ave Ste100
Cudahy, WI 53110

RE: Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40272095

Dear Paul Lenaker:

Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 2023. 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,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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CERTIFICATIONS

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40272095

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40272095

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40272095001	**P-8 (2)**	Solid	11/06/23 11:28	12/12/23 00:00

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SAMPLE ANALYTE COUNT

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40272095

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40272095001	**P-8 (2)**	EPA 6010D	SIS	1

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40272095

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40272095001	**P-8 (2)**					
EPA 6010D	Lead	0.28	mg/L	0.020	12/15/23 15:58	

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ANALYTICAL RESULTS

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40272095

Sample: P-8 (2) **Lab ID: 40272095001** Collected: 11/06/23 11:28 Received: 12/12/23 00:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP	Analytical Method: EPA 6010D Preparation Method: EPA 3015A Leachate Method/Date: EPA 1311; 12/14/23 14:00 Pace Analytical Services - Green Bay								
Lead	**0.28**	mg/L	0.020	0.0059	1	12/15/23 12:42	12/15/23 15:58	7439-92-1	

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QUALITY CONTROL DATA

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40272095

QC Batch: 462951
QC Batch Method: EPA 3015A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET TCLP
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40272095001

METHOD BLANK: 2656785 Matrix: Water
Associated Lab Samples: 40272095001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.0059	0.020	12/15/23 15:47	

METHOD BLANK: 2655109 Matrix: Solid
Associated Lab Samples: 40272095001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.0059	0.020	12/15/23 16:25	

METHOD BLANK: 2655907 Matrix: Solid
Associated Lab Samples: 40272095001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.0059	0.020	12/15/23 16:10	

LABORATORY CONTROL SAMPLE: 2656786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	0.28	0.29	105	80-120	

MATRIX SPIKE SAMPLE: 2656787

Parameter	Units	40272015001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	0.010J	0.28	0.30	103	75-125	

MATRIX SPIKE SAMPLE: 2656788

Parameter	Units	40272015002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	<0.0059	0.28	0.29	103	75-125	

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.

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QUALITY CONTROL DATA

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40272095

MATRIX SPIKE SAMPLE: 2656789

Parameter	Units	40272058001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	0.68	0.28	0.95	98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2656790 2656791

Parameter	Units	40272119001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/L	0.0097J	0.28	0.28	0.29	0.29	102	102	75-125	1	20	

MATRIX SPIKE SAMPLE: 2656792

Parameter	Units	40272126003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	<0.030	0.28	0.31	110	75-125	

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

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QUALIFIERS

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40272095

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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.

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Green Bay, WI 54302
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58207188 PROP DOLLAR GENERAL
Pace Project No.: 40272095

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40272095001	**P-8 (2)**	EPA 3015A	462951	EPA 6010D	462963

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40272095

Pace® Location Requested (City/State):
Pace Analytical Green Bay
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

~~40270734~~ 12/13/23 YB

Scan QR Code for instructions

Company Name.	Terracon, Inc. - Milwaukee	Contact/Report To	Paul Lenaker
Street Address	4900 S Pennsylvania Ave Ste100, Cudahy, WI 53110	Phone #.	414-423-0255
		E-Mail.	palenaker@terracon.com
		Cc E-Mail	
Customer Project #		Invoice To:	Accounts Payable
Project Name	58207188 Prop Dollar General	Invoice E-Mail.	itscan@kwiktrip.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable).	
		Quote #	

Time Zone Collected. [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s). Wisconsin

Data Deliverables
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc) as applicable

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable). [ ] Yes [ ] No

Analysis*

Specify Container Size **: 6 9 9

Identify Container Preservative Type***: 10 1 1

**Container Size (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

* Matrix Codes (Insert in Matrix box below). Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	8260 PVOC + Naphthalene	Dry Weight	Lead and Dry Weight	TCLP Lead	Lab Use Only	Sample Comment	Preservation non-conformance identified for sample
P-3a (2)	SL	G	11/6/2023	~~930~~ 1117 MS				1				X			001	
P-3a (4)	SL	|	|	~~940~~ 1120 MS				1				X			002	
P-8 (2)	SL	|	|	1128				1				X	X		001 003	
P-8 (4)	SL	|	|	1130				1				X			004	
P-9 (2)	SL	|	|	1138				1				X			005	
P-9 (4)	SL	|	|	1140				1				X			006	
P-10 (2)	SL	|	|	1148				1				X			007	
P-10 (4)	SL	|	|	1150				1				X			008	
P-11 (2)	SL	|	|	1100				1				X			009	
P-11 (4)	SL	|	|	1102				1				X			010	

Lab Use Only
Proj Mgr.: Dan Milewsky
AcctNum / Client ID:
Table #:
Profile / Template: 4516
Prelog / Bottle Ord. ID.: EZ 3012699

Customer Remarks / Special Conditions / Possible Hazards:
For PVOC samples, only analyze toluene, ethylbenzene, and p-isopropyltoluene.

Collected By:
Printed Name Rachel Slonac
Signature

Additional Instructions from Pace®.

# Coolers:	Thermometer ID	Correction Factor (°C)	Obs. Temp (°C)	Corrected Temp (°C)

Relinquished by/Company (Signature)	Date/Time	Received by/Company (Signature)	Date/Time.	Tracking Number:
Terracon	11/7/23 1200			
CS Logistics	11/8/23 0900	pace	11/8/23 0900	Delivered by [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company. (Signature)	Date/Time	Received by/Company (Signature)	Date/Time.	
Relinquished by/Company (Signature)	Date/Time	Received by/Company (Signature)	Date/Time	Page: 1 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https //www.pacelabs com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Sample Preservation Receipt Form

Client Name: Terracon Project # 40272095

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

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

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001																																		2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

12/13/23 8C

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
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
BP2Z	500 mL plastic NaOH + Zn

VG9C	40 mL clear ascorbic w/ HCl
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 1	
GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40272095

40272095

Client Name: Terracon

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

Tracking #: _____

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 - 139 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 1.0 /Corr: 1.0

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

Person examining contents:
Date: 12/13/23 Initials: SG
Labeled By Initials: TJW

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.
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.
- DI 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.
Correct Type: (Pace Green Bay) Pace IR, Non-Pace		
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: SL	☒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): _____		

If checked, see attached form for additional comments ☐

Client Notification/ Resolution:
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 logi

DRAFT

Table 1
Soil Analytical Test Results Summary for VOCs, Metals, and DRO
Detected Compounds Only

Proposed Dollar General
150 East Wright Street
Lyndon Station, Wisconsin
Terracon Project No. 58207188

Boring ID	Sample Depth (feet)	Saturated / Unsaturated	Sample Date	Matrix (Native Soil or Fill)	PID (ppmv)	VOCs (µg/kg)			Metals (mg/kg)				DRO (mg/kg)
						Ethylbenzene	p-Isopropyltoluene	Toluene	Barium	Chromium	Lead	Mercury	Diesel Range Organics
Direct Contact Non-Industrial RCL[1]						**8,020**	**162,000**	**818,000**	**15,300**	**100,000**	**400**	**3.13**	**--**
Direct Contact Industrial RCL[2]						35,400	162,000	818,000	100,000	100,000	800	3.13	--
Soil to Groundwater Pathway RCL[3]						*1,570*	--	*1,107.2*	*164.8*	*360,000*	*27*	*0.208*	--
Statewide Background Threshold Value [4]						--	--	--	364	44	52	--	--
P-1 (2')	2.0	Unsaturated	9/25/2020	Fill	<1	<25.0	<25.0	133	32.9	3.9	11	0.019	3.6
P-1 (5')	5.0	Saturated	9/25/2020	Fill	<1	<25.0	<25.0	<25.0	3.7	1.4	1.6	<0.010	<1.1
P-1 (9')	9.0	Saturated	9/25/2020	Native	<1	<25.0	<25.0	<25.0	4.5	2.3	<0.67	<0.011	<1.2
P-2 (2')	2.0	Unsaturated	9/25/2020	Fill	<1	59.4	126	*2,670*	72.8	11.6	19.3	0.031	17.8
P-2A (2)	2.0	Unsaturated	11/6/2023	Native	<1	<22.2	102	52.3J	--	--	--	--	--
P-2A (4)	4.0	Saturated	11/6/2023	Native	<1	<15.1	<21.5	<16.0	--	--	--	--	--
P-2 (5')	5.0	Saturated	9/25/2020	Fill	<1	<25.0	<25.0	<25.0	4.9	7.9	<0.66	<0.011	<1.2
P-2 (9')	9.0	Saturated	9/25/2020	Native	<1	<25.0	<25.0	<25.0	4.0	1.4	0.77	<0.011	<1.2
P-3 (2')	2.0	Unsaturated	9/25/2020	Native	<1	<25.0	<25.0	<25.0	59.4	3.4	*67.8*	0.012	<1.0
P-3A (2)	2.0	Unsaturated	11/6/2023	Native	<1	--	--	--	--	--	*55.6*	--	--
P-3A (4)	4.0	Saturated	11/6/2023	Native	<1	--	--	--	--	--	0.97J	--	--
P-3 (5')	5.0	Unsaturated	9/25/2020	Native	<1	<25.0	<25.0	<25.0	14.9	3.1	1.8	<0.0096	<1.2
P-3 (9')	9.0	Saturated	9/25/2020	Native	<1	<25.0	<25.0	<25.0	5.5	2.0	1.5	<0.010	<1.4
P-4 (2)	2.0	Unsaturated	11/6/2023	Native	<1	<20.0	222	<21.2	--	--	--	--	--
P-4 (4)	4.0	Saturated	11/6/2023	Native	<1	<15.9	<22.7	<16.9	--	--	--	--	--
P-5 (2)	2.0	Unsaturated	11/6/2023	Native	<1	<18.2	30.5J	<19.2	--	--	--	--	--
P-5 (4)	4.0	Saturated	11/6/2023	Native	<1	<12.9	<18.5	<13.7	--	--	--	--	--
P-6 (2)	2.0	Unsaturated	11/6/2023	Native	<1	<17.3	27.9J	<18.4	--	--	--	--	--
P-6 (4)	4.0	Saturated	11/6/2023	Native	<1	<15.5	<22.2	<16.4	--	--	--	--	--
P-7 (2)	2.0	Unsaturated	11/6/2023	Native	<1	<17.9	<25.5	<18.9	--	--	--	--	--
P-7 (4)	4.0	Saturated	11/6/2023	Native	<1	<16.2	<23.1	<17.2	--	--	--	--	--
P-8 (2)	2.0	Unsaturated	11/6/2023	Native	<1	--	--	--	--	--	*138*	--	--
P-8 (4)	4.0	Saturated	11/6/2023	Native	<1	--	--	--	--	--	0.84J	--	--
P-9 (2)	2.0	Unsaturated	11/6/2023	Native	<1	--	--	--	--	--	*64.1*	--	--
P-9 (4)	4.0	Saturated	11/6/2023	Native	<1	--	--	--	--	--	0.99J	--	--
P-10 (2)	2.0	Unsaturated	11/6/2023	Native	<1	--	--	--	--	--	18.6	--	--
P-10 (4)	4.0	Saturated	11/6/2023	Native	<1	--	--	--	--	--	0.74J	--	--
P-11 (2)	2.0	Unsaturated	11/6/2023	Native	<1	--	--	--	--	--	26.7	--	--
P-11 (4)	4.0	Saturated	11/6/2023	Native	<1	--	--	--	--	--	7.7	--	--

Notes:
VOCs = Volatile Organic Compounds, Analyzed using United States Environmental Protection Agency (USEPA) Method 8260B
DRO= Diesel Range Organics
PID = Photoionization Detector
ppmv = parts per million by volume
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram

[1] Non-Industrial Residual Contaminant Levels (RCLs) for Direct Contact per Soil Residual Contaminant Level Determinations Using the USEPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (WDNR spreadsheet input parameters updated December 2018).

[2] Industrial RCLs for Direct Contact per Soil Residual Contaminant Level Determinations Using the USEPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (WDNR spreadsheet input parameters updated December 2018).

[3] Protection of Groundwater RCLs per Soil Residual Contaminant Level Determinations Using the USEPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (WDNR spreadsheet input parameters updated December 2018).

[4] Wisconsin Department of Natural Resources Statewide Background Threshold Value, July 2015

XX.XX Bold and brown = Exceeds Non-Industrial Direct Contact RCL
XX.XX Underlined and pink = Exceeds Industrial Direct Contact RCL
XX.XX Italicized and blue = Exceeds Soil to Groundwater Pathway RCL
J = Estimated concentration at or above the limit of detection (LOD) and below the limit of quantitation (LOQ)
-- Dashed lines = No established standard or sample not analyzed

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name BKC Construction LLC
2. Generator Mailing Address 4910 Silver Morning Ln
   La Crosse, WI 54601
3. Facility Address (site of waste generation) Whitehall Public Library
4. Generator City La Crosse
5. Generator State/Zip WI 54601
6. General Contact Person Kaleb Christian
   Phone # and email 608-780-1811 kaleb@bkcconstruction.com
7. Technical Contact Person Kaleb Christian
   Phone # and email 608-780-1811 kaleb@bkcconstruction.com

---

1. Name of Waste Arsenic Soil
2. Process Generating Waste Soil Correction
3. Waste Color Brown
4. Waste Odor X None ____ Mild ____ Strong
5. Physical State ____ None ____ Liquid ____ Semi-Solid Other Solid
6. Free Liquids ____ Yes ____ % X No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A____
8. Flash Point (cc) X None ____<140F ____140-199F ____>200
9. a. Waste Composition:

	Range
	____ to ____%
	____ to ____%
	____ to ____%
	____ to ____%
	____ to ____%

b. Does Waste Contain	Yes	No	Do Not Know
PCBS		X	
Cyanide		X	
Sulfide		X	
Phenol		X	
Chlorinated Solvents		X	
Aromatic Solvents		X	

10. Analytical Laboratory CT Laboratories
11. Date of Analysis 02.14.2024

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes X No
Tank interiors _____Yes X No
Vehicle types n/a

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck X Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units estimated 450 tons

   ☑ One-time Disposal
   ☐ On-going Disposal

   Frequency _____

3. Hauler Name and Address BKC Construction LLC
   4910 Silver Morning Ln
   La Crosse, WI 54601

4. Bill to Name and Address BKC Construction LLC
   4910 Silver Morning Ln
   La Crosse, WI 54601

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title John Warnecke /	2/20/2024	

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature Kaleb Christian

10. Title Managing Member

11. Name (Type or print) Kaleb Christian

12. Date 02.16.2024

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608 -356-2760 • www.ctlaboratories.com

ANALYTICAL REPORT

BKC CONSTRUCTION
KALEB CHRISTIAN
4910 SILVER MORNING LN
LA CROSSE, WI 54601

Copy: KALEB@BKCCONSTRUCTION.COM

Project Name: WHITEHALL PUBLIC LIBRARY
Project Phase:
Contract #: 3089
Project #:
Folder #: 183999
Purchase Order #:

Arrival Temperature: See COC
Report Date: 2/15/2024
Date Received: 2/12/2024
Reprint Date: 2/15/2024

CT LAB Sample#: 1422821 Sample Description: AREA B Sampled: 2/9/2024 09:30

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
TCLP Arsenic	<0.0077	mg/L	0.0077	0.04	1		2/13/2024 10:38	2/14/2024 15:56	NAH	EPA 6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 289
Louisiana NELAP (primary) ID# 115843
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01

Form #FPM3-04 Rev. 09/2020

CHAIN OF CUSTODY

Page _____ of _____

Company: BKC Construction LLC
Project Contact: Kaleb Christian
Telephone: 608 780 1811
Project Name: Whitehall Public Library
Project #:
Location: Whitehall, WI
Sampled By: Kaleb Christian

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Folder #: 183999
Company: GENERAL MISC
Project: BKC CONTRUSCTION
Logged By: erc PM: ETK

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: kaleb@bkcconstruction.com
Company:
Address:

Invoice To:*
EMAIL: steve@bkcconstruction.com
Company: BKC Construction
Address: 4910 Silver Maples Ln, La Crosse, WI 54601

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	TCLP As	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
2/9	9:30 AM			1	Area B					
				2	Area B1 HOLD					

Fill in Spaces with Bottles per Test

Turnaround Time
Normal (RUSH)*
Date Needed: 2/13/24
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Relinquished By:	Date/Time	Received By:	Date/Time
Kaleb Christian	2/9/24 11:20 AM		
Received by:	Date/Time	Received for Laboratory by:	Date/Time

Lab Use Only
Ice Present Yes (No)
Obs. Temp _____ IR Gun
Act. Temp _____ Cooler _____

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608 -356-2760 • www.ctlaboratories.com

ANALYTICAL REPORT

BKC CONSTRUCTION
KALEB CHRISTIAN
4910 SILVER MORNING LN
LACROSSE, WI 54601

Copy: KALEB@BKCCONSTRUCTION.COM

Project Name: WHITEHALL PUBLIC LIBRARY
Project Phase:
Contract #: 3089
Project #:
Folder #: 184125
Purchase Order #:

Arrival Temperature: See COC
Report Date: 2/20/2024
Date Received: 2/16/2024
Reprint Date: 2/20/2024

CT LAB Sample#: 1424360 Sample Description: AREA B Sampled: 2/9/2024 09:30

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
#200 Sieve	**0.8**	%Passing			1			2/16/2024	BMM	ASTM D421-85

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 289
Louisiana NELAP (primary) ID# 115843
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01

Form #FPM3-04 Rev. 09/2020

CHAIN OF CUSTODY

Page _____ of _____

Company: BKC Construction LLC
Project Contact: Kaleb Christian
Telephone: 608 780 1811
Project Name: Whitehall Public Library
Project #:
Location: Whitehall, WI
Sampled By: Kaleb Christian

CT LABORATORIES
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Folder #: 183999
Company: GENERAL M
Project: BKC CONTRI
Logged By: erc P

Folder #: 184125
Company: GENERAL MISC
Project: BKC CONSTRUCTION
Logged By: erc PM: ETK

NPDES _____

Report To:
EMAIL: kaleb@bkcconstruction.com
Company:
Address:

Invoice To:*
EMAIL: steve@bkcconstruction.com
Company: BKC Construction
Address: 4910 Silver Maples Ln, La Crosse, WI 54601

*responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	TCLP As	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
2/9	9:30 AM			1	Area B					142821 / 142360
				2	Area B1 HOLD					

ANALYSES REQUESTED
Fill in Spaces with Bottles per Test

Turnaround Time
Normal (USH)
Date Needed: 2/13/24
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Relinquished By:	Date/Time	Received By:	Date/Time
Kaleb Christian	2/9/24 11:20 AM		2/9/24 9:10
Received by:	Date/Time	Received for Laboratory by:	Date/Time
			2/9/24 832

Lab Use Only
Ice Present Yes (No)
Obs. Temp Ambient IR Gun ____
Act. Temp ____ Cooler ____

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Kwik Trip, Inc.
2. Generator Mailing Address 1626 Oak Street, La Crosse, WI 54602
3. Facility Address (site of waste generation) 921 Losey Boulevard S (Kwik Trip #819)
4. Generator City La Crosse
5. Generator State/Zip WI 54601
6. General Contact Person Jason T. Powell
   Phone # and email 608.791.3482 / jtpowell@kwiktrip.com
7. Technical Contact Person same
   Phone # and email same

---

1. Name of Waste Gasoline - Impacted Soil
2. Process Generating Waste excavation during property redevelopment
3. Waste Color brown
4. Waste Odor _____None ___x___Mild _____ Strong
5. Physical State _____None _____Liquid ___x___ Semi-Solid Other_____
6. Free Liquids _____Yes _____% ___x___No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A_x__
8. Flash Point (cc) _____ None _____<140F _____140-199F ___x___>200
9. a. Waste Composition:

	Range
See lab report	_____ to _____%
	_____ to _____%
	_____ to _____%
	_____ to _____%
	_____ to _____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	x	_____
Cyanide	____	x	_____
Sulfide	____	x	_____
Phenol	____	x	_____
Chlorinated Solvents	____	x	_____
Aromatic Solvents	____	x	_____

10. Analytical Laboratory Pace Analytical (Sample LF-1) and Braun Intertec (P200 Analysis)
11. Date of Analysis 2/16/2024

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck __x__Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units unknown

   ☑ One-time Disposal
   ☐ On-going Disposal

   Frequency_____

3. Hauler Name and Address Concrete Solutions, Inc.
   115 Buol Road
   West Salem, WI 54669

4. Bill to Name and Address Kwik Trip, Inc.
   1626 Oak Street
   La Crosse, WI 54602 - email invoice to itscan@kwiktrip.com

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	■ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	■ Yes	☐ No
5) Signature/Title Bryce Jerke / Department Technician		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.
2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.
3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.
4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).
5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.
6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.
7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.
8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.
9. Signature Jason T. Powell - Kwik Trip, Inc (Agent)
10. Title Environmental Project Manager
11. Name (Type or print) Jason T. Powell/Kwik Trip, Inc.
12. Date 3/6/2024

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

February 19, 2024

Kevin Nestingen
Kwik Trip
1813 Kramer St
La Crosse, WI 54603

RE: Project: KT 819
Pace Project No.: 40274328

Dear Kevin Nestingen:

Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 2024. 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jason Powell, Kwik Trip

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

CERTIFICATIONS

Project: KT 819
Pace Project No.: 40274328

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: KT 819
Pace Project No.: 40274328

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40274328001	**LF-1**	Solid	02/14/24 14:30	02/15/24 08:50

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

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

SAMPLE ANALYTE COUNT

Project: KT 819
Pace Project No.: 40274328

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40274328001	**LF-1**	WI MOD GRO	EMG	12
		ASTM D2974-87	TJW	1

PASI-G = Pace Analytical Services - Green Bay

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

PROJECT NARRATIVE

Project: KT 819
Pace Project No.: 40274328

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: KWIK TRIP
Date: February 19, 2024

General Information:
1 sample was analyzed for WI MOD GRO 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 TPH GRO/PVOC WI ext. 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.

Surrogates:
All surrogates were within QC limits 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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: KT 819
Pace Project No.: 40274328

Sample: LF-1 **Lab ID: 40274328001** Collected: 02/14/24 14:30 Received: 02/15/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
	Pace Analytical Services - Green Bay								
Benzene	**<31.6**	ug/kg	63.2	31.6	1	02/16/24 07:30	02/16/24 16:30	71-43-2	
Ethylbenzene	**98.6**	ug/kg	63.2	31.6	1	02/16/24 07:30	02/16/24 16:30	100-41-4	
Gasoline Range Organics	**12.8**	mg/kg	3.2	1.6	1	02/16/24 07:30	02/16/24 16:30		GO
Methyl-tert-butyl ether	**<31.6**	ug/kg	63.2	31.6	1	02/16/24 07:30	02/16/24 16:30	1634-04-4	
Naphthalene	**258**	ug/kg	63.2	31.6	1	02/16/24 07:30	02/16/24 16:30	91-20-3	
Toluene	**171**	ug/kg	63.2	31.6	1	02/16/24 07:30	02/16/24 16:30	108-88-3	
1,2,4-Trimethylbenzene	**461**	ug/kg	63.2	31.6	1	02/16/24 07:30	02/16/24 16:30	95-63-6	
1,3,5-Trimethylbenzene	**387**	ug/kg	63.2	31.6	1	02/16/24 07:30	02/16/24 16:30	108-67-8	
Xylene (Total)	**792**	ug/kg	190	94.8	1	02/16/24 07:30	02/16/24 16:30	1330-20-7	
m&p-Xylene	**418**	ug/kg	126	63.2	1	02/16/24 07:30	02/16/24 16:30	179601-23-1	
o-Xylene	**374**	ug/kg	63.2	31.6	1	02/16/24 07:30	02/16/24 16:30	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	02/16/24 07:30	02/16/24 16:30	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Green Bay								
Percent Moisture	**19.2**	%	0.10	0.10	1		02/15/24 13:10		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: KT 819
Pace Project No.: 40274328

QC Batch: 467251
QC Batch Method: TPH GRO/PVOC WI ext.
Analysis Method: WI MOD GRO
Analysis Description: WIGRO Solid GCV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40274328001

METHOD BLANK: 2677704 Matrix: Solid
Associated Lab Samples: 40274328001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	02/16/24 09:10	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	02/16/24 09:10	
Benzene	ug/kg	<25.0	50.0	02/16/24 09:10	
Ethylbenzene	ug/kg	<25.0	50.0	02/16/24 09:10	
Gasoline Range Organics	mg/kg	<1.2	2.5	02/16/24 09:10	
m&p-Xylene	ug/kg	<50.0	100	02/16/24 09:10	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	02/16/24 09:10	
Naphthalene	ug/kg	<25.0	50.0	02/16/24 09:10	
o-Xylene	ug/kg	<25.0	50.0	02/16/24 09:10	
Toluene	ug/kg	<25.0	50.0	02/16/24 09:10	
Xylene (Total)	ug/kg	<75.0	150	02/16/24 09:10	
a,a,a-Trifluorotoluene (S)	%	100	80-120	02/16/24 09:10	

LABORATORY CONTROL SAMPLE & LCSD: 2677705 2677706

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1050	1050	105	105	80-120	1	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1030	1020	103	102	80-120	1	20	
Benzene	ug/kg	1000	1100	1080	110	108	80-120	2	20	
Ethylbenzene	ug/kg	1000	1050	1050	105	105	80-120	0	20	
Gasoline Range Organics	mg/kg	10	11.0	11.0	110	110	80-120	0	20	
m&p-Xylene	ug/kg	2000	2100	2100	105	105	80-120	0	20	
Methyl-tert-butyl ether	ug/kg	1000	1070	1060	107	106	80-120	1	20	
Naphthalene	ug/kg	1000	1070	1070	107	107	80-120	0	20	
o-Xylene	ug/kg	1000	1060	1050	106	105	80-120	1	20	
Toluene	ug/kg	1000	1080	1050	108	105	80-120	3	20	
Xylene (Total)	ug/kg	3000	3160	3150	105	105	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				103	101	80-120			

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.

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QUALITY CONTROL DATA

Project: KT 819
Pace Project No.: 40274328

QC Batch: 467213
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40274328001

SAMPLE DUPLICATE: 2677588

Parameter	Units	40274351001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.9	21.7	1	10	

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.

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QUALIFIERS

Project: KT 819
Pace Project No.: 40274328

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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.

ANALYTE QUALIFIERS

GO Early and late peaks present outside the GRO window.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KT 819
Pace Project No.: 40274328

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40274328001	**LF-1**	TPH GRO/PVOC WI ext.	467251	WI MOD GRO	467252
40274328001	**LF-1**	ASTM D2974-87	467213		

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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: 40274328

ALL SHADED AREAS are for LAB USE ONLY

Company: Kwik Trip, Inc.	Billing Information: Kwik Trip, Inc
Address:	
Report To: Jason Powell	Email To: jtpowell@kwiktrip.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: KT 819	State: WI County/City: Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: 608-791-3482 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Powell	Purchase Order #: M797452678 Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): T. Powell	Turnaround Date Required: Immediately Packed on Ice: [✓] Yes [ ] No
Sample Disposal: [✓] 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 [ ] No Analysis:

Container Preservative Type **: 6 | u

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 _____

Analyses: GRO/PVOC + Naph; % Solid

Lab Profile/Line:

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:

* 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	GRO/PVOC + Naph	% Solid	Lab Sample # / Comments
LF-1	SL	G	2-14-24	2:30PM					✓	✓	001

Customer Remarks / Special Conditions / Possible Hazards:

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 #: 2896762

Samples received via: FEDEX UPS Client Courier Pace Courier

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
T. Powell - KwikTrip	2-14-24 3:00P.M.		
Ted Ex	02/15/24 0850	[signature] Pace	02/15/24 0850
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

Page: ____ of: ____

Client Name: Kwik Trip

Sample Preservation Receipt Form

Project # 40274328

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☑N/A

Lab Lot# of pH paper

Lab Std #ID of preservation (if pH adjusted)

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	Initial when completed: H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	Date/Time: pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001																		1					1										2.5 / 5
002																																	2.5 / 5
003																																	2.5 / 5
004																																	2.5 / 5
005																																	2.5 / 5
006																																	2.5 / 5
007																																	2.5 / 5
008																																	2.5 / 5
009																																	2.5 / 5
010																																	2.5 / 5
011																																	2.5 / 5
012																																	2.5 / 5
013																																	2.5 / 5
014																																	2.5 / 5
015																																	2.5 / 5
016																																	2.5 / 5
017																																	2.5 / 5
018																																	2.5 / 5
019																																	2.5 / 5
020																														12/15/24	8W		2.5 / 5

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	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40274328

40274328

Client Name: Kwik Trip

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

Tracking #: 8162 7257 6931

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 - 137 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr. 1.0 /Corr: 1.0

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

Person examining contents: Date: 02/15/24 /Initials: SKW

Labeled By Initials: TJW

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. 4CC 02/15/24 SKW
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. Pg # 02/15/24 SKW
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.
- DI 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.
Correct Type: ~~Pace Green Bay~~, Pace IR, Non-Pace		
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: S	☐Yes ☑No ☐N/A	12. WPFU No date & time. VG9M collect date 2-13-24 and no time. 02/15/24 SKW
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 logi

Page 2 of 2

From: Wright, Brandon
To: Jason Powell
Subject: [EXTERNAL] Store #819 - P200
Date: Wednesday, February 21, 2024 9:01:46 PM
Attachments: image001.png

This Message Is From an External Sender
This message came from outside your organization.

Jason,

We completed the P200 test for Store #819. The result is 5.7% passing the #200 sieve, so it technically classifies as Poorly Graded Sand with Silt (SP-SM).

Thank you,
Brandon

Brandon Wright, PE (WI, MN, IA)
Technical Manager | Senior Engineer
2309 Palace Street | La Crosse, Wisconsin 54603
608.781.7277 office | 608.399.4148 mobile
BWright@braunintertec.com
braunintertec.com | Twitter: Braun Intertec | LinkedIn: Braun Intertec

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Kwik Trip, Inc.
2. Generator Mailing Address 1626 Oak Street, La Crosse, WI 54602
3. Facility Address (site of waste generation) 530 West Avenue N (Kwik Trip #624)
4. Generator City La Crosse
5. Generator State/Zip WI 54601
6. General Contact Person Jason T. Powell
   Phone # and email 608.791.3482 / jtpowell@kwiktrip.com
7. Technical Contact Person same
   Phone # and email same

---

1. Name of Waste Gasoline - Impacted Soil
2. Process Generating Waste excavation during property redevelopment
3. Waste Color tan to brown
4. Waste Odor _____None ___x___Mild _____ Strong
5. Physical State _____None _____Liquid ___x___ Semi-Solid Other_____
6. Free Liquids _____Yes _____% ___x___No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A_x__
8. Flash Point (cc) _____ None _____<140F _____140-199F __x__>200
9. a. Waste Composition:

	Range
See lab report	_____ to _____%
	_____ to _____%
	_____ to _____%
	_____ to _____%
	_____ to _____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	x	_____
Cyanide	____	x	_____
Sulfide	____	x	_____
Phenol	____	x	_____
Chlorinated Solvents	____	x	_____
Aromatic Solvents	____	x	_____

10. Analytical Laboratory Pace Analytical (Sample LF-2) and Braun Intertec (P200 Analysis)
11. Date of Analysis 7/11/2024 & 7/2/2024

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck __x__Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units unknown

   ☑ One-time Disposal
   ☐ On-going Disposal

   Frequency_____

3. Hauler Name and Address Concrete Solutions, Inc.
   115 Buol Road
   West Salem, WI 54669

4. Bill to Name and Address Kwik Trip, Inc.
   1626 Oak Street
   La Crosse, WI 54602 - email invoice to itscan@kwiktrip.com

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	■ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	■ Yes	☐ No
5) Signature/Title John Warnecke / Department Technician		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature Jason Powell

10. Title Environmental Project Manager

11. Name (Type or print) Jason T. Powell/Kwik Trip, Inc.

12. Date 7/12/2024

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

July 11, 2024

Kevin Nestingen
Kwik Trip
1813 Kramer St
La Crosse, WI 54603

RE: Project: KT #624
Pace Project No.: 40280821

Dear Kevin Nestingen:

Enclosed are the analytical results for sample(s) received by the laboratory on July 10, 2024. 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jason Powell, Kwik Trip

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CERTIFICATIONS

Project: KT #624
Pace Project No.: 40280821

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: KT #624
Pace Project No.: 40280821

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40280821001	**LF-2**	Solid	07/09/24 14:15	07/10/24 09:50

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SAMPLE ANALYTE COUNT

Project: KT #624
Pace Project No.: 40280821

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40280821001	**LF-2**	WI MOD GRO	EMG	12
		ASTM D2974-87	MYH	1

PASI-G = Pace Analytical Services - Green Bay

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PROJECT NARRATIVE

Project: KT #624
Pace Project No.: 40280821

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: KWIK TRIP
Date: July 11, 2024

General Information:
1 sample was analyzed for WI MOD GRO 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 TPH GRO/PVOC WI ext. 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.

Surrogates:
All surrogates were within QC limits 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.

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

ANALYTICAL RESULTS

Project: KT #624
Pace Project No.: 40280821

Sample: LF-2 **Lab ID: 40280821001** Collected: 07/09/24 14:15 Received: 07/10/24 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
	Pace Analytical Services - Green Bay								
Benzene	**<29.4**	ug/kg	58.8	29.4	1	07/10/24 11:20	07/10/24 13:03	71-43-2	
Ethylbenzene	**47.9J**	ug/kg	58.8	29.4	1	07/10/24 11:20	07/10/24 13:03	100-41-4	
Gasoline Range Organics	**1.8J**	mg/kg	2.9	1.5	1	07/10/24 11:20	07/10/24 13:03		G+
Methyl-tert-butyl ether	**<29.4**	ug/kg	58.8	29.4	1	07/10/24 11:20	07/10/24 13:03	1634-04-4	
Naphthalene	**60.9**	ug/kg	58.8	29.4	1	07/10/24 11:20	07/10/24 13:03	91-20-3	
Toluene	**142**	ug/kg	58.8	29.4	1	07/10/24 11:20	07/10/24 13:03	108-88-3	
1,2,4-Trimethylbenzene	**131**	ug/kg	58.8	29.4	1	07/10/24 11:20	07/10/24 13:03	95-63-6	
1,3,5-Trimethylbenzene	**<29.4**	ug/kg	58.8	29.4	1	07/10/24 11:20	07/10/24 13:03	108-67-8	
Xylene (Total)	**247**	ug/kg	176	88.2	1	07/10/24 11:20	07/10/24 13:03	1330-20-7	
m&p-Xylene	**166**	ug/kg	118	58.8	1	07/10/24 11:20	07/10/24 13:03	179601-23-1	
o-Xylene	**80.4**	ug/kg	58.8	29.4	1	07/10/24 11:20	07/10/24 13:03	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	96	%	80-120		1	07/10/24 11:20	07/10/24 13:03	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Green Bay								
Percent Moisture	**15.0**	%	0.10	0.10	1		07/10/24 14:04		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KT #624
Pace Project No.: 40280821

QC Batch: 479155
QC Batch Method: TPH GRO/PVOC WI ext.
Analysis Method: WI MOD GRO
Analysis Description: WIGRO Solid GCV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40280821001

METHOD BLANK: 2743919 Matrix: Solid
Associated Lab Samples: 40280821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	07/10/24 10:55	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	07/10/24 10:55	
Benzene	ug/kg	<25.0	50.0	07/10/24 10:55	
Ethylbenzene	ug/kg	<25.0	50.0	07/10/24 10:55	
Gasoline Range Organics	mg/kg	<1.2	2.5	07/10/24 10:55	
m&p-Xylene	ug/kg	<50.0	100	07/10/24 10:55	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	07/10/24 10:55	
Naphthalene	ug/kg	<25.0	50.0	07/10/24 10:55	
o-Xylene	ug/kg	<25.0	50.0	07/10/24 10:55	
Toluene	ug/kg	<25.0	50.0	07/10/24 10:55	
Xylene (Total)	ug/kg	<75.0	150	07/10/24 10:55	
a,a,a-Trifluorotoluene (S)	%	94	80-120	07/10/24 10:55	

LABORATORY CONTROL SAMPLE & LCSD: 2743920 2743921

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	965	981	97	98	80-120	2	20	
1,3,5-Trimethylbenzene	ug/kg	1000	938	952	94	95	80-120	1	20	
Benzene	ug/kg	1000	999	1030	100	103	80-120	3	20	
Ethylbenzene	ug/kg	1000	961	973	96	97	80-120	1	20	
Gasoline Range Organics	mg/kg	10	10.1	9.4	101	94	80-120	7	20	
m&p-Xylene	ug/kg	2000	1910	1920	95	96	80-120	1	20	
Methyl-tert-butyl ether	ug/kg	1000	1040	1100	104	110	80-120	5	20	
Naphthalene	ug/kg	1000	961	1020	96	102	80-120	6	20	
o-Xylene	ug/kg	1000	966	970	97	97	80-120	0	20	
Toluene	ug/kg	1000	975	995	98	100	80-120	2	20	
Xylene (Total)	ug/kg	3000	2880	2890	96	96	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				93	93	80-120			

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

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QUALITY CONTROL DATA

Project: KT #624
Pace Project No.: 40280821

QC Batch: 479204
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40280821001

SAMPLE DUPLICATE: 2744306

Parameter	Units	40280748003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.5	5.7	4	10	

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.

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(920)469-2436

QUALIFIERS

Project: KT #624
Pace Project No.: 40280821

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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.

ANALYTE QUALIFIERS

G+ Late peaks present outside the GRO window.

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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KT #624
Pace Project No.: 40280821

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40280821001	**LF-2**	TPH GRO/PVOC WI ext.	479155	WI MOD GRO	479164
40280821001	**LF-2**	ASTM D2974-87	479204		

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CHAIN-OF-CUSTODY Analytical Request Document

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: 40280821

ALL SHADED AREAS are for LAB USE ONLY

Company: Kwik Trip, Inc.	Billing Information: Kwik Trip, Inc.
Address:	
Report To: Jason Powell	Email To: jtpowell@kwiktrip.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: KT # 624	State: WI County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 608 791-3482 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Powell	Purchase Order #: M297478142 Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Jason Powell	Turnaround Date Required: * 7/11/24 Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [X] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **: 6 U

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 _____

Analyses: 6200 / PVOC + Naph; 8015 Sim

Lab Profile/Line:

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:

* 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	Lab Sample # / Comments
LF-2	S	G	7/9/24	2:15P				2	001

Customer Remarks / Special Conditions / Possible Hazards: "Rush"

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 #: 2947530

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: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
T. Powell Kwik Trip, Inc.	7/9/24 3:00PM		
Fedex	7/10/24 0950	[signature]	7/10/24 0950

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

Page: ____ of: ____

Pace Analytical, LLC
1800 Elm Street SE
Minneapolis, MN 55414
Phone: 612-607-6400

Pace Analytical®

Instructions for completing Chain of Custody (COC)

1. Complete all client information at the top left of the sheet: Company name, address, phone/fax, contact (the person to contact if there are questions, and who will receive the final report), e-mail address (if available), PO#, Project Name and/or Project Number as you would like it to appear on the report.

2. Billing Information: name and address of the person who is receiving the invoice

3. Site Collection Information: A separate COC must be filled out for each day of sample collection. Record the 2 letter postal code for the US state where samples were collected as well as the county/city and time zone.

4. Regulatory Agency: List the program that is guiding the work to ensure proper regulations are followed in the customer remarks section.

5. Quote #: should be completed if a quote was provided by Pace Analytical.

6. Mark if the sample was filtered in the in the field by marking Y or N in the "Field Filtered" box.

7. The sampler should print and sign their name in the spaces provided.

8. Complete a sample description in the CUSTOMER SAMPLE ID section as you would l ke it to appear on the laboratory report. Include: sample matrix, sample type (G (grab) or C (composite)). When collecting a composite, the start time and end time should be documented in the respective boxes. Also record the sample temp at collection (if required by state), the total number of containers, and preservative used.

9. Requested Analysis: List required analysis and methods on the lines provided and place a check mark in the column for the samples requiring the analysis. Additional comments should be referenced in the Customer Remarks section or included in attachments for extended lists of parameters.

10. Relinquishing custody of the samples: sign relinquished by, date and time, and include you affiliation.

***Important Note:**
Standard Turnaround Time is 2 Weeks/10 business days. Results will be delivered by end of business on the date due unless other arrangements have been made with your project manager.

Special Project Requirements such as Low Level Detection or level of QC reported must be included on the chain of custody in the Customer Remarks box.

If you have additional questions about how to complete the Chain of Custody (COC) please contact a Pace Project Manager

Sample Preservation Receipt Form

Client Name: Kwik Trip Project # 40280821

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

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

	Glass							Plastic						Vials						Jars				General								
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		1					1										2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007		7/10/24																																2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010		GF																																2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

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	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40280821

40280821

Client Name: Kwik Trip

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

Tracking #: 8161 1222 3232

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 - 130 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 2.5 /Corr: 2.5

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

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

Person examining contents:
Date: 7/10/24 /Initials: GF

Labeled By Initials: SKW

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
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.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr): 7/10/24 GF	☑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.
Correct Type: (Pace Green Bay) Pace IR, Non-Pace		
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. plastic no date/time
-Includes date/time/ID/Analysis Matrix: S		7/10/24 GF
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 logi

Jackie Davis

From: Wright, Brandon <bwright@braunintertec.com>
Sent: Tuesday, July 2, 2024 8:28 AM
To: Jason Powell
Subject: [EXTERNAL] P200 for Store #624

Jason,

The P200 results for the sample you dropped off last week was 15%, indicating the sample classifies as a silty sand (SM).

Thank you,
Brandon

BRAUN INTERTEC
The Science You Build On.

Brandon Wright, PE*
Senior Manager | Senior Engineer
2309 Palace Street | La Crosse, Wisconsin 54603
608.781.7277 office | 608.399.4148 mobile
**Licensed in WI, MN, IA*
BWright@braunintertec.com

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Kwik Trip, Inc.
2. Generator Mailing Address 1626 Oak Street, La Crosse, WI 54602
3. Facility Address (site of waste generation) 375 Cottonwood Dr (Kwik Trip #654)
4. Generator City Winona
5. Generator State/Zip Minnesota
6. General Contact Person Jason Powell
   Phone # and email (608) 791-3482, jtpowell@kwiktrip.com
7. Technical Contact Person same
   Phone # and email same

---

1. Name of Waste Gasoline Contaminated Soil
2. Process Generating Waste Excavation during tank upgrade project
3. Waste Color brown
4. Waste Odor _____None ___x___Mild _____ Strong
5. Physical State _____None _____Liquid ___x___ Semi-Solid Other_____
6. Free Liquids _____Yes _____% ___x___No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A_x__
8. Flash Point (cc) _____ None _____<140F _____140-199F ___x___>200
9. a. Waste Composition:

	Range
see lab report	_____ to _____%
	_____ to _____%
	_____ to _____%
	_____ to _____%
	_____ to _____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	x	_____
Cyanide	____	x	_____
Sulfide	____	x	_____
Phenol	____	x	_____
Chlorinated Solvents	____	x	_____
Aromatic Solvents	____	x	_____

10. Analytical Laboratory Pace Analytical Services
11. Date of Analysis 5/15/2024

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes __x__No
Tank interiors _____Yes __x__No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck __x__Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units unknown

   ☑ One-time Disposal
   ☐ On-going Disposal

   Frequency_____

3. Hauler Name and Address Concrete Solutions

4. Bill to Name and Address Kwik Trip, Inc.
   1626 Oak Street
   La Crosse, WI 54602 - email invoices to itscan@kwiktrip.com

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title Bryce Gorke /		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature Jason Powell

10. Title Environmental Project Manager

11. Name (Type or print) Jason T. Powell / Kwik Trip, Inc.

12. Date 8/20/2024

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

May 15, 2024

Jason Powell
Kwik Trip
1813 Kramer St
La Crosse, WI 54603

RE: Project: KT 654
Pace Project No.: 40278049

Dear Jason Powell:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 2024. 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kevin Nestingen, Kwik Trip

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CERTIFICATIONS

Project: KT 654
Pace Project No.: 40278049

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

SAMPLE SUMMARY

Project: KT 654
Pace Project No.: 40278049

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40278049001	**LF-1**	Solid	05/07/24 13:00	05/09/24 10:20

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SAMPLE ANALYTE COUNT

Project: KT 654
Pace Project No.: 40278049

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40278049001	**LF-1**	WI MOD GRO	EMG	12
		ASTM D2974-87	NMK	1

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: KT 654
Pace Project No.: 40278049

Sample: LF-1 **Lab ID: 40278049001** Collected: 05/07/24 13:00 Received: 05/09/24 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
	Pace Analytical Services - Green Bay								
Benzene	**<38.1**	ug/kg	76.1	38.1	1	05/10/24 08:50	05/13/24 13:43	71-43-2	
Ethylbenzene	**64.2J**	ug/kg	76.1	38.1	1	05/10/24 08:50	05/13/24 13:43	100-41-4	
Gasoline Range Organics	**12.5**	mg/kg	3.8	1.9	1	05/10/24 08:50	05/10/24 21:47		1q,GO
Methyl-tert-butyl ether	**<38.1**	ug/kg	76.1	38.1	1	05/10/24 08:50	05/13/24 13:43	1634-04-4	
Naphthalene	**268**	ug/kg	76.1	38.1	1	05/10/24 08:50	05/13/24 13:43	91-20-3	
Toluene	**198**	ug/kg	76.1	38.1	1	05/10/24 08:50	05/13/24 13:43	108-88-3	
1,2,4-Trimethylbenzene	**205**	ug/kg	76.1	38.1	1	05/10/24 08:50	05/13/24 13:43	95-63-6	
1,3,5-Trimethylbenzene	**124**	ug/kg	76.1	38.1	1	05/10/24 08:50	05/13/24 13:43	108-67-8	
Xylene (Total)	**412**	ug/kg	228	114	1	05/10/24 08:50	05/13/24 13:43	1330-20-7	
m&p-Xylene	**241**	ug/kg	152	76.1	1	05/10/24 08:50	05/13/24 13:43	179601-23-1	
o-Xylene	**171**	ug/kg	76.1	38.1	1	05/10/24 08:50	05/13/24 13:43	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	05/10/24 08:50	05/13/24 13:43	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Green Bay								
Percent Moisture	**34.3**	%	0.10	0.10	1		05/09/24 16:06		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KT 654
Pace Project No.: 40278049

QC Batch: 474067
QC Batch Method: TPH GRO/PVOC WI ext.
Analysis Method: WI MOD GRO
Analysis Description: WIGRO Solid GCV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40278049001

METHOD BLANK: 2714660 Matrix: Solid
Associated Lab Samples: 40278049001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	25.0	05/13/24 09:25	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	25.0	05/13/24 09:25	
Benzene	ug/kg	<25.0	50.0	25.0	05/13/24 09:25	
Ethylbenzene	ug/kg	<25.0	50.0	25.0	05/13/24 09:25	
Gasoline Range Organics	mg/kg	<1.2	2.5	1.2	05/10/24 17:03	
m&p-Xylene	ug/kg	<50.0	100	50.0	05/13/24 09:25	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	25.0	05/13/24 09:25	
Naphthalene	ug/kg	<25.0	50.0	25.0	05/13/24 09:25	
o-Xylene	ug/kg	<25.0	50.0	25.0	05/13/24 09:25	
Toluene	ug/kg	<25.0	50.0	25.0	05/13/24 09:25	
Xylene (Total)	ug/kg	<75.0	150	75.0	05/13/24 09:25	
a,a,a-Trifluorotoluene (S)	%	101	80-120		05/13/24 09:25	

LABORATORY CONTROL SAMPLE & LCSD: 2714661 2714662

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	986	1000	99	100	80-120	2	20	
1,3,5-Trimethylbenzene	ug/kg	1000	961	981	96	98	80-120	2	20	
Benzene	ug/kg	1000	1040	1040	104	104	80-120	0	20	
Ethylbenzene	ug/kg	1000	1010	1020	101	102	80-120	1	20	
Gasoline Range Organics	mg/kg	10	10.2	11.0	102	110	80-120	7	20	
m&p-Xylene	ug/kg	2000	1990	2030	100	102	80-120	2	20	
Methyl-tert-butyl ether	ug/kg	1000	1080	1020	108	102	80-120	5	20	
Naphthalene	ug/kg	1000	1030	1050	103	105	80-120	2	20	
o-Xylene	ug/kg	1000	998	1020	100	102	80-120	3	20	
Toluene	ug/kg	1000	1020	1020	102	102	80-120	0	20	
Xylene (Total)	ug/kg	3000	2990	3060	100	102	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				102	98	80-120			

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

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QUALITY CONTROL DATA

Project: KT 654
Pace Project No.: 40278049

QC Batch: 474038
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40278049001

SAMPLE DUPLICATE: 2714520

Parameter	Units	40278046003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	30.0	31.4	5	10	

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QUALIFIERS

Project: KT 654
Pace Project No.: 40278049

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1q	Approximately 4.707 mg/Kg of the GRO value is due to the addition of 8260 surrogate standards
GO	Early and late peaks present outside the GRO window.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KT 654
Pace Project No.: 40278049

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40278049001	**LF-1**	TPH GRO/PVOC WI ext.	474067	WI MOD GRO	474090
40278049001	**LF-1**	ASTM D2974-87	474038		

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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: 40278049

ALL SHADED AREAS are for LAB USE ONLY

Company: Kwik Trip, Inc.	Billing Information: Kwik Trip, Inc
Address:	
Report To: Jason Powell	Email To: jtpowell@kwiktrip.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: KT 654	State: MN / County/City: / Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: 608 791-3482 Email:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Powell	Purchase Order #: M797468601 Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature): J. T. Powell	Turnaround Date Required: / Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] 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 [ ] No Analysis: _____

Container Preservative Type **: 6 | 4

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: G20 / Purg + Nap	Analyses: % Solid	Lab Profile/Line: Lab Sample # / Comments
LF-1	S	G	5/7/24	1:00P				2	✓	✓	001

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: _____			

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: 1

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

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

Lab Tracking #: 2896765

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: _____ oC
Cooler 1 Therm Corr. Factor: _____ oC
Cooler 1 Corrected Temp: _____ oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jason Powell - Kwik Trip	5/7/24 3:30P		
Fedex	5/9/24 1000	[illegible]	5/9/24 1000

MTJL LAB USE ONLY
Table #:
Acctnum:
Template: 1
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Client Name: Kwik Trip

Sample Preservation Receipt Form

Project # 40278049

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☐N/A

Lab Lot# of pH paper:

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

	Glass						Plastic						Vials						Jars				General					Initial when completed:				Date/ Time:	
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2	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
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
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014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

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
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
BP2Z	500 mL plastic NaOH + Zn

VG9C	40 mL clear ascorbic w/ HCl
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 1	
GN 2	

Sample Condition Upon Receipt Form (SCUR)

Client Name: Kwik Trip

Project #:

WO# : 40278049

40278049

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

Tracking #: 8162 7257 6920

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 - 139 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 0.5 /Corr: 1.0

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

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

Person examining contents: Date: 5/9/24 Initials: SL

Labeled By Initials: MH

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
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.
- DI 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.
Correct Type: Pace Green Bay, Pace IR, Non-Pace		
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: SL	☐Yes ☑No ☐N/A	12. No times or dates 5/9/24 SL
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 logi

Page 2 of 2

From: Wright, Brandon
To: Jason Powell
Subject: [EXTERNAL] RE: KT 654 Winona MN - P200 Sieve Sample
Date: Tuesday, May 21, 2024 3:29:52 PM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.png

This Message Is From an External Sender
This message came from outside your organization.

Hi Jason,

The P200 content for the sample you dropped off was 4.1 percent. This sample classifies as a poorly graded sand (SP).

Thank you-
Brandon Wright, PE
Braun Intertec Corporation
608.781.7277 direct | 608.399.4148 mobile
bwright@braunintertec.com

From: Jason Powell <JTPowell@kwiktrip.com>
Sent: Wednesday, May 8, 2024 11:43 AM
To: Wright, Brandon <BWright@braunintertec.com>
Subject: RE: KT 654 Winona MN - P200 Sieve Sample

Thanks Brandon. The morning has passed by for me, so I will run it over this afternoon around 3:00-3:30 PM.

Jason Powell
Environmental Project Manager 2
608-791-3482
jtpowell@kwiktrip.com

Mission Statement: *"To serve our customers and community more effectively than anyone else by treating our customers, co-workers and suppliers as we, personally, would like to be treated and to make a difference in someone's life."*

From: Wright, Brandon <BWright@braunintertec.com>
Sent: Wednesday, May 8, 2024 11:40 AM
To: Jason Powell <JTPowell@kwiktrip.com>
Subject: [EXTERNAL] RE: KT 654 Winona MN - P200 Sieve Sample

Jason,

We can do this. I'll be in and out most of the day. Someone will get it back to my desk.

Thank you-
Brandon Wright, PE
Braun Intertec Corporation
608.781.7277 direct | 608.399.4148 mobile
bwright@braunintertec.com

From: Jason Powell <JTPowell@kwiktrip.com>
Sent: Wednesday, May 8, 2024 7:54 AM
To: Wright, Brandon <BWright@braunintertec.com>
Subject: KT 654 Winona MN - P200 Sieve Sample

Brandon,

I will be dropping off a P200 Sieve sample this morning for the above location. No rush on results.

Braun PO#: M797469147

Any questions let me know.
Thanks,

Jason Powell
Environmental Project Manager 2
608-791-3482
jtpowell@kwiktrip.com

Mission Statement: *"To serve our customers and community more effectively than anyone else by treating our customers, co-workers and suppliers as we, personally, would like to be treated and to make a difference in someone's life."*

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name George Allen Construction/Amtrack Tomah, WI
2. Generator Mailing Address 121 West Washington Street, Tomah WI
3. Facility Address (site of waste generation) Same as Above
4. Generator City Tomah
5. Generator State/Zip WI 54660
6. General Contact Person Phil Lehning phil@georgeallenconstruction.com>
   Phone # and email 708-768-2646
7. Technical Contact Person Phil Lehning phil@georgeallenconstruction.com>
   Phone # and email 708-768-2646

---

1. Name of Waste Contaminated Soils
2. Process Generating Waste Excavation of Old Train Station platform
3. Waste Color Brown
4. Waste Odor X None _____ Mild _____ Strong
5. Physical State _____ None _____ Liquid _____ Semi-Solid Other SOLID
6. Free Liquids _____ Yes _____ % X No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A X
8. Flash Point (cc) X None _____<140F _____140-199F _____>200
9. a. Waste Composition:

	Range
See attached analytical report	_____ to _____%
	_____ to _____%
	_____ to _____%
	_____ to _____%
	_____ to _____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS			X
Cyanide			X
Sulfide			X
Phenol			X
Chlorinated Solvents			X
Aromatic Solvents			X

10. Analytical Laboratory Pace Analytical
11. Date of Analysis Sept 18, 2024

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No NOT APPLICABLE
Tank interiors _____Yes _____No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck x_____Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units Esttimated to be 80-100 CY

   ☑ One-time Disposal
   ☐ On-going Disposal

   Frequency_____

3. Hauler Name and Address Gerke Excavating
   15341 State Hwy 131
   Tomah, WI 54660

4. Bill to Name and Address Gerke Excavating
   15341 State Hwy 131
   Tomah, WI 54660

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	■ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	■ Yes	☐ No
5) Signature/Title John Warnecke / 9/20/2024		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☐ does not contain regulated radioactive materials and ☐ does ☐ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature Thomas Path _____

10. Title Project Manager _____

11. Name (Type or print) Thomas Path _____

12. Date 9/19/24 _____

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

September 18, 2024

John Wyciskalla
Braun Intertec Corporation
2309 Palace Street
La Crosse, WI 54603

RE: Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

Dear John Wyciskalla:

Enclosed are the analytical results for sample(s) received by the laboratory on September 13, 2024. 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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CERTIFICATIONS

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40284040001	**SP-01 (STOCK PILE)**	Solid	09/12/24 08:24	09/13/24 09:35
40284040002	**TRIP BLANK**	Solid	09/12/24 00:00	09/13/24 09:35

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SAMPLE ANALYTE COUNT

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40284040001	**SP-01 (STOCK PILE)**	WI MOD DRO	MRN	1
		EPA 6010D	SIS	7
		EPA 7471	AJT	1
		EPA 8270E by SIM	RJN	18
		EPA 8260	ALD	64
		ASTM D2974-87	GRF	1
40284040002	**TRIP BLANK**	EPA 8260	ALD	64

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40284040001	**SP-01 (STOCK PILE)**					
WI MOD DRO	Diesel Range Organics	33.8	mg/kg	4.7	09/18/24 07:25	D5,DC
EPA 6010D	Arsenic	3.5	mg/kg	2.7	09/17/24 15:53	
EPA 6010D	Barium	33.4	mg/kg	0.54	09/17/24 15:53	M0
EPA 6010D	Cadmium	0.30J	mg/kg	0.54	09/17/24 15:53	
EPA 6010D	Chromium	18.4	mg/kg	1.1	09/17/24 15:53	M0
EPA 6010D	Lead	47.3	mg/kg	2.2	09/17/24 15:53	
EPA 7471	Mercury	0.072	mg/kg	0.038	09/17/24 13:56	
EPA 8270E by SIM	Acenaphthene	0.050	mg/kg	0.018	09/16/24 18:27	
EPA 8270E by SIM	Acenaphthylene	0.037	mg/kg	0.018	09/16/24 18:27	
EPA 8270E by SIM	Anthracene	0.038	mg/kg	0.018	09/16/24 18:27	
EPA 8270E by SIM	Benzo(a)anthracene	0.11	mg/kg	0.018	09/16/24 18:27	
EPA 8270E by SIM	Benzo(a)pyrene	0.15	mg/kg	0.018	09/16/24 18:27	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.18	mg/kg	0.018	09/16/24 18:27	
EPA 8270E by SIM	Benzo(g,h,i)perylene	0.14	mg/kg	0.018	09/16/24 18:27	
EPA 8270E by SIM	Benzo(k)fluoranthene	0.091	mg/kg	0.018	09/16/24 18:27	
EPA 8270E by SIM	Chrysene	0.13	mg/kg	0.018	09/16/24 18:27	
EPA 8270E by SIM	Dibenz(a,h)anthracene	0.030	mg/kg	0.018	09/16/24 18:27	
EPA 8270E by SIM	Fluoranthene	0.19	mg/kg	0.018	09/16/24 18:27	
EPA 8270E by SIM	Fluorene	0.042	mg/kg	0.018	09/16/24 18:27	
EPA 8270E by SIM	Indeno(1,2,3-cd)pyrene	0.097	mg/kg	0.018	09/16/24 18:27	
EPA 8270E by SIM	Naphthalene	0.19	mg/kg	0.018	09/16/24 18:27	
EPA 8270E by SIM	Phenanthrene	0.23	mg/kg	0.018	09/16/24 18:27	
EPA 8270E by SIM	Pyrene	0.17	mg/kg	0.018	09/16/24 18:27	
EPA 8260	Naphthalene	0.16J	mg/kg	0.30	09/16/24 14:19	
EPA 8260	1,2,4-Trimethylbenzene	0.023J	mg/kg	0.061	09/16/24 14:19	
EPA 8260	o-Xylene	0.020J	mg/kg	0.061	09/16/24 14:19	
ASTM D2974-87	Percent Moisture	8.5	%	0.10	09/14/24 09:05	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

Sample: SP-01 (STOCK PILE) **Lab ID: 40284040001** Collected: 09/12/24 08:24 Received: 09/13/24 09:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Green Bay								
Diesel Range Organics	**33.8**	mg/kg	4.7	1.4	1	09/17/24 07:22	09/18/24 07:25		D5,DC
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**3.5**	mg/kg	2.7	1.6	1	09/17/24 09:07	09/17/24 15:53	7440-38-2	
Barium	**33.4**	mg/kg	0.54	0.16	1	09/17/24 09:07	09/17/24 15:53	7440-39-3	M0
Cadmium	**0.30J**	mg/kg	0.54	0.14	1	09/17/24 09:07	09/17/24 15:53	7440-43-9	
Chromium	**18.4**	mg/kg	1.1	0.30	1	09/17/24 09:07	09/17/24 15:53	7440-47-3	M0
Lead	**47.3**	mg/kg	2.2	0.65	1	09/17/24 09:07	09/17/24 15:53	7439-92-1	
Selenium	**<1.4**	mg/kg	4.3	1.4	1	09/17/24 09:07	09/17/24 15:53	7782-49-2	
Silver	**<0.33**	mg/kg	1.1	0.33	1	09/17/24 09:07	09/17/24 15:53	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.072**	mg/kg	0.038	0.011	1	09/17/24 07:14	09/17/24 13:56	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**0.050**	mg/kg	0.018	0.0024	1	09/16/24 07:54	09/16/24 18:27	83-32-9	
Acenaphthylene	**0.037**	mg/kg	0.018	0.0023	1	09/16/24 07:54	09/16/24 18:27	208-96-8	
Anthracene	**0.038**	mg/kg	0.018	0.0023	1	09/16/24 07:54	09/16/24 18:27	120-12-7	
Benzo(a)anthracene	**0.11**	mg/kg	0.018	0.0024	1	09/16/24 07:54	09/16/24 18:27	56-55-3	
Benzo(a)pyrene	**0.15**	mg/kg	0.018	0.0021	1	09/16/24 07:54	09/16/24 18:27	50-32-8	
Benzo(b)fluoranthene	**0.18**	mg/kg	0.018	0.0025	1	09/16/24 07:54	09/16/24 18:27	205-99-2	
Benzo(g,h,i)perylene	**0.14**	mg/kg	0.018	0.0032	1	09/16/24 07:54	09/16/24 18:27	191-24-2	
Benzo(k)fluoranthene	**0.091**	mg/kg	0.018	0.0023	1	09/16/24 07:54	09/16/24 18:27	207-08-9	
Chrysene	**0.13**	mg/kg	0.018	0.0034	1	09/16/24 07:54	09/16/24 18:27	218-01-9	
Dibenz(a,h)anthracene	**0.030**	mg/kg	0.018	0.0025	1	09/16/24 07:54	09/16/24 18:27	53-70-3	
Fluoranthene	**0.19**	mg/kg	0.018	0.0022	1	09/16/24 07:54	09/16/24 18:27	206-44-0	
Fluorene	**0.042**	mg/kg	0.018	0.0022	1	09/16/24 07:54	09/16/24 18:27	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.097**	mg/kg	0.018	0.0038	1	09/16/24 07:54	09/16/24 18:27	193-39-5	
Naphthalene	**0.19**	mg/kg	0.018	0.0018	1	09/16/24 07:54	09/16/24 18:27	91-20-3	
Phenanthrene	**0.23**	mg/kg	0.018	0.0021	1	09/16/24 07:54	09/16/24 18:27	85-01-8	
Pyrene	**0.17**	mg/kg	0.018	0.0027	1	09/16/24 07:54	09/16/24 18:27	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75	%	39-120		1	09/16/24 07:54	09/16/24 18:27	321-60-8	
Terphenyl-d14 (S)	69	%	36-120		1	09/16/24 07:54	09/16/24 18:27	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<0.015**	mg/kg	0.024	0.015	1	09/16/24 09:30	09/16/24 14:19	71-43-2	
Bromobenzene	**<0.024**	mg/kg	0.061	0.024	1	09/16/24 09:30	09/16/24 14:19	108-86-1	
Bromochloromethane	**<0.017**	mg/kg	0.061	0.017	1	09/16/24 09:30	09/16/24 14:19	74-97-5	
Bromodichloromethane	**<0.015**	mg/kg	0.061	0.015	1	09/16/24 09:30	09/16/24 14:19	75-27-4	

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

Sample: SP-01 (STOCK PILE) **Lab ID: 40284040001** Collected: 09/12/24 08:24 Received: 09/13/24 09:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Bromoform	**<0.27**	mg/kg	0.30	0.27	1	09/16/24 09:30	09/16/24 14:19	75-25-2	
Bromomethane	**<0.086**	mg/kg	0.30	0.086	1	09/16/24 09:30	09/16/24 14:19	74-83-9	
n-Butylbenzene	**<0.028**	mg/kg	0.061	0.028	1	09/16/24 09:30	09/16/24 14:19	104-51-8	
sec-Butylbenzene	**<0.021**	mg/kg	0.061	0.021	1	09/16/24 09:30	09/16/24 14:19	135-98-8	
tert-Butylbenzene	**<0.019**	mg/kg	0.061	0.019	1	09/16/24 09:30	09/16/24 14:19	98-06-6	
Carbon tetrachloride	**<0.013**	mg/kg	0.061	0.013	1	09/16/24 09:30	09/16/24 14:19	56-23-5	
Chlorobenzene	**<0.0073**	mg/kg	0.061	0.0073	1	09/16/24 09:30	09/16/24 14:19	108-90-7	
Chloroethane	**<0.026**	mg/kg	0.30	0.026	1	09/16/24 09:30	09/16/24 14:19	75-00-3	
Chloroform	**<0.044**	mg/kg	0.30	0.044	1	09/16/24 09:30	09/16/24 14:19	67-66-3	
Chloromethane	**<0.023**	mg/kg	0.061	0.023	1	09/16/24 09:30	09/16/24 14:19	74-87-3	
2-Chlorotoluene	**<0.020**	mg/kg	0.061	0.020	1	09/16/24 09:30	09/16/24 14:19	95-49-8	
4-Chlorotoluene	**<0.023**	mg/kg	0.061	0.023	1	09/16/24 09:30	09/16/24 14:19	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.047**	mg/kg	0.30	0.047	1	09/16/24 09:30	09/16/24 14:19	96-12-8	
Dibromochloromethane	**<0.21**	mg/kg	0.30	0.21	1	09/16/24 09:30	09/16/24 14:19	124-48-1	
1,2-Dibromoethane (EDB)	**<0.017**	mg/kg	0.061	0.017	1	09/16/24 09:30	09/16/24 14:19	106-93-4	
Dibromomethane	**<0.018**	mg/kg	0.061	0.018	1	09/16/24 09:30	09/16/24 14:19	74-95-3	
1,2-Dichlorobenzene	**<0.019**	mg/kg	0.061	0.019	1	09/16/24 09:30	09/16/24 14:19	95-50-1	
1,3-Dichlorobenzene	**<0.017**	mg/kg	0.061	0.017	1	09/16/24 09:30	09/16/24 14:19	541-73-1	
1,4-Dichlorobenzene	**<0.017**	mg/kg	0.061	0.017	1	09/16/24 09:30	09/16/24 14:19	106-46-7	
Dichlorodifluoromethane	**<0.026**	mg/kg	0.061	0.026	1	09/16/24 09:30	09/16/24 14:19	75-71-8	
1,1-Dichloroethane	**<0.016**	mg/kg	0.061	0.016	1	09/16/24 09:30	09/16/24 14:19	75-34-3	
1,2-Dichloroethane	**<0.014**	mg/kg	0.061	0.014	1	09/16/24 09:30	09/16/24 14:19	107-06-2	
1,1-Dichloroethene	**<0.020**	mg/kg	0.061	0.020	1	09/16/24 09:30	09/16/24 14:19	75-35-4	
cis-1,2-Dichloroethene	**<0.013**	mg/kg	0.061	0.013	1	09/16/24 09:30	09/16/24 14:19	156-59-2	
trans-1,2-Dichloroethene	**<0.013**	mg/kg	0.061	0.013	1	09/16/24 09:30	09/16/24 14:19	156-60-5	
1,2-Dichloropropane	**<0.015**	mg/kg	0.061	0.015	1	09/16/24 09:30	09/16/24 14:19	78-87-5	
1,3-Dichloropropane	**<0.013**	mg/kg	0.061	0.013	1	09/16/24 09:30	09/16/24 14:19	142-28-9	
2,2-Dichloropropane	**<0.016**	mg/kg	0.061	0.016	1	09/16/24 09:30	09/16/24 14:19	594-20-7	
1,1-Dichloropropene	**<0.020**	mg/kg	0.061	0.020	1	09/16/24 09:30	09/16/24 14:19	563-58-6	
cis-1,3-Dichloropropene	**<0.040**	mg/kg	0.30	0.040	1	09/16/24 09:30	09/16/24 14:19	10061-01-5	
trans-1,3-Dichloropropene	**<0.17**	mg/kg	0.30	0.17	1	09/16/24 09:30	09/16/24 14:19	10061-02-6	
Diisopropyl ether	**<0.015**	mg/kg	0.061	0.015	1	09/16/24 09:30	09/16/24 14:19	108-20-3	
Ethylbenzene	**<0.015**	mg/kg	0.061	0.015	1	09/16/24 09:30	09/16/24 14:19	100-41-4	
Hexachloro-1,3-butadiene	**<0.12**	mg/kg	0.30	0.12	1	09/16/24 09:30	09/16/24 14:19	87-68-3	
Isopropylbenzene (Cumene)	**<0.016**	mg/kg	0.061	0.016	1	09/16/24 09:30	09/16/24 14:19	98-82-8	
p-Isopropyltoluene	**<0.021**	mg/kg	0.061	0.021	1	09/16/24 09:30	09/16/24 14:19	99-87-6	
Methylene Chloride	**<0.017**	mg/kg	0.061	0.017	1	09/16/24 09:30	09/16/24 14:19	75-09-2	
Methyl-tert-butyl ether	**<0.018**	mg/kg	0.061	0.018	1	09/16/24 09:30	09/16/24 14:19	1634-04-4	
Naphthalene	**0.16J**	mg/kg	0.30	0.026	1	09/16/24 09:30	09/16/24 14:19	91-20-3	
n-Propylbenzene	**<0.015**	mg/kg	0.061	0.015	1	09/16/24 09:30	09/16/24 14:19	103-65-1	
Styrene	**<0.016**	mg/kg	0.061	0.016	1	09/16/24 09:30	09/16/24 14:19	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.015**	mg/kg	0.061	0.015	1	09/16/24 09:30	09/16/24 14:19	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.022**	mg/kg	0.061	0.022	1	09/16/24 09:30	09/16/24 14:19	79-34-5	
Tetrachloroethene	**<0.024**	mg/kg	0.061	0.024	1	09/16/24 09:30	09/16/24 14:19	127-18-4	

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(920)469-2436

ANALYTICAL RESULTS

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

Sample: SP-01 (STOCK PILE) **Lab ID: 40284040001** Collected: 09/12/24 08:24 Received: 09/13/24 09:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Toluene	**<0.015**	mg/kg	0.061	0.015	1	09/16/24 09:30	09/16/24 14:19	108-88-3	
1,2,3-Trichlorobenzene	**<0.068**	mg/kg	0.30	0.068	1	09/16/24 09:30	09/16/24 14:19	87-61-6	
1,2,4-Trichlorobenzene	**<0.050**	mg/kg	0.30	0.050	1	09/16/24 09:30	09/16/24 14:19	120-82-1	
1,1,1-Trichloroethane	**<0.016**	mg/kg	0.061	0.016	1	09/16/24 09:30	09/16/24 14:19	71-55-6	
1,1,2-Trichloroethane	**<0.022**	mg/kg	0.061	0.022	1	09/16/24 09:30	09/16/24 14:19	79-00-5	
Trichloroethene	**<0.023**	mg/kg	0.061	0.023	1	09/16/24 09:30	09/16/24 14:19	79-01-6	
Trichlorofluoromethane	**<0.018**	mg/kg	0.061	0.018	1	09/16/24 09:30	09/16/24 14:19	75-69-4	
1,2,3-Trichloropropane	**<0.030**	mg/kg	0.061	0.030	1	09/16/24 09:30	09/16/24 14:19	96-18-4	
1,2,4-Trimethylbenzene	**0.023J**	mg/kg	0.061	0.018	1	09/16/24 09:30	09/16/24 14:19	95-63-6	
1,3,5-Trimethylbenzene	**<0.020**	mg/kg	0.061	0.020	1	09/16/24 09:30	09/16/24 14:19	108-67-8	
Vinyl chloride	**<0.012**	mg/kg	0.061	0.012	1	09/16/24 09:30	09/16/24 14:19	75-01-4	
m&p-Xylene	**<0.026**	mg/kg	0.12	0.026	1	09/16/24 09:30	09/16/24 14:19	179601-23-1	
o-Xylene	**0.020J**	mg/kg	0.061	0.018	1	09/16/24 09:30	09/16/24 14:19	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	139	%	67-144		1	09/16/24 09:30	09/16/24 14:19	2199-69-1	
4-Bromofluorobenzene (S)	138	%	72-142		1	09/16/24 09:30	09/16/24 14:19	460-00-4	
Toluene-d8 (S)	147	%	70-139		1	09/16/24 09:30	09/16/24 14:19	2037-26-5	S3
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**8.5**	%	0.10	0.10	1		09/14/24 09:05		

Sample: TRIP BLANK **Lab ID: 40284040002** Collected: 09/12/24 00:00 Received: 09/13/24 09:35 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<0.012**	mg/kg	0.020	0.012	1	09/16/24 09:30	09/16/24 13:20	71-43-2	
Bromobenzene	**<0.020**	mg/kg	0.050	0.020	1	09/16/24 09:30	09/16/24 13:20	108-86-1	
Bromochloromethane	**<0.014**	mg/kg	0.050	0.014	1	09/16/24 09:30	09/16/24 13:20	74-97-5	
Bromodichloromethane	**<0.012**	mg/kg	0.050	0.012	1	09/16/24 09:30	09/16/24 13:20	75-27-4	
Bromoform	**<0.22**	mg/kg	0.25	0.22	1	09/16/24 09:30	09/16/24 13:20	75-25-2	
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	09/16/24 09:30	09/16/24 13:20	74-83-9	
n-Butylbenzene	**<0.023**	mg/kg	0.050	0.023	1	09/16/24 09:30	09/16/24 13:20	104-51-8	
sec-Butylbenzene	**<0.017**	mg/kg	0.050	0.017	1	09/16/24 09:30	09/16/24 13:20	135-98-8	
tert-Butylbenzene	**<0.016**	mg/kg	0.050	0.016	1	09/16/24 09:30	09/16/24 13:20	98-06-6	
Carbon tetrachloride	**<0.011**	mg/kg	0.050	0.011	1	09/16/24 09:30	09/16/24 13:20	56-23-5	
Chlorobenzene	**<0.0060**	mg/kg	0.050	0.0060	1	09/16/24 09:30	09/16/24 13:20	108-90-7	
Chloroethane	**<0.021**	mg/kg	0.25	0.021	1	09/16/24 09:30	09/16/24 13:20	75-00-3	
Chloroform	**<0.036**	mg/kg	0.25	0.036	1	09/16/24 09:30	09/16/24 13:20	67-66-3	
Chloromethane	**<0.019**	mg/kg	0.050	0.019	1	09/16/24 09:30	09/16/24 13:20	74-87-3	

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(920)469-2436

ANALYTICAL RESULTS

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

Sample: TRIP BLANK **Lab ID: 40284040002** Collected: 09/12/24 00:00 Received: 09/13/24 09:35 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<0.016**	mg/kg	0.050	0.016	1	09/16/24 09:30	09/16/24 13:20	95-49-8	
4-Chlorotoluene	**<0.019**	mg/kg	0.050	0.019	1	09/16/24 09:30	09/16/24 13:20	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.039**	mg/kg	0.25	0.039	1	09/16/24 09:30	09/16/24 13:20	96-12-8	
Dibromochloromethane	**<0.17**	mg/kg	0.25	0.17	1	09/16/24 09:30	09/16/24 13:20	124-48-1	
1,2-Dibromoethane (EDB)	**<0.014**	mg/kg	0.050	0.014	1	09/16/24 09:30	09/16/24 13:20	106-93-4	
Dibromomethane	**<0.015**	mg/kg	0.050	0.015	1	09/16/24 09:30	09/16/24 13:20	74-95-3	
1,2-Dichlorobenzene	**<0.016**	mg/kg	0.050	0.016	1	09/16/24 09:30	09/16/24 13:20	95-50-1	
1,3-Dichlorobenzene	**<0.014**	mg/kg	0.050	0.014	1	09/16/24 09:30	09/16/24 13:20	541-73-1	
1,4-Dichlorobenzene	**<0.014**	mg/kg	0.050	0.014	1	09/16/24 09:30	09/16/24 13:20	106-46-7	
Dichlorodifluoromethane	**<0.022**	mg/kg	0.050	0.022	1	09/16/24 09:30	09/16/24 13:20	75-71-8	
1,1-Dichloroethane	**<0.013**	mg/kg	0.050	0.013	1	09/16/24 09:30	09/16/24 13:20	75-34-3	
1,2-Dichloroethane	**<0.012**	mg/kg	0.050	0.012	1	09/16/24 09:30	09/16/24 13:20	107-06-2	
1,1-Dichloroethene	**<0.017**	mg/kg	0.050	0.017	1	09/16/24 09:30	09/16/24 13:20	75-35-4	
cis-1,2-Dichloroethene	**<0.011**	mg/kg	0.050	0.011	1	09/16/24 09:30	09/16/24 13:20	156-59-2	
trans-1,2-Dichloroethene	**<0.011**	mg/kg	0.050	0.011	1	09/16/24 09:30	09/16/24 13:20	156-60-5	
1,2-Dichloropropane	**<0.012**	mg/kg	0.050	0.012	1	09/16/24 09:30	09/16/24 13:20	78-87-5	
1,3-Dichloropropane	**<0.011**	mg/kg	0.050	0.011	1	09/16/24 09:30	09/16/24 13:20	142-28-9	
2,2-Dichloropropane	**<0.014**	mg/kg	0.050	0.014	1	09/16/24 09:30	09/16/24 13:20	594-20-7	
1,1-Dichloropropene	**<0.016**	mg/kg	0.050	0.016	1	09/16/24 09:30	09/16/24 13:20	563-58-6	
cis-1,3-Dichloropropene	**<0.033**	mg/kg	0.25	0.033	1	09/16/24 09:30	09/16/24 13:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.14**	mg/kg	0.25	0.14	1	09/16/24 09:30	09/16/24 13:20	10061-02-6	
Diisopropyl ether	**<0.012**	mg/kg	0.050	0.012	1	09/16/24 09:30	09/16/24 13:20	108-20-3	
Ethylbenzene	**<0.012**	mg/kg	0.050	0.012	1	09/16/24 09:30	09/16/24 13:20	100-41-4	
Hexachloro-1,3-butadiene	**<0.099**	mg/kg	0.25	0.099	1	09/16/24 09:30	09/16/24 13:20	87-68-3	
Isopropylbenzene (Cumene)	**<0.014**	mg/kg	0.050	0.014	1	09/16/24 09:30	09/16/24 13:20	98-82-8	
p-Isopropyltoluene	**<0.017**	mg/kg	0.050	0.017	1	09/16/24 09:30	09/16/24 13:20	99-87-6	
Methylene Chloride	**<0.014**	mg/kg	0.050	0.014	1	09/16/24 09:30	09/16/24 13:20	75-09-2	
Methyl-tert-butyl ether	**<0.015**	mg/kg	0.050	0.015	1	09/16/24 09:30	09/16/24 13:20	1634-04-4	
Naphthalene	**<0.021**	mg/kg	0.25	0.021	1	09/16/24 09:30	09/16/24 13:20	91-20-3	
n-Propylbenzene	**<0.012**	mg/kg	0.050	0.012	1	09/16/24 09:30	09/16/24 13:20	103-65-1	
Styrene	**<0.013**	mg/kg	0.050	0.013	1	09/16/24 09:30	09/16/24 13:20	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.012**	mg/kg	0.050	0.012	1	09/16/24 09:30	09/16/24 13:20	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.018**	mg/kg	0.050	0.018	1	09/16/24 09:30	09/16/24 13:20	79-34-5	
Tetrachloroethene	**<0.019**	mg/kg	0.050	0.019	1	09/16/24 09:30	09/16/24 13:20	127-18-4	
Toluene	**<0.013**	mg/kg	0.050	0.013	1	09/16/24 09:30	09/16/24 13:20	108-88-3	
1,2,3-Trichlorobenzene	**<0.056**	mg/kg	0.25	0.056	1	09/16/24 09:30	09/16/24 13:20	87-61-6	
1,2,4-Trichlorobenzene	**<0.041**	mg/kg	0.25	0.041	1	09/16/24 09:30	09/16/24 13:20	120-82-1	
1,1,1-Trichloroethane	**<0.013**	mg/kg	0.050	0.013	1	09/16/24 09:30	09/16/24 13:20	71-55-6	
1,1,2-Trichloroethane	**<0.018**	mg/kg	0.050	0.018	1	09/16/24 09:30	09/16/24 13:20	79-00-5	
Trichloroethene	**<0.019**	mg/kg	0.050	0.019	1	09/16/24 09:30	09/16/24 13:20	79-01-6	
Trichlorofluoromethane	**<0.014**	mg/kg	0.050	0.014	1	09/16/24 09:30	09/16/24 13:20	75-69-4	
1,2,3-Trichloropropane	**<0.024**	mg/kg	0.050	0.024	1	09/16/24 09:30	09/16/24 13:20	96-18-4	
1,2,4-Trimethylbenzene	**<0.015**	mg/kg	0.050	0.015	1	09/16/24 09:30	09/16/24 13:20	95-63-6	
1,3,5-Trimethylbenzene	**<0.016**	mg/kg	0.050	0.016	1	09/16/24 09:30	09/16/24 13:20	108-67-8	

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ANALYTICAL RESULTS

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

Sample: TRIP BLANK **Lab ID: 40284040002** Collected: 09/12/24 00:00 Received: 09/13/24 09:35 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Vinyl chloride	**<0.010**	mg/kg	0.050	0.010	1	09/16/24 09:30	09/16/24 13:20	75-01-4	
m&p-Xylene	**<0.021**	mg/kg	0.10	0.021	1	09/16/24 09:30	09/16/24 13:20	179601-23-1	
o-Xylene	**<0.015**	mg/kg	0.050	0.015	1	09/16/24 09:30	09/16/24 13:20	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	112	%	67-144		1	09/16/24 09:30	09/16/24 13:20	2199-69-1	
4-Bromofluorobenzene (S)	113	%	72-142		1	09/16/24 09:30	09/16/24 13:20	460-00-4	
Toluene-d8 (S)	113	%	70-139		1	09/16/24 09:30	09/16/24 13:20	2037-26-5	

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QUALITY CONTROL DATA

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

QC Batch: 484457
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40284040001

METHOD BLANK: 2774194 Matrix: Solid
Associated Lab Samples: 40284040001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	09/17/24 13:51	

LABORATORY CONTROL SAMPLE: 2774195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.77	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2774196 2774197

Parameter	Units	40284040001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.072	0.91	0.91	1.1	0.94	108	96	85-115	11	20	

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QUALITY CONTROL DATA

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

QC Batch: 484478
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40284040001

METHOD BLANK: 2774259 Matrix: Solid
Associated Lab Samples: 40284040001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.5	2.5	09/17/24 15:50	
Barium	mg/kg	<0.15	0.50	09/17/24 15:50	
Cadmium	mg/kg	<0.13	0.50	09/17/24 15:50	
Chromium	mg/kg	<0.28	1.0	09/17/24 15:50	
Lead	mg/kg	<0.60	2.0	09/17/24 15:50	
Selenium	mg/kg	<1.3	4.0	09/17/24 15:50	
Silver	mg/kg	<0.31	1.0	09/17/24 15:50	

LABORATORY CONTROL SAMPLE: 2774260

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	25	23.8	95	80-120	
Barium	mg/kg	25	25.3	101	80-120	
Cadmium	mg/kg	25	25.4	102	80-120	
Chromium	mg/kg	25	24.7	99	80-120	
Lead	mg/kg	25	25.3	101	80-120	
Selenium	mg/kg	25	25.7	103	80-120	
Silver	mg/kg	12.5	12.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2774261 2774262

Parameter	Units	40284040001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	3.5	27.2	27.1	29.1	28.6	94	92	75-125	2	20	
Barium	mg/kg	33.4	27.2	27.1	73.6	72.6	148	144	75-125	1	20	M0
Cadmium	mg/kg	0.30J	27.2	27.1	27.5	27.0	100	98	75-125	2	20	
Chromium	mg/kg	18.4	27.2	27.1	34.9	34.6	61	60	75-125	1	20	M0
Lead	mg/kg	47.3	27.2	27.1	72.7	67.9	93	76	75-125	7	20	
Selenium	mg/kg	<1.4	27.2	27.1	27.5	26.7	99	96	75-125	3	20	
Silver	mg/kg	<0.33	13.7	13.6	13.7	13.6	99	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

QC Batch: 484443
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40284040001, 40284040002

METHOD BLANK: 2774170 Matrix: Solid
Associated Lab Samples: 40284040001, 40284040002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	<0.012	0.050	09/16/24 10:44	
1,1,1-Trichloroethane	mg/kg	<0.013	0.050	09/16/24 10:44	
1,1,2,2-Tetrachloroethane	mg/kg	<0.018	0.050	09/16/24 10:44	
1,1,2-Trichloroethane	mg/kg	<0.018	0.050	09/16/24 10:44	
1,1-Dichloroethane	mg/kg	<0.013	0.050	09/16/24 10:44	
1,1-Dichloroethene	mg/kg	<0.017	0.050	09/16/24 10:44	
1,1-Dichloropropene	mg/kg	<0.016	0.050	09/16/24 10:44	
1,2,3-Trichlorobenzene	mg/kg	<0.056	0.25	09/16/24 10:44	
1,2,3-Trichloropropane	mg/kg	<0.024	0.050	09/16/24 10:44	
1,2,4-Trichlorobenzene	mg/kg	<0.041	0.25	09/16/24 10:44	
1,2,4-Trimethylbenzene	mg/kg	<0.015	0.050	09/16/24 10:44	
1,2-Dibromo-3-chloropropane	mg/kg	<0.039	0.25	09/16/24 10:44	
1,2-Dibromoethane (EDB)	mg/kg	<0.014	0.050	09/16/24 10:44	
1,2-Dichlorobenzene	mg/kg	<0.016	0.050	09/16/24 10:44	
1,2-Dichloroethane	mg/kg	<0.012	0.050	09/16/24 10:44	
1,2-Dichloropropane	mg/kg	<0.012	0.050	09/16/24 10:44	
1,3,5-Trimethylbenzene	mg/kg	<0.016	0.050	09/16/24 10:44	
1,3-Dichlorobenzene	mg/kg	<0.014	0.050	09/16/24 10:44	
1,3-Dichloropropane	mg/kg	<0.011	0.050	09/16/24 10:44	
1,4-Dichlorobenzene	mg/kg	<0.014	0.050	09/16/24 10:44	
2,2-Dichloropropane	mg/kg	<0.014	0.050	09/16/24 10:44	
2-Chlorotoluene	mg/kg	<0.016	0.050	09/16/24 10:44	
4-Chlorotoluene	mg/kg	<0.019	0.050	09/16/24 10:44	
Benzene	mg/kg	<0.012	0.020	09/16/24 10:44	
Bromobenzene	mg/kg	<0.020	0.050	09/16/24 10:44	
Bromochloromethane	mg/kg	<0.014	0.050	09/16/24 10:44	
Bromodichloromethane	mg/kg	<0.012	0.050	09/16/24 10:44	
Bromoform	mg/kg	<0.22	0.25	09/16/24 10:44	
Bromomethane	mg/kg	<0.070	0.25	09/16/24 10:44	
Carbon tetrachloride	mg/kg	<0.011	0.050	09/16/24 10:44	
Chlorobenzene	mg/kg	<0.0060	0.050	09/16/24 10:44	
Chloroethane	mg/kg	<0.021	0.25	09/16/24 10:44	
Chloroform	mg/kg	<0.036	0.25	09/16/24 10:44	
Chloromethane	mg/kg	<0.019	0.050	09/16/24 10:44	
cis-1,2-Dichloroethene	mg/kg	<0.011	0.050	09/16/24 10:44	
cis-1,3-Dichloropropene	mg/kg	<0.033	0.25	09/16/24 10:44	
Dibromochloromethane	mg/kg	<0.17	0.25	09/16/24 10:44	
Dibromomethane	mg/kg	<0.015	0.050	09/16/24 10:44	
Dichlorodifluoromethane	mg/kg	<0.022	0.050	09/16/24 10:44	
Diisopropyl ether	mg/kg	<0.012	0.050	09/16/24 10:44	

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QUALITY CONTROL DATA

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

METHOD BLANK: 2774170 Matrix: Solid
Associated Lab Samples: 40284040001, 40284040002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/kg	<0.012	0.050	09/16/24 10:44	
Hexachloro-1,3-butadiene	mg/kg	<0.099	0.25	09/16/24 10:44	
Isopropylbenzene (Cumene)	mg/kg	<0.014	0.050	09/16/24 10:44	
m&p-Xylene	mg/kg	<0.021	0.10	09/16/24 10:44	
Methyl-tert-butyl ether	mg/kg	<0.015	0.050	09/16/24 10:44	
Methylene Chloride	mg/kg	<0.014	0.050	09/16/24 10:44	
n-Butylbenzene	mg/kg	<0.023	0.050	09/16/24 10:44	
n-Propylbenzene	mg/kg	<0.012	0.050	09/16/24 10:44	
Naphthalene	mg/kg	<0.021	0.25	09/16/24 10:44	
o-Xylene	mg/kg	<0.015	0.050	09/16/24 10:44	
p-Isopropyltoluene	mg/kg	<0.017	0.050	09/16/24 10:44	
sec-Butylbenzene	mg/kg	<0.017	0.050	09/16/24 10:44	
Styrene	mg/kg	<0.013	0.050	09/16/24 10:44	
tert-Butylbenzene	mg/kg	<0.016	0.050	09/16/24 10:44	
Tetrachloroethene	mg/kg	<0.019	0.050	09/16/24 10:44	
Toluene	mg/kg	<0.013	0.050	09/16/24 10:44	
trans-1,2-Dichloroethene	mg/kg	<0.011	0.050	09/16/24 10:44	
trans-1,3-Dichloropropene	mg/kg	<0.14	0.25	09/16/24 10:44	
Trichloroethene	mg/kg	<0.019	0.050	09/16/24 10:44	
Trichlorofluoromethane	mg/kg	<0.014	0.050	09/16/24 10:44	
Vinyl chloride	mg/kg	<0.010	0.050	09/16/24 10:44	
1,2-Dichlorobenzene-d4 (S)	%	105	67-144	09/16/24 10:44	
4-Bromofluorobenzene (S)	%	107	72-142	09/16/24 10:44	
Toluene-d8 (S)	%	106	70-139	09/16/24 10:44	

LABORATORY CONTROL SAMPLE: 2774171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	2.5	2.6	105	70-130	
1,1,2,2-Tetrachloroethane	mg/kg	2.5	2.8	111	70-130	
1,1,2-Trichloroethane	mg/kg	2.5	3.0	118	70-130	
1,1-Dichloroethane	mg/kg	2.5	3.1	124	70-130	
1,1-Dichloroethene	mg/kg	2.5	2.8	113	77-122	
1,2,4-Trichlorobenzene	mg/kg	2.5	2.5	102	66-125	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	2.2	88	66-130	
1,2-Dibromoethane (EDB)	mg/kg	2.5	2.9	118	70-130	
1,2-Dichlorobenzene	mg/kg	2.5	2.7	108	70-130	
1,2-Dichloroethane	mg/kg	2.5	2.5	100	70-130	
1,2-Dichloropropane	mg/kg	2.5	2.8	111	80-121	
1,3-Dichlorobenzene	mg/kg	2.5	2.7	108	70-130	
1,4-Dichlorobenzene	mg/kg	2.5	2.8	112	70-130	
Benzene	mg/kg	2.5	2.7	108	70-130	
Bromodichloromethane	mg/kg	2.5	2.8	113	70-130	
Bromoform	mg/kg	2.5	2.4	97	67-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

LABORATORY CONTROL SAMPLE: 2774171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	mg/kg	2.5	2.5	99	25-150	
Carbon tetrachloride	mg/kg	2.5	2.2	89	72-136	
Chlorobenzene	mg/kg	2.5	2.7	109	70-130	
Chloroethane	mg/kg	2.5	2.7	106	20-178	
Chloroform	mg/kg	2.5	2.9	116	80-120	
Chloromethane	mg/kg	2.5	2.8	112	45-123	
cis-1,2-Dichloroethene	mg/kg	2.5	3.0	119	70-130	
cis-1,3-Dichloropropene	mg/kg	2.5	2.7	108	70-130	
Dibromochloromethane	mg/kg	2.5	2.7	110	70-130	
Dichlorodifluoromethane	mg/kg	2.5	2.2	87	14-106	
Ethylbenzene	mg/kg	2.5	2.7	106	80-120	
Isopropylbenzene (Cumene)	mg/kg	2.5	2.5	101	70-130	
m&p-Xylene	mg/kg	5	5.2	104	70-130	
Methyl-tert-butyl ether	mg/kg	2.5	2.6	105	70-130	
Methylene Chloride	mg/kg	2.5	2.7	107	70-130	
o-Xylene	mg/kg	2.5	2.6	103	70-130	
Styrene	mg/kg	2.5	2.7	109	70-130	
Tetrachloroethene	mg/kg	2.5	2.8	110	70-130	
Toluene	mg/kg	2.5	2.7	110	80-120	
trans-1,2-Dichloroethene	mg/kg	2.5	3.1	124	70-130	
trans-1,3-Dichloropropene	mg/kg	2.5	2.8	113	70-130	
Trichloroethene	mg/kg	2.5	2.8	113	70-130	
Trichlorofluoromethane	mg/kg	2.5	2.6	105	49-141	
Vinyl chloride	mg/kg	2.5	2.7	108	59-120	
1,2-Dichlorobenzene-d4 (S)	%			111	67-144	
4-Bromofluorobenzene (S)	%			113	72-142	
Toluene-d8 (S)	%			110	70-139	

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QUALITY CONTROL DATA

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

QC Batch: 484385
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40284040001

METHOD BLANK: 2774052 Matrix: Solid
Associated Lab Samples: 40284040001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	mg/kg	<0.0022	0.017	09/16/24 10:15	
Acenaphthylene	mg/kg	<0.0021	0.017	09/16/24 10:15	
Anthracene	mg/kg	<0.0021	0.017	09/16/24 10:15	
Benzo(a)anthracene	mg/kg	<0.0022	0.017	09/16/24 10:15	
Benzo(a)pyrene	mg/kg	<0.0019	0.017	09/16/24 10:15	
Benzo(b)fluoranthene	mg/kg	<0.0023	0.017	09/16/24 10:15	
Benzo(g,h,i)perylene	mg/kg	<0.0029	0.017	09/16/24 10:15	
Benzo(k)fluoranthene	mg/kg	<0.0021	0.017	09/16/24 10:15	
Chrysene	mg/kg	<0.0032	0.017	09/16/24 10:15	
Dibenz(a,h)anthracene	mg/kg	<0.0023	0.017	09/16/24 10:15	
Fluoranthene	mg/kg	<0.0020	0.017	09/16/24 10:15	
Fluorene	mg/kg	<0.0020	0.017	09/16/24 10:15	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0035	0.017	09/16/24 10:15	
Naphthalene	mg/kg	<0.0016	0.017	09/16/24 10:15	
Phenanthrene	mg/kg	<0.0019	0.017	09/16/24 10:15	
Pyrene	mg/kg	<0.0025	0.017	09/16/24 10:15	
2-Fluorobiphenyl (S)	%	80	39-120	09/16/24 10:15	
Terphenyl-d14 (S)	%	97	36-120	09/16/24 10:15	

LABORATORY CONTROL SAMPLE: 2774053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	mg/kg	0.33	0.27	81	66-120	
Acenaphthylene	mg/kg	0.33	0.25	75	63-120	
Anthracene	mg/kg	0.33	0.28	84	72-120	
Benzo(a)anthracene	mg/kg	0.33	0.25	75	64-120	
Benzo(a)pyrene	mg/kg	0.33	0.31	93	76-120	
Benzo(b)fluoranthene	mg/kg	0.33	0.29	86	62-120	
Benzo(g,h,i)perylene	mg/kg	0.33	0.29	87	73-120	
Benzo(k)fluoranthene	mg/kg	0.33	0.31	93	69-120	
Chrysene	mg/kg	0.33	0.27	81	70-120	
Dibenz(a,h)anthracene	mg/kg	0.33	0.29	87	72-120	
Fluoranthene	mg/kg	0.33	0.28	83	71-120	
Fluorene	mg/kg	0.33	0.26	79	68-120	
Indeno(1,2,3-cd)pyrene	mg/kg	0.33	0.29	86	72-120	
Naphthalene	mg/kg	0.33	0.25	74	60-120	
Phenanthrene	mg/kg	0.33	0.28	83	66-120	
Pyrene	mg/kg	0.33	0.26	77	65-120	
2-Fluorobiphenyl (S)	%			78	39-120	

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QUALITY CONTROL DATA

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

LABORATORY CONTROL SAMPLE: 2774053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			81	36-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2774054 2774055

Parameter	Units	40284112006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	mg/kg	<0.0027	0.41	0.41	0.30	0.30	72	73	51-120	1	26	
Acenaphthylene	mg/kg	<0.0026	0.41	0.41	0.28	0.29	69	69	49-120	1	22	
Anthracene	mg/kg	<0.0026	0.41	0.41	0.30	0.30	73	73	52-120	0	25	
Benzo(a)anthracene	mg/kg	<0.0027	0.41	0.41	0.28	0.27	67	66	47-120	2	37	
Benzo(a)pyrene	mg/kg	<0.0024	0.41	0.41	0.31	0.31	76	75	53-120	1	33	
Benzo(b)fluoranthene	mg/kg	<0.0029	0.41	0.41	0.31	0.31	75	75	43-120	1	43	
Benzo(g,h,i)perylene	mg/kg	<0.0036	0.41	0.41	0.32	0.32	78	76	38-120	3	36	
Benzo(k)fluoranthene	mg/kg	<0.0026	0.41	0.41	0.34	0.34	82	82	49-120	0	30	
Chrysene	mg/kg	<0.0039	0.41	0.41	0.27	0.27	65	64	45-120	1	28	
Dibenz(a,h)anthracene	mg/kg	<0.0029	0.41	0.41	0.33	0.32	79	77	41-120	2	33	
Fluoranthene	mg/kg	<0.0025	0.41	0.41	0.30	0.31	73	73	50-120	1	43	
Fluorene	mg/kg	<0.0025	0.41	0.41	0.30	0.30	72	72	47-120	0	27	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0043	0.41	0.41	0.32	0.32	78	76	35-120	2	33	
Naphthalene	mg/kg	<0.0020	0.41	0.41	0.28	0.29	69	69	42-120	1	26	
Phenanthrene	mg/kg	<0.0024	0.41	0.41	0.30	0.31	72	73	45-120	1	24	
Pyrene	mg/kg	<0.0030	0.41	0.41	0.29	0.29	69	69	42-120	0	41	
2-Fluorobiphenyl (S)	%						68	66	39-120			
Terphenyl-d14 (S)	%						70	66	36-120			

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QUALITY CONTROL DATA

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

QC Batch: 484544
QC Batch Method: WI MOD DRO
Analysis Method: WI MOD DRO
Analysis Description: WIDRO GCS
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40284040001

METHOD BLANK: 2774507 Matrix: Solid
Associated Lab Samples: 40284040001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<1.3	4.3	09/18/24 05:44	

LABORATORY CONTROL SAMPLE & LCSD: 2774508 2774509

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	39.9	29.9	34.8	75	87	70-120	15	20	

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QUALITY CONTROL DATA

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

QC Batch: 484369
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40284040001

SAMPLE DUPLICATE: 2773748

Parameter	Units	40284028001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.9	7.9	0	10	

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QUALIFIERS

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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.

ANALYTE QUALIFIERS

D5	The sample was re-weighed into a new container because the sample weight in the original container exceeded the method specifications.
DC	Chromatographic pattern inconsistent with typical Diesel Fuel.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B2303263 TOMAH AMTRAK
Pace Project No.: 40284040

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40284040001	**SP-01 (STOCK PILE)**	WI MOD DRO	484544	WI MOD DRO	484619
40284040001	**SP-01 (STOCK PILE)**	EPA 3050B	484478	EPA 6010D	484637
40284040001	**SP-01 (STOCK PILE)**	EPA 7471	484457	EPA 7471	484583
40284040001	**SP-01 (STOCK PILE)**	EPA 3546	484385	EPA 8270E by SIM	484451
40284040001	**SP-01 (STOCK PILE)**	EPA 5035/5030B	484443	EPA 8260	484445
40284040002	**TRIP BLANK**	EPA 5035/5030B	484443	EPA 8260	484445
40284040001	**SP-01 (STOCK PILE)**	ASTM D2974-87	484369		

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402840 40

Pace® Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

Company Name: Braun Intertec Corp	Contact/Report To: John Wyciskalla
Street Address: 2309 Palace Street La Crosse WI 54603	Phone #: 608-769-5046
	E-Mail: jwyciskalla@braunintertec.com
	Cc E-Mail:
Customer Project #: B2303263	Invoice to: Braun Intertec Corp
Project Name: Tomah Amtrak	Invoice E-mail:
Site Collection Info/Facility ID (as applicable):	Purchase Order # (if applicable): B2303263
	Quote #:
Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET	County / State origin of sample(s): Monroe CO / Wisconsin
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable: N/A Reportable [ ] Yes [ ] No
	Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [X] 3 Day Other
	Date Results Requested: Wednesday September 18
	DW PWSID # or WW Permit # as applicable:
	Field Filtered (if applicable): [ ] Yes [X] No
	Analysis:

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

10	1	1	1							

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Residual Chlorine Result	Residual Chlorine Units	VOC	PAH	DRO	RCRA Metal	Lab Use Only	Sample Comment	Preservation non-conformance identified for sample.
SP-01 (stock pile)	SS	Comp			09/12/2024	08:24				X	X	X	X		001	
Trip blank	---	---			---	---				X					002	

Lab Use Only: Proj. Mgr: | AcctNum / Client ID: | Table #: | Profile / Template: | Prelog / Bottle Ord. ID:

Additional Instructions from Pace® :

Collected By: Printed Name / Signature

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C):	Corrected Temp. (°C):	[ ] On Ice

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Dixie Dewitz JW	9/12/24 @ 1030			
Relinquished by/Company: (Signature) Fedex	Date/Time: 9/13/24 0935	Received by/Company: (Signature)	Date/Time: 9/13/24 0935	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

ENV-FRM-CORQ-0019_v02_110123 ©

Sample Preservation Receipt Form

Client Name: Brown Intertec Project # 40284040

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

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

	Glass							Plastic						Vials						Jars				General								
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		2		1		2	1											2.5 / 5
002																		2																2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

Not listed

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	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres	
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres	
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres	
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres	
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate	
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag	
BG3U	250 mL clear glass unpres					GN 1		
						GN 2		

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #: WO# : 40284040

40284040

Client Name: Braun Intertec

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

Tracking #: 5092 4935 7921

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 - 120 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 3.0 /Corr: 3.0

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

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

Person examining contents:
Date: 9/13/24 /Initials: MH

Labeled By Initials: GF

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
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.
- DI 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.
Correct Type: (Pace Green Bay), Pace IR, Non-Pace		
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: S	☑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 logi

Table 1
Soil Analytical Results
Tomah ADA SOGR Amtrak Renovation
121 West Washington Street, Tomah, Wisconsin
Project 643. Amtrak Tomah, WI (9510002431)
B2303263
PO #643.004

Compound/Parameter	CAS No.	Sample Identifier and Date Collected				Non-Industrial D-C RCL (mg/kg)	Industrial D-C RCL (mg/kg)	Ground Water RCL (mg/kg)	State Background Threshold Value (mg/kg)
		SP-1 (STOCKPILE)	TRIP BLANK	SP-01 (STOCK PILE)	TRIP BLANK				
		07/06/2023	07/06/2023	**09/12/2024**	**09/12/2024**				
Volatile Organic Compounds (VOCs) (mg/kg)									
Naphthalene	91-20-3	<0.018	<0.016	**0.16 J**	<0.021	5.52	24.1	0.6582	NE
1,2,4-Trimethylbenzene	95-63-6	**0.020 J**	<0.015	**0.023 J**	<0.015	219	219	1.3821	NE
All other reported VOCs	---	<RL	<RL	<RL	<RL	---	---	---	---
Polycyclic-Aromatic Hydrocarbons (PAHs) (mg/kg)									
Acenaphthene	83-32-9	**0.011 J**	---	**0.05**	---	3,590	45,200	NE	NE
Acenaphthylene	208-96-8	**0.022**	---	**0.037**	---	NE	NE	NE	NE
Anthracene	120-12-7	**0.035**	---	**0.038**	---	17,900	100,000	196.9492	NE
Benzo(a)anthracene	56-55-3	**0.12**	---	**0.11**	---	1.14	20.8	NE	NE
Benzo(b)fluoranthene	205-99-2	**0.21**	---	**0.18**	---	1.15	21.1	0.4793	NE
Benzo(k)fluoranthene	207-08-9	**0.094**	---	**0.091**	---	11.5	211	NE	NE
Benzo(a)pyrene	50-32-8	**0.14**	---	**0.15**	---	0.115	2.11	0.47	NE
Benzo(g,h,i)perylene	191-24-2	**0.068**	---	**0.14**	---	NE	NE	NE	NE
Chrysene	218-01-9	**0.14**	---	**0.13**	---	115	2,110	0.1446	NE
Dibenz(a,h)anthracene	53-70-3	**0.019**	---	**0.03**	---	0.115	2.11	NE	NE
Fluoranthene	206-44-0	**0.23**	---	**0.19**	---	2,390	20,100	89	NE
Fluorene	86-73-7	**0.0073 J**	---	**0.042**	---	2,390	30,100	15	NE
Indeno(1,2,3-cd)pyrene	193-39-5	**0.059**	---	**0.097**	---	1.15	21.1	NE	NE
Naphthalene	91-20-3	**0.032**	---	**0.19**	---	5.52	24.1	0.6582	NE
Phenanthrene	85-01-8	**0.16**	---	**0.23**	---	NE	NE	NE	NE
Pyrene	129-00-0	**0.21**	---	**0.17**	---	1,790	22,600	55	NE
All other reported PAHs	---	<RL	<RL	<RL	<RL	---	---	---	---
Metals (mg/kg)									
Arsenic, Total	7440-38-2	**1.9 J***	---	**3.5**	---	0.677	3	0.584	8
Barium, Total	7440-39-3	**42.2**	---	**33.4** [2]	---	15,300	100,000	164.8	364
Cadmium, Total	7440-43-9	**0.29 J**	---	**0.30 J**	---	71.1	985	0.752	1
Chromium, Total*	7440-47-3	**7.7**	---	**18.4** [2]	---	100,000	100,000	360,000	44
Lead, Total	7439-92-1	**56.3** [2]	---	**47.3**	---	400	800	27	52
Mercury, Total	7439-97-6	**0.049**	---	**0.072**	---	3.13	3.13	0.208	NE
Selenium, Total	7782-49-2	<1.4	---	<1.4	---	391	5,840	0.52	NE
Silver, Total	7440-22-4	<0.33	---	<0.33	---	391	5,840	0.8491	NE
Other Parameters reported in mg/kg									
Diesel Range Organics (DRO)	---	**4.9** [1]	---	**33.8** [1a]	---	NE	NE	NE	NE

Notes
Wisconsin Department of Natural Resources (WDNR) RCLs spreadsheet updated December 2018
mg/kg = Milligrams per kilogram.
< = Not detected at or above the laboratory reporting limit indicated.
---- = Not analyzed or calculated for this parameter or not applicable.
* = Arsenic value compared to the BTV
NE = Regulatory limit not established for this parameter.
D-C RCL = Direct Contact Residual Contaminant Level.
D-C RCL = Direct Contact Residual Contaminant Level.
[1] [DC] Chromatographic pattern inconsistent with typical Diesel Fuel.
[2] [M0] Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
[3] [M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
[1a] [D5] The sample was re-weighed into a new container because the sample weight in the original container exceeded the method specifications. - [DC] Chromatographic pattern inconsistent with typical Diesel Fuel.

Exceeds Non-Industrial D-C RCL
Exceeds Industrial D-C RCL
Groundwater RCL
Exceeds Background Threshold Value

BRAUN INTERTEC

Appendix D

Landfill Gas Extraction System

Appendix D

Landfill Gas Extraction System

D-1 – Surface Emission Monitoring
D-2 – System Downtime
D-3 – System Maintenance
D-4 – LFG Wellhead Balance Data

D-1 – Surface Emission Monitoring

Building a Better World for All of Us®

November 4, 2024

RE: La Crosse County Solid Waste Management Facility
Surface Emission Monitoring Report
FID 632063630
SEH No. LACSW 176658 14.00

Jadd Stilwell - Solid Waste Director
La Crosse County Landfill
3200 Berlin Drive
La Crosse, WI 54601

Dear Mr. Stilwell:

Short Elliott Hendrickson Inc. (SEH®) is submitting this letter on behalf of the La Crosse County Solid Waste Management Facility (La Crosse County) to document the results of Surface Emission Monitoring (SEM) performed at the La Crosse County Landfill (WDNR Lic. No 3253) on October 8, 2024.

QUALITY ASSURANCE/QUALITY CONTROL

Surface methane monitoring was performed in general accordance with EPA Method 21 and requirements I.A.2.a. (18) of La Crosse County's Air Operation Permit 63206363A-P20. SEH used a Bascom Turner Instruments, Inc. Method 21 Gas-Rover™ to measure surface methane concentrations. The unit was calibrated in the field using the manufacturer's recommended procedures and a 500 parts per million by volume (ppm_v) methane calibration standard. Upwind ambient air was utilized as the zero gas. Field equipment calibration precision testing and response time testing passed EPA Method 21 criteria. Calibration precision and response time was measured and recorded prior to performing surface monitoring. Calibration precision was also verified following completion of field activities. Results of the calibrations and monitoring are provided in Attachment A.

SURFACE METHANE MONITORING RESULTS

During the October 8, 2024 annual SEM, methane was not detected at a concentration equal to or greater than 500 ppm_v above measured background concentrations at any location with waste in place for a period of 5 years or more if active; or 2 years or more if closed or at final grade.

Attachment B provides a figure showing the traverse route followed. Special attention was given to areas of new vegetation, rill formations, and cover penetrations. Per regulations, all surface penetrations were checked for surface emissions and areas of active filling, construction activities and steep slopes were avoided due to safety concerns. The landfill was well vegetated and no areas of significant landfill cover issues were observed.

FUTURE SURFACE METHANE MONITORING PLAN

The next surface monitoring event is tentatively scheduled to be completed again during Summer/Fall 2025. A brief report summarizing the results of the 2025 surface monitoring will be submitted to La Crosse County within 60 days of completing the field monitoring.

CLOSING

In accordance with La Crosse County Landfill air permit, a surface emission monitoring scan was completed on October 8, 2024 and this document summarizes the results of the monitoring. The October 8, 2024 SEM event indicated surface emission concentrations were below permissible levels: meeting the compliance requirements of the air permit.

If you have any questions regarding this submittal, please contact me at 608.498.4844.

Sincerely,

SHORT ELLIOTT HENDRICKSON INC.

Brian L. Kent, CHMM
Project Manager

BLK/blk/PAS
Attachments

c: Michalee Leuthard, WDNR-Air Management Engineer – Electronic File
Jackie Davis, La Crosse County Solid Waste – Electronic File

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Attachment A

Surface Methane Monitoring Log

La Crosse County Landfill
Surface Emission Monitoring Log

Site Information

User/Date:	Veronica Aranda, October 8, 2024
Weather Conditions:	Sunny, 53F, 7 mph S

Equipment Calibration Data

Make and Model of Equipment:	Bascom Turner Method 21 Gas Rover
Calibration Gas/Concentration:	Methane/500 ppmv

Precision Test: Test Concentration w/ 500 ppmv methane. Method requires average precision error be equal to or less than 10% of calibration standard value.

Date	Test 1		Test 2		Test 3		**Average**	
	ppmv	%error	ppmv	%error	ppmv	%error	ppmv	%error
10/8/2024	501		500		500		500.3	<1%
10/8/2024 post	501							

Response Time: Test Concentration w/ 500 ppm methane. Method requires response time to be less than 30 seconds to reach 90% of calibration standards (450 ppm).

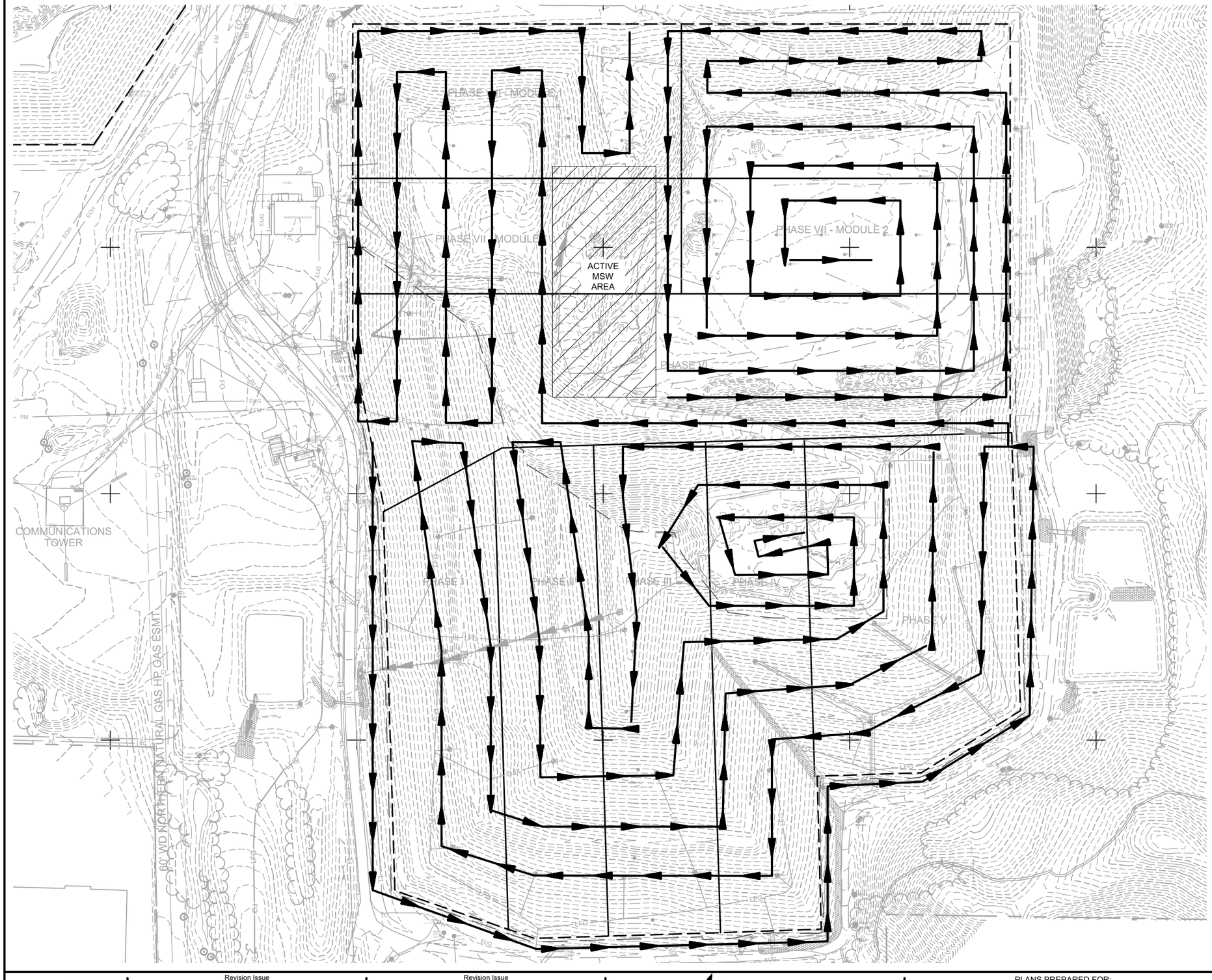
Date	Test 1 RT (Sec.)	Test 2 RT (Sec.)	Test 3 RT (Sec.)	Average RT (Sec.)
10/8/24	3	3.5	3	3.1
10/8/24 post	3			

Surface Emission Scan

Date/User	Veronica Aranda, October 8, 2024
Weather conditions (Temp., wind speed, direction, surface conditions, etc)	Sunny, 53F, 7 mph S. Areas vegetated.
Up wind BG conc. (ppmv)	0
Down wind BG conc. (ppmv)	0
Calibration check following completion (500 ppmv standard)	See precision test

Exeedance Concentration (>500 ppmv)	Location/Notes
None	None

Attachment B
Traverse Route



GENERAL NOTES:

1. CONTOUR INTERVAL IS 2-FOOT.
2. EXISTING GRADE SHOWN UPDATED WITH SURVEY BY PARAGON ASSOCIATES, INC. ON DECEMBER 27, 2023.
3. MONITORING PLAN SUBJECT TO CHANGE BASED ON FILLING AND WASTE RELOCATION OPERATIONS AT TIME OF MONITORING EVENT. AS ALLOWED BY PERMIT CONDITION 1.A.2.b(18)(d). AREAS WITH STEEP SLOPES OR OTHER DANGEROUS AREAS MAY BE EXCLUDED FROM THE MONITORING PLAN.
4. SURFACE EMISSION MONITORING CONDUCTED ON OCTOBER 8, 2024.

LEGEND

- 830 — EXISTING GRADE CONTOUR
- EUG — UNDERGROUND ELECTRIC LINE
- EOH — OVERHEAD ELECTRIC LINE
- TUG — UNDERGROUND TELEPHONE
- FOT — FIBER OPTIC
- TV — UNDERGROUND CHARTER CABLE
- W — WATER SUPPLY PIPE
- WX — WATER PIPE ABANDONED IN PLACE
- > — SANITARY SEWER PIPE
- >> — STORM WATER PIPE
- LL — LEACHATE PIPE
- FM — LEACHATE FORCEMAIN
- G — GAS PIPE
- LFG — LANDFILL GAS PIPE
- ACM — COMPRESSED AIR PIPE
- C — CONDENSATE PIPE
- DRAIN TILE PIPE
- XC — FENCE
- CLOSED DEMOLITION SITE LIMITS
- ASH MONOFILL WASTE LIMITS
- APPROVED WASTE LIMITS
- PHASED LANDFILL LIMITS
- PERMANENT EASEMENT
- PROPERTY LINE
- PAVED ROAD
- UNPAVED ROAD
- PB — PUMP BUILDING
- ET — ELECTRICAL TRANSFORMER
- PP — UTILITY POLE
- CO-2A — CLEANOUT PIPE
- MH-1 — MANHOLE
- LHW-8A — LEACHATE HEAD WELL
- GV — GAS VENT
- GW-9 — LANDFILL GAS WELL
- GP-1 — GAS PROBE
- MW-71 — GROUNDWATER MONITORING WELL
- SURFACE EMISSION MONITORING ROUTE

N

100 0 100 200
scale 50 feet

Save: 10/22/2024 11:56 AM jhagley Plot: 10/22/2024 11:57 AM X:\KO\LLACSW\176666\5-final-dsgn\51-drawings\85-HeavyCiv\2024 GENERAL SERVICES\SHEETS\LX176666_2024 SEMP.dwg

SEH Project	LACSW 176666
Drawn By	JAH
Designed By	TTR
Checked By	DRH

Rev.#	Revision Issue Description	Date
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Rev.#	Revision Issue Description	Date
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SEH
PHONE: 608.782.3161
329 JAY STREET, SUITE 301
LA CROSSE, WI 54601-4034
www.sehinc.com

PLANS PREPARED FOR:
LA CROSSE COUNTY SOLID WASTE DEPT
3200 BERLIN DRIVE
LA CROSSE, WI 54601

LA CROSSE, WISCONSIN
LA CROSSE COUNTY LANDFILL

2024 SURFACE EMISSION TRAVERSE ROUTE

1
of 1

D-2 – System Downtime

G2E Equipment Downtime

2024	Condition/Alarm	Collection System Operating/Description	Approx. Hrs No Flare
1.14-1.16	System Down	Line freeze	41
1.19-1.23	System Down	Gas Chromatograph issue-freezing	93
2.4	Engine Down	Issue with settings on Engine	0
3.8-3.11	System Down	Engine maintenance (pump change outs)	68
3.12	Engine Down	Engine maintenance Water jacket issue	3
3.14	Engine Down	Engine Maintenance Oil Change and valve changeout	2
3.19	Engine Down	Engine Maintenance controls system work	1
4.1	Engine Down	Engine Maintenance controls system work	2
5.3	Engine Down		1
5.14	Engine Down	Heat Exchanger maintenance	3
5.16	System Down	Electrician cause system fault and shutdown	2
5.27	Engine Down		0
5.30	System Down	Flare maintenance	0
6.1-6.2	Engine Down	Maintenance	24
6.7	Engine Down	Maintenance	5
6.14-6.20	System Down	Engine coupling failure, flare thermocouple replacement	124
7.13-7.14	System Down	Power outage and heating loop issues	
7.16	System Down	Condensate Drain line maintenance	3
7.26	System Down	Xcel Energy Power outage	1
7.31-8.1	System Down	Condensate Drain line maintenance	
9.4-9.5	System Down	Condensate Drain line maintenance	4
9.14-9.17	System Down	Condensate Drain line maintenance	56
9.19-9.20	System Down	Condensate Drain line maintenance	15
9.27-9.30	System Down	Condensate Drain line maintenance	68
10.15	System Down	Gundersen maintenance	1
10.18	System Down	Gas parameter levels	4
10.24-10.26	System Down	Gas parameter levels	8
11.22	Engine Down	Engine Maintenance	1
12.2-12.4	Engine Down	Engine Maintenance	1
12.9	Engine Down	Grid Issues	0
12.11-12.13	Engine Down	Grid Issues	6
12.15-12.16	Engine Down	Communication Issues	7
12.19	Engine Down	Grid Issues	0
12.23	Engine Down	Grid Issues	1
12.31	Engine Down	Grid Issues	4

D-3 – System Maintenance

Date of Inspection: 11/25/2024

Inspector Name: Jackie Davis/Unison/John Zink

Annual Inspection Log

Malfunction, Prevention, and Abatement Plan

La Crosse County Solid Waste Department

La Crosse, Wisconsin

"X" when complete	Inspection/Maintenance Activity	Notes/Comments or Actions Taken
Landfill Gas Collection System		
x	Send LFG field meter used for monthly wellfield monitoring (GEM 5000), in to factory (LANDTEC) for annual check and calibration, as recommended by manufacturer.	
x	Surface methane emissions are checked annually in accordance with the air permit. Corrective action is taken if emissions are greater than permit requirements.	
LFG Blower System		
x	Check blower motor alignment.	
x	Check coupling alignments and realign as necessary.	
x	Check nuts & bolts and tighten as necessary.	
x	Check wire connection for corrosion and tightness.	
x	Check rubber expansion joints for wear.	
x	Calibrate ST-98 flow meter. (Send to lab)	
LFG Flare Combustion System		
X	Inspect pilot gas pressure gauge. Check working bearings and teeth of the movement mechanism; clean if necessary.	
X	Confirm the correct operation of all thermocouple assemblies. Replace all if showing signs of incorrect operation.	
X	Inspect the pilot assembly, ignition rod, electrode, and insulators for damage. Repair or replace if necessary.	
X	Inspect and clean pilot gas solenoid valve (including valve strainer or filter) and internal valve parts. If parts area worn or damaged, install a complete ASCO Rebuild Kit.	
X	Inspect pilot gas pressure reducing regulator.	
x	Confirm the control logic is functioning properly and all input and output signals are correct.	
x	Confirm the integrity of conduit seals.	
X	Verify the supply power voltage.	
x	Verify power to motor starters.	
x	During operation, measure gas blower line current and voltage.	
x	Calibrate circular chart recorder (4-20mA)	
G2E Chromatograph		
X	Calibration of gas chromatograph to cal/supply gas.	

Date of Inspection: 3/8/2024

Inspector Name: Jackie Davis

Semi-Annual Inspection Log

Malfunction, Prevention, and Abatement Plan

La Crosse County Solid Waste Department

La Crosse, Wisconsin

"X" when complete	Inspection/Maintenance Activity	Notes/Comments or Actions Taken
LFG Flare Combustion System		
x	Remove the flame arrester element for cleaning if pressure differential exceeds one inch H2O	
x	Inspect all flanges and connections for indications of leaking. Repair or replace if necessary.	
x	Verify all safety shutdown devices are working properly. (See JZ manual, Section IX, “System Testing”)	
x	Remove and clean any filter elements or mesh strainers.	
G2E Blower/Compressor, Gas Conditioning Skid and Glycol Chiller		
x	Clean all strainers.	
x	Clean glycol chiller condenser.	
x	Check lamps on gas conditioning system control panel with push to test feature.	
x	Check blower belt and re-tension as necessary.	
x	Change oil on blower.	
x	Grease bearings on each end of blower motor.	
x	Verify pressure differential in knock out pot (PDI 321) and clean if differential exceeds 5 inWC.	
x	Verify glycol system operating pressure and re-fill as necessary.	
G2E Blower/Compressor, Glycol Chiller and Control Panels		
x	Verify all safety shutdown devices are working properly.	
x	Verify all auto change over systems are operating properly.	
G2E Chromatograph		
x	Visually inspect all filter assemblies.	
x	Verify start-up and shutdown procedures.	
x	Inspect all stainless steel gas supply lines for signs of wear.	

Date of Inspection: 9/19/2024 **Inspector Name:** Jackie Davis

Semi-Annual Inspection Log

Malfunction, Prevention, and Abatement Plan

La Crosse County Solid Waste Department
La Crosse, Wisconsin

"X" when complete	Inspection/Maintenance Activity	Notes/Comments or Actions Taken
LFG Flare Combustion System		
x	Remove the flame arrester element for cleaning if pressure differential exceeds one inch H2O	
x	Inspect all flanges and connections for indications of leaking. Repair or replace if necessary.	
x	Verify all safety shutdown devices are working properly. (See JZ manual, Section IX, “System Testing”)	
x	Remove and clean any filter elements or mesh strainers.	
G2E Blower/Compressor, Gas Conditioning Skid and Glycol Chiller		
x	Clean all strainers.	
x	Clean glycol chiller condenser.	
x	Check lamps on gas conditioning system control panel with push to test feature.	
x	Check blower belt and re-tension as necessary.	
x	Change oil on blower.	
x	Grease bearings on each end of blower motor.	
x	Verify pressure differential in knock out pot (PDI 321) and clean if differential exceeds 5 inWC.	
x	Verify glycol system operating pressure and re-fill as necessary.	
G2E Blower/Compressor, Glycol Chiller and Control Panels		
x	Verify all safety shutdown devices are working properly.	
x	Verify all auto change over systems are operating properly.	
G2E Chromatograph		
x	Visually inspect all filter assemblies.	
x	Verify start-up and shutdown procedures.	
x	Inspect all stainless steel gas supply lines for signs of wear.	

Monthly Inspection Log

Malfunction, Prevention, and Abatement Plan
La Crosse County Solid Waste Department
La Crosse, Wisconsin

Date of Inspection: **1/27/2024** **Inspector Name:** **Jackie Davis**

"X" when complete	Inspection/Maintenance Activity	Notes/Comments or Actions Taken
Landfill Gas Collection System		
X	Calibrate LFG field meters used for monthly well field monitoring (Land GEM 5000), as applicable	Complete as part of Gas Balance
X	Monitor and inspect each gas collection well for equipment malfunctions, leaks in gas well head piping, sample ports, leachate pump condition, cap cracks, vegetation distress and other signs of needed maintenance.	Complete as part of Gas Balance
LFG Blower System		
X	Purge bearings with new grease to remove condensation if needed. Use caution as excessive pressure can damage the seals (see JZ manual, tab 11, p.5).	
X	Check for unusual vibrations or noises, locate and repair. If system has not been operated, bump blowers to confirm operation.	
X	Exercise all valves to ensure proper operation.	
LFG Flare Combustion System		
X	Confirm panel enclosure heater is functioning. (September - April)	
X	Inspect any gauges and valves for deterioration	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	
X	Change temperature chart recorder paper and verify chart values are accurate based off of ST-98 digital display readings. Confirm thermocouple readings match ambient temperatures.	
X	Operate pilot gas solenoid valve to insure proper opening and closing. Verify pilot ignition.	
X	Visually inspect the flare stack and windshield for damage or deterioration.	
G2E Blower/Compressor, Glycol Chiller and Control Panels		
X	Confirm glycol choller control panel enclosure fan and temperature controllers are functioning and air filter is clean.	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	

Monthly Inspection Log

Malfunction, Prevention, and Abatement Plan
La Crosse County Solid Waste Department
La Crosse, Wisconsin

Date of Inspection: **2/26/2024** **Inspector Name:** **Jackie Davis**

"X" when complete	Inspection/Maintenance Activity	Notes/Comments or Actions Taken
Landfill Gas Collection System		
X	Calibrate LFG field meters used for monthly well field monitoring (Land GEM 5000), as applicable	Complete as part of Gas Balance
X	Monitor and inspect each gas collection well for equipment malfunctions, leaks in gas well head piping, sample ports, leachate pump condition, cap cracks, vegetation distress and other signs of needed maintenance.	Complete as part of Gas Balance
LFG Blower System		
X	Purge bearings with new grease to remove condensation if needed. Use caution as excessive pressure can damage the seals (see JZ manual, tab 11, p.5).	
X	Check for unusual vibrations or noises, locate and repair. If system has not been operated, bump blowers to confirm operation.	
X	Exercise all valves to ensure proper operation.	
LFG Flare Combustion System		
X	Confirm panel enclosure heater is functioning. (September - April)	
X	Inspect any gauges and valves for deterioration	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	
X	Change temperature chart recorder paper and verify chart values are accurate based off of ST-98 digital display readings. Confirm thermocouple readings match ambient temperatures.	
X	Operate pilot gas solenoid valve to insure proper opening and closing. Verify pilot ignition.	
X	Visually inspect the flare stack and windshield for damage or deterioration.	
G2E Blower/Compressor, Glycol Chiller and Control Panels		
X	Confirm glycol choller control panel enclosure fan and temperature controllers are functioning and air filter is clean.	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	

Monthly Inspection Log

Malfunction, Prevention, and Abatement Plan
La Crosse County Solid Waste Department
La Crosse, Wisconsin

Date of Inspection: 3/28/2024 **Inspector Name:** Jackie Davis

"X" when complete	Inspection/Maintenance Activity	Notes/Comments or Actions Taken
Landfill Gas Collection System		
X	Calibrate LFG field meters used for monthly well field monitoring (Land GEM 5000), as applicable	Complete as part of Gas Balance
X	Monitor and inspect each gas collection well for equipment malfunctions, leaks in gas well head piping, sample ports, leachate pump condition, cap cracks, vegetation distress and other signs of needed maintenance.	Complete as part of Gas Balance
LFG Blower System		
X	Purge bearings with new grease to remove condensation if needed. Use caution as excessive pressure can damage the seals (see JZ manual, tab 11, p.5).	
X	Check for unusual vibrations or noises, locate and repair. If system has not been operated, bump blowers to confirm operation.	
X	Exercise all valves to ensure proper operation.	
LFG Flare Combustion System-Not running G-2-E Enging currently back online		
X	Confirm panel enclosure heater is functioning. (September - April)	
X	Inspect any gauges and valves for deterioration	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	
X	Change temperature chart recorder paper and verify chart values are accurate based off of ST-98 digital display readings. Confirm thermocouple readings match ambient temperatures.	
X	Operate pilot gas solenoid valve to insure proper opening and closing. Verify pilot ignition.	
X	Visually inspect the flare stack and windshield for damage or deterioration.	
G2E Blower/Compressor, Glycol Chiller and Control Panels		
X	Confirm glycol choller control panel enclosure fan and temperature controllers are functioning and air filter is clean.	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	

Monthly Inspection Log

Malfunction, Prevention, and Abatement Plan
La Crosse County Solid Waste Department
La Crosse, Wisconsin

Date of Inspection: **4/30/2024**

Inspector Name: **Jackie Davis and Melisa Goergen**

"X" when complete	Inspection/Maintenance Activity	Notes/Comments or Actions Taken
Landfill Gas Collection System		
X	Calibrate LFG field meters used for monthly well field monitoring (Land GEM 5000), as applicable	Complete as part of Gas Balance
X	Monitor and inspect each gas collection well for equipment malfunctions, leaks in gas well head piping, sample ports, leachate pump condition, cap cracks, vegetation distress and other signs of needed maintenance.	Complete as part of Gas Balance
LFG Blower System		
X	Purge bearings with new grease to remove condensation if needed. Use caution as excessive pressure can damage the seals (see JZ manual, tab 11, p.5).	
X	Check for unusual vibrations or noises, locate and repair. If system has not been operated, bump blowers to confirm operation.	
X	Exercise all valves to ensure proper operation.	
LFG Flare Combustion System		
X	Confirm panel enclosure heater is functioning. (September - April)	
X	Inspect any gauges and valves for deterioration	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	
X	Change temperature chart recorder paper and verify chart values are accurate based off of ST-98 digital display readings. Confirm thermocouple readings match ambient temperatures.	
X	Operate pilot gas solenoid valve to insure proper opening and closing. Verify pilot ignition.	
X	Visually inspect the flare stack and windshield for damage or deterioration.	
G2E Blower/Compressor, Glycol Chiller and Control Panels		
X	Confirm glycol choller control panel enclosure fan and temperature controllers are functioning and air filter is clean.	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	

Monthly Inspection Log

Malfunction, Prevention, and Abatement Plan
La Crosse County Solid Waste Department
La Crosse, Wisconsin

Date of Inspection: **Inspector Name:**
5/29/2024 **Jackie Davis, Melisa Goergen , and Jadd Stilwell**

"X" when complete	Inspection/Maintenance Activity	Notes/Comments or Actions Taken
Landfill Gas Collection System		
X	Calibrate LFG field meters used for monthly well field monitoring (Land GEM 5000), as applicable	Complete as part of Gas Balance
X	Monitor and inspect each gas collection well for equipment malfunctions, leaks in gas well head piping, sample ports, leachate pump condition, cap cracks, vegetation distress and other signs of needed maintenance.	Complete as part of Gas Balance
LFG Blower System		
X	Purge bearings with new grease to remove condensation if needed. Use caution as excessive pressure can damage the seals (see JZ manual, tab 11, p.5).	
X	Check for unusual vibrations or noises, locate and repair. If system has not been operated, bump blowers to confirm operation.	
X	Exercise all valves to ensure proper operation.	
LFG Flare Combustion System		
X	Confirm panel enclosure heater is functioning. (September - April)	
X	Inspect any gauges and valves for deterioration	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	
X	Change temperature chart recorder paper and verify chart values are accurate based off of ST-98 digital display readings. Confirm thermocouple readings match ambient temperatures.	
X	Operate pilot gas solenoid valve to insure proper opening and closing. Verify pilot ignition.	
X	Visually inspect the flare stack and windshield for damage or deterioration.	
G2E Blower/Compressor, Glycol Chiller and Control Panels		
X	Confirm glycol choller control panel enclosure fan and temperature controllers are functioning and air filter is clean.	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	

Monthly Inspection Log

Malfunction, Prevention, and Abatement Plan
La Crosse County Solid Waste Department
La Crosse, Wisconsin

Date of Inspection: 6/25/2024 **Inspector Name:** Jackie Davis

"X" when complete	Inspection/Maintenance Activity	Notes/Comments or Actions Taken
Landfill Gas Collection System		
X	Calibrate LFG field meters used for monthly well field monitoring (Land GEM 5000), as applicable	Complete as part of Gas Balance
X	Monitor and inspect each gas collection well for equipment malfunctions, leaks in gas well head piping, sample ports, leachate pump condition, cap cracks, vegetation distress and other signs of needed maintenance.	Complete as part of Gas Balance
LFG Blower System		
X	Purge bearings with new grease to remove condensation if needed. Use caution as excessive pressure can damage the seals (see JZ manual, tab 11, p.5).	
X	Check for unusual vibrations or noises, locate and repair. If system has not been operated, bump blowers to confirm operation.	
X	Exercise all valves to ensure proper operation.	
LFG Flare Combustion System		
X	Confirm panel enclosure heater is functioning. (September - April)	
X	Inspect any gauges and valves for deterioration	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	
X	Change temperature chart recorder paper and verify chart values are accurate based off of ST-98 digital display readings. Confirm thermocouple readings match ambient temperatures.	
X	Operate pilot gas solenoid valve to insure proper opening and closing. Verify pilot ignition.	
X	Visually inspect the flare stack and windshield for damage or deterioration.	
G2E Blower/Compressor, Glycol Chiller and Control Panels		
X	Confirm glycol choller control panel enclosure fan and temperature controllers are functioning and air filter is clean.	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	

Monthly Inspection Log

Malfunction, Prevention, and Abatement Plan
La Crosse County Solid Waste Department
La Crosse, Wisconsin

Date of Inspection: **Inspector Name:**
7/30/2024 **Jackie Davis and John Zink technician semi-annual maintenance**

"X" when complete	Inspection/Maintenance Activity	Notes/Comments or Actions Taken
Landfill Gas Collection System		
X	Calibrate LFG field meters used for monthly well field monitoring (Land GEM 5000), as applicable	Complete as part of Gas Balance
X	Monitor and inspect each gas collection well for equipment malfunctions, leaks in gas well head piping, sample ports, leachate pump condition, cap cracks, vegetation distress and other signs of needed maintenance.	Complete as part of Gas Balance
LFG Blower System		
X	Purge bearings with new grease to remove condensation if needed. Use caution as excessive pressure can damage the seals (see JZ manual, tab 11, p.5).	
X	Check for unusual vibrations or noises, locate and repair. If system has not been operated, bump blowers to confirm operation.	
X	Exercise all valves to ensure proper operation.	
LFG Flare Combustion System		
X	Confirm panel enclosure heater is functioning. (September - April)	
X	Inspect any gauges and valves for deterioration	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	
X	Change temperature chart recorder paper and verify chart values are accurate based off of ST-98 digital display readings. Confirm thermocouple readings match ambient temperatures.	
X	Operate pilot gas solenoid valve to insure proper opening and closing. Verify pilot ignition.	
X	Visually inspect the flare stack and windshield for damage or deterioration.	
G2E Blower/Compressor, Glycol Chiller and Control Panels		
X	Confirm glycol choller control panel enclosure fan and temperature controllers are functioning and air filter is clean.	Cleaned
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	

Monthly Inspection Log

Malfunction, Prevention, and Abatement Plan
La Crosse County Solid Waste Department
La Crosse, Wisconsin

Date of Inspection: 8/27/2024 **Inspector Name:** Jackie Davis

"X" when complete	Inspection/Maintenance Activity	Notes/Comments or Actions Taken
Landfill Gas Collection System		
X	Calibrate LFG field meters used for monthly well field monitoring (Land GEM 5000), as applicable	Complete as part of Gas Balance
X	Monitor and inspect each gas collection well for equipment malfunctions, leaks in gas well head piping, sample ports, leachate pump condition, cap cracks, vegetation distress and other signs of needed maintenance.	Complete as part of Gas Balance
LFG Blower System		
X	Purge bearings with new grease to remove condensation if needed. Use caution as excessive pressure can damage the seals (see JZ manual, tab 11, p.5).	
X	Check for unusual vibrations or noises, locate and repair. If system has not been operated, bump blowers to confirm operation.	
X	Exercise all valves to ensure proper operation.	
LFG Flare Combustion System		
X	Confirm panel enclosure heater is functioning. (September - April)	
X	Inspect any gauges and valves for deterioration	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	
X	Change temperature chart recorder paper and verify chart values are accurate based off of ST-98 digital display readings. Confirm thermocouple readings match ambient temperatures.	
X	Operate pilot gas solenoid valve to insure proper opening and closing. Verify pilot ignition.	
X	Visually inspect the flare stack and windshield for damage or deterioration.	
G2E Blower/Compressor, Glycol Chiller and Control Panels		
X	Confirm glycol choller control panel enclosure fan and temperature controllers are functioning and air filter is clean.	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	

Monthly Inspection Log

Malfunction, Prevention, and Abatement Plan
La Crosse County Solid Waste Department
La Crosse, Wisconsin

Date of Inspection: **9/19/2024** **Inspector Name:** **Jackie Davis**

"X" when complete	Inspection/Maintenance Activity	Notes/Comments or Actions Taken
Landfill Gas Collection System		
X	Calibrate LFG field meters used for monthly well field monitoring (Land GEM 5000), as applicable	Complete as part of Gas Balance
X	Monitor and inspect each gas collection well for equipment malfunctions, leaks in gas well head piping, sample ports, leachate pump condition, cap cracks, vegetation distress and other signs of needed maintenance.	Complete as part of Gas Balance
LFG Blower System		
X	Purge bearings with new grease to remove condensation if needed. Use caution as excessive pressure can damage the seals (see JZ manual, tab 11, p.5).	
X	Check for unusual vibrations or noises, locate and repair. If system has not been operated, bump blowers to confirm operation.	
X	Exercise all valves to ensure proper operation.	
LFG Flare Combustion System		
X	Confirm panel enclosure heater is functioning. (September - April)	
X	Inspect any gauges and valves for deterioration	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	
X	Change temperature chart recorder paper and verify chart values are accurate based off of ST-98 digital display readings. Confirm thermocouple readings match ambient temperatures.	
X	Operate pilot gas solenoid valve to insure proper opening and closing. Verify pilot ignition.	
X	Visually inspect the flare stack and windshield for damage or deterioration.	
G2E Blower/Compressor, Glycol Chiller and Control Panels		
X	Confirm glycol choller control panel enclosure fan and temperature controllers are functioning and air filter is clean.	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	

Monthly Inspection Log

Malfunction, Prevention, and Abatement Plan
La Crosse County Solid Waste Department
La Crosse, Wisconsin

Date of Inspection: **10/23/2024**
Inspector Name: **Jackie Davis**

"X" when complete	Inspection/Maintenance Activity	Notes/Comments or Actions Taken
Landfill Gas Collection System		
X	Calibrate LFG field meters used for monthly well field monitoring (Land GEM 5000), as applicable	Complete as part of Gas Balance
X	Monitor and inspect each gas collection well for equipment malfunctions, leaks in gas well head piping, sample ports, leachate pump condition, cap cracks, vegetation distress and other signs of needed maintenance.	Complete as part of Gas Balance
LFG Blower System		
X	Purge bearings with new grease to remove condensation if needed. Use caution as excessive pressure can damage the seals (see JZ manual, tab 11, p.5).	
X	Check for unusual vibrations or noises, locate and repair. If system has not been operated, bump blowers to confirm operation.	
X	Exercise all valves to ensure proper operation.	
LFG Flare Combustion System		
X	Confirm panel enclosure heater is functioning. (September - April)	
X	Inspect any gauges and valves for deterioration	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	
X	Change temperature chart recorder paper and verify chart values are accurate based off of ST-98 digital display readings. Confirm thermocouple readings match ambient temperatures.	
X	Operate pilot gas solenoid valve to insure proper opening and closing. Verify pilot ignition.	
X	Visually inspect the flare stack and windshield for damage or deterioration.	
G2E Blower/Compressor, Glycol Chiller and Control Panels		
X	Confirm glycol choller control panel enclosure fan and temperature controllers are functioning and air filter is clean.	
X	Inspect all electrical enclosures for any apparent corrosion or moisture.	

Monthly Inspection Log

Malfunction, Prevention, and Abatement Plan
La Crosse County Solid Waste Department
La Crosse, Wisconsin

Date of Inspection: 11/25/2024 **Inspector Name:** Jackie Davis

"X" when complete	Inspection/Maintenance Activity	Notes/Comments or Actions Taken
Landfill Gas Collection System		
x	Calibrate LFG field meters used for monthly well field monitoring (Land GEM 2000+), as applicable	Complete as part of Gas Balance
x	Monitor and inspect each gas collection well for equipment malfunctions, leaks in gas well head piping, sample ports, leachate pump condition, cap cracks, vegetation distress and other signs of needed maintenance.	Complete as part of Gas Balance
LFG Blower System		
x	Purge bearings with new grease to remove condensation if needed. Use caution as excessive pressure can damage the seals (see JZ manual, tab 11, p.5).	
x	Check for unusual vibrations or noises, locate and repair. If system has not been operated, bump blowers to confirm operation.	
x	Exercise all valves to ensure proper operation.	
LFG Flare Combustion System		
x	Confirm panel enclosure heater is functioning. (September - April)	
x	Inspect any gauges and valves for deterioration	
x	Inspect all electrical enclosures for any apparent corrosion or moisture.	
x	Change temperature chart recorder paper and verify chart values are accurate based off of ST-98 digital display readings. Confirm thermocouple readings match ambient temperatures.	
x	Operate pilot gas solenoid valve to insure proper opening and closing. Verify pilot ignition.	
x	Visually inspect the flare stack and windshield for damage or deterioration.	
G2E Blower/Compressor, Glycol Chiller and Control Panels		
x	Confirm glycol choller control panel enclosure fan and temperature controllers are functioning and air filter is clean.	
x	Inspect all electrical enclosures for any apparent corrosion or moisture.	

Monthly Inspection Log

Malfunction, Prevention, and Abatement Plan
La Crosse County Solid Waste Department
La Crosse, Wisconsin

Date of Inspection: 12/22/2024 **Inspector Name:** Jackie Davis

"X" when complete	Inspection/Maintenance Activity	Notes/Comments or Actions Taken
Landfill Gas Collection System		
x	Calibrate LFG field meters used for monthly well field monitoring (Land GEM 5000), as applicable	Complete as part of Gas Balance
x	Monitor and inspect each gas collection well for equipment malfunctions, leaks in gas well head piping, sample ports, leachate pump condition, cap cracks, vegetation distress and other signs of needed maintenance.	Complete as part of Gas Balance
LFG Blower System		
x	Purge bearings with new grease to remove condensation if needed. Use caution as excessive pressure can damage the seals (see JZ manual, tab 11, p.5).	
x	Check for unusual vibrations or noises, locate and repair. If system has not been operated, bump blowers to confirm operation.	
x	Exercise all valves to ensure proper operation.	
LFG Flare Combustion System		
x	Confirm panel enclosure heater is functioning. (September - April)	
x	Inspect any gauges and valves for deterioration	
x	Inspect all electrical enclosures for any apparent corrosion or moisture.	
x	Change temperature chart recorder paper and verify chart values are accurate based off of ST-98 digital display readings. Confirm thermocouple readings match ambient temperatures.	
x	Operate pilot gas solenoid valve to insure proper opening and closing. Verify pilot ignition.	
x	Visually inspect the flare stack and windshield for damage or deterioration.	
G2E Blower/Compressor, Glycol Chiller and Control Panels		
x	Confirm glycol choller control panel enclosure fan and temperature controllers are functioning and air filter is clean.	
x	Inspect all electrical enclosures for any apparent corrosion or moisture.	

La Crosse County Solid Waste Management Facility
Semi-Annual Monitoring Report
January 1, 2024, through June 30, 2024
Air Operation Permit No. 63206363A-P11

On behalf of La Crosse County, Short Elliott Hendrickson Inc. (SEH®) has prepared this Semi-Annual Monitoring Report for the La Crosse County Solid Waste Management Facility ("the Facility") for the January 1, 2024, through June 30, 2024, reporting period. The Facility operated under Air Operation Permit No. 63206363A-P20, issued on January 2, 2024.

This report is being submitted to the Wisconsin Department of Natural Resources (WDNR) to comply with permit condition I.ZZZ.1.a.(1) which requires that "results of monitoring or a summary of the monitoring results required by this permit" shall be submitted to the WDNR. The report shall be submitted for the January 1 through June 30 period by September 1. In addition, all deviations from and violations of applicable requirements shall be clearly identified in the report, and each submittal shall be certified by a responsible official as to the truth, accuracy and completeness of the report.

A summary of the monitoring conducted during this reporting period (and the permit section requiring the monitoring) is presented below.

1. **I.A.2.a. (21) and (29) – Monitoring of flare (C01)**
   Landfill gas flow to the flare occurred 9.5% of the time during this monitoring period. Deviation notifications associated with flare flow monitoring were submitted on 3/11, 3/12, 4/6, and 4/29. Each deviation was associated with an interruption of monitoring due to calibration of the flow meter. A standardized flow rate was used to estimate flow to the flare between 3/11 and 4/29, if flow was directed to the flare.

   A thermocouple is in place to detect flare flame. Thermocouple temperature is continuously monitored. When the flare is down or undergoing maintenance, the LFG header closes, and no gas is routed to flare.

   Deviation notifications associated with flare pilot temperature monitoring were submitted on 5/3, 5/30, and 6/17. Landfill gas was not directed to the flare during any of these events and the flare was not in operation.

2. **I.A.2.a. (22) and (30) Monitoring of the Landfill Gas to Energy (LFGTE) Treatment System**
   Landfill gas flow to the treatment system is continuously monitored. Flow to the treatment system occurred 90.5% of the time during this monitoring period.

3. **I.A.2.a.(14) and (20)(a) – Monthly collection header and well head monitoring for pressure.**
   Pressure readings were recorded monthly at the collection header, all vertical gas extraction wells and the STOCs. No positive pressure readings were recorded during this reporting period.

4. **I.A.2.a.(15) and (20)(c) – Monthly well head monitoring for temperature.**
   Temperature readings were recorded monthly at all vertical gas extraction wells and the STOCs. No temperature exceedances (131 °F) were recorded during this

reporting period.

5. **I.A.2.a.(20)(b) and (32)(b) – Monthly well head monitoring for oxygen.**
   Oxygen readings were recorded monthly at all vertical gas extraction wells and the STOCs. No oxygen readings above 5% were recorded during this reporting period.

6. **I.A.2.a. (17) and (18) – Annual landfill surface monitoring for methane concentrations of 500 ppm or more above the background concentration.**
   Annual surface monitoring was performed on November 15, 2023. The next surface monitoring is anticipated to be performed during fall 2024.

7. **I.A.2.a.(17)(e) – Monthly inspections of cover integrity.**
   The closed areas of the landfill are inspected on a monthly basis during the gas extraction well monitoring events. No repairs to the cover were required during this reporting period.

8. **I.A.1a.a.(62.16726)(a) and I.A.2.a.(16) – Up-to-date records of the installation date and location of each well, horizontal collector, surface collector, and other gas extraction device that comprise the landfill gas collection system.**
   Records relating to the landfill gas collection system and associated infrastructure are maintained at the landfill office. No new temporary odor control wells were connected to or removed from the landfill gas collection system during this semi-annual period.

9. **I.ZZZ.1.a.(d) – All deviations from and violations of applicable requirements.**
   On 3/11/2024, the flowmeter for the flare was disconnected for annual calibration. The flow could not be monitored, but the flare was still utilized, and the flow was calculated using a standard rate. Upon receipt of the meter, it was reinstalled. No landfill gas was sent to the flare when a flame was not present, and no untreated gas was vented to the atmosphere. A Notification of Deviation was submitted to the WDNR on 3/11/2024.

   On 3/12/2024, the flowmeter for the flare was disconnected for annual calibration. The flow could not be monitored, but the flare was still utilized, and the flow was calculated using a standard rate. Upon receipt of the meter, it was reinstalled. No landfill gas was sent to the flare when a flame was not present, and no untreated gas was vented to the atmosphere. A Notification of Deviation was submitted to the WDNR on 3/12/2024.

   On 4/5/2024, the flowmeter for the flare was disconnected for annual calibration. The flow could not be monitored, but the flare was still utilized, and the flow was calculated using a standard rate. No landfill gas was sent to the flare when a flame was not present, and no untreated landfill gas was vented to the atmosphere. After the flow meter was returned, it was found the meter was incorrectly wired, so it was resent for repair. Upon receipt of the meter, it was reinstalled. A Notification of Deviation was submitted to the WDNR on 4/29/2024

   From 3/11/2024 to 4/29/2024, reinstallation of the ST98 flow meter from calibration resulted in an erroneous spike on the thermal chart. No gas was sent to the flare.

Upon receipt of the meter, it was reinstalled. No landfill gas was sent to the flare when a flame was not present, and no untreated landfill gas was vented to the atmosphere. A Notification of Deviation was submitted to the WDNR on 4/6/2024

From 5/1/2024-5/3/2024, The thermal chart was dislodged from the wheel, causing an overlap in chart readings. The chart was reinstalled, and recording was restarted. No landfill gas was sent to the flare. No landfill gas was sent to the flare when a flame was not present, and no untreated landfill gas was vented to the atmosphere. A Notification of Deviation was submitted to the WDNR on 5/3/2024

On 5/30/2024, a flare technician was on site to perform a semi-annual inspection. Powering down the flare caused an improper reading on the flare thermal chart. The system was not operational during the inspection. No landfill gas was sent to the flare when a flame was not present, and no untreated landfill gas was vented to the atmosphere. A Notification of Deviation was submitted to the WDNR on 5/30/2024

From 6/13/2024-6/17/2024, the TC201 main flare thermo couple failure resulted in an improper recording on the flare thermal recorder. The system was not in operation during the failure. No landfill gas was sent to the flare when a flame was not present, and no untreated landfill gas was vented to the atmosphere. A Notification of Deviation was submitted to the WDNR on 6/17/2024

The required certification by a responsible official in accordance with NR 439.03(1)(b), Wis. Adm. Code is included below. This report covers the six-month period from January 1, 2024, through June 30, 2024.

Certification Statement

I am a responsible official for the La Crosse County Solid Waste Management Facility and have reviewed the facility's monitoring summary for the reporting period specified above. Based on the information and belief formed after reasonable inquiry, I certify that the statements and information in this document are true, accurate, and complete.

Signed

Jadd Stilwell
Printed Name

8/30/2024
Date

Director
Title

PAS/ELH
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La Crosse County Solid Waste Management Facility
Semi-Annual Monitoring Report
July 1, 2024, through December 31, 2024
Air Operation Permit No. 63206363A-P11

On behalf of La Crosse County, Short Elliott Hendrickson Inc. (SEH®) has prepared this Semi-Annual Monitoring Report for the La Crosse County Solid Waste Management Facility ("the Facility") for the July 1, 2024, through December 31, 2024, reporting period. The Facility operated under Air Operation Permit No. 63206363A-P20, issued on January 2, 2024.

This report is being submitted to the Wisconsin Department of Natural Resources (WDNR) to comply with permit condition I.ZZZ.1.a.(1) which requires that "results of monitoring or a summary of the monitoring results required by this permit" shall be submitted to the WDNR. The report shall be submitted for the July 1 through December 31 period by March 1. In addition, all deviations from and violations of applicable requirements shall be clearly identified in the report, and each submittal shall be certified by a responsible official as to the truth, accuracy and completeness of the report.

A summary of the monitoring conducted during this reporting period (and the permit section requiring the monitoring) is presented below.

1. **I.A.2.a. (21) and (29) – Monitoring of flare (C01)**
   Landfill gas flow to the flare occurred 9.1% of the time during this monitoring period.

   A thermocouple is in place to detect flare flame. Thermocouple temperature is continuously monitored. When the flare is down or undergoing maintenance, the LFG header closes, and no gas is routed to flare.

   A deviation notification associated with flare pilot temperature monitoring was submitted on 11/25/24. The deviation occurred during the semi-annual inspection of the flare. Landfill gas was not directed to the flare during this event and the flare was not in operation.

2. **I.A.2.a. (22) and (30) Monitoring of the Landfill Gas to Energy (LFGTE) Treatment System**
   Landfill gas flow to the treatment system is continuously monitored. Flow to the treatment system occurred 90.9% of the time during this monitoring period.

3. **I.A.2.a.(14) and (20)(a) – Monthly collection header and well head monitoring for pressure.**
   Pressure readings were recorded monthly at the collection header, all vertical gas extraction wells and the STOCs. No positive pressure readings were recorded during this reporting period.

4. **I.A.2.a.(15) and (20)(c) – Monthly well head monitoring for temperature.**
   Temperature readings were recorded monthly at all vertical gas extraction wells and the STOCs. No temperature exceedances (131 °F) were recorded during this

reporting period.

5. **I.A.2.a.(20)(b) and (32)(b) – Monthly well head monitoring for oxygen.** Oxygen readings were recorded monthly at all vertical gas extraction wells and the STOCs. No oxygen readings above 5% were recorded during this reporting period.

6. **I.A.2.a. (17) and (18) – Annual landfill surface monitoring for methane concentrations of 500 ppm or more above the background concentration.** Annual surface monitoring was performed on October 8, 2024. The next surface monitoring is anticipated to be performed during fall 2025.

7. **I.A.2.a.(17)(e) – Monthly inspections of cover integrity.** The closed areas of the landfill are inspected on a monthly basis during the gas extraction well monitoring events. No repairs to the cover were required during this reporting period.

8. **I.A.1a.a.(62.16726)(a) and I.A.2.a.(16) – Up-to-date records of the installation date and location of each well, horizontal collector, surface collector, and other gas extraction device that comprise the landfill gas collection system.** Records relating to the landfill gas collection system and associated infrastructure are maintained at the landfill office. No new temporary odor control wells were connected to or removed from the landfill gas collection system during this semi-annual period.

9. **I.ZZZ.1.a.(d) – All deviations from and violations of applicable requirements.** On 11/25/2024, a flare technician was on site to perform a semi-annual inspection. Powering down the flare caused an improper reading on the flare thermal chart. The system was not operational during the inspection. No landfill gas was sent to the flare when a flame was not present, and no untreated landfill gas was vented to the atmosphere. A Notification of Deviation was submitted to the WDNR on 11/26/2024.

The required certification by a responsible official in accordance with NR 439.03(1)(b), Wis. Adm. Code is included below. This report covers the six-month period from July 1, 2024, through December 31, 2024.

Certification Statement

I am a responsible official for the La Crosse County Solid Waste Management Facility and have reviewed the facility's monitoring summary for the reporting period specified above. Based on the information and belief formed after reasonable inquiry, I certify that the statements and information in this document are true, accurate, and complete.

Signed

Jadd Stilwell
Printed Name

Feb 13, 2025
Date

Director
Title

PAS/ELH
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La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - 40 CFR Part 62 Supbart OOO
Air Permit No. 63206363A-P20
January 1, 2024 through June 30, 2024

Emitting Unit	Rule Citation	Requirements	Any Deviations		Notes
			Yes	No	
40 CFR Part 62, Subpart OOO	62.16711 Designated Facilities	La Crosse County Solid Waste Management Facility is a designated facility to which 40 CFR Part 62, Subpart OOO applies.		X	Initial Notifications submitted September 20, 2021.
40 CFR Part 62, Subpart OOO	62.16714(e)(1)(i) and (ii) Standards for municipal solid waste landfill emissions.	*Emissions.* The owner or operator must calculate an initial NMOC emission rate for the landfill using the procedures specified in § 62.16718(a). The NMOC emission rate must be recalculated annually, except as provided in § 62.16724(c)(3). (1) The owner or operator must: (i) Submit an annual NMOC emission rate report according to § 62.16724(c), except as provided in 62.16724(c)(3); and (ii) Recalculate the NMOC emission rate annually using the procedures specified in § 62.16724(a) until such time as the calculated NMOC emission rate is equal to or greater than 34 megagrams per year, or the landfill is closed. (A) If the calculated NMOC emission rate, upon initial calculation or annual recalculation required in 40 CFR s.62.16714(e)(1)(ii), is equal to or greater than 34 megagrams per year, the owner or operator must either: Comply with paragraphs 40 CFR s.62.16714(b) and (c); calculate NMOC emissions using the next higher tier in 40 CFR s. 62.16718; or conduct a surface emission monitoring demonstration using the procedures specified in 40 CFR s. 62.16718(a)(6). (B) If the landfill is permanently closed, a closure report must be submitted to the Administrator as provided in 40 CFR s. 62.16724(f).		X	NMOC Emission Rate Report submitted to WDNR in June 15, 2021. NMOC emission rate less than 34 Mg/yr. Next NMOC due June 2026.
40 CFR Part 62, Subpart OOO	62.16718 Test Methods and Procedures	Calculate the landfill NMOC emission rate and conduct a surface emission monitoring demonstration according to the provisions in this section. (see permit for details)		X	Tier 2 methodology used.
40 CFR Part 62, Subpart OOO	62.16724 Reporting Guidelines (b) Amended design capacity report	b) *Amended design capacity report.* An amended design capacity report must be submitted providing notification of an increase in the design capacity of the landfill, within 90 days of an increase in the maximum design capacity of the landfill to meet or exceed 2.5 million megagrams and 2.5 million cubic meters. This increase in design capacity may result from an increase in the permitted volume of the landfill or an increase in the density.		X	Not applicable for this reporting period.

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			Yes	No	
40 CFR Part 62, Subpart OOO	62.16724 Reporting Guidelines (c) NMOC emission rate report.	(c) *NMOC emission rate report.* The NMOC emission rate report must be submitted following the procedure specified in paragraph 40 CFR s. 62.16724(j)(2) of this section no later than 90 days after the effective date of 40 CFR Part 62 Subpart OOO. The NMOC emission rate report must be submitted to the Administrator and the department annually following the procedure specified in paragraph 40 CFR s. 62.16724(j)(2) of this section, except as provided for in paragraph 40 CFR s. 62.16724(c)(3). The Administrator and the department may request such additional information as may be necessary to verify the reported NMOC emission rate. (1) The NMOC emission rate report must contain an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures provided in 40 CFR s. 62.16718(a). (2) The NMOC emission rate report must include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions. (3) If the estimated NMOC emission rate as reported in the annual report to the Administrator is less than 34 megagrams per year in each of the next 5 consecutive years, the owner or operator may elect to submit, following the procedure specified in 40 CFR s. 62.16724(j)(2), an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report. This estimate must include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the 5 years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based must be provided to the Administrator and the department. This estimate must be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate must be submitted to the Administrator and the department. The revised estimate must cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.			NMOC Emission Rate Report submitted to WDNR in June 15, 2021. NMOC emission rate less than 34 Mg/yr. Next NMOC due June 2026.
40 CFR Part 62, Subpart OOO	62.16724 Reporting Guidelines (j) Electronic reporting	(j) *Electronic reporting* . The owner or operator must submit reports electronically according to 40 CFR s. 62.16724(j)(1) and (2). (see permit for details)		**X**	Report was submitted via CEDRI.

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Emitting Unit	Rule Citation	Requirements	Any Deviations		Notes
			Yes	No	
40 CFR Part 62, Subpart OOO	62.16724 Reporting Guidelines (l) Liquids addition	(l) Liquids addition. The owner or operator that has employed leachate recirculation or added liquids based on a Research, Development, and Demonstration permit (issued through Resource Conservation and Recovery Act (RCRA), subtitle D, part 258) within the last 10 years must submit to the Administrator, annually, following the procedure specified in paragraph 40 CFR s. 62.16724(j)(2), the following information: (1)Volume of leachate recirculated (gallons per year) and the reported basis of those estimates (records or engineering estimates). (2) Total volume of all other liquids added (gallons per year) and the reported basis of those estimates (records or engineering estimates). (3) Surface area (acres) over which the leachate is recirculated (or otherwise applied). (4) Surface area (acres) over which any other liquids are applied. (5) The total waste disposed (megagrams) in the areas with recirculated leachate and/or added liquids based on on-site records to the extent data are available, or engineering estimates and the reported basis of those estimates. (6) The annual waste acceptance rates (megagrams per year) in the areas with recirculated leachate and/or added liquids, based on on-site records to the extent data are available, or engineering estimates. (7) The initial report must contain items in paragraph (l)(1) through (6) of this section per year for the most recent 365 days as well as for each of the previous 10 years, to the extent historical data are available in on-site records, and the report must be submitted no later than June 21, 2022. (8) Subsequent annual reports must contain items in paragraph (l)(1) through (6) of this section for the 365-day period following the 365-day period included in the previous annual report, and the report must be submitted no later than 365 days after the date the previous report was submitted. (10) Landfills may cease annual reporting of items in paragraphs (l)(1) through (6) of this section once they have submitted the closure report in § 62.16724(f).	X		Report submitted June 4, 2024.

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Emitting Unit	Rule Citation	Requirements	Any Deviations		Notes
			Yes	No	
40 CFR Part 62, Subpart OOO	62.16726 Recordkeeping Guidelines	(a) Except as provided in 40 CFR 62.16724(d)(2), the owner or operator must keep for at least 5 years up-to-date, readily accessible, on-site records of the design capacity report that triggered 40 CFR s. 62.16714(e), the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable. (i) Any records required to be maintained by this subpart that are submitted electronically via the EPA's CDX may be maintained in electronic format. (j) For each owner or operator reporting leachate or other liquids addition under 40 CFR s. 62.16724(l), keep records of any engineering calculations or company records used to estimate the quantities of leachate or liquids added, the surface areas for which the leachate or liquids were applied, and the estimates of annual waste acceptance or total waste in place in the areas where leachate or liquids were applied.		X	Records retained and available.

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - I.A.2. State Hazardous Air Contaminants*
Air Permit No. 63206363A-P20
January 1, 2024 through June 30, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Limit/Condition	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period? Yes	Any Deviations During Reporting Period? No	Notes
F99/S99 - MSW Landfill **P01/S01** - Candle Stick Flare	I.A.2.a.(1)-(3)	NR 445.07(1)(c) and NR 445.08(2)(c) and (f)	Control Requirements	I.A.2.a.(1)To control emissions of hazardous air contaminants, the permittee shall install and operate an active gas collection and control system that captures the landfill gas generated within the landfill as specified in conditions I.A.2.a.(2) and (3).		GCCS has been installed per I.A.2.a.(34) - (36). Records kept per I.A.2.a.(28)(b).		X	Records retained on site.
				I.A.2.a.(2) - To control emissions of hazardous air contaminants, the active gas collection system shall:* (a) Be designed to handle the maximum expected gas flow rate from the from the entire area of the landfill that warrants control over the intended use period of the gas control system equipment;* (b) Collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for period of: (i) 5 years or more if active; or* (ii) 2 years or more if closed or at final grade;* (c) Collect gas at a sufficient extraction rate; and* (d) Be designed to minimize off-site migration of subsurface gas.*	I.A.2.a.(12) - For the purposes of calculating the maximum expected gas generation flow rate from the landfill to determine compliance with I.A.2.a.(2)(a), the permittee shall use either the equation in condition I.A.2.a.(12)(a) or the equation in condition I.A.2.a.(12)(b). I.A.2.a.(13) - For the purpose of determining sufficient density of gas collectors for compliance with condition I.A.2.a.(2)(b), the permittee shall design a system of vertical wells, horizontal collectors, or other collection devices, satisfactory to the department, capable of controlling and extracting gas from all portions of the landfill sufficient to meet all operational and performance standards.	Maximum expected gas generation flow rate updated each year as part of annual emissions inventory procedure. Design of GCCS part of Plan of Operations. Waste acceptance records kept per I.A.2.a.(27). Gas generation records kept per I.A.2.a.(28)(a). Readily accessible plot map showing each existing and planned collector in the system kept per I.A.2.a.(31).		X	Records retained on site.
				I.A.2.a.(3) - To control emissions of hazardous air contaminants, the permittee shall comply with either (a) or (b) below:* (a) Route all collected gas to open flare C01. Open flare C01 shall be designed and operated in accordance with the parameters in section I.A.3. of this permit.* (b) Route the collected gas to a treatment system that processes the collected gas for subsequent sale or beneficial use such as fuel for combustion, production of vehicle fuel, production of high-Btu gas for pipeline injection, or use as a raw material in a chemical manufacturing process. Venting of treated landfill gas to the ambient air is not allowed. If the treated landfill gas cannot be routed for subsequent sale or beneficial use, then the treated landfill gas must be controlled according to paragraph (a) of this section.* (c) All emissions from any atmospheric vent from the gas treatment system are subject to the requirements of paragraph (a) of this section. For purposes of this section, atmospheric vents located on the condensate storage tank are not part of the treatment system and are exempt from the requirements of paragraph (a) of this section.*	See I.A.2.a.(8)-(9)	Collected gas may be routed to either the flare (C01) or the landfill gas treatment system. See I.A.2.a.(8)-(9).		X	Records retained on site.
	I.A.2.a.(19)	NR 445.07(1)(c) and NR 445.08(2)(c) and (f)	Compliance Provisions	The provisions in section I.A.2. apply at all times, including periods of startup, shutdown or malfunction. During periods of startup, shutdown, and malfunction, the permittee shall comply with the work practice specified in I.A.2.a.(8) in lieu of the compliance provisions in I.A.2.a.(12)-(18).	See I.A.2.a.(8) or I.A.2.a.(12)-(18)	GCCS is automatically shutdown during flare or treatmnent system SSM.		X	Records retained on site.
F99/S99 - MSW Landfill **P01/S01** - Candle Stick Flare	I.A.2.a(4)-(10)	NR 445.07(1)(c) and NR 445.08(2)(c) and (f)	Operational standards for the collection and control system	(4) Operate the collection system such that gas is collected from each area, cell, or group of cells in the MSW landfill in which the initial solid waste has been placed for period of: (a) 5 years or more if active; or (b) 2 years or more if closed or at final grade;	I.A.2.a.(16) - Each well shall be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of:* (a) Five (5) years or more if active; or* (b) Two (2) years or more if closed or at final grade.	Compliance achieved via horizontal STOCs and vertical wells Drawings, waste, and well placement/removal dates have been updated in facility files. No new components installed during this reporting period.		X	Records retained on site.
				(5) The permittee shall operate the collection system with negative pressure at each wellhead (see exceptions in the permit if applicable)	I.A.2.a.(14) - Measure gauge pressure in the gas collection header applied to each individual well, monthly I.A.2.a.(20)(a) Measure the gauge pressure in the gas collection header on a monthly basis I.A.2.a.(20(b) Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis	Compliance maintained during the reporting period via CES/LANDTECH Accu-flo well head and CES/LANDTECH GEM2000. Monthly monitoring conducted with no deviations during this reporting period. Calibration of CES/LANDTECH GEM2000 was performed. Remonitoring was not required. Records kept per I.A.2.a.(32) ands (33).		X	Records retained on site.
				(6) The permittee shall operate each interior wellhead in the gas collection system with a LFG temperature below 131 °F (see exceptions in the permit if applicable)	I.A.2.a.(15) - Monitor each well monthly for temperature I.A.2.a.(20)(c) Monitor temperature of the landfill gas on a monthly basis	Compliance maintained during the reporting period via CES/LANDTECH Accu-flo well head with thermometer. Monthly monitoring conducted with no deviations during this reporting period. Remonitoring was not required. Records kept per I.A.2.a.(32) and (33)		X	Records retained on site.

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - I.A.2. State Hazardous Air Contaminants*
Air Permit No. 63206363A-P20
January 1, 2024 through June 30, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Limit/Condition	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period? Yes	Any Deviations During Reporting Period? No	Notes
F99/S99 - MSW Landfill **P01/S01** - Candle Stick Flare	I.A.2.a(4)-(10)	NR 445.07(1)(c) and NR 445.08(2)(c) and (f)	Operational standards for the collection and control system	(7) The permittee shall operate the collection system so that the methane concentration is less than 500 ppm above background at the surface of the landfill.	I.A.2.a.(17) - Surface emission monitoring I.A.2.a.(17)(e) - Monthly cover integrity inspections I.A.2.a.(18) - Calibration of SEM devices	Annual surface emission monitoring last completed November 15, 2023. Next anticipated SEM event to occur in July-December 2024 time period. Records kept per I.A.2.a.(32) and (33) Monthly cover integrity inspections were performed. No repairs were necessary.		X	Records retained on site.
				(8) The permittee shall operate the collection and control system such that all collected gases are vented to the control system specified in I.A.2.a.(3). In the event the collection or control system is not operating, the gas mover system must be shut down and all valves in the system closed within 1 hour.	I.A.2.a.(21) To monitor the open flare (C01), the permittee shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:* (a) A heat sensing device to indicate the continuous presence of a flame (b) A device that records flow to the flare and bypass of the flare (if applicable) (i) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the control device at least every 15 minutes. (ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.	All collected LFG is routed to the flare or to the LFGTE system. Thermocouple in place to detect flare flame. Temperature recorded on a thermal chart. When flare is down, LFG header closes and no gas is routed to flare. Landfill gas flow is measured continuously. ST-98 flowmeter calibrated March 2024. When the flow meter was disconnected for the calibration, flow was calculated using a standard rate. Monthly inspections of the seal or closure mechanism were performed. Records kept per I.A.2.a.(29)	X		Flare flow and temperature monitoring deviations were reported on 3/11, 3/12, 4/5, 4/29, 5/1, 5/30, and 6/13-6/17. See narrative for details. No landfill gas was sent to the flare when a flame was not present, and no untreated landfill gas was vented to the atmosphere.
				(9) Operate the control system at all times when the collected gas is routed to the system.	I.A.2.a.(22) Each owner or operator seeking to demonstrate compliance with I.A.2.a.(3) using a landfill gas treatment system must maintain and operate all monitoring systems associated with the treatment system in accordance with the site-specific treatment system monitoring plan required in I.A.2.a.(30) and must calibrate, maintain, and operate according to the manufacturer's specifications a device that records flow to the treatment system and bypass of the treatment system (if applicable). The owner or operator must:* (a) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the treatment system at least every 15 minutes; and* (b) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism must be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.	All collected LFG is routed to the flare or to the LFG treatment system. Landfill gas flow is measured continuously. ST-98 flowmeter calibrated March 2024. Monthly inspections of the seal or closure mechanism were performed. Records kept per I.A.2.a.(30)(a) Site-specific monitoring plan per I.A.2.a.(30)(b) has been completed.		X	Records retained on site.
				(10) If monitoring demonstrates that the operational requirements in I.A.2.a.(4) - (7) are not met, the permittee shall take corrective action as specified in I.A.2.a.(14) and (15) or (17). If corrective actions are taken as specified, the monitored exceedance is not a violation of the operational requirements in condition I.A.2.a.(4) - (7).	No corrective actions were required during this reporting period.			X	

La Crosse County Solid Waste Management Facility
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Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Limit/Condition	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period? Yes	No	Notes
F99/S99 - MSW Landfill **P01/S01** - Candle Stick Flare	I.A.2.a.(11)	NR 445.07(1)(c) and NR 445.08(2)(c) and (f)	Test methods and procedures	(11) The net heating value of the combusted landfill gas as determined in I.A.3.a.(4)(c) shall be calculated from the concentration of methane in the landfill gas as measured by Method 3C. A minimum of three 30-minute Method 3C samples are determined. The measurement of other organic components, hydrogen, and carbon monoxide is not applicable. Method 3C may be used to determine the landfill gas molecular weight for calculating the flare gas exit velocity under I.A.3.a.(4)(d).	Method 3C was used to determine concentration of methane in the landfill gas as part of the more recent NMOC sampling event. The net heating value of LFG was also calculated.				
F99/S99 - MSW Landfill **P01/S01** - Candle Stick Flare	I.A.2.a.(23) - (26)	NR 445.07(1)(c) and NR 445.08(2)(c) and (f)	Reporting Requirements	(23) The permittee shall submit a collection and control system design plan to the department at least ninety (90) days prior to the modification of the landfill.	Modification of the landfill did not occur during this reporting period.				
				(24) The owner or operator who has already been required to submit a design plan under I.A.2.a.(23) must submit a revised design plan to the department as follows:* (a) Prior to installing or expanding the gas collection system in a way that is not consistent with the design plan that was submitted to the department according to I.A.2.a.(23).	No expansion of the gas collection system occurred during this reporting period.				
				(25) The permittee shall submit to the department annual reports of the recorded information	Annual reports were not due during this reporting period.				
				(26) The permittee shall submit corrective action analyses	Corrective action analyses were not required during this reporting period.				

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - Control Device Requirements for Flares
Air Permit No. 63206363A-P20
January 1, 2024 through June 30, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Limit/Condition	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period?		Notes
							Yes	No	
P01/S01 - Candle Stick Flare	I.A.3.a.(1)	NR 440.18(3)	Requirements for Flares	(1)(a) Flare C01 shall be designed for and operated with no visible emissions as determined by the methods specified in I.A.3.a.(4)(a), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.		Flare C01 meets the design criteria. No visible emissions were observed during the reporting period.		X	
				(b) Flare C01 shall be operated with a flame present at all times, as determined by the methods specified in I.A.3.a.(4)(b).	See I.A.2.a.(21)		X		See I.A.2. deviation description
				(c) Flare C01 shall be used only with the net heating value of the gas being combusted being 7.45 MJ/scm (200 Btu/scf) or greater. The net heating value of the gas being combusted shall be determined by the methods specified in I.A.3.a.(4)(c).	See I.A.2.a.(11)	Gas has a heating value greater than 200 Btu/scf.		X	
				(d)(i) Flare C01 shall be designed for and operated with an exit velocity, as determined by the methods specified in I.A.3.a.(4)(d), less than 18.3 m/sec (60 ft/sec), except as provided in I.A.3.a.(1)(d)(ii) and (iii).* (ii) Nonassisted flares designed for and operated with an exit velocity, as determined by the methods specified in I.A.3.a.(4)(d), equal to or greater than 18.3 m/sec (60 ft/sec) but less than 122 m/sec (400 ft/sec) are allowed if the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1,000 Btu/scf).* (iii) Nonassisted flares designed for and operated with an exit velocity, as determined by the methods specified in I.A.3.a.(4)(d), less than the velocity, Vmax, as determined by the method specified in I.A.3.a.(4)(e), and less than 122 m/sec (400 ft/sec) are allowed.*		Flare C01 meets the design criteria.		X	
				(e) Flare C01 shall be nonassisted.		Flare C01 is a nonassisted flare.		X	
	I.A.3.a.(2)	NR 440.18(4)		The permittee shall monitor flare C01 to ensure that it is operated and maintained in conformance with its design. Section I.A.2. states how the owner or operator shall monitor flare control devices.	See I.A.2.a.(21)			X	
	I.A.3.a.(3)	NR 440.18(5)		Flare C01 shall be operated at all times when emissions may be vented to it.	See I.A.2.a.(21)			X	

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - Control Device Requirements for Flares
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Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Limit/Condition	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period?		Notes
							Yes	No	
P01/S01 - Candle Stick Flare	I.A.3.a.(4)	NR 440.18(6)	Requirements for Flares	(4)(a) Method 22 of Appendix A of 40 CFR part 60 shall be used to determine compliance with the visible emissions limitation in I.A.3.a.(1)(a). The observation period is 2 hours and shall be used according to Method 22.				X	Method 22 testing has been scheduled for the second half of 2024.
				(b) The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.	See I.A.2.a.(21)		X		See I.A.2. deviation description
				(c) The net heating value of the gas being combusted in the flare shall be calculated using equations in the permit.	Calculations have been made.			X	Records kept on site.
				(d) The actual exit velocity of a flare shall be determined by dividing the volumetric flow rate (in units of standard temperature and pressure), as determined as appropriate by Reference Method 2, 2A, 2C, or 2D of Appendix A of 40 CFR part 60, by the unobstructed (free) cross sectional area of the flare tip.				X	
				(e) The maximum permitted velocity, Vmax, for flares complying with I.A.3.a.(1)(d)(iii) shall be determined				X	
	I.A.3.a.(5)	NR 439.04(1)(d)		(5) The permittee shall keep and maintain records of the following: (a) The design parameters that affect the generation of visible emissions.* (b) The results of the initial compliance emission test for visible emissions.* (c) The design net heating value of the gas being combusted in flare C01.* (d) The design exit velocity and the operational exit velocity for flare C01.* (e) The flare type (i.e. steam-assisted, air-assisted, or nonassisted).* (f) The start and end times of any period during which emissions are vented to the flare.* (g) Summaries and dates of all maintenance performed on the flare.* (h) Summaries and dates of all maintenance and calibrations performed on the flame detection device.				X	Records kept on site.

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - Visible Emissions
Air Permit No. 63206363A-P20
January 1, 2024 through June 30, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period? Yes	No	Notes
F99/S99 - MSW Landfill P01/S01 - Candle Stick Flare	I.A.4.a.(1)	NR 431.05	Visible Emissions	The permittee may not cause or allow emissions of shade or density greater than number 1 of the Ringlemann chart or 20% opacity, with the exceptions in s. NR 431.05, Wis. Adm. Code.	The permittee shall operate the open flare control device as specified in I.A.3.a.(1)-(4).		X	See I.A.3.a. compliance.
				The permittee shall take precautions to prevent particulate matter from becoming airborne as specified in I.B.2.b.(1)-(3).	The permittee shall keep, maintain, and submit records specified in I.B.2.c.(1)-(3).		X	See I.B.2.c. compliance.

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - Malodorous Emissions
Air Permit No. 63206363A-P20
January 1, 2024 through June 30, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period? Yes	No	Notes
Total Facility	I.B.1.a.(1)	NR 429.03	Malodorous Emissions	Limitation: The permittee may not cause, allow, or permit emissions into the ambient air of any substance or combination of substances in such quantities that an objectionable odor is determined to result, unless preventative measures (e.g. - operating a landfill gas collection and control systems) are taken to abate or control such emissions.				
	I.B.1.b.(1)	NR 429.03(3)		The permittee shall operate a landfill gas collection system and control system to control malodorous emissions, as specified in I.A.2. and I.A.3.			X	The facility operates a gas collection and control system.
	I.B.1.b.(2)(a), I.B.1.b.(2)(b), I.B.1.b.(2)(c),	NR 429.03(3)		The permittee shall take other appropriate actions when necessary that include, but are not limited to the following: (a) place additional cover materials within the landfill, (b) Making necessary adjustments to the landfill gas collection system and control devices, (c) Using odor suppressants or masking agents.	Recordkeeping: I.B.1.c.(2) - (3) (2) The permittee shall keep and maintain records of the following: (a) All odor complaints received by the permittee; (b) All measures taken to abate or control odor in response to a complaint; (c) The date of each review of the odor control plan. (3) The permittee shall submit the records of odor complaints required in I.B.1.c.(2)(a) with the annual monitoring report required in I.ZZZ.1.a.(1).		X	Odor Control Plan reviewed in February 2024. No modifications required. No odor complaints received during the reporting period.
	I.B.1.b.(3)	NR 429.03(3)		The permittee shall develop and implement an odor control plan. The plan shall be reviewed yearly and updated as necessary and/or at the request of the department.	Recordkeeping: I.B.1.c.(1) The permittee shall submit to the department a copy of the odor control plan and any subsequent updates to the plan within 30 days after making any changes to the plan.		X	

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - Fugitive Emissions
Air Permit No. 63206363A-P20
January 1, 2024 through June 30, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period? Yes	No	Notes
Total Facility	I.B.2.a.(1)	NR 415.04	Fugitive Emissions	Limitation: The permittee may not cause, allow or permit any materials to be handled, transported, or stored without taking precautions to prevent particulate matter from becoming airborne. Nor may the permittee allow a road to be used without taking such precautions.				
	I.B.2.b.(1)	NR 415.04(1)		The permittee shall take precautions to prevent particulate matter from becoming airborne. These precautions shall include, but not be limited to, the precautions listed in Part II, conditions C.2.b.(1)-(6).	Recordkeeping: I.B.2.c.(2) (2) The permittee shall keep and maintain records of the following: (a) All dust complaints received by the permittee. (b) All precautions taken to prevent particulate matter from becoming airborne in response to a complaint. (c) The date of each review of the fugitive dust control plan. Reporting: I.B.2.c.(3) (3) The permittee shall submit the records of dust complaints required in I.B.2.c.(2)(a) with the annual monitoring report required in I.ZZZ.1.a.(1).		X	Records maintained on site.
	I.B.2.b.(2)(a) - (c)	NR 415.04		The permittee shall take other appropriate actions as needed to prevent particulate matter from becoming airborne which include, but are not limited to, the following: (a) Controlling dust on the site by application of water and/or other dust suppressants. (b) Covering stockpiles with plastic or a similar material. (c) Covering materials likely to generate fugitive dust during material transport.			X	No dust complaints were received during the reporting period.
	I.B.2.b.(3)	NR 415.04		The permittee shall prepare and implement a written fugitive dust control plan. The plan shall be reviewed yearly and updated as necessary and/or at the request of the department.	Recordkeeping: I.B.2.c.(1) The permittee shall submit to the department a copy of the fugitive dust control plan and any subsequent updates to the plan within 30 days after making any changes to the plan.		X	FDCP reviewed in February 2024. No modifications required.

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - Operating Requirements
Air Permit No. 63206363A-P20
January 1, 2024 through June 30, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Limitation/ Condition	Compliance Demonstration Method	Any Deviations During Reporting Period? Yes	Any Deviations During Reporting Period? No	Notes
Operating Permit Requirements	ZZZ.1.a.(1)(a)-(g)	NR 407.09(1)(c)3. NR 439.03(1)(b)	Compliance Monitoring Reports / Certification of Compliance Status	The permittee shall submit a monitoring report which contains the results of monitoring required by this permit to the department	Semi-annual monitoring summary reports due September 1 and March 1 for the previous January-June and July-December periods, respectively.		X	This is the first semi-annual monitoring report under permit 63206363A-P20.
	ZZZ.1.a.(2)(a)-(e)	NR 407.09(4)(a)3, NR 439.03(1)(c), (8), (9), (10)		The responsible official for the source shall annually certify the source's compliance status with the permit.	Annual certification of compliance due March 1 for the previous calendar year.		X	The first annual certification of compliance for this permit will be submitted by March 1, 2025.
	ZZZ.2.a.(1) - (3)	NR 439.07	Compliance Emission Testing	See Permit	See Permit, I.ZZZ.2.a		X	No testing performed during reporting period.
	ZZZ.3.a.(1)-(2)	NR 439.04(1)(d)	Stack Parameters	See Permit	The permittee shall keep and maintain on-site technical drawings, blueprints or equivalent records of the physical stack parameters.		X	Records maintained on site.
	ZZZ.4.a.(1)-(3)	NR 439.03(1)(a)	Submittals/Record Retention	Any submittals required in Part I of this permit that specify submittal to the Administrator, US EPA or the permitting authority shall also be submitted to the department.	Submittals shall be uploaded through the DNR Switchboard. Copies of all records required by Part I of this permit shall be retained for not less than 5 years, including records required by standards that may specify a shorter record retention time.		X	See attached Liquid Addition Report submitted to USEPA June 4, 2024.

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - 40 CFR Part 62 Supbart OOO
Air Permit No. 63206363A-P20
July 1, 2024 through December 31, 2024

Emitting Unit	Rule Citation	Requirements	Any Deviations		Notes
			Yes	No	
40 CFR Part 62, Subpart OOO	62.16711 Designated Facilities	La Crosse County Solid Waste Management Facility is a designated facility to which 40 CFR Part 62, Subpart OOO applies.		X	Initial Notifications submitted September 20, 2021.
40 CFR Part 62, Subpart OOO	62.16714(e)(1)(i) and (ii) Standards for municipal solid waste landfill emissions.	*Emissions.* The owner or operator must calculate an initial NMOC emission rate for the landfill using the procedures specified in § 62.16718(a). The NMOC emission rate must be recalculated annually, except as provided in § 62.16724(c)(3). (1) The owner or operator must: (i) Submit an annual NMOC emission rate report according to § 62.16724(c), except as provided in 62.16724(c)(3); and (ii) Recalculate the NMOC emission rate annually using the procedures specified in § 62.16724(a) until such time as the calculated NMOC emission rate is equal to or greater than 34 megagrams per year, or the landfill is closed. (A) If the calculated NMOC emission rate, upon initial calculation or annual recalculation required in 40 CFR s.62.16714(e)(1)(ii), is equal to or greater than 34 megagrams per year, the owner or operator must either: Comply with paragraphs 40 CFR s.62.16714(b) and (c); calculate NMOC emissions using the next higher tier in 40 CFR s. 62.16718; or conduct a surface emission monitoring demonstration using the procedures specified in 40 CFR s. 62.16718(a)(6). (B) If the landfill is permanently closed, a closure report must be submitted to the Administrator as provided in 40 CFR s. 62.16724(f).		X	NMOC Emission Rate Report submitted to WDNR in June 15, 2021. NMOC emission rate less than 34 Mg/yr. Next NMOC due June 2026.
40 CFR Part 62, Subpart OOO	62.16718 Test Methods and Procedures	Calculate the landfill NMOC emission rate and conduct a surface emission monitoring demonstration according to the provisions in this section. (see permit for details)		X	Tier 2 methodology used.
40 CFR Part 62, Subpart OOO	62.16724 Reporting Guidelines (b) Amended design capacity report	b) *Amended design capacity report.* An amended design capacity report must be submitted providing notification of an increase in the design capacity of the landfill, within 90 days of an increase in the maximum design capacity of the landfill to meet or exceed 2.5 million megagrams and 2.5 million cubic meters. This increase in design capacity may result from an increase in the permitted volume of the landfill or an increase in the density.		X	Not applicable for this reporting period.

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - 40 CFR Part 62 Supbart OOO
Air Permit No. 63206363A-P20
July 1, 2024 through December 31, 2024

Emitting Unit	Rule Citation	Requirements	Any Deviations		Notes
			Yes	No	
40 CFR Part 62, Subpart OOO	62.16724 Reporting Guidelines (c) NMOC emission rate report.	(c) *NMOC emission rate report.* The NMOC emission rate report must be submitted following the procedure specified in paragraph 40 CFR s. 62.16724(j)(2) of this section no later than 90 days after the effective date of 40 CFR Part 62 Subpart OOO. The NMOC emission rate report must be submitted to the Administrator and the department annually following the procedure specified in paragraph 40 CFR s. 62.16724(j)(2) of this section, except as provided for in paragraph 40 CFR s. 62.16724(c)(3). The Administrator and the department may request such additional information as may be necessary to verify the reported NMOC emission rate. (1) The NMOC emission rate report must contain an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures provided in 40 CFR s. 62.16718(a). (2) The NMOC emission rate report must include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions. (3) If the estimated NMOC emission rate as reported in the annual report to the Administrator is less than 34 megagrams per year in each of the next 5 consecutive years, the owner or operator may elect to submit, following the procedure specified in 40 CFR s. 62.16724(j)(2), an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report. This estimate must include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the 5 years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based must be provided to the Administrator and the department. This estimate must be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate must be submitted to the Administrator and the department. The revised estimate must cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.		**X**	NMOC Emission Rate Report submitted to WDNR in June 15, 2021. NMOC emission rate less than 34 Mg/yr. Next NMOC due June 2026.
40 CFR Part 62, Subpart OOO	62.16724 Reporting Guidelines (j) Electronic reporting	(j) *Electronic reporting* . The owner or operator must submit reports electronically according to 40 CFR s. 62.16724(j)(1) and (2). (see permit for details)		**X**	Report was submitted via CEDRI.

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - 40 CFR Part 62 Supbart OOO
Air Permit No. 63206363A-P20
July 1, 2024 through December 31, 2024

Emitting Unit	Rule Citation	Requirements	Any Deviations		Notes
			Yes	No	
40 CFR Part 62, Subpart OOO	62.16724 Reporting Guidelines (l) Liquids addition	(l) Liquids addition. The owner or operator that has employed leachate recirculation or added liquids based on a Research, Development, and Demonstration permit (issued through Resource Conservation and Recovery Act (RCRA), subtitle D, part 258) within the last 10 years must submit to the Administrator, annually, following the procedure specified in paragraph 40 CFR s. 62.16724(j)(2), the following information: (1)Volume of leachate recirculated (gallons per year) and the reported basis of those estimates (records or engineering estimates). (2) Total volume of all other liquids added (gallons per year) and the reported basis of those estimates (records or engineering estimates). (3) Surface area (acres) over which the leachate is recirculated (or otherwise applied). (4) Surface area (acres) over which any other liquids are applied. (5) The total waste disposed (megagrams) in the areas with recirculated leachate and/or added liquids based on on-site records to the extent data are available, or engineering estimates and the reported basis of those estimates. (6) The annual waste acceptance rates (megagrams per year) in the areas with recirculated leachate and/or added liquids, based on on-site records to the extent data are available, or engineering estimates. (7) The initial report must contain items in paragraph (l)(1) through (6) of this section per year for the most recent 365 days as well as for each of the previous 10 years, to the extent historical data are available in on-site records, and the report must be submitted no later than June 21, 2022. (8) Subsequent annual reports must contain items in paragraph (l)(1) through (6) of this section for the 365-day period following the 365-day period included in the previous annual report, and the report must be submitted no later than 365 days after the date the previous report was submitted. (10) Landfills may cease annual reporting of items in paragraphs (l)(1) through (6) of this section once they have submitted the closure report in § 62.16724(f).		**X**	Report submitted June 4, 2024.

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - 40 CFR Part 62 Supbart OOO
Air Permit No. 63206363A-P20
July 1, 2024 through December 31, 2024

Emitting Unit	Rule Citation	Requirements	Any Deviations		Notes
			Yes	No	
40 CFR Part 62, Subpart OOO	62.16726 Recordkeeping Guidelines	(a) Except as provided in 40 CFR 62.16724(d)(2), the owner or operator must keep for at least 5 years up-to-date, readily accessible, on-site records of the design capacity report that triggered 40 CFR s. 62.16714(e), the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable. (i) Any records required to be maintained by this subpart that are submitted electronically via the EPA's CDX may be maintained in electronic format. (j) For each owner or operator reporting leachate or other liquids addition under 40 CFR s. 62.16724(l), keep records of any engineering calculations or company records used to estimate the quantities of leachate or liquids added, the surface areas for which the leachate or liquids were applied, and the estimates of annual waste acceptance or total waste in place in the areas where leachate or liquids were applied.		X	Records retained and available.

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - I.A.2. State Hazardous Air Contaminants*
Air Permit No. 63206363A-P20
July 1, 2024 through December 31, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Limit/Condition	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period? Yes	Any Deviations During Reporting Period? No	Notes
F99/S99 - MSW Landfill **P01/S01** - Candle Stick Flare	I.A.2.a.(1)-(3)	NR 445.07(1)(c) and NR 445.08(2)(c) and (f)	Control Requirements	I.A.2.a.(1)To control emissions of hazardous air contaminants, the permittee shall install and operate an active gas collection and control system that captures the landfill gas generated within the landfill as specified in conditions I.A.2.a.(2) and (3).		GCCS has been installed per I.A.2.a.(34) - (36). Records kept per I.A.2.a.(28)(b).		X	Records retained on site.
				I.A.2.a.(2) - To control emissions of hazardous air contaminants, the active gas collection system shall:* (a) Be designed to handle the maximum expected gas flow rate from the from the entire area of the landfill that warrants control over the intended use period of the gas control system equipment;* (b) Collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for period of: (i) 5 years or more if active; or* (ii) 2 years or more if closed or at final grade;* (c) Collect gas at a sufficient extraction rate; and* (d) Be designed to minimize off-site migration of subsurface gas.*	I.A.2.a.(12) - For the purposes of calculating the maximum expected gas generation flow rate from the landfill to determine compliance with I.A.2.a.(2)(a), the permittee shall use either the equation in condition I.A.2.a.(12)(a) or the equation in condition I.A.2.a.(12)(b). I.A.2.a.(13) - For the purpose of determining sufficient density of gas collectors for compliance with condition I.A.2.a.(2)(b), the permittee shall design a system of vertical wells, horizontal collectors, or other collection devices, satisfactory to the department, capable of controlling and extracting gas from all portions of the landfill sufficient to meet all operational and performance standards.	Maximum expected gas generation flow rate updated each year as part of annual emissions inventory procedure. Design of GCCS part of Plan of Operations. Waste acceptance records kept per I.A.2.a.(27). Gas generation records kept per I.A.2.a.(28)(a). Readily accessible plot map showing each existing and planned collector in the system kept per I.A.2.a.(31).		X	Records retained on site.
				I.A.2.a.(3) - To control emissions of hazardous air contaminants, the permittee shall comply with either (a) or (b) below:* (a) Route all collected gas to open flare C01. Open flare C01 shall be designed and operated in accordance with the parameters in section I.A.3. of this permit.* (b) Route the collected gas to a treatment system that processes the collected gas for subsequent sale or beneficial use such as fuel for combustion, production of vehicle fuel, production of high-Btu gas for pipeline injection, or use as a raw material in a chemical manufacturing process. Venting of treated landfill gas to the ambient air is not allowed. If the treated landfill gas cannot be routed for subsequent sale or beneficial use, then the treated landfill gas must be controlled according to paragraph (a) of this section.* (c) All emissions from any atmospheric vent from the gas treatment system are subject to the requirements of paragraph (a) of this section. For purposes of this section, atmospheric vents located on the condensate storage tank are not part of the treatment system and are exempt from the requirements of paragraph (a) of this section.*	See I.A.2.a.(8)-(9)	Collected gas may be routed to either the flare (C01) or the landfill gas treatment system. See I.A.2.a.(8)-(9).		X	Records retained on site.
	I.A.2.a.(19)	NR 445.07(1)(c) and NR 445.08(2)(c) and (f)	Compliance Provisions	The provisions in section I.A.2. apply at all times, including periods of startup, shutdown or malfunction. During periods of startup, shutdown, and malfunction, the permittee shall comply with the work practice specified in I.A.2.a.(8) in lieu of the compliance provisions in I.A.2.a.(12)-(18).	See I.A.2.a.(8) or I.A.2.a.(12)-(18)	GCCS is automatically shutdown during flare or treatmnent system SSM.		X	Records retained on site.
F99/S99 - MSW Landfill **P01/S01** - Candle Stick Flare	I.A.2.a(4)-(10)	NR 445.07(1)(c) and NR 445.08(2)(c) and (f)	Operational standards for the collection and control system	(4) Operate the collection system such that gas is collected from each area, cell, or group of cells in the MSW landfill in which the initial solid waste has been placed for period of: (a) 5 years or more if active; or (b) 2 years or more if closed or at final grade;	I.A.2.a.(16) - Each well shall be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of:* (a) Five (5) years or more if active; or* (b) Two (2) years or more if closed or at final grade.	Compliance achieved via horizontal STOCs and vertical wells Drawings, waste, and well placement/removal dates have been updated in facility files. No new components installed during this reporting period.		X	Records retained on site.
				(5) The permittee shall operate the collection system with negative pressure at each wellhead (see exceptions in the permit if applicable)	I.A.2.a.(14) - Measure gauge pressure in the gas collection header applied to each individual well, monthly I.A.2.a.(20)(a) Measure the gauge pressure in the gas collection header on a monthly basis I.A.2.a.(20(b) Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis	Compliance maintained during the reporting period via CES/LANDTECH Accu-flo well head and CES/LANDTECH GEM2000. Monthly monitoring conducted with no deviations during this reporting period. Calibration of CES/LANDTECH GEM2000 was performed. Remonitoring was not required. Records kept per I.A.2.a.(32) ands (33).		X	Records retained on site.
				(6) The permittee shall operate each interior wellhead in the gas collection system with a LFG temperature below 131 °F (see exceptions in the permit if applicable)	I.A.2.a.(15) - Monitor each well monthly for temperature I.A.2.a.(20)(c) Monitor temperature of the landfill gas on a monthly basis	Compliance maintained during the reporting period via CES/LANDTECH Accu-flo well head with thermometer. Monthly monitoring conducted with no deviations during this reporting period. Remonitoring was not required. Records kept per I.A.2.a.(32) and (33)		X	Records retained on site.

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - I.A.2. State Hazardous Air Contaminants*
Air Permit No. 63206363A-P20
July 1, 2024 through December 31, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Limit/Condition	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period? Yes	Any Deviations During Reporting Period? No	Notes
F99/S99 - MSW Landfill **P01/S01** - Candle Stick Flare	I.A.2.a(4)-(10)	NR 445.07(1)(c) and NR 445.08(2)(c) and (f)	Operational standards for the collection and control system	(7) The permittee shall operate the collection system so that the methane concentration is less than 500 ppm above background at the surface of the landfill.	I.A.2.a.(17) - Surface emission monitoring I.A.2.a.(17)(e) - Monthly cover integrity inspections I.A.2.a.(18) - Calibration of SEM devices	Annual surface emission monitoring last completed 10/8/24. Next anticipated SEM event to occur in July-December 2025 time period. Records kept per I.A.2.a.(32) and (33) Monthly cover integrity inspections were performed. No repairs were necessary.		X	Records retained on site.
				(8) The permittee shall operate the collection and control system such that all collected gases are vented to the control system specified in I.A.2.a.(3). In the event the collection or control system is not operating, the gas mover system must be shut down and all valves in the system closed within 1 hour.	I.A.2.a.(21) To monitor the open flare (C01), the permittee shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:* (a) A heat sensing device to indicate the continuous presence of a flame (b) A device that records flow to the flare and bypass of the flare (if applicable) (i) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the control device at least every 15 minutes. (ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.	All collected LFG is routed to the flare or to the LFGTE system. Thermocouple in place to detect flare flame. Temperature recorded on a thermal chart. When flare is down, LFG header closes and no gas is routed to flare. Landfill gas flow is measured continuously. ST-98 flowmeter calibrated March 2024. When the flow meter was disconnected for the calibration, flow was calculated using a standard rate. Monthly inspections of the seal or closure mechanism were performed. Records kept per I.A.2.a.(29)	X		Flare temperature monitoring deviations was reported on 11/25/24. Biogas Flare Technician was onsite to perform a semi-annual inspection. Powering down the flare station panel caused a recording on the flare thermal recorder. No landfill gas was sent to the flare when a flame was not present, and no untreated landfill gas was vented to the atmosphere.
				(9) Operate the control system at all times when the collected gas is routed to the system.	I.A.2.a.(22) Each owner or operator seeking to demonstrate compliance with I.A.2.a.(3) using a landfill gas treatment system must maintain and operate all monitoring systems associated with the treatment system in accordance with the site-specific treatment system monitoring plan required in I.A.2.a.(30) and must calibrate, maintain, and operate according to the manufacturer's specifications a device that records flow to the treatment system and bypass of the treatment system (if applicable). The owner or operator must:* (a) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the treatment system at least every 15 minutes; and* (b) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism must be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.	All collected LFG is routed to the flare or to the LFG treatment system. Landfill gas flow is measured continuously. ST-98 flowmeter calibrated March 2024. Monthly inspections of the seal or closure mechanism were performed. Records kept per I.A.2.a.(30)(a) Site-specific monitoring plan per I.A.2.a.(30)(b) has been completed.		X	Records retained on site.
				(10) If monitoring demonstrates that the operational requirements in I.A.2.a.(4) - (7) are not met, the permittee shall take corrective action as specified in I.A.2.a.(14) and (15) or (17). If corrective actions are taken as specified, the monitored exceedance is not a violation of the operational requirements in condition I.A.2.a.(4) - (7).	No corrective actions were required during this reporting period.			X	

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - I.A.2. State Hazardous Air Contaminants*
Air Permit No. 63206363A-P20
July 1, 2024 through December 31, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Limit/Condition	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period? Yes	No	Notes
F99/S99 - MSW Landfill **P01/S01** - Candle Stick Flare	I.A.2.a.(11)	NR 445.07(1)(c) and NR 445.08(2)(c) and (f)	Test methods and procedures	(11) The net heating value of the combusted landfill gas as determined in I.A.3.a.(4)(c) shall be calculated from the concentration of methane in the landfill gas as measured by Method 3C. A minimum of three 30-minute Method 3C samples are determined. The measurement of other organic components, hydrogen, and carbon monoxide is not applicable. Method 3C may be used to determine the landfill gas molecular weight for calculating the flare gas exit velocity under I.A.3.a.(4)(d).	Method 3C was used to determine concentration of methane in the landfill gas as part of the more recent NMOC sampling event. The net heating value of LFG was also calculated.				
F99/S99 - MSW Landfill **P01/S01** - Candle Stick Flare	I.A.2.a.(23) - (26)	NR 445.07(1)(c) and NR 445.08(2)(c) and (f)	Reporting Requirements	(23) The permittee shall submit a collection and control system design plan to the department at least ninety (90) days prior to the modification of the landfill.	Modification of the landfill did not occur during this reporting period.				
				(24) The owner or operator who has already been required to submit a design plan under I.A.2.a.(23) must submit a revised design plan to the department as follows:* (a) Prior to installing or expanding the gas collection system in a way that is not consistent with the design plan that was submitted to the department according to I.A.2.a.(23).	No expansion of the gas collection system occurred during this reporting period.				
				(25) The permittee shall submit to the department annual reports of the recorded information	Annual reports were not due during this reporting period.				
				(26) The permittee shall submit corrective action analyses	Corrective action analyses were not required during this reporting period.				

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - Control Device Requirements for Flares
Air Permit No. 63206363A-P20
July 1, 2024 through December 31, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Limit/Condition	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period?		Notes
							Yes	No	
P01/S01 - Candle Stick Flare	I.A.3.a.(1)	NR 440.18(3)	Requirements for Flares	(1)(a) Flare C01 shall be designed for and operated with no visible emissions as determined by the methods specified in I.A.3.a.(4)(a), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.		Flare C01 meets the design criteria. No visible emissions were observed during the reporting period.		X	
				(b) Flare C01 shall be operated with a flame present at all times, as determined by the methods specified in I.A.3.a.(4)(b).	See I.A.2.a.(21)	Flare temperature continuously monitored.	X		See I.A.2. deviation description
				(c) Flare C01 shall be used only with the net heating value of the gas being combusted being 7.45 MJ/scm (200 Btu/scf) or greater. The net heating value of the gas being combusted shall be determined by the methods specified in I.A.3.a.(4)(c).	See I.A.2.a.(11)	Gas has a heating value greater than 200 Btu/scf.		X	
				(d)(i) Flare C01 shall be designed for and operated with an exit velocity, as determined by the methods specified in I.A.3.a.(4)(d), less than 18.3 m/sec (60 ft/sec), except as provided in I.A.3.a.(1)(d)(ii) and (iii).* (ii) Nonassisted flares designed for and operated with an exit velocity, as determined by the methods specified in I.A.3.a.(4)(d), equal to or greater than 18.3 m/sec (60 ft/sec) but less than 122 m/sec (400 ft/sec) are allowed if the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1,000 Btu/scf).* (iii) Nonassisted flares designed for and operated with an exit velocity, as determined by the methods specified in I.A.3.a.(4)(d), less than the velocity, Vmax, as determined by the method specified in I.A.3.a.(4)(e), and less than 122 m/sec (400 ft/sec) are allowed.*		Flare C01 meets the design criteria.		X	
				(e) Flare C01 shall be nonassisted.		Flare C01 is a nonassisted flare.		X	
	I.A.3.a.(2)	NR 440.18(4)		The permittee shall monitor flare C01 to ensure that it is operated and maintained in conformance with its design. Section I.A.2. states how the owner or operator shall monitor flare control devices.	See I.A.2.a.(21)			X	
	I.A.3.a.(3)	NR 440.18(5)		Flare C01 shall be operated at all times when emissions may be vented to it.	See I.A.2.a.(21)			X	

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - Control Device Requirements for Flares
Air Permit No. 63206363A-P20
July 1, 2024 through December 31, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Limit/Condition	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period?		Notes
							Yes	No	
P01/S01 - Candle Stick Flare	I.A.3.a.(4)	NR 440.18(6)	Requirements for Flares	(4)(a) Method 22 of Appendix A of 40 CFR part 60 shall be used to determine compliance with the visible emissions limitation in I.A.3.a.(1)(a). The observation period is 2 hours and shall be used according to Method 22.	Method 22 testing.			X	Method 22 testing was performed on 8/30/24.
				(b) The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.	See I.A.2.a.(21)		X		See I.A.2. deviation description
				(c) The net heating value of the gas being combusted in the flare shall be calculated using equations in the permit.	Calculations have been made.			X	Records kept on site.
				(d) The actual exit velocity of a flare shall be determined by dividing the volumetric flow rate (in units of standard temperature and pressure), as determined as appropriate by Reference Method 2, 2A, 2C, or 2D of Appendix A of 40 CFR part 60, by the unobstructed (free) cross sectional area of the flare tip.				X	
				(e) The maximum permitted velocity, Vmax, for flares complying with I.A.3.a.(1)(d)(iii) shall be determined				X	
	I.A.3.a.(5)	NR 439.04(1)(d)		(5) The permittee shall keep and maintain records of the following: (a) The design parameters that affect the generation of visible emissions.* (b) The results of the initial compliance emission test for visible emissions.* (c) The design net heating value of the gas being combusted in flare C01.* (d) The design exit velocity and the operational exit velocity for flare C01.* (e) The flare type (i.e. steam-assisted, air-assisted, or nonassisted).* (f) The start and end times of any period during which emissions are vented to the flare.* (g) Summaries and dates of all maintenance performed on the flare.* (h) Summaries and dates of all maintenance and calibrations performed on the flame detection device.				X	Records kept on site.

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - Visible Emissions
Air Permit No. 63206363A-P20
July 1, 2024 through December 31, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period? Yes	No	Notes
F99/S99 - MSW Landfill P01/S01 - Candle Stick Flare	I.A.4.a.(1)	NR 431.05	Visible Emissions	The permittee may not cause or allow emissions of shade or density greater than number 1 of the Ringlemann chart or 20% opacity, with the exceptions in s. NR 431.05, Wis. Adm. Code.	The permittee shall operate the open flare control device as specified in I.A.3.a.(1)-(4).		X	See I.A.3.a. compliance.
				The permittee shall take precautions to prevent particulate matter from becoming airborne as specified in I.B.2.b.(1)-(3).	The permittee shall keep, maintain, and submit records specified in I.B.2.c.(1)-(3).		X	See I.B.2.c. compliance.

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - Malodorous Emissions
Air Permit No. 63206363A-P20
July 1, 2024 through December 31, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period? Yes	No	Notes
Total Facility	I.B.1.a.(1)	NR 429.03	Malodorous Emissions	Limitation: The permittee may not cause, allow, or permit emissions into the ambient air of any substance or combination of substances in such quantities that an objectionable odor is determined to result, unless preventative measures (e.g. - operating a landfill gas collection and control systems) are taken to abate or control such emissions.				
	I.B.1.b.(1)	NR 429.03(3)		The permittee shall operate a landfill gas collection system and control system to control malodorous emissions, as specified in I.A.2. and I.A.3.			X	The facility operates a gas collection and control system.
	I.B.1.b.(2)(a), I.B.1.b.(2)(b), I.B.1.b.(2)(c),	NR 429.03(3)		The permittee shall take other appropriate actions when necessary that include, but are not limited to the following: (a) place additional cover materials within the landfill, (b) Making necessary adjustments to the landfill gas collection system and control devices, (c) Using odor suppressants or masking agents.	Recordkeeping: I.B.1.c.(2) - (3) (2) The permittee shall keep and maintain records of the following: (a) All odor complaints received by the permittee; (b) All measures taken to abate or control odor in response to a complaint; (c) The date of each review of the odor control plan. (3) The permittee shall submit the records of odor complaints required in I.B.1.c.(2)(a) with the annual monitoring report required in I.ZZZ.1.a.(1).		X	Odor Control Plan reviewed in February 2024. No modifications required. No odor complaints received during the reporting period.
	I.B.1.b.(3)	NR 429.03(3)		The permittee shall develop and implement an odor control plan. The plan shall be reviewed yearly and updated as necessary and/or at the request of the department.	Recordkeeping: I.B.1.c.(1) The permittee shall submit to the department a copy of the odor control plan and any subsequent updates to the plan within 30 days after making any changes to the plan.		X	

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - Fugitive Emissions
Air Permit No. 63206363A-P20
July 1, 2024 through December 31, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Compliance Demonstration Method	Recordkeeping and Monitoring	Any Deviations During Reporting Period? Yes	No	Notes
Total Facility	I.B.2.a.(1)	NR 415.04	Fugitive Emissions	Limitation: The permittee may not cause, allow or permit any materials to be handled, transported, or stored without taking precautions to prevent particulate matter from becoming airborne. Nor may the permittee allow a road to be used without taking such precautions.				
	I.B.2.b.(1)	NR 415.04(1)		The permittee shall take precautions to prevent particulate matter from becoming airborne. These precautions shall include, but not be limited to, the precautions listed in Part II, conditions C.2.b.(1)-(6).	Recordkeeping: I.B.2.c.(2) (2) The permittee shall keep and maintain records of the following: (a) All dust complaints received by the permittee. (b) All precautions taken to prevent particulate matter from becoming airborne in response to a complaint. (c) The date of each review of the fugitive dust control plan. Reporting: I.B.2.c.(3) (3) The permittee shall submit the records of dust complaints required in I.B.2.c.(2)(a) with the annual monitoring report required in I.ZZZ.1.a.(1).		X	Records maintained on site.
	I.B.2.b.(2)(a) - (c)	NR 415.04		The permittee shall take other appropriate actions as needed to prevent particulate matter from becoming airborne which include, but are not limited to, the following: (a) Controlling dust on the site by application of water and/or other dust suppressants. (b) Covering stockpiles with plastic or a similar material. (c) Covering materials likely to generate fugitive dust during material transport.			X	No dust complaints were received during the reporting period.
	I.B.2.b.(3)	NR 415.04		The permittee shall prepare and implement a written fugitive dust control plan. The plan shall be reviewed yearly and updated as necessary and/or at the request of the department.	Recordkeeping: I.B.2.c.(1) The permittee shall submit to the department a copy of the fugitive dust control plan and any subsequent updates to the plan within 30 days after making any changes to the plan.		X	FDCP reviewed in February 2024. No modifications required.

La Crosse County Solid Waste Management Facility
Air Permit Monitoring Summary - Operating Requirements
Air Permit No. 63206363A-P20
July 1, 2024 through December 31, 2024

Emitting Unit	Permit Condition	Rule Citation	Pollutant/ Parameter	Limitation/ Condition	Compliance Demonstration Method	Any Deviations During Reporting Period? Yes	Any Deviations During Reporting Period? No	Notes
Operating Permit Requirements	ZZZ.1.a.(1)(a)-(g)	NR 407.09(1)(c)3. NR 439.03(1)(b)	Compliance Monitoring Reports / Certification of Compliance Status	The permittee shall submit a monitoring report which contains the results of monitoring required by this permit to the department	Semi-annual monitoring summary reports due September 1 and March 1 for the previous January-June and July-December periods, respectively.		X	The prvious semi-annual monitoring report was submitted in a timel manner.
	ZZZ.1.a.(2)(a)-(e)	NR 407.09(4)(a)3, NR 439.03(1)(c), (8), (9), (10)		The responsible official for the source shall annually certify the source's compliance status with the permit.	Annual certification of compliance due March 1 for the previous calendar year.		X	The first annual certification of compliance for this permit will be submitted by March 1, 2025.
	ZZZ.2.a.(1) - (3)	NR 439.07	Compliance Emission Testing	See Permit	See Permit, I.ZZZ.2.a		X	Method 22 testing was performed on the flare on 8/30/24. The report was submitted to the Switchboard on 9/16/24.
	ZZZ.3.a.(1)-(2)	NR 439.04(1)(d)	Stack Parameters	See Permit	The permittee shall keep and maintain on-site technical drawings, blueprints or equivalent records of the physical stack parameters.		X	Records maintained on site.
	ZZZ.4.a.(1)-(3)	NR 439.03(1)(a)	Submittals/Record Retention	Any submittals required in Part I of this permit that specify submittal to the Administrator, US EPA or the permitting authority shall also be submitted to the department.	Submittals shall be uploaded through the DNR Switchboard. Copies of all records required by Part I of this permit shall be retained for not less than 5 years, including records required by standards that may specify a shorter record retention time.		X	No other reports submitted during this period.

D-4 – LFG Wellhead Balance Data

La Crosse County Solid Waste Department
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Gas Balance Sheet 2024

Page 1

Taken by: JES | ***Date*** 1/27/2024 | Start Barometric Pressure 30.29 | Weather: 34 Degrees F 3.1 MPH Cloudy/Foggy

Time 7:00 AM

Checked by: JES /SEH | 12:00 PM | End Barometric Pressure 29.47 | Weather: 35 Degrees F 1.3 MPH Cloudy

Sample Location (DNR ID)	Initial Pointer Setting %	End Pointer Setting %	Vacuum " of H2O Well	Flow	Temp. F	Gas Concentration Percent Methane W	Carbon Dioxide W	Oxygen W	Top of well elevation	Top of screen elevation	Depth to Leachate (feet)	Liquid elevation	Screen Length (ft)	Liquid Pumped	% Screen open	Static	Differential	Comments
Flare St (781)	100	100	-3.9	237.8	49.0	42.4	26.5	1.4								-	-	
Flare End (781)	100	100	-3.9	240.7	49.3	42.8	26.6	1.3								-	-	
GW-1 (800)	3%	3%		2	45.0	12.8	12.4	1.2	806.5	791.6	38	768.5	23.5	0	**98%**	-0.16	0.003	
GW-2(803)	3%	3%		3	49.0	22.3	8.5	1.1	802.3	786.8	38.9	763.4	23.5	0	**100%**	-0.22	0.010	
GW-3 (806)	5%	5%		3	42.0	19.1	9.1	0.5	797.4	781.6	38.6	758.8	23.5	0	**97%**	-0.29	0.011	
GW-4 (809)	3%	3%		1	46.0	20.4	13.8	1.3	801.3	785.3	37	764.3	21.5	0	**98%**	-0.21	0.002	
GW-5 (812)	5%	5%		3	42.0	14.7	13.3	0.9	804.7	789.4	39.4	765.3	24.5	0	**98%**	-0.33	0.014	
GW-6 (815)	5%	5%		3	44.0	14.6	9.9	1.0	811.6	797	42.2	769.4	29	0	**95%**	-0.24	0.009	
GW-7 (818)	3%	3%		2	47.0	8.3	11.6	2.4	813.5	799	38	775.5	27	0	**87%**	-0.18	0.008	
GW-8 (821)	5%	5%		2	45.0	25.1	14.0	3.7	824.9	811	45.2	779.7	33	0	**95%**	-0.41	0.014	
GW-9 (824)	50%	50%		10	58.0	45.6	14.9	0.8	860.1	838	74.5	785.6	67	0	**78%**	-2.02	0.065	
GW-10 (827)	80%	80%		12	59.0	43.7	12.4	4.2	853.7	835.6	58.9	794.8	53	0	**77%**	-2.47	0.078	
GW-11 (865)	30%	30%		11	64.0	40.7	24.5	0.4	855.8	833.1	78.7	777.09	56.5	0	**99%**	-1.48	0.066	
GW-12 (831)	10%	10%		6	55.0	34.6	22.8	0.5	897.3	881.0	60.3	837.0	50.0	0	**88%**	-0.57	0.034	
GW-13 (830)	100%	100%		19	62.0	47.8	17.6	0.3	855.2	836.5	62.4	792.8	53.0	0	**82%**	-2.86	0.106	
GW-14 (833)	100%	100%		17	68.0	63.7	28.4	0.4	833.1	816.1	49.5	783.6	41.8	186	**78%**	-2.97	0.153	
GW-15 (836)	100%	100%		20	71.0	66.3	24.1	0.6	847.7	833.4	46.8	800.9	38.0	990	**86%**	-3.15	0.171	
GW-16 (839)	100%	100%		17	81.0	56.4	24.5	1.3	851.5	835.8	49.9	801.6	36.8	670.5	**93%**	-2.76	0.121	
GW-17 (842)	100%	100%		15	77.0	62.2	26.5	0.8	882.2	856.0	91.5	790.7	79.0	32.5	**83%**	-2.77	0.104	
GW-19 (841)	5%	5%		4	51.0	30.3	17.3	0.7	905.97	889.8	63.4	842.6	50.0	0	**94%**	-0.74	0.047	
GW-20 (867)	20%	20%		7	56.0	33.1	26.1	1.0	856.32	837.1	67.7	788.6	49.5	0	**98%**	-1.26	0.074	
GW-21 (869)	12%	20%		5	57.0	38.2	16.1	0.9	810.0	795.1	26.6	783.4	13.5	0	**87%**	-0.45	0.046	
GW-22 (871)	15%	15%		6	39.0	33.3	25.4	1.2	815.62	796.0	36.7	778.9	22.5	0	**76%**	-0.98	0.082	
GW-26 (843)	10%	10%		5	47.0	26.5	17.6	1.4	881.21	865.7	60.3	820.9	50.0	0	**90%**	-1.03	0.039	
GW-27 (844)	15%	15%		8	51.0	30.7	29.8	0.9	857.02	841.2	45.9	811.1	31.0	0	**97%**	-0.61	0.045	
GW-33 (873)	5%	5%		4	58.0	22.2	17.6	3.3	815.63	797.9	41.4	774.2	24.5	0	**97%**	-0.29	0.039	

					Temp	CH4	CO2	O2	Static	Diff.	Comments
Phase VII (851)	10%	10%			42.0	20.0	16.4	2.4	-0.24	0.038	
Phase V CO (847)	20%	20%			46.0	29.6	15.3	3.3	-1.11	0.026	
Phase IV CO (845)	20%	20%			35.0	18.0	12.4	4.1	-0.53	0.041	
STOC 1 (853)	100%	100%			61.0	56.1	28.4	2.2	-2.41	0.089	
STOC 2 (855)	70%	70%			62.0	40.3	20.1	4.0	-1.22	0.023	
STOC 3 (857)	20%	20%			55.0	41.5	18.6	3.7	-0.75	0.048	
STOC 4 (859)	3%	3%			42.0	16.2	15.5	1.8	-0.32	0.009	
STOC 5 (861)	3%	3%			44.0	18.6	16.5	4.9	-0.21	0.005	
STOC 6 (863)	3%	3%			38.0	17.3	13.3	4.5	-0.34	0.008	
STOC 7 (875)	3%	3%			32.0	14.5	16.9	2.3	-0.10	0.010	
STOC 8 (854)	40%	40%			61.0	49.7	26.6	0.7	-0.42	0.035	
STOC 9 (856)	5%	5%			48.0	41.0	28.4	1.2	-0.23	0.020	
STOC 10	30%	30%			89.0	38.5	26.5	1.1	-1.45	0.057	
STOC 11	5%	5%			90.0	35.1	25.2	0.5	-0.30	0.013	
Phase VI-E (849)	5%	5%			64.0	16.3	14.3	4.5	-0.24	0.021	
STOC 12A	45%	45%			58.0	58.1	31.8	0.7	-1.30	0.073	
STOC 13 (879)	5%	5%			42.0	23.9	14.7	2.9	-0.26	0.011	
STOC 14 (881)	10%	10%			44.0	45.8	24.1	1.2	-0.25	0.013	
STOC 15 (883)	3%	3%			46.0	11.6	13.0	4.1	-0.12	0.007	
STOC 16	15%	15%			66.0	44.5	28.8	0.9	-0.41	0.028	

Well #	Start	End	Gallons
14	178563	178935	186
15	250723	252703	990
16	284486	285827	670.5
17	463059	463124	32.5

Cycle = .5 gallons

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Air Permit 05-MHR-210 Compliance Demonstration

Closed and Active Landfills

Monthly Gas Well Deviation Report[1] **January 2024**

Gas Wells with Oxygen > 5%

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Oxygen %	Explanation	Corrective Action	Date	Oxygen %	Date	Oxygen %	Date	Action	Y/N

Gas Wells with Temperature > 131 degrees F

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Temp deg F	Explanation	Corrective Action	Date	Temp deg F	Date	Temp deg F	Date	Action	Y/N

Gas Wells with Positive Pressure

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Press. "H_2O	Explanation	Corrective Action	Date	Press. "H_2O	Date	Press. "H_2O	Date	Action	Y/N

Notes:

1 La Crosse County is submitting this deviation report in accordance with Permit Condition II.D.1.c., but reserves the right to provide additional information and/or dispute any determination of permit violation based on the information submitted in this report. A deviation does not automatically constitute a violation, particularly where corrective measures are undertaken in accordance with the permit. Nothing in this submittal should be deemed to be an admission of any violation or a waiver of any factual or legal defenses to any assertion that any of the reported information constitutes a violation.

2 Pending action indicates that 10 and 45-day remonitoring actions and/or 120-day corrective actions will be taken to demonstrate compliance.

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Client: La Crosse County Scope ID:
Project: Gas Balance Page: 1
Prepared by: Jackie Davis Date: 1/27/24
Checked by: Jackie Davis Date: 1/27/24

GAS INSTRUMENT CALIBRATION DOCUMENTATION

Location: La Crose County Solid Waste Department, 3200 Berlin Drive La Crosse WI 54601

Personnel: Jackie Davis Comments: Factory Calibrated

Instrument: Landtech GEM 5000 Serial #:
Instrument: Landtech GEM 5000 Serial #:

Gas: Methane

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	50.0	49.9	0.1	0.2%	X	

Gas: Carbon Dioxide

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	35.0	35.0	0.0	0.0%	X	

Gas: Oxygen

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	12710	4.0	4.0	0.0	0.0%	X	
Span	Ambient Air	20.8	20.8	0.0	0.0%	X	

Gas:

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero				0.0	0.0%		
Span				0.0	0.0%		

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Gas Balance Sheet 2024

Page 1

Taken by: JES | ***Date*** 2/26/2024 | Start Barometric Pressure 30.29 | Weather: 42 Degrees F 8.6 MPH PT Cloudy

Time 12:30 PM

Checked by: JES /SEH | PM | End Barometric Pressure 29.47 | Weather: 50 Degrees F 15.2 MPH PT Cloudy

Sample Location (DNR ID)	Initial Pointer Setting %	End Pointer Setting %	Vacuum " of H2O Well	Flow	Temp. F	Gas Concentration Percent Methane W	Carbon Dioxide W	Oxygen W	Top of well elevation	Top of screen elevation	Depth to Leachate (feet)	Liquid elevation	Screen Length (ft)	Liquid Pumped	% Screen open	Static	Differential	Comments
Flare St (781)	100	100	-3.7	248	52.1	41.0	25.8	1.1								-	-	
Flare End (781)	100	100	-2.8	245.7	51.7	41.4	25.5	1.0								-	-	
GW-1 (800)	3%	3%		1	45.0	11.1	12.4	1.6	806.5	791.6	38	768.5	23.5	0	**98%**	-0.11	0.004	
GW-2(803)	3%	3%		2	64.0	19.2	3.2	0.2	802.3	786.8	38.9	763.4	23.5	0	**100%**	-0.18	0.007	
GW-3 (806)	5%	5%		2	61.0	18.1	6.4	0.4	797.4	781.6	38.6	758.8	23.5	0	**97%**	-0.33	0.010	
GW-4 (809)	3%	3%		2	59.0	19.7	8.4	0.3	801.3	785.3	37	764.3	21.5	0	**98%**	-0.21	0.008	
GW-5 (812)	5%	5%		3	59.0	11.9	12.3	0.4	804.7	789.4	39.4	765.3	24.5	0	**98%**	-0.27	0.016	
GW-6 (815)	5%	5%		2	68.0	12.4	13.3	0.4	811.6	797	42.2	769.4	29	0	**95%**	-0.33	0.012	
GW-7 (818)	3%	3%		1	68.0	12.8	13.4	0.5	813.5	799	38	775.5	27	0	**87%**	-0.14	0.006	
GW-8 (821)	5%	5%		2	70.0	16.1	12.5	0.4	824.9	811	45.2	779.7	33	0	**95%**	-0.38	0.010	
GW-9 (824)	50%	50%		11	63.0	43.7	14.4	1.1	860.1	838	74.5	785.6	67	0	**78%**	-1.88	0.076	
GW-10 (827)	80%	80%		15	58.0	43.4	11.8	3.2	853.7	835.6	58.9	794.8	53	0	**77%**	-2.24	0.105	
GW-11 (865)	30%	30%		12	68.0	38.6	23.1	0.4	855.8	833.1	78.7	777.09	56.5	0	**99%**	-1.08	0.081	
GW-12 (831)	10%	20%		7	62.0	50.6	22.8	0.2	897.3	881.0	60.3	837.0	50.0	0	**88%**	-0.48	0.062	
GW-13 (830)	100%	60%		18	68.0	46.3	17.5	0.8	855.2	836.5	62.4	792.8	53.0	0	**82%**	-2.26	0.094	
GW-14 (833)	100%	100%		20	74.0	62.5	25.1	1.3	833.1	816.1	49.5	783.6	41.8	56	**78%**	-2.88	0.131	
GW-15 (836)	100%	100%		19	81.0	64.9	23.6	0.7	847.7	833.4	46.8	800.9	38.0	569.5	**86%**	-2.91	0.155	
GW-16 (839)	100%	100%		20	58.0	59.0	25.8	0.9	851.5	835.8	49.9	801.6	36.8	327.5	**93%**	-2.63	0.137	
GW-17 (842)	100%	100%		14	62.0	58.2	30.0	1.6	882.2	856.0	91.5	790.7	79.0	183	**83%**	-2.40	0.112	
GW-19 (841)	5%	25%		8	62.0	54.8	24.9	0.3	905.97	889.8	63.4	842.6	50.0	0	**94%**	-1.13	0.060	
GW-20 (867)	20%	20%		7	68.0	31.5	26.2	0.5	856.32	837.1	67.7	788.6	49.5	0	**98%**	-1.03	0.061	
GW-21 (869)	12%	20%		6	43.0	19.8	17.0	0.6	810.0	795.1	26.6	783.4	13.5	0	**87%**	-0.67	0.063	
GW-22 (871)	15%	15%		5	46.0	31.7	25.2	0.2	815.62	796.0	36.7	778.9	22.5	0	**76%**	-0.82	0.099	
GW-26 (843)	10%	10%		6	68.0	40.7	19.2	0.9	881.21	865.7	60.3	820.9	50.0	0	**90%**	-0.74	0.048	
GW-27 (844)	15%	15%		9	68.0	30.9	22.7	0.7	857.02	841.2	45.9	811.1	31.0	0	**97%**	-0.77	0.037	
GW-33 (873)	5%	5%		3	94.0	20.6	17.9	3.2	815.63	797.9	41.4	774.2	24.5	0	**97%**	-0.38	0.032	

					Temp	CH4	CO2	O2	Static	Diff.	Comments
Phase VII (851)	10%	10%			59.0	15.7	19.0	0.6	-0.20	0.022	
Phase V CO (847)	20%	20%			52.0	30.7	16.7	3.6	-1.12	0.018	
Phase IV CO (845)	20%	20%			56.0	15.8	12.9	3.9	-0.54	0.052	
STOC 1 (853)	100%	100%			68.0	58.8	30.0	0.6	-2.51	0.104	
STOC 2 (855)	70%	60%			70.0	32.3	17.6	4.8	-1.24	0.087	
STOC 3 (857)	20%	10%			61.0	29.3	15.7	3.7	-0.86	0.038	
STOC 4 (859)	3%	3%			61.0	8.6	12.5	3.5	-0.24	0.006	
STOC 5 (861)	3%	3%			69.0	8.8	16.7	4.3	-0.20	0.002	
STOC 6 (863)	3%	3%			59.0	20.1	12.6	4.4	-0.24	0.014	
STOC 7 (875)	3%	3%			51.0	13.3	17.8	1.9	-0.14	0.008	
STOC 8 (854)	40%	40%			61.0	34.3	31.3	0.6	-0.64	0.055	
STOC 9 (856)	5%	5%			54.0	26.0	23.4	0.7	-0.16	0.030	
STOC 10	30%	30%			92.0	35.8	26.3	0.5	-1.31	0.074	
STOC 11	5%	5%			84.0	37.8	25.2	0.5	-0.26	0.014	
Phase VI-E (849)	5%	5%			62.0	20.7	15.1	4.2	-0.18	0.016	
STOC 12A	45%	50%			52.0	56.9	33.5	0.5	-1.37	0.084	
STOC 13 (879)	5%	5%			51.0	18.1	15.2	3.3	-0.22	0.016	
STOC 14 (881)	10%	5%			56.0	32.7	20.1	2.8	-0.31	0.027	
STOC 15 (883)	3%	3%			61.0	13.1	15.4	3.9	-0.18	0.011	
STOC 16	15%	15%			57.0	45.2	27.6	0.7	-0.51	0.034	

Well #	Start	End	Gallons
14	178935	179047	56
15	252703	253842	569.5
16	285827	286482	327.5
17	463124	463490	183

Cycle = .5 gallons

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Air Permit 05-MHR-210 Compliance Demonstration

Closed and Active Landfills

Monthly Gas Well Deviation Report[1] **February 2024**

Gas Wells with Oxygen > 5%

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Oxygen %	Explanation	Corrective Action	Date	Oxygen %	Date	Oxygen %	Date	Action	Y/N

Gas Wells with Temperature > 131 degrees F

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Temp deg F	Explanation	Corrective Action	Date	Temp deg F	Date	Temp deg F	Date	Action	Y/N

Gas Wells with Positive Pressure

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Press. "H_2O	Explanation	Corrective Action	Date	Press. "H_2O	Date	Press. "H_2O	Date	Action	Y/N

Notes:

1 La Crosse County is submitting this deviation report in accordance with Permit Condition II.D.1.c., but reserves the right to provide additional information and/or dispute any determination of permit violation based on the information submitted in this report. A deviation does not automatically constitute a violation, particularly where corrective measures are undertaken in accordance with the permit. Nothing in this submittal should be deemed to be an admission of any violation or a waiver of any factual or legal defenses to any assertion that any of the reported information constitutes a violation.

2 Pending action indicates that 10 and 45-day remonitoring actions and/or 120-day corrective actions will be taken to demonstrate compliance.

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Client: La Crosse County Scope ID:
Project: Gas Balance Page: 1
Prepared by: Jackie Davis Date: 2/26/24
Checked by: Jackie Davis Date: 2/26/24

GAS INSTRUMENT CALIBRATION DOCUMENTATION

Location: La Crose County Solid Waste Department, 3200 Berlin Drive La Crosse WI 54601

Personnel: Jackie Davis Comments: Factory Calibrated

Instrument: Landtech GEM 5000 Serial #:
Instrument: Landtech GEM 5000 Serial #:

Gas: Methane

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	50.0	50.0	0.0	0.0%	X	

Gas: Carbon Dioxide

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	35.0	35.0	0.0	0.0%	X	

Gas: Oxygen

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	12710	4.0	4.0	0.0	0.0%	X	
Span	Ambient Air	20.8	20.8	0.0	0.0%	X	

Gas:

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero				0.0	0.0%		
Span				0.0	0.0%		

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Gas Balance Sheet 2024

Page 1

Taken by: JES | ***Date*** 3/12/2024 | Start Barometric Pressure 28.99 | Weather: 57 Degrees F 6.3 MPH PT Cloudy

Time 9:30 AM

Checked by: JES /SEH | End Barometric Pressure 29.00 | Weather: 63 Degrees F 8.2 MPH PT Cloudy

Sample Location (DNR ID)	Initial Pointer Setting %	End Pointer Setting %	Vacuum " of H2O Well	Flow	Temp. F	Gas Concentration Percent Methane W	Carbon Dioxide W	Oxygen W	Top of well elevation	Top of screen elevation	Depth to Leachate (feet)	Liquid elevation	Screen Length (ft)	Liquid Pumped	% Screen open	Static	Differential	Comments
Flare St (781)	100	100	-3.6	237	55.4	39.8	24.6	1.9								-	-	
Flare End (781)	100	100	-3.5	239	56.0	40.2	25.0	1.7								-	-	
GW-1 (800)	3%	3%		2	55.0	12.4	13.6	1.5	806.5	791.6	38	768.5	23.5	0	**98%**	-0.10	0.006	
GW-2(803)	3%	3%		1	61.0	18.8	3.1	0.5	802.3	786.8	38.9	763.4	23.5	0	**100%**	-0.09	0.003	
GW-3 (806)	5%	5%		3	63.0	19.2	7.1	0.6	797.4	781.6	38.6	758.8	23.5	0	**97%**	-0.13	0.012	
GW-4 (809)	3%	3%		2	58.0	19.3	8.6	0.4	801.3	785.3	37	764.3	21.5	0	**98%**	-0.18	0.006	
GW-5 (812)	5%	5%		2	61.0	13.7	13.1	0.6	804.7	789.4	39.4	765.3	24.5	0	**98%**	-0.15	0.011	
GW-6 (815)	5%	5%		2	67.0	12.8	14.2	0.5	811.6	797	42.2	769.4	29	0	**95%**	-0.24	0.015	
GW-7 (818)	3%	3%		2	55.0	13.7	14.1	0.3	813.5	799	38	775.5	27	0	**87%**	-0.11	0.007	
GW-8 (821)	5%	5%		4	64.0	17.2	11.8	0.2	824.9	811	45.2	779.7	33	0	**95%**	-0.23	0.022	
GW-9 (824)	50%	50%		10	67.0	42.1	16.8	1.3	860.1	838	74.5	785.6	67	0	**78%**	-1.71	0.064	
GW-10 (827)	80%	80%		16	66.0	44.5	15.6	3.1	853.7	835.6	58.9	794.8	53	0	**77%**	-2.36	0.124	
GW-11 (865)	30%	30%		12	70.0	40.0	22.9	0.6	855.8	833.1	78.7	777.09	56.5	0	**99%**	-0.94	0.080	
GW-12 (831)	20%	20%		8	64.0	51.2	23.7	0.1	897.3	881.0	60.3	837.0	50.0	0	**88%**	-0.52	0.053	
GW-13 (830)	60%	60%		15	68.0	45.8	18.9	0.7	855.2	836.5	62.4	792.8	53.0	0	**82%**	-2.12	0.107	
GW-14 (833)	100%	100%		21	77.0	61.3	24.9	0.9	833.1	816.1	49.5	783.6	41.8	68.5	**78%**	-2.91	0.138	
GW-15 (836)	100%	100%		19	83.0	65.7	24.0	0.8	847.7	833.4	46.8	800.9	38.0	366	**86%**	-3.08	0.101	
GW-16 (839)	100%	100%		21	62.0	58.6	24.9	1.1	851.5	835.8	49.9	801.6	36.8	258.5	**93%**	-2.72	0.145	
GW-17 (842)	100%	100%		15	63.0	59.4	30.5	1.2	882.2	856.0	91.5	790.7	79.0	192.5	**83%**	-2.53	0.123	
GW-19 (841)	25%	25%		7	62.0	54.5	24.7	0.4	905.97	889.8	63.4	842.6	50.0	0	**94%**	-1.20	0.067	
GW-20 (867)	20%	20%		6	72.0	31.8	25.8	0.4	856.32	837.1	67.7	788.6	49.5	0	**98%**	-1.18	0.059	
GW-21 (869)	20%	20%		7	56.0	20.2	17.4	0.7	810.0	795.1	26.6	783.4	13.5	0	**87%**	-0.74	0.054	
GW-22 (871)	15%	15%		7	55.0	31.2	24.6	0.3	815.62	796.0	36.7	778.9	22.5	0	**76%**	-0.66	0.041	
GW-26 (843)	10%	10%		5	71.0	41.3	19.5	1.0	881.21	865.7	60.3	820.9	50.0	0	**90%**	-0.52	0.033	
GW-27 (844)	15%	15%		8	73.0	31.4	21.7	0.6	857.02	841.2	45.9	811.1	31.0	0	**97%**	-0.64	0.035	
GW-33 (873)	5%	5%		4	96.0	25.9	16.3	3.8	815.63	797.9	41.4	774.2	24.5	0	**97%**	-0.21	0.022	

					Temp	CH4	CO2	O2	Static	Diff.	Comments
Phase VII (851)	10%	10%			63.0	15.1	18.8	0.8	-0.22	0.026	
Phase V CO (847)	20%	20%			55.0	31.3	16.9	3.7	-1.34	0.029	
Phase IV CO (845)	20%	20%			58.0	16.8	12.4	3.1	-0.48	0.047	
STOC 1 (853)	100%	100%			79.0	55.5	29.7	0.8	-2.34	0.114	
STOC 2 (855)	60%	60%			80.0	29.5	16.5	4.7	-1.44	0.078	
STOC 3 (857)	10%	10%			74.0	30.3	14	3.4	-0.78	0.029	
STOC 4 (859)	3%	3%			65.0	10.0	12.3	3.2	-0.18	0.011	
STOC 5 (861)	3%	3%			70.0	9.6	15.8	4.7	-0.16	0.008	
STOC 6 (863)	3%	3%			66.0	19.3	13.7	3.9	-0.11	0.009	
STOC 7 (875)	3%	3%			54.0	12.1	16.8	2.2	-0.12	0.010	
STOC 8 (854)	40%	40%			68.0	34.8	30.8	0.4	-0.86	0.043	
STOC 9 (856)	5%	5%			69.0	26.4	23.3	0.8	-0.34	0.031	
STOC 10	30%	30%			93.0	38.4	25.4	0.4	-1.47	0.055	
STOC 11	5%	5%			85.0	33.5	25.9	0.7	-0.25	0.008	
Phase VI-E (849)	5%	5%			67.0	22.2	14.6	4.4	-0.30	0.012	
STOC 12A	50%	50%			55.0	55.0	31.7	0.6	-1.33	0.094	
STOC 13 (879)	5%	5%			58.0	17.5	14.9	4.1	-0.24	0.018	
STOC 14 (881)	5%	5%			60.0	33.6	19.5	2.6	-0.21	0.021	
STOC 15 (883)	3%	3%			63.0	14.5	15.7	3.8	-0.10	0.009	
STOC 16	15%	15%			61.0	44.8	26.6	0.8	-0.49	0.028	

Well #	Start	End	Gallons
14	179047	179184	68.5
15	253842	254574	366
16	286482	286999	258.5
17	463490	463875	192.5

Cycle = .5 gallons

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Air Permit 05-MHR-210 Compliance Demonstration

Closed and Active Landfills

Monthly Gas Well Deviation Report[1] **March 2024**

Gas Wells with Oxygen > 5%

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Oxygen %	Explanation	Corrective Action	Date	Oxygen %	Date	Oxygen %	Date	Action	Y/N

Gas Wells with Temperature > 131 degrees F

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Temp deg F	Explanation	Corrective Action	Date	Temp deg F	Date	Temp deg F	Date	Action	Y/N

Gas Wells with Positive Pressure

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Press. "H_2O	Explanation	Corrective Action	Date	Press. "H_2O	Date	Press. "H_2O	Date	Action	Y/N

Notes:

1 La Crosse County is submitting this deviation report in accordance with Permit Condition II.D.1.c., but reserves the right to provide additional information and/or dispute any determination of permit violation based on the information submitted in this report. A deviation does not automatically constitute a violation, particularly where corrective measures are undertaken in accordance with the permit. Nothing in this submittal should be deemed to be an admission of any violation or a waiver of any factual or legal defenses to any assertion that any of the reported information constitutes a violation.

2 Pending action indicates that 10 and 45-day remonitoring actions and/or 120-day corrective actions will be taken to demonstrate compliance.

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Client: La Crosse County Scope ID:
Project: Gas Balance Page: 1
Prepared by: Jadd Stilwell Date: 3/12/24
Checked by: Jadd Stilwell Date: 3/12/24

GAS INSTRUMENT CALIBRATION DOCUMENTATION

Location: La Crose County Solid Waste Department, 3200 Berlin Drive La Crosse WI 54601

Personnel: Jackie Davis Comments: Factory Calibrated

Instrument: Landtech GEM 5000 Serial #:
Instrument: Landtech GEM 5000 Serial #:

Gas: Methane

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	50.0	50.0	0.0	0.0%	X	

Gas: Carbon Dioxide

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	35.0	34.9	0.1	0.3%	X	

Gas: Oxygen

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	12710	4.0	4.0	0.0	0.0%	X	
Span	Ambient Air	20.8	20.8	0.0	0.0%	X	

Gas:

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero				0.0	0.0%		
Span				0.0	0.0%		

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Gas Balance Sheet 2024

Page 1

Taken by: JES | ***Date*** 4/23/2024 | Start Barometric Pressure 28.92 | Weather: 59.7 Degrees F 11.8 MPH Fair

Time 10:30 AM

Checked by: JES /SEH | 12:30 PM | End Barometric Pressure 28.94 | Weather: 60.6 Degrees F 20.6 MPH Mostly Cloudy

Sample Location (DNR ID)	Initial Pointer Setting %	End Pointer Setting %	Vacuum " of H2O Well	Flow	Temp. F	Gas Concentration Percent Methane W	Carbon Dioxide W	Oxygen W	Top of well elevation	Top of screen elevation	Depth to Leachate (feet)	Liquid elevation	Screen Length (ft)	Liquid Pumped	% Screen open	Static	Differential	Comments
Flare St (781)	100	100	-3.8	241	60.3	41.3	25.4	1.8								-	-	
Flare End (781)	100	100	-3.7	248	61.1	42.0	25.3	1.7								-	-	
GW-1 (800)	3%	3%		2	62.0	13.5	14.5	1.9	806.5	791.6	38	768.5	23.5	0	**98%**	-0.13	0.010	
GW-2(803)	3%	3%		2	63.0	17.9	6.8	0.4	802.3	786.8	38.9	763.4	23.5	0	**100%**	-0.08	0.005	
GW-3 (806)	5%	5%		1	60.0	17.7	9.5	0.9	797.4	781.6	38.6	758.8	23.5	0	**97%**	-0.19	0.021	
GW-4 (809)	3%	3%		2	64.0	20.1	10.2	0.8	801.3	785.3	37	764.3	21.5	0	**98%**	-0.18	0.020	
GW-5 (812)	5%	5%		3	63.0	13.0	12.5	0.5	804.7	789.4	39.4	765.3	24.5	0	**98%**	-0.22	0.016	
GW-6 (815)	5%	5%		2	68.0	13.3	13.4	0.9	811.6	797	42.2	769.4	29	0	**95%**	-0.29	0.011	
GW-7 (818)	3%	3%		1	61.0	12.7	15.8	0.6	813.5	799	38	775.5	27	0	**87%**	-0.09	0.009	
GW-8 (821)	5%	5%		3	64.0	16.8	11.0	0.3	824.9	811	45.2	779.7	33	0	**95%**	-0.34	0.025	
GW-9 (824)	50%	50%		11	67.0	43.1	15.2	1.5	860.1	838	74.5	785.6	67	0	**78%**	-1.94	0.059	
GW-10 (827)	80%	80%		15	70.0	43.3	15.4	3.6	853.7	835.6	58.9	794.8	53	0	**77%**	-2.68	0.131	
GW-11 (865)	30%	30%		11	74.0	41.5	23.8	0.2	855.8	833.1	78.7	777.09	56.5	0	**99%**	-1.41	0.078	
GW-12 (831)	20%	20%		9	71.0	46.3	24.0	0.3	897.3	881.0	60.3	837.0	50.0	0	**88%**	-0.56	0.048	
GW-13 (830)	60%	60%		14	74.0	45.5	19.1	0.8	855.2	836.5	62.4	792.8	53.0	0	**82%**	-2.34	0.099	
GW-14 (833)	100%	100%		22	79.0	62.0	25.2	1.1	833.1	816.1	49.5	783.6	41.8	218.5	**78%**	-3.11	0.120	
GW-15 (836)	100%	100%		18	81.0	64.6	24.3	0.7	847.7	833.4	46.8	800.9	38.0	215	**86%**	-3.38	0.111	
GW-16 (839)	100%	100%		20	65.0	62.1	24.8	1.3	851.5	835.8	49.9	801.6	36.8	344	**93%**	-2.62	0.155	
GW-17 (842)	100%	100%		17	68.0	60.3	30.6	1.3	882.2	856.0	91.5	790.7	79.0	122.5	**83%**	-2.84	0.132	
GW-19 (841)	25%	25%		7	63.0	56.7	25.7	0.5	905.97	889.8	63.4	842.6	50.0	0	**94%**	-1.48	0.051	
GW-20 (867)	20%	20%		5	79.0	35.1	26.2	0.6	856.32	837.1	67.7	788.6	49.5	0	**98%**	-1.06	0.070	
GW-21 (869)	20%	20%		6	63.0	21.9	18.0	0.5	810.0	795.1	26.6	783.4	13.5	0	**87%**	-0.51	0.059	
GW-22 (871)	15%	15%		5	64.0	32.8	23.9	0.4	815.62	796.0	36.7	778.9	22.5	0	**76%**	-0.60	0.038	
GW-26 (843)	10%	10%		7	70.0	42.6	20.2	0.9	881.21	865.7	60.3	820.9	50.0	0	**90%**	-0.42	0.061	
GW-27 (844)	15%	15%		7	76.0	32.7	20.3	0.5	857.02	841.2	45.9	811.1	31.0	0	**97%**	-0.44	0.041	
GW-33 (873)	5%	5%		3	95.0	25.8	15.4	4.1	815.63	797.9	41.4	774.2	24.5	0	**97%**	-0.61	0.020	

					Temp	CH4	CO2	O2	Static	Diff.	Comments
Phase VII (851)	10%	10%			72.0	16.1	17.4	0.8	-0.26	0.034	
Phase V CO (847)	20%	20%			63.0	32.2	17.2	3.4	-1.04	0.026	
Phase IV CO (845)	20%	20%			61.0	17.2	13.5	2.9	-0.38	0.051	
STOC 1 (853)	100%	100%			81.0	57.4	28.6	0.7	-2.56	0.140	
STOC 2 (855)	60%	60%			79.0	30.4	17.0	4.4	-1.58	0.088	
STOC 3 (857)	10%	10%			77.0	31.8	14.3	3.0	-0.62	0.023	
STOC 4 (859)	3%	3%			63.0	11.8	11.8	4.1	-0.20	0.013	
STOC 5 (861)	3%	3%			61.0	10.3	16.9	4.2	-0.14	0.016	
STOC 6 (863)	3%	3%			62.0	20.1	13.4	3.7	-0.19	0.014	
STOC 7 (875)	3%	3%			60.0	13.8	18.8	2.7	-0.11	0.009	
STOC 8 (854)	40%	40%			71.0	35.6	29.5	0.6	-0.78	0.051	
STOC 9 (856)	5%	5%			74.0	25.7	22.6	0.7	-0.29	0.024	
STOC 10	30%	30%			96.0	40.0	24.3	0.3	-1.20	0.047	
STOC 11	5%	5%			88.0	32.5	25.8	0.8	-0.34	0.022	
Phase VI-E (849)	5%	5%			65.0	23.0	15.7	4.7	-0.29	0.010	
STOC 12A	50%	50%			67.0	54.3	32.1	0.5	-1.48	0.084	
STOC 13 (879)	5%	5%			61.0	18.4	14.7	4.5	-0.19	0.027	
STOC 14 (881)	5%	5%			63.0	35.2	18.2	2.5	-0.36	0.018	
STOC 15 (883)	3%	3%			61.0	16.5	16.4	3.4	-0.15	0.014	
STOC 16	15%	15%			67.0	45.5	25.7	0.9	-0.51	0.021	

Well #	Start	End	Gallons
14	179184	179621	218.5
15	254574	255004	215
16	286999	287687	344
17	463875	464120	122.5

Cycle = .5 gallons

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Air Permit 05-MHR-210 Compliance Demonstration

Closed and Active Landfills

Monthly Gas Well Deviation Report[1] **April 2024**

Gas Wells with Oxygen > 5%

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Oxygen %	Explanation	Corrective Action	Date	Oxygen %	Date	Oxygen %	Date	Action	Y/N

Gas Wells with Temperature > 131 degrees F

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Temp deg F	Explanation	Corrective Action	Date	Temp deg F	Date	Temp deg F	Date	Action	Y/N

Gas Wells with Positive Pressure

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Press. "H_2O	Explanation	Corrective Action	Date	Press. "H_2O	Date	Press. "H_2O	Date	Action	Y/N

Notes:

1 La Crosse County is submitting this deviation report in accordance with Permit Condition II.D.1.c., but reserves the right to provide additional information and/or dispute any determination of permit violation based on the information submitted in this report. A deviation does not automatically constitute a violation, particularly where corrective measures are undertaken in accordance with the permit. Nothing in this submittal should be deemed to be an admission of any violation or a waiver of any factual or legal defenses to any assertion that any of the reported information constitutes a violation.

2 Pending action indicates that 10 and 45-day remonitoring actions and/or 120-day corrective actions will be taken to demonstrate compliance.

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Client: La Crosse County Scope ID:
Project: Gas Balance Page: 1
Prepared by: Jadd Stilwell Date: 4/23/24
Checked by: Jadd Stilwell Date: 4/23/24

GAS INSTRUMENT CALIBRATION DOCUMENTATION

Location: La Crose County Solid Waste Department, 3200 Berlin Drive La Crosse WI 54601

Personnel: Jackie Davis Comments: Factory Calibrated

Instrument: Landtech GEM 5000 Serial #:
Instrument: Landtech GEM 5000 Serial #:

Gas: Methane

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	50.0	50.0	0.0	0.0%	X	

Gas: Carbon Dioxide

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	35.0	35.0	0.0	0.0%	X	

Gas: Oxygen

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	12710	4.0	4.0	0.0	0.0%	X	
Span	Ambient Air	20.8	20.8	0.0	0.0%	X	

Gas:

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero				0.0	0.0%		
Span				0.0	0.0%		

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Gas Balance Sheet 2024

Page 1

Taken by: JES | ***Date*** 5/17/2024 | Start Barometric Pressure 29.03 | Weather: 63.9 Degrees F 1.3 MPH Fair

Time 9:10 AM

Checked by: JES /SEH | 11:10 AM | End Barometric Pressure 29.00 | Weather: 73.2 Degrees F 6.4 MPH Fair

Sample Location (DNR ID)	Initial Pointer Setting %	End Pointer Setting %	Vacuum " of H2O Well	Flow	Temp. F	Gas Concentration Percent Methane W	Carbon Dioxide W	Oxygen W	Top of well elevation	Top of screen elevation	Depth to Leachate (feet)	Liquid elevation	Screen Length (ft)	Liquid Pumped	% Screen open	Static	Differential	Comments
Flare St (781)	100	100	-4.1	238	62.8	40.5	25.1	1.7								-	-	
Flare End (781)	100	100	-4.0	237	63.0	41.4	25.0	1.6								-	-	
GW-1 (800)	3%	3%		2	63.0	12.9	13.2	2.1	806.5	791.6	38	768.5	23.5	0	**98%**	-0.09	0.007	
GW-2(803)	3%	3%		1	62.0	16.8	8.8	0.9	802.3	786.8	38.9	763.4	23.5	0	**100%**	-0.08	0.011	
GW-3 (806)	5%	5%		3	64.0	16.7	10.5	0.7	797.4	781.6	38.6	758.8	23.5	0	**97%**	-0.13	0.026	
GW-4 (809)	3%	3%		1	66.0	19.4	9.9	0.6	801.3	785.3	37	764.3	21.5	0	**98%**	-0.12	0.013	
GW-5 (812)	5%	5%		4	64.0	13.5	11.7	0.7	804.7	789.4	39.4	765.3	24.5	0	**98%**	-0.27	0.014	
GW-6 (815)	5%	5%		3	65.0	12.7	12.9	1.1	811.6	797	42.2	769.4	29	0	**95%**	-0.22	0.018	
GW-7 (818)	3%	3%		2	63.0	13.4	13.7	0.5	813.5	799	38	775.5	27	0	**87%**	-0.11	0.013	
GW-8 (821)	5%	5%		5	68.0	17.0	12.1	0.6	824.9	811	45.2	779.7	33	0	**95%**	-0.26	0.019	
GW-9 (824)	50%	50%		10	72.0	40.8	14.7	1.3	860.1	838	74.5	785.6	67	0	**78%**	-2.04	0.050	
GW-10 (827)	80%	80%		16	71.0	44.2	16.4	3.1	853.7	835.6	58.9	794.8	53	0	**77%**	-2.78	0.117	
GW-11 (865)	30%	30%		9	75.0	42.1	22.1	0.6	855.8	833.1	78.7	777.09	56.5	0	**99%**	-1.35	0.063	
GW-12 (831)	20%	20%		9	74.0	45.6	23.4	0.8	897.3	881.0	60.3	837.0	50.0	0	**88%**	-0.76	0.038	
GW-13 (830)	60%	60%		13	75.0	44.4	18.3	0.8	855.2	836.5	62.4	792.8	53.0	0	**82%**	-2.57	0.102	
GW-14 (833)	100%	100%		21	76.0	61.1	24.1	0.9	833.1	816.1	49.5	783.6	41.8	295	**78%**	-3.30	0.114	
GW-15 (836)	100%	100%		17	84.0	63.5	25.0	0.5	847.7	833.4	46.8	800.9	38.0	324	**86%**	-3.42	0.101	
GW-16 (839)	100%	100%		18	66.0	61.8	23.6	1.5	851.5	835.8	49.9	801.6	36.8	317	**93%**	-2.89	0.131	
GW-17 (842)	100%	100%		20	68.0	59.7	29.7	1.1	882.2	856.0	91.5	790.7	79.0	267.5	**83%**	-3.27	0.111	
GW-19 (841)	25%	25%		8	67.0	57.0	24.8	0.6	905.97	889.8	63.4	842.6	50.0	0	**94%**	-1.59	0.049	
GW-20 (867)	20%	20%		6	77.0	35.8	25.1	0.7	856.32	837.1	67.7	788.6	49.5	0	**98%**	-0.88	0.061	
GW-21 (869)	20%	20%		9	65.0	20.4	18.5	0.7	810.0	795.1	26.6	783.4	13.5	0	**87%**	-0.68	0.050	
GW-22 (871)	15%	15%		6	69.0	31.0	21.7	0.3	815.62	796.0	36.7	778.9	22.5	0	**76%**	-0.36	0.027	
GW-26 (843)	10%	10%		5	78.0	43.5	19.5	0.8	881.21	865.7	60.3	820.9	50.0	0	**90%**	-0.39	0.058	
GW-27 (844)	15%	15%		6	76.0	31.8	20.1	0.4	857.02	841.2	45.9	811.1	31.0	0	**97%**	-0.42	0.036	
GW-33 (873)	5%	5%		4	93.0	24.7	14.8	4.3	815.63	797.9	41.4	774.2	24.5	0	**97%**	-0.33	0.024	

					Temp	CH4	CO2	O2	Static	Diff.	Comments
Phase VII (851)	10%	10%			75.0	18.2	16.3	0.6	-0.22	0.031	
Phase V CO (847)	20%	20%			70.0	29.1	15.4	3.1	-1.11	0.037	
Phase IV CO (845)	20%	20%			66.0	18.8	14.7	2.3	-0.42	0.048	
STOC 1 (853)	100%	100%			77.0	54.3	26.5	0.5	-2.89	0.124	
STOC 2 (855)	60%	60%			80.0	36.8	18.3	3.9	-1.75	0.072	
STOC 3 (857)	10%	10%			76.0	29.4	12.2	3.1	-0.51	0.027	
STOC 4 (859)	3%	3%			68.0	14.5	14.7	4.0	-0.12	0.009	
STOC 5 (861)	3%	3%			63.0	12.5	9.6	4.4	-0.18	0.011	
STOC 6 (863)	3%	3%			66.0	23.8	18.1	2.9	-0.08	0.015	
STOC 7 (875)	3%	3%			67.0	15.7	16.2	2.1	-0.17	0.011	
STOC 8 (854)	40%	40%			74.0	36.3	29.0	0.5	-0.84	0.044	
STOC 9 (856)	5%	5%			76.0	24.0	20.4	0.8	-0.22	0.018	
STOC 10	30%	30%			93.0	39.1	22.0	0.2	-0.97	0.057	
STOC 11	5%	5%			90.0	30.8	24.3	0.7	-0.42	0.026	
Phase VI-E (849)	5%	5%			71.0	24.7	16.7	4.5	-0.58	0.021	
STOC 12A	50%	50%			72.0	56.2	31.0	0.3	-1.34	0.071	
STOC 13 (879)	5%	5%			69.0	17.2	15.4	4.4	-0.41	0.022	
STOC 14 (881)	5%	5%			68.0	36.0	16.6	2.8	-0.36	0.025	
STOC 15 (883)	3%	3%			69.0	17.5	16.1	3.5	-0.33	0.008	
STOC 16	15%	15%			75.0	43.2	24.5	0.8	-0.87	0.031	

Well #	Start	End	Gallons
14	179621	180211	295
15	255004	255652	324
16	287687	288321	317
17	464120	464655	267.5

Cycle = .5 gallons

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Air Permit 05-MHR-210 Compliance Demonstration

Closed and Active Landfills

Monthly Gas Well Deviation Report[1] **May 2024**

Gas Wells with Oxygen > 5%

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Oxygen %	Explanation	Corrective Action	Date	Oxygen %	Date	Oxygen %	Date	Action	Y/N

Gas Wells with Temperature > 131 degrees F

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Temp deg F	Explanation	Corrective Action	Date	Temp deg F	Date	Temp deg F	Date	Action	Y/N

Gas Wells with Positive Pressure

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Press. "H_2O	Explanation	Corrective Action	Date	Press. "H_2O	Date	Press. "H_2O	Date	Action	Y/N

Notes:

1 La Crosse County is submitting this deviation report in accordance with Permit Condition II.D.1.c., but reserves the right to provide additional information and/or dispute any determination of permit violation based on the information submitted in this report. A deviation does not automatically constitute a violation, particularly where corrective measures are undertaken in accordance with the permit. Nothing in this submittal should be deemed to be an admission of any violation or a waiver of any factual or legal defenses to any assertion that any of the reported information constitutes a violation.

2 Pending action indicates that 10 and 45-day remonitoring actions and/or 120-day corrective actions will be taken to demonstrate compliance.

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Client: La Crosse County Scope ID:
Project: Gas Balance Page: 1
Prepared by: Jadd Stiwell Date: 5/17/24
Checked by: Jadd Stilwell Date: 5/17/24

GAS INSTRUMENT CALIBRATION DOCUMENTATION

Location: La Crose County Solid Waste Department, 3200 Berlin Drive La Crosse WI 54601

Personnel: Jackie Davis Comments: Factory Calibrated

Instrument: Landtech GEM 5000 Serial #:
Instrument: Landtech GEM 5000 Serial #:

Gas: Methane

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	50.0	50.0	0.0	0.0%	X	

Gas: Carbon Dioxide

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	35.0	35.0	0.0	0.0%	X	

Gas: Oxygen

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	12710	4.0	4.0	0.0	0.0%	X	
Span	Ambient Air	20.8	20.9	0.1	0.6%	X	

Gas:

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero				0.0	0.0%		
Span				0.0	0.0%		

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Gas Balance Sheet 2024

Page 1

Taken by: JES | ***Date*** 6/27/2024 | Start Barometric Pressure 29.25 | Weather: 70.8 Degrees F 3.1 MPH Fair

Time 9:40 AM

Checked by: JES /SEH | 11:40 AM | End Barometric Pressure 29.23 | Weather: 73.2 Degrees F 5.7 MPH Fair

Sample Location (DNR ID)	Initial Pointer Setting %	End Pointer Setting %	Vacuum " of H2O Well	Flow	Temp. F	Gas Concentration Percent Methane W	Carbon Dioxide W	Oxygen W	Top of well elevation	Top of screen elevation	Depth to Leachate (feet)	Liquid elevation	Screen Length (ft)	Liquid Pumped	% Screen open	Static	Differential	Comments
Flare St (781)	100	100	-3.5	242	63.1	42.8	24.9	1.7								-	-	
Flare End (781)	100	100	-3.5	236	65.2	43.1	25.4	1.5								-	-	
GW-1 (800)	3%	3%		2	68.0	12.6	16.5	1.9	806.5	791.6	38	768.5	23.5	0	**98%**	-0.11	0.006	
GW-2(803)	3%	3%		1	62.0	17.9	14.6	0.8	802.3	786.8	38.9	763.4	23.5	0	**100%**	-0.08	0.014	
GW-3 (806)	5%	5%		3	70.0	15.5	9.9	0.4	797.4	781.6	38.6	758.8	23.5	0	**97%**	-0.21	0.019	
GW-4 (809)	3%	3%		1	72.0	18.1	11.0	0.3	801.3	785.3	37	764.3	21.5	0	**98%**	-0.10	0.008	
GW-5 (812)	5%	5%		4	69.0	14.8	12.5	0.6	804.7	789.4	39.4	765.3	24.5	0	**98%**	-0.30	0.023	
GW-6 (815)	5%	5%		3	70.0	13.2	10.6	0.7	811.6	797	42.2	769.4	29	0	**95%**	-0.26	0.021	
GW-7 (818)	3%	3%		2	71.0	18.7	13.6	0.5	813.5	799	38	775.5	27	0	**87%**	-0.12	0.012	
GW-8 (821)	5%	5%		5	70.0	22.2	11.1	0.5	824.9	811	45.2	779.7	33	0	**95%**	-0.31	0.023	
GW-9 (824)	50%	50%		10	68.0	41.3	17.7	1.1	860.1	838	74.5	785.6	67	0	**78%**	-1.75	0.077	
GW-10 (827)	80%	80%		16	72.0	48.8	18.9	2.8	853.7	835.6	58.9	794.8	53	0	**77%**	-2.53	0.108	
GW-11 (865)	30%	30%		9	79.0	43.6	21.8	0.4	855.8	833.1	78.7	777.09	56.5	0	**99%**	-1.18	0.070	
GW-12 (831)	20%	20%		9	80.0	44.9	24.0	0.6	897.3	881.0	60.3	837.0	50.0	0	**88%**	-0.86	0.057	
GW-13 (830)	60%	60%		13	71.0	45.1	19.6	0.5	855.2	836.5	62.4	792.8	53.0	0	**82%**	-2.31	0.096	
GW-14 (833)	100%	100%		21	77.0	58.8	23.7	1.0	833.1	816.1	49.5	783.6	41.8	271	**78%**	-3.08	0.129	
GW-15 (836)	100%	100%		17	83.0	63.3	24.7	0.4	847.7	833.4	46.8	800.9	38.0	273	**86%**	-3.12	0.113	
GW-16 (839)	100%	100%		18	66.0	62.1	22.9	0.9	851.5	835.8	49.9	801.6	36.8	135	**93%**	-2.55	0.126	
GW-17 (842)	100%	100%		20	80.0	58.0	28.8	0.7	882.2	856.0	91.5	790.7	79.0	172	**83%**	-2.93	0.098	
GW-19 (841)	25%	25%		8	86.0	56.7	23.5	0.3	905.97	889.8	63.4	842.6	50.0	0	**94%**	-1.44	0.056	
GW-20 (867)	20%	20%		6	75.0	34.8	25.1	0.4	856.32	837.1	67.7	788.6	49.5	0	**98%**	-0.78	0.048	
GW-21 (869)	20%	20%		9	71.0	25.5	19.0	1.0	810.0	795.1	26.6	783.4	13.5	0	**87%**	-0.62	0.057	
GW-22 (871)	15%	15%		6	69.0	35.6	20.6	0.5	815.62	796.0	36.7	778.9	22.5	0	**76%**	-0.41	0.035	
GW-26 (843)	10%	10%		5	68.0	41.2	20.3	0.7	881.21	865.7	60.3	820.9	50.0	0	**90%**	-0.32	0.047	
GW-27 (844)	15%	15%		6	69.0	34.7	19.8	0.3	857.02	841.2	45.9	811.1	31.0	0	**97%**	-0.49	0.028	
GW-33 (873)	5%	5%		4	96.0	26.8	15.4	3.8	815.63	797.9	41.4	774.2	24.5	0	**97%**	-0.28	0.020	

					Temp	CH4	CO2	O2	Static	Diff.	Comments
Phase VII (851)	10%	10%			74.0	20.1	15.2	0.6	-0.28	0.025	
Phase V CO (847)	20%	20%			71.0	28.5	16.3	3.2	-0.43	0.039	
Phase IV CO (845)	20%	20%			72.0	20.7	14.1	1.9	-0.47	0.036	
STOC 1 (853)	100%	100%			76.0	55.1	25.3	0.4	-2.71	0.117	
STOC 2 (855)	60%	60%			81.0	37.8	17.9	4.0	-1.34	0.064	
STOC 3 (857)	10%	10%			74.0	30.5	13	2.8	-0.44	0.023	
STOC 4 (859)	3%	3%			72.0	20.0	15.1	4.1	-0.10	0.016	
STOC 5 (861)	3%	3%			65.0	15.6	10.8	3.9	-0.19	0.018	
STOC 6 (863)	3%	3%			68.0	24.4	18.5	3.0	-0.05	0.010	
STOC 7 (875)	3%	3%			73.0	19.2	15.9	2.3	-0.13	0.011	
STOC 8 (854)	40%	40%			71.0	38.1	28.3	0.4	-0.70	0.052	
STOC 9 (856)	5%	5%			77.0	27.8	19.4	0.9	-0.18	0.009	
STOC 10	30%	30%			94.0	40.5	22.4	0.4	-0.64	0.047	
STOC 11	5%	5%			89.0	31.1	23.7	0.5	-0.22	0.013	
Phase VI-E (849)	5%	5%			72.0	25.8	16.2	4.2	-0.30	0.021	
STOC 12A	50%	50%			73.0	54.3	30.9	0.4	-1.04	0.077	
STOC 13 (879)	5%	5%			70.0	20.5	16.1	4.6	-0.26	0.016	
STOC 14 (881)	5%	5%			72.0	36.7	16.7	2.7	-0.09	0.006	
STOC 15 (883)	3%	3%			73.0	18.9	18.2	3.3	-0.11	0.009	
STOC 16	15%	15%			74.0	44.1	23.9	0.7	-0.59	0.022	

Well #	Start	End	Gallons
14	180211	180753	271
15	255652	256198	273
16	288321	288591	135
17	464655	464999	172

Cycle = .5 gallons

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Air Permit 05-MHR-210 Compliance Demonstration

Closed and Active Landfills

Monthly Gas Well Deviation Report[1] **June 2024**

Gas Wells with Oxygen > 5%

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Oxygen %	Explanation	Corrective Action	Date	Oxygen %	Date	Oxygen %	Date	Action	Y/N

Gas Wells with Temperature > 131 degrees F

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Temp deg F	Explanation	Corrective Action	Date	Temp deg F	Date	Temp deg F	Date	Action	Y/N

Gas Wells with Positive Pressure

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Press. "H_2O	Explanation	Corrective Action	Date	Press. "H_2O	Date	Press. "H_2O	Date	Action	Y/N

Notes:

1 La Crosse County is submitting this deviation report in accordance with Permit Condition II.D.1.c., but reserves the right to provide additional information and/or dispute any determination of permit violation based on the information submitted in this report. A deviation does not automatically constitute a violation, particularly where corrective measures are undertaken in accordance with the permit. Nothing in this submittal should be deemed to be an admission of any violation or a waiver of any factual or legal defenses to any assertion that any of the reported information constitutes a violation.

2 Pending action indicates that 10 and 45-day remonitoring actions and/or 120-day corrective actions will be taken to demonstrate compliance.

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Client: La Crosse County Scope ID:
Project: Gas Balance Page: 1
Prepared by: Jadd Stiwell Date: 6/27/24
Checked by: Jadd Stilwell Date: 6/27/24

GAS INSTRUMENT CALIBRATION DOCUMENTATION

Location: La Crose County Solid Waste Department, 3200 Berlin Drive La Crosse WI 54601

Personnel: Jackie Davis Comments: Factory Calibrated

Instrument: Landtech GEM 5000 Serial #:
Instrument: Landtech GEM 5000 Serial #:

Gas: Methane

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	50.0	50.0	0.0	0.0%	X	

Gas: Carbon Dioxide

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	35.0	34.9	0.1	0.3%	X	

Gas: Oxygen

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	12710	4.0	4.0	0.0	0.0%	X	
Span	Ambient Air	20.8	20.8	0.0	0.0%	X	

Gas:

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero				0.0	0.0%		
Span				0.0	0.0%		

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Gas Balance Sheet 2024

Page 1

Taken by: JES | ***Date*** 7/15/2024 | Start Barometric Pressure 29.17 | Weather: 75 Degrees F, NW 6 MPH, PT Cloudy

Time 10:00 AM

Checked by: JES /SEH | 13:15:00 PM | End Barometric Pressure 29.03 | Weather: 82 Degrees F, NW 14 MPH, Fair

Sample Location (DNR ID)	Initial Pointer Setting %	End Pointer Setting %	Vacuum " of H2O Well	Flow	Temp. F	Gas Concentration Percent Methane W	Carbon Dioxide W	Oxygen W	Top of well elevation	Top of screen elevation	Depth to Leachate (feet)	Liquid elevation	Screen Length (ft)	Liquid Pumped	% Screen open	Static	Differential	Comments
Flare St (781)	100	100	-3.7	251	63.1	42.7	24.4	1.8								-	-	
Flare End (781)	100	100	-3.6	248	65.2	43.2	25.1	1.6								-	-	
GW-1 (800)	3%	3%		2	70.0	13.5	16.0	1.8	806.5	791.6	38	768.5	23.5	0	**98%**	-0.10	0.010	
GW-2(803)	3%	3%		2	68.0	18.1	13.2	0.7	802.3	786.8	38.9	763.4	23.5	0	**100%**	-0.14	0.008	
GW-3 (806)	5%	5%		4	72.0	14.2	10.2	0.5	797.4	781.6	38.6	758.8	23.5	0	**97%**	-0.19	0.017	
GW-4 (809)	3%	3%		2	74.0	17.8	10.7	0.2	801.3	785.3	37	764.3	21.5	0	**98%**	-0.09	0.011	
GW-5 (812)	5%	5%		5	73.0	14.5	11.9	0.4	804.7	789.4	39.4	765.3	24.5	0	**98%**	-0.24	0.038	
GW-6 (815)	5%	5%		2	72.0	12.6	11.3	0.8	811.6	797	42.2	769.4	29	0	**95%**	-0.30	0.019	
GW-7 (818)	3%	3%		1	75.0	18.9	12.7	0.6	813.5	799	38	775.5	27	0	**87%**	-0.07	0.008	
GW-8 (821)	5%	5%		4	71.0	21.3	12.4	0.4	824.9	811	45.2	779.7	33	0	**95%**	-0.33	0.019	
GW-9 (824)	50%	50%		9	73.0	42.2	16.5	1.3	860.1	838	74.5	785.6	67	0	**78%**	-1.61	0.070	
GW-10 (827)	80%	80%		17	74.0	49.5	19.1	2.9	853.7	835.6	58.9	794.8	53	0	**77%**	-2.31	0.128	
GW-11 (865)	30%	30%		10	81.0	42.1	22.0	0.3	855.8	833.1	78.7	777.09	56.5	0	**99%**	-1.04	0.077	
GW-12 (831)	20%	20%		7	79.0	44.4	23.7	0.7	897.3	881.0	60.3	837.0	50.0	0	**88%**	-0.93	0.043	
GW-13 (830)	60%	60%		12	77.0	44.7	18.2	0.3	855.2	836.5	62.4	792.8	53.0	0	**82%**	-2.47	0.088	
GW-14 (833)	100%	100%		19	76.0	59.6	23.4	1.2	833.1	816.1	49.5	783.6	41.8	23	**78%**	-3.11	0.146	
GW-15 (836)	100%	100%		18	81.0	64.5	23.3	0.1	847.7	833.4	46.8	800.9	38.0	51.5	**86%**	-3.12	0.125	
GW-16 (839)	100%	100%		16	71.0	63.2	22.6	0.7	851.5	835.8	49.9	801.6	36.8	93	**93%**	-2.82	0.118	
GW-17 (842)	100%	100%		21	82.0	58.5	28.5	0.5	882.2	856.0	91.5	790.7	79.0	161	**83%**	-2.78	0.141	
GW-19 (841)	25%	25%		7	84.0	55.0	23.3	0.2	905.97	889.8	63.4	842.6	50.0	0	**94%**	-1.37	0.084	
GW-20 (867)	20%	20%		8	77.0	33.9	24.3	0.5	856.32	837.1	67.7	788.6	49.5	0	**98%**	-0.62	0.056	
GW-21 (869)	20%	20%		6	74.0	25.1	18.5	1.4	810.0	795.1	26.6	783.4	13.5	0	**87%**	-0.54	0.060	
GW-22 (871)	15%	15%		7	72.0	34.8	19.7	0.4	815.62	796.0	36.7	778.9	22.5	0	**76%**	-0.52	0.038	
GW-26 (843)	10%	10%		6	73.0	40.7	20.8	0.6	881.21	865.7	60.3	820.9	50.0	0	**90%**	-0.32	0.032	
GW-27 (844)	15%	15%		5	72.0	35.0	19.4	0.1	857.02	841.2	45.9	811.1	31.0	0	**97%**	-0.38	0.024	
GW-33 (873)	5%	5%		3	97.0	24.3	15.1	3.3	815.63	797.9	41.4	774.2	24.5	0	**97%**	-0.22	0.018	

					Temp	CH4	CO2	O2	Static	Diff.	Comments
Phase VII (851)	10%	10%			77.0	21.0	14.6	0.4	-0.31	0.031	
Phase V CO (847)	20%	20%			73.0	28.0	16.5	3.1	-0.48	0.028	
Phase IV CO (845)	20%	20%			75.0	21.2	13.9	1.5	-0.42	0.045	
STOC 1 (853)	100%	100%			76.0	54.8	24.8	0.2	-2.60	0.097	
STOC 2 (855)	60%	60%			83.0	36.7	17.7	3.6	-1.52	0.037	
STOC 3 (857)	10%	10%			77.0	31.6	12.5	2.7	-0.37	0.009	
STOC 4 (859)	3%	3%			76.0	20.8	15.3	4.4	-0.08	0.006	
STOC 5 (861)	3%	3%			70.0	14.9	11.0	2.8	-0.13	0.017	
STOC 6 (863)	3%	3%			72.0	25.2	19.1	3.3	-0.02	0.018	
STOC 7 (875)	3%	3%			75.0	20.6	14.3	2.6	-0.10	0.005	
STOC 8 (854)	40%	40%			73.0	37.3	28.5	0.3	-0.57	0.062	
STOC 9 (856)	5%	5%			79.0	28.0	19.6	0.6	-0.21	0.024	
STOC 10	30%	30%			96.0	39.4	22.1	0.2	-0.48	0.051	
STOC 11	5%	5%			91.0	30.1	24.0	0.4	-0.17	0.027	
Phase VI-E (849)	5%	5%			78.0	23.6	15.7	3.9	-0.22	0.007	
STOC 12A	50%	50%			79.0	51.6	30.1	0.3	-1.27	0.038	
STOC 13 (879)	5%	5%			72.0	21.4	15.1	4.8	-0.19	0.019	
STOC 14 (881)	5%	5%			74.0	35.7	16.6	3.1	-0.22	0.011	
STOC 15 (883)	3%	3%			77.0	19.4	18.6	3.8	-0.08	0.006	
STOC 16	15%	15%			75.0	42.6	22.7	0.6	-0.44	0.027	

Well #	Start	End	Gallons
14	180753	180799	23
15	256198	256301	51.5
16	288591	288777	93
17	464999	465321	161

Cycle = .5 gallons

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Air Permit 05-MHR-210 Compliance Demonstration

Closed and Active Landfills

Monthly Gas Well Deviation Report[1] **July 2024**

Gas Wells with Oxygen > 5%

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Oxygen %	Explanation	Corrective Action	Date	Oxygen %	Date	Oxygen %	Date	Action	Y/N

Gas Wells with Temperature > 131 degrees F

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Temp deg F	Explanation	Corrective Action	Date	Temp deg F	Date	Temp deg F	Date	Action	Y/N

Gas Wells with Positive Pressure

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Press. "H_2O	Explanation	Corrective Action	Date	Press. "H_2O	Date	Press. "H_2O	Date	Action	Y/N

Notes:

1 La Crosse County is submitting this deviation report in accordance with Permit Condition II.D.1.c., but reserves the right to provide additional information and/or dispute any determination of permit violation based on the information submitted in this report. A deviation does not automatically constitute a violation, particularly where corrective measures are undertaken in accordance with the permit. Nothing in this submittal should be deemed to be an admission of any violation or a waiver of any factual or legal defenses to any assertion that any of the reported information constitutes a violation.

2 Pending action indicates that 10 and 45-day remonitoring actions and/or 120-day corrective actions will be taken to demonstrate compliance.

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Client: La Crosse County Scope ID:
Project: Gas Balance Page: 1
Prepared by: Jadd Stiwell Date: 7/15/24
Checked by: Jadd Stilwell Date: 7/15/24

GAS INSTRUMENT CALIBRATION DOCUMENTATION

Location: La Crose County Solid Waste Department, 3200 Berlin Drive La Crosse WI 54601

Personnel: Jackie Davis Comments: Factory Calibrated

Instrument: Landtech GEM 5000 Serial #:
Instrument: Landtech GEM 5000 Serial #:

Gas: Methane

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	50.0	50.0	0.0	0.0%	X	

Gas: Carbon Dioxide

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	35.0	35.0	0.0	0.0%	X	

Gas: Oxygen

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	12710	4.0	4.0	0.0	0.0%	X	
Span	Ambient Air	20.8	20.7	0.1	0.6%	X	

Gas:

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero				0.0	0.0%		
Span				0.0	0.0%		

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Gas Balance Sheet 2024

Page 1

Taken by: JES | ***Date*** 8/12/2024 | Start Barometric Pressure 29.43 | Weather: 66 Degrees F, S 6 MPH, Fair

Time 8:00 AM

Checked by: JES /SEH | 12:10 PM | End Barometric Pressure 29.39 | Weather: 80 Degrees F, W 8 MPH, Fair

Sample Location (DNR ID)	Initial Pointer Setting %	End Pointer Setting %	Vacuum " of H2O Well	Flow	Temp. F	Gas Concentration Percent Methane W	Carbon Dioxide W	Oxygen W	Top of well elevation	Top of screen elevation	Depth to Leachate (feet)	Liquid elevation	Screen Length (ft)	Liquid Pumped	% Screen open	Static	Differential	Comments
Flare St (781)	100	100	-3.5	247	65.4	43.2	25.0	1.7								-	-	
Flare End (781)	100	100	-3.4	251	65.2	43.7	25.4	1.5								-	-	
GW-1 (800)	3%	3%		2	71.0	18.6	15.8	1.2	806.5	791.6	38	768.5	23.5	0	**98%**	-0.13	0.008	
GW-2(803)	3%	3%		3	69.0	17.2	12.3	0.9	802.3	786.8	38.9	763.4	23.5	0	**100%**	-0.11	0.011	
GW-3 (806)	5%	5%		4	70.0	15.5	12.2	0.3	797.4	781.6	38.6	758.8	23.5	0	**97%**	-0.20	0.014	
GW-4 (809)	3%	3%		3	73.0	19.3	13.0	0.7	801.3	785.3	37	764.3	21.5	0	**98%**	-0.13	0.008	
GW-5 (812)	5%	5%		4	71.0	12.7	10.6	0.2	804.7	789.4	39.4	765.3	24.5	0	**98%**	-0.29	0.024	
GW-6 (815)	5%	5%		2	72.0	14.7	12.0	0.3	811.6	797	42.2	769.4	29	0	**95%**	-0.24	0.029	
GW-7 (818)	3%	3%		2	73.0	17.5	13.4	0.8	813.5	799	38	775.5	27	0	**87%**	-0.07	0.008	
GW-8 (821)	5%	5%		5	70.0	22.0	11.2	0.3	824.9	811	45.2	779.7	33	0	**95%**	-0.26	0.014	
GW-9 (824)	50%	50%		11	71.0	43.2	15.7	0.1	860.1	838	74.5	785.6	67	0	**78%**	-1.79	0.067	
GW-10 (827)	80%	80%		19	69.0	48.7	18.5	2.2	853.7	835.6	58.9	794.8	53	0	**77%**	-2.08	0.112	
GW-11 (865)	30%	30%		12	82.0	41.1	23.6	0.7	855.8	833.1	78.7	777.09	56.5	0	**99%**	-0.84	0.056	
GW-12 (831)	20%	20%		8	75.0	42.9	22.1	1.1	897.3	881.0	60.3	837.0	50.0	0	**88%**	-1.08	0.055	
GW-13 (830)	60%	60%		11	73.0	48.6	19.6	0.9	855.2	836.5	62.4	792.8	53.0	0	**82%**	-2.72	0.079	
GW-14 (833)	100%	100%		21	72.0	60.2	23.0	0.8	833.1	816.1	49.5	783.6	41.8	310.5	**78%**	-2.89	0.151	
GW-15 (836)	100%	100%		20	77.0	66.7	23.3	0.2	847.7	833.4	46.8	800.9	38.0	373	**86%**	-3.30	0.135	
GW-16 (839)	100%	100%		17	69.0	65.5	22.0	0.0	851.5	835.8	49.9	801.6	36.8	272	**93%**	-2.82	0.102	
GW-17 (842)	100%	100%		22	81.0	57.2	28.9	0.5	882.2	856.0	91.5	790.7	79.0	310	**83%**	-2.66	0.123	
GW-19 (841)	25%	25%		8	73.0	54.3	24.8	0.7	905.97	889.8	63.4	842.6	50.0	0	**94%**	-1.04	0.067	
GW-20 (867)	20%	20%		7	72.0	33.5	4.0	0.6	856.32	837.1	67.7	788.6	49.5	0	**98%**	-0.57	0.062	
GW-21 (869)	20%	20%		6	69.0	24.8	18.6	1.9	810.0	795.1	26.6	783.4	13.5	0	**87%**	-0.36	0.051	
GW-22 (871)	15%	15%		5	73.0	38.8	18.3	0.8	815.62	796.0	36.7	778.9	22.5	0	**76%**	-0.49	0.042	
GW-26 (843)	10%	10%		7	70.0	42.3	21.0	0.3	881.21	865.7	60.3	820.9	50.0	0	**90%**	-0.41	0.030	
GW-27 (844)	15%	15%		6	70.0	32.9	18.5	0.2	857.02	841.2	45.9	811.1	31.0	0	**97%**	-0.28	0.036	
GW-33 (873)	5%	5%		2	92.0	24.1	16.3	3.7	815.63	797.9	41.4	774.2	24.5	0	**97%**	-0.30	0.013	

					Temp	CH4	CO2	O2	Static	Diff.	Comments
Phase VII (851)	10%	10%			72.0	21.6	13.5	0.5	-0.22	0.027	
Phase V CO (847)	20%	20%			70.0	27.7	12.6	2.2	-0.31	0.018	
Phase IV CO (845)	20%	20%			69.0	20.8	14.8	1.6	-0.43	0.034	
STOC 1 (853)	100%	100%			73.0	52.9	22.9	0.3	-2.37	0.123	
STOC 2 (855)	60%	60%			78.0	35.8	16.4	3.7	-1.85	0.097	
STOC 3 (857)	10%	10%			71.0	30.7	13.2	1.9	-0.42	0.011	
STOC 4 (859)	3%	3%			76.0	21.4	14.0	4.5	-0.24	0.008	
STOC 5 (861)	3%	3%			71.0	13.6	12.6	2.1	-0.10	0.005	
STOC 6 (863)	3%	3%			73.0	24.5	18.7	3.6	-0.02	0.007	
STOC 7 (875)	3%	3%			72.0	21.3	12.6	2.1	-0.09	0.011	
STOC 8 (854)	40%	40%			73.0	38.5	27.2	0.2	-0.48	0.054	
STOC 9 (856)	5%	5%			70.0	29.2	18.1	0.2	-0.24	0.022	
STOC 10	30%	30%			92.0	38.4	21.1	0.6	-0.37	0.049	
STOC 11	5%	5%			89.0	33.0	23.7	0.3	-0.13	0.014	
Phase VI-E (849)	5%	5%			73.0	20.6	16.1	4.1	-0.17	0.012	
STOC 12A	50%	50%			74.0	53.5	29.0	0.8	-1.08	0.046	
STOC 13 (879)	5%	5%			70.0	23.8	17.5	4.1	-0.26	0.021	
STOC 14 (881)	5%	5%			75.0	36.7	16.4	3.0	-0.14	0.010	
STOC 15 (883)	3%	3%			77.0	20.9	17.2	4.2	-0.07	0.015	
STOC 16	15%	15%			70.0	44.5	23.4	0.5	-0.23	0.037	

Well #	Start	End	Gallons
14	180799	181420	310.5
15	256301	257047	373
16	288777	289321	272
17	465321	465941	310

Cycle = .5 gallons

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Air Permit 05-MHR-210 Compliance Demonstration

Closed and Active Landfills

Monthly Gas Well Deviation Report[1] **August 2024**

Gas Wells with Oxygen > 5%

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Oxygen %	Explanation	Corrective Action	Date	Oxygen %	Date	Oxygen %	Date	Action	Y/N

Gas Wells with Temperature > 131 degrees F

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Temp deg F	Explanation	Corrective Action	Date	Temp deg F	Date	Temp deg F	Date	Action	Y/N

Gas Wells with Positive Pressure

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Press. "H_2O	Explanation	Corrective Action	Date	Press. "H_2O	Date	Press. "H_2O	Date	Action	Y/N

Notes:

1 La Crosse County is submitting this deviation report in accordance with Permit Condition II.D.1.c., but reserves the right to provide additional information and/or dispute any determination of permit violation based on the information submitted in this report. A deviation does not automatically constitute a violation, particularly where corrective measures are undertaken in accordance with the permit. Nothing in this submittal should be deemed to be an admission of any violation or a waiver of any factual or legal defenses to any assertion that any of the reported information constitutes a violation.

2 Pending action indicates that 10 and 45-day remonitoring actions and/or 120-day corrective actions will be taken to demonstrate compliance.

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Client: La Crosse County Scope ID:
Project: Gas Balance Page: 1
Prepared by: Jadd Stiwell Date: 8/12/24
Checked by: Jadd Stilwell Date: 8/12/24

GAS INSTRUMENT CALIBRATION DOCUMENTATION

Location: La Crose County Solid Waste Department, 3200 Berlin Drive La Crosse WI 54601

Personnel: Jackie Davis Comments: Factory Calibrated

Instrument: Landtech GEM 5000 Serial #:
Instrument: Landtech GEM 5000 Serial #:

Gas: Methane

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	50.0	50.0	0.0	0.0%	X	

Gas: Carbon Dioxide

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	35.0	35.0	0.0	0.0%	X	

Gas: Oxygen

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	12710	4.0	4.0	0.0	0.0%	X	
Span	Ambient Air	20.8	20.8	0.0	0.0%	X	

Gas:

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero				0.0	0.0%		
Span				0.0	0.0%		

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Gas Balance Sheet 2024

Page 1

Taken by: JES | ***Date*** 9/13/2024 | Start Barometric Pressure 29.40 | Weather: 69 Degree F, S 6 MPH, Fair

Time 10:00 AM

Checked by: JES /SEH | 14:10:00 PM | End Barometric Pressure 29.36 | Weather: 800 Degrees F, S 8 MPH Fair

Sample Location (DNR ID)	Initial Pointer Setting %	End Pointer Setting %	Vacuum " of H2O Well	Flow	Temp. F	Gas Concentration Percent Methane W	Carbon Dioxide W	Oxygen W	Top of well elevation	Top of screen elevation	Depth to Leachate (feet)	Liquid elevation	Screen Length (ft)	Liquid Pumped	% Screen open	Static	Differential	Comments
Flare St (781)	100	100	-3.3	242	64.2	42.9	24.5	1.9								-	-	
Flare End (781)	100	100	-3.6	251	64.3	44.3	25.7	1.7								-	-	
GW-1 (800)	3%	3%		1	69.0	19.2	12.6	1.1	806.5	791.6	38	768.5	23.5	0	**98%**	-0.08	0.005	
GW-2(803)	3%	3%		2	67.0	17.6	11.5	1.3	802.3	786.8	38.9	763.4	23.5	0	**100%**	-0.16	0.009	
GW-3 (806)	5%	5%		3	71.0	13.6	108.0	0.2	797.4	781.6	38.6	758.8	23.5	0	**97%**	-0.19	0.014	
GW-4 (809)	3%	3%		2	68.0	14.7	12.6	0.6	801.3	785.3	37	764.3	21.5	0	**98%**	-0.07	0.010	
GW-5 (812)	5%	5%		4	66.0	10.8	9.3	0.3	804.7	789.4	39.4	765.3	24.5	0	**98%**	-0.22	0.029	
GW-6 (815)	5%	5%		3	68.0	13.0	13.3	0.5	811.6	797	42.2	769.4	29	0	**95%**	-0.19	0.035	
GW-7 (818)	3%	3%		2	64.0	15.1	12.9	0.6	813.5	799	38	775.5	27	0	**87%**	-0.11	0.011	
GW-8 (821)	5%	5%		6	71.0	23.4	108.0	0.7	824.9	811	45.2	779.7	33	0	**95%**	-0.37	0.015	
GW-9 (824)	50%	50%		12	69.0	42.8	16.2	0.8	860.1	838	74.5	785.6	67	0	**78%**	-1.94	0.066	
GW-10 (827)	80%	80%		18	64.0	47.5	17.9	2.6	853.7	835.6	58.9	794.8	53	0	**77%**	-2.18	0.108	
GW-11 (865)	30%	30%		9	78.0	42.3	23.1	1.1	855.8	833.1	78.7	777.09	56.5	0	**99%**	-1.06	0.052	
GW-12 (831)	20%	20%		7	70.0	41.7	21.8	0.8	897.3	881.0	60.3	837.0	50.0	0	**88%**	-0.73	0.041	
GW-13 (830)	60%	60%		15	71.0	50.8	17.5	0.6	855.2	836.5	62.4	792.8	53.0	0	**82%**	-1.65	0.088	
GW-14 (833)	100%	100%		23	68.0	63.3	22.6	1.1	833.1	816.1	49.5	783.6	41.8	157	**78%**	-2.98	0.179	
GW-15 (836)	100%	100%		19	65.0	69.5	21.7	0.3	847.7	833.4	46.8	800.9	38.0	254	**86%**	-2.84	0.118	
GW-16 (839)	100%	100%		21	66.0	67.9	23.1	0.2	851.5	835.8	49.9	801.6	36.8	315	**93%**	-3.06	0.124	
GW-17 (842)	100%	100%		19	79.0	58.2	27.7	0.6	882.2	856.0	91.5	790.7	79.0	30	**83%**	-2.61	0.113	
GW-19 (841)	25%	25%		10	70.0	56.1	24.5	0.4	905.97	889.8	63.4	842.6	50.0	0	**94%**	-1.35	0.068	
GW-20 (867)	20%	20%		8	66.0	32.3	18.9	0.8	856.32	837.1	67.7	788.6	49.5	0	**98%**	-0.74	0.063	
GW-21 (869)	20%	20%		5	70.0	25.1	17.2	1.8	810.0	795.1	26.6	783.4	13.5	0	**87%**	-0.56	0.045	
GW-22 (871)	15%	15%		7	69.0	39.5	15.8	0.4	815.62	796.0	36.7	778.9	22.5	0	**76%**	-0.44	0.048	
GW-26 (843)	10%	10%		4	70.0	44.1	22.2	0.6	881.21	865.7	60.3	820.9	50.0	0	**90%**	-0.37	0.018	
GW-27 (844)	15%	15%		7	64.0	33.6	16.9	0.5	857.02	841.2	45.9	811.1	31.0	0	**97%**	-0.44	0.027	
GW-33 (873)	5%	5%		3	89.0	25.8	16.6	3.3	815.63	797.9	41.4	774.2	24.5	0	**97%**	-0.26	0.011	

					Temp	CH4	CO2	O2	Static	Diff.	Comments
Phase VII (851)	10%	10%			69.0	206.0	12.8	0.4	-0.33	0.023	
Phase V CO (847)	20%	20%			74.0	28.0	15.6	2.5	-0.43	0.033	
Phase IV CO (845)	20%	20%			71.0	22.5	13.2	0.9	-0.48	0.052	
STOC 1 (853)	100%	100%			68.0	56.8	21.1	0.6	-2.61	0.151	
STOC 2 (855)	60%	60%			71.0	40.6	14.5	4.2	-1.97	0.101	
STOC 3 (857)	10%	10%			69.0	42.9	12.7	1.4	-0.41	0.023	
STOC 4 (859)	3%	3%			72.0	19.8	14.2	4.4	-0.11	0.015	
STOC 5 (861)	3%	3%			67.0	12.5	11.8	1.8	-0.16	0.008	
STOC 6 (863)	3%	3%			72.0	23.7	17.3	2.7	-0.02	0.013	
STOC 7 (875)	3%	3%			70.0	22.1	13.2	1.8	-0.15	0.010	
STOC 8 (854)	40%	40%			70.0	40.3	26.9	0.3	-0.52	0.067	
STOC 9 (856)	5%	5%			71.0	27.7	17.9	0.1	-0.18	0.036	
STOC 10	30%	30%			89.0	36.8	22.0	4.0	-0.44	0.046	
STOC 11	5%	5%			90.0	32.6	23.1	0.2	-0.17	0.021	
Phase VI-E (849)	5%	5%			69.0	19.4	14.9	3.2	-0.13	0.019	
STOC 12A	50%	50%			68.0	56.7	30.2	0.5	-1.35	0.038	
STOC 13 (879)	5%	5%			72.0	22.7	16.7	4.6	-0.22	0.016	
STOC 14 (881)	5%	5%			71.0	35.4	16.1	3.5	-0.19	0.013	
STOC 15 (883)	3%	3%			70.0	22.1	15.3	3.9	-0.09	0.008	
STOC 16	15%	15%			71.0	45.6	24.1	0.6	-0.36	0.026	

Well #	Start	End	Gallons
14	181420	181734	157
15	257047	257555	254
16	289321	289951	315
17	465941	466001	30

Cycle = .5 gallons

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Air Permit 05-MHR-210 Compliance Demonstration

Closed and Active Landfills

Monthly Gas Well Deviation Report[1] **September 2024**

Gas Wells with Oxygen > 5%

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Oxygen %	Explanation	Corrective Action	Date	Oxygen %	Date	Oxygen %	Date	Action	Y/N

Gas Wells with Temperature > 131 degrees F

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Temp deg F	Explanation	Corrective Action	Date	Temp deg F	Date	Temp deg F	Date	Action	Y/N

Gas Wells with Positive Pressure

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Press. "H_2O	Explanation	Corrective Action	Date	Press. "H_2O	Date	Press. "H_2O	Date	Action	Y/N

Notes:

1 La Crosse County is submitting this deviation report in accordance with Permit Condition II.D.1.c., but reserves the right to provide additional information and/or dispute any determination of permit violation based on the information submitted in this report. A deviation does not automatically constitute a violation, particularly where corrective measures are undertaken in accordance with the permit. Nothing in this submittal should be deemed to be an admission of any violation or a waiver of any factual or legal defenses to any assertion that any of the reported information constitutes a violation.

2 Pending action indicates that 10 and 45-day remonitoring actions and/or 120-day corrective actions will be taken to demonstrate compliance.

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Client: La Crosse County Scope ID:
Project: Gas Balance Page: 1
Prepared by: Jadd Stiwell Date: 9/13/24
Checked by: Jadd Stilwell Date: 9/13/24

GAS INSTRUMENT CALIBRATION DOCUMENTATION

Location: La Crose County Solid Waste Department, 3200 Berlin Drive La Crosse WI 54601

Personnel: Jackie Davis Comments: Factory Calibrated

Instrument: Landtech GEM 5000 Serial #:
Instrument: Landtech GEM 5000 Serial #:

Gas: Methane

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	50.0	50.0	0.0	0.0%	X	

Gas: Carbon Dioxide

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	35.0	35.0	0.0	0.0%	X	

Gas: Oxygen

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	12710	4.0	4.0	0.0	0.0%	X	
Span	Ambient Air	20.8	20.8	0.0	0.0%	X	

Gas:

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero				0.0	0.0%		
Span				0.0	0.0%		

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Gas Balance Sheet 2024

Page 1

Taken by: JES | ***Date*** 10/16/2024 | Start Barometric Pressure 29.71 | Weather: 50 Degrees F, S 5 MPH, Fair

Time 10:30 AM

Checked by: JES /SEH | 1:30 PM | End Barometric Pressure 29.61 | Weather:58 Degrees F, S 10 MPH, Fair

Sample Location (DNR ID)	Initial Pointer Setting %	End Pointer Setting %	Vacuum " of H2O Well	Flow	Temp. F	Gas Concentration Percent Methane W	Carbon Dioxide W	Oxygen W	Top of well elevation	Top of screen elevation	Depth to Leachate (feet)	Liquid elevation	Screen Length (ft)	Liquid Pumped	% Screen open	Static	Differential	Comments
Flare St (781)	100	100	-3.6	258	60.3	40.6	24.3	1.7								-	-	
Flare End (781)	100	100	-3.7	251	59.8	41.4	24.8	1.3								-	-	
GW-1 (800)	3%	3%		2	66.0	14.3	7.7	1.8	806.5	791.6	38	768.5	23.5	0	**98%**	-0.11	0.013	
GW-2(803)	3%	3%		2	58.0	21.7	7.9	2.0	802.3	786.8	38.9	763.4	23.5	0	**100%**	-0.13	0.009	
GW-3 (806)	5%	5%		2	55.0	21.4	10.3	0.7	797.4	781.6	38.6	758.8	23.5	0	**97%**	-0.09	0.007	
GW-4 (809)	3%	3%		3	59.0	19.2	13.7	0.5	801.3	785.3	37	764.3	21.5	0	**98%**	-0.13	0.012	
GW-5 (812)	5%	5%		2	69.0	15.9	11.6	0.4	804.7	789.4	39.4	765.3	24.5	0	**98%**	-0.16	0.005	
GW-6 (815)	5%	5%		3	66.0	13.7	13.3	2.8	811.6	797	42.2	769.4	29	0	**95%**	-0.27	0.011	
GW-7 (818)	3%	3%		1	58.0	9.7	12.4	2.4	813.5	799	38	775.5	27	0	**87%**	-0.21	0.006	
GW-8 (821)	5%	5%		4	69.0	24.9	14.5	3.2	824.9	811	45.2	779.7	33	0	**95%**	-0.32	0.014	
GW-9 (824)	50%	50%		12	68.0	48.6	14.9	0.6	860.1	838	74.5	785.6	67	0	**78%**	-1.94	0.065	
GW-10 (827)	80%	80%		16	56.0	25.3	20.6	0.7	853.7	835.6	58.9	794.8	53	0	**77%**	-2.87	0.088	
GW-11 (865)	30%	30%		9	67.0	38.8	20.2	0.4	855.8	833.1	78.7	777.09	56.5	0	**99%**	-1.59	0.073	
GW-12 (831)	20%	20%		10	66.0	25.4	17.6	0.6	897.3	881.0	60.3	837.0	50.0	0	**88%**	-0.75	0.054	
GW-13 (830)	60%	60%		17	67.0	59.6	18.5	0.8	855.2	836.5	62.4	792.8	53.0	0	**82%**	-2.34	0.099	
GW-14 (833)	100%	100%		21	72.0	70.1	25.4	0.3	833.1	816.1	49.5	783.6	41.8	136.5	**78%**	-3.11	0.119	
GW-15 (836)	100%	100%		20	74.0	63.0	24.6	0.5	847.7	833.4	46.8	800.9	38.0	489.5	**86%**	-2.85	0.092	
GW-16 (839)	100%	100%		16	59.0	64.2	24.1	0.8	851.5	835.8	49.9	801.6	36.8	402.5	**93%**	-2.62	0.103	
GW-17 (842)	100%	100%		23	57.0	68.9	32.5	0.1	882.2	856.0	91.5	790.7	79.0	10.5	**83%**	-2.84	0.081	
GW-19 (841)	25%	25%		8	67.0	25.4	13.6	1.1	905.97	889.8	63.4	842.6	50.0	0	**94%**	-1.47	0.066	
GW-20 (867)	20%	20%		9	70.0	34.1	23.7	0.5	856.32	837.1	67.7	788.6	49.5	0	**98%**	-0.62	0.046	
GW-21 (869)	20%	20%		6	63.0	22.7	19.1	1.6	810.0	795.1	26.6	783.4	13.5	0	**87%**	-0.57	0.039	
GW-22 (871)	15%	15%		8	89.0	24.5	18.6	4.2	815.62	796.0	36.7	778.9	22.5	0	**76%**	-0.42	0.025	
GW-26 (843)	10%	10%		5	69.0	32.1	166.0	1.1	881.21	865.7	60.3	820.9	50.0	0	**90%**	-0.33	0.041	
GW-27 (844)	15%	15%		8	64.0	26.5	22.7	0.4	857.02	841.2	45.9	811.1	31.0	0	**97%**	-0.44	0.019	
GW-33 (873)	5%	5%		7	90.0	24.3	17.6	4.1	815.63	797.9	41.4	774.2	24.5	0	**97%**	-0.29	0.013	

					Temp	CH4	CO2	O2	Static	Diff.	Comments
Phase VII (851)	10%	10%			60.0	43.8	26.2	0.6	-0.31	0.026	
Phase V CO (847)	20%	20%			59.0	27.5	16.7	3.5	-0.42	0.037	
Phase IV CO (845)	20%	20%			63.0	18.8	15.7	1.2	-0.44	0.040	
STOC 1 (853)	100%	100%			64.0	63.0	30.3	0.5	-3.22	0.123	
STOC 2 (855)	40%	40%			64.0	43.1	21.4	4.1	-1.62	0.066	
STOC 3 (857)	10%	10%			66.0	42.5	21.5	3.5	-0.36	0.046	
STOC 4 (859)	3%	3%			62.0	14.4	6.8	0.2	-0.11	0.022	
STOC 5 (861)	3%	3%			63.0	14.2	10.7	4.1	-0.21	0.019	
STOC 6 (863)	3%	3%			68.0	12.9	10.9	3.9	-0.18	0.017	
STOC 7 (875)	3%	3%			68.0	22.6	13.8	1.8	-0.16	0.012	
STOC 8 (854)	65%	65%			65.0	48.0	34.3	0.2	-1.53	0.077	
STOC 9 (856)	30%	30%			59.0	49.3	32.2	0.6	-0.66	0.038	
STOC 10	40%	40%			89.0	52.9	36.8	0.4	-0.84	0.062	
STOC 11	35%	35%			79.0	52.8	28.5	0.9	-0.72	0.045	
Phase VI-E (849)	5%	5%			77.0	26.7	14.7	3.5	-0.41	0.027	
STOC 12A	50%	50%			76.0	53.6	26.2	1.6	-1.56	0.091	
STOC 13 (879)	5%	5%			70.0	22.2	15.0	3.8	-0.24	0.019	
STOC 14 (881)	5%	5%			70.0	30.9	17.0	2.2	-0.19	0.021	
STOC 15 (883)	3%	3%			72.0	15.8	18.2	3.1	-0.14	0.014	
STOC 16	15%	15%			74.0	42.4	23.6	0.7	-0.51	0.032	

Well #	Start	End	Gallons
14	181734	182007	136.5
15	257555	258534	489.5
16	289951	290756	402.5
17	466001	466022	10.5

Cycle = .5 gallons

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Air Permit 05-MHR-210 Compliance Demonstration

Closed and Active Landfills

Monthly Gas Well Deviation Report[1] **October 2024**

Gas Wells with Oxygen > 5%

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Oxygen %	Explanation	Corrective Action	Date	Oxygen %	Date	Oxygen %	Date	Action	Y/N

Gas Wells with Temperature > 131 degrees F

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Temp deg F	Explanation	Corrective Action	Date	Temp deg F	Date	Temp deg F	Date	Action	Y/N

Gas Wells with Positive Pressure

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Press. "H_2O	Explanation	Corrective Action	Date	Press. "H_2O	Date	Press. "H_2O	Date	Action	Y/N

Notes:

1 La Crosse County is submitting this deviation report in accordance with Permit Condition II.D.1.c., but reserves the right to provide additional information and/or dispute any determination of permit violation based on the information submitted in this report. A deviation does not automatically constitute a violation, particularly where corrective measures are undertaken in accordance with the permit. Nothing in this submittal should be deemed to be an admission of any violation or a waiver of any factual or legal defenses to any assertion that any of the reported information constitutes a violation.

2 Pending action indicates that 10 and 45-day remonitoring actions and/or 120-day corrective actions will be taken to demonstrate compliance.

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Client: La Crosse County Scope ID:
Project: Gas Balance Page: 1
Prepared by: Jadd Stiwell Date: 10/16/24
Checked by: Jadd Stilwell Date: 10/16/24

GAS INSTRUMENT CALIBRATION DOCUMENTATION

Location: La Crose County Solid Waste Department, 3200 Berlin Drive La Crosse WI 54601

Personnel: Jackie Davis Comments: Factory Calibrated

Instrument: Landtech GEM 5000 Serial #:
Instrument: Landtech GEM 5000 Serial #:

Gas: Methane

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	50.0	50.0	0.0	0.0%	X	

Gas: Carbon Dioxide

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	35.0	35.0	0.0	0.0%	X	

Gas: Oxygen

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	12710	4.0	4.0	0.0	0.0%	X	
Span	Ambient Air	20.8	20.8	0.0	0.0%	X	

Gas:

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero				0.0	0.0%		
Span				0.0	0.0%		

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Gas Balance Sheet 2024

Page 1

Taken by: JES | ***Date*** 11/8/2024 | Start Barometric Pressure 29.57 | Weather: 50 Degrees F, N 6 MPH, Fair

Time 10:00 AM

Checked by: JES /SEH | 2:20 PM | End Barometric Pressure 29.54 | Weather: 57 Degrees F, NW 6 MPH, Fair

Sample Location (DNR ID)	Initial Pointer Setting %	End Pointer Setting %	Vacuum " of H2O Well	Flow	Temp. F	Gas Concentration Percent Methane W	Carbon Dioxide W	Oxygen W	Top of well elevation	Top of screen elevation	Depth to Leachate (feet)	Liquid elevation	Screen Length (ft)	Liquid Pumped	% Screen open	Static	Differential	Comments
Flare St (781)	100	100	-3.1	246	58.2	41.4	25.6	1.3								-	-	
Flare End (781)	100	100	-3.2	243	56.3	41.9	26.2	1.2								-	-	
GW-1 (800)	3%	3%		2	63.0	13.6	5.8	2.1	806.5	791.6	38	768.5	23.5	0	**98%**	-0.09	0.005	
GW-2(803)	3%	3%		2	52.0	21.7	7.7	1.6	802.3	786.8	38.9	763.4	23.5	0	**100%**	-0.08	0.010	
GW-3 (806)	5%	5%		3	52.0	20.8	8.6	0.2	797.4	781.6	38.6	758.8	23.5	0	**97%**	-0.22	0.011	
GW-4 (809)	3%	3%		1	51.0	21.1	10.1	0.4	801.3	785.3	37	764.3	21.5	0	**98%**	-0.13	0.017	
GW-5 (812)	5%	5%		3	69.0	14.7	12.9	0.2	804.7	789.4	39.4	765.3	24.5	0	**98%**	-0.28	0.008	
GW-6 (815)	5%	5%		3	54.0	10.3	13.1	2.4	811.6	797	42.2	769.4	29	0	**95%**	-0.34	0.016	
GW-7 (818)	3%	3%		2	53.0	7.8	12.3	2.1	813.5	799	38	775.5	27	0	**87%**	-0.16	0.010	
GW-8 (821)	5%	5%		4	67.0	23.6	13.2	3.7	824.9	811	45.2	779.7	33	0	**95%**	-0.29	0.019	
GW-9 (824)	50%	50%		11	66.0	50.4	15.4	0.6	860.1	838	74.5	785.6	67	0	**78%**	-1.63	0.073	
GW-10 (827)	80%	80%		15	52.0	28.8	24.5	0.3	853.7	835.6	58.9	794.8	53	0	**77%**	-2.69	0.091	
GW-11 (865)	30%	30%		10	70.0	39.5	21.8	0.4	855.8	833.1	78.7	777.09	56.5	0	**99%**	-1.45	0.079	
GW-12 (831)	20%	20%		8	69.0	26.7	19.8	0.1	897.3	881.0	60.3	837.0	50.0	0	**88%**	-0.95	0.065	
GW-13 (830)	85%	60%		16	65.0	60.3	19.3	0.6	855.2	836.5	62.4	792.8	53.0	0	**82%**	-2.54	0.101	
GW-14 (833)	100%	100%		20	77.0	66.8	26.7	0.2	833.1	816.1	49.5	783.6	41.8	249	**78%**	-3.11	0.137	
GW-15 (836)	100%	100%		18	78.0	62.5	25.4	0.8	847.7	833.4	46.8	800.9	38.0	760	**86%**	-2.96	0.104	
GW-16 (839)	100%	100%		17	52.0	65.2	25.9	1.4	851.5	835.8	49.9	801.6	36.8	123.5	**93%**	-2.44	0.118	
GW-17 (842)	100%	100%		21	54.0	66.4	32.0	0.2	882.2	856.0	91.5	790.7	79.0	288	**83%**	-2.70	0.089	
GW-19 (841)	25%	25%		9	77.0	24.2	13.9	0.6	905.97	889.8	63.4	842.6	50.0	0	**94%**	-1.29	0.077	
GW-20 (867)	20%	20%		11	73.0	34.7	25.7	0.3	856.32	837.1	67.7	788.6	49.5	0	**98%**	-0.56	0.052	
GW-21 (869)	20%	20%		7	69.0	23.6	18.0	1.1	810.0	795.1	26.6	783.4	13.5	0	**87%**	-0.59	0.045	
GW-22 (871)	15%	15%		7	93.0	21.7	17.5	3.9	815.62	796.0	36.7	778.9	22.5	0	**76%**	-0.49	0.031	
GW-26 (843)	10%	10%		6	72.0	35.1	18.4	1.2	881.21	865.7	60.3	820.9	50.0	0	**90%**	-0.36	0.051	
GW-27 (844)	15%	15%		5	66.0	27.7	23.1	0.6	857.02	841.2	45.9	811.1	31.0	0	**97%**	-0.39	0.023	
GW-33 (873)	5%	5%		5	92.0	25.9	16.2	2.9	815.63	797.9	41.4	774.2	24.5	0	**97%**	-0.41	0.018	

					Temp	CH4	CO2	O2	Static	Diff.	Comments
Phase VII (851)	10%	10%			56.0	42.8	29.9	0.2	-0.25	0.018	
Phase V CO (847)	20%	20%			54.0	29.3	17.4	3.0	-0.48	0.033	
Phase IV CO (845)	20%	20%			51.0	19.7	16.2	1.6	-0.40	0.045	
STOC 1 (853)	100%	100%			59.0	62.8	32.1	0.4	-2.81	0.103	
STOC 2 (855)	40%	40%			61.0	44.5	22.2	3.9	-1.57	0.070	
STOC 3 (857)	10%	10%			60.0	43.5	22.7	3.3	-0.36	0.031	
STOC 4 (859)	3%	3%			57.0	14.8	5.6	0.9	-0.10	0.014	
STOC 5 (861)	3%	3%			61.0	15.5	9.1	4.2	-0.17	0.011	
STOC 6 (863)	3%	3%			66.0	13.0	9.5	4.5	-0.08	0.008	
STOC 7 (875)	3%	3%			67.0	23.6	14.5	2.1	-0.10	0.016	
STOC 8 (854)	65%	65%			61.0	49.2	35.3	0.1	-0.84	0.067	
STOC 9 (856)	30%	30%			56.0	50.8	34.7	0.2	-0.42	0.021	
STOC 10	40%	40%			87.0	53.7	39.8	0.1	-0.71	0.058	
STOC 11	35%	35%			81.0	53.1	29.5	0.6	-0.57	0.051	
Phase VI-E (849)	5%	5%			76.0	27.7	15.2	2.9	-0.35	0.036	
STOC 12A	50%	50%			75.0	51.9	27.6	0.3	-1.22	0.086	
STOC 13 (879)	5%	5%			76.0	22.6	15.9	4.1	-0.17	0.014	
STOC 14 (881)	5%	5%			71.0	31.5	16.3	2.5	-0.12	0.016	
STOC 15 (883)	3%	3%			75.0	16.2	19.1	2.9	-0.09	0.010	
STOC 16	15%	15%			75.0	45.1	24.4	0.6	-0.47	0.035	

Well #	Start	End	Gallons
14	182007	182505	249
15	258534	260054	760
16	290756	291003	123.5
17	466022	466598	288

Cycle = .5 gallons

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Air Permit 05-MHR-210 Compliance Demonstration

Closed and Active Landfills

Monthly Gas Well Deviation Report[1] **November 2024**

Gas Wells with Oxygen > 5%

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Oxygen %	Explanation	Corrective Action	Date	Oxygen %	Date	Oxygen %	Date	Action	Y/N

Gas Wells with Temperature > 131 degrees F

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Temp deg F	Explanation	Corrective Action	Date	Temp deg F	Date	Temp deg F	Date	Action	Y/N

Gas Wells with Positive Pressure

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Press. "H_2O	Explanation	Corrective Action	Date	Press. "H_2O	Date	Press. "H_2O	Date	Action	Y/N

Notes:

1 La Crosse County is submitting this deviation report in accordance with Permit Condition II.D.1.c., but reserves the right to provide additional information and/or dispute any determination of permit violation based on the information submitted in this report. A deviation does not automatically constitute a violation, particularly where corrective measures are undertaken in accordance with the permit. Nothing in this submittal should be deemed to be an admission of any violation or a waiver of any factual or legal defenses to any assertion that any of the reported information constitutes a violation.

2 Pending action indicates that 10 and 45-day remonitoring actions and/or 120-day corrective actions will be taken to demonstrate compliance.

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Client: La Crosse County Scope ID:
Project: Gas Balance Page: 1
Prepared by: Jadd Stiwell Date: 11/8/24
Checked by: Jadd Stilwell Date: 11/8/24

GAS INSTRUMENT CALIBRATION DOCUMENTATION

Location: La Crose County Solid Waste Department, 3200 Berlin Drive La Crosse WI 54601

Personnel: Jackie Davis Comments: Factory Calibrated

Instrument: Landtech GEM 5000 Serial #:
Instrument: Landtech GEM 5000 Serial #:

Gas: Methane

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	50.0	50.0	0.0	0.0%	X	

Gas: Carbon Dioxide

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	35.0	35.0	0.0	0.0%	X	

Gas: Oxygen

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	12710	4.0	4.0	0.0	0.0%	X	
Span	Ambient Air	20.8	20.8	0.0	0.0%	X	

Gas:

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero				0.0	0.0%		
Span				0.0	0.0%		

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Gas Balance Sheet 2024

Page 1

Taken by: JES | ***Date*** 12/9/2024 | Start Barometric Pressure 28.99 | Weather: 32 Degrees F, SSW 7 MPH Fair

Time 9:00 AM

Checked by: JES /SEH | 12:50 PM | End Barometric Pressure 28.95 | Weather: 49 Degrees F,W 12 MPH Cloudy

Sample Location (DNR ID)	Initial Pointer Setting %	End Pointer Setting %	Vacuum " of H2O Well	Flow	Temp. F	Gas Concentration Percent Methane W	Carbon Dioxide W	Oxygen W	Top of well elevation	Top of screen elevation	Depth to Leachate (feet)	Liquid elevation	Screen Length (ft)	Liquid Pumped	% Screen open	Static	Differential	Comments
Flare St (781)	100	100	-3.0	236	55.8	40.6	25.7	1.6								-	-	
Flare End (781)	100	100	-2.7	238	56.3	42.3	26.4	1.4								-	-	
GW-1 (800)	3%	3%		2	62.0	14.2	4.2	1.9	806.5	791.6	38	768.5	23.5	0	**98%**	-0.09	0.011	
GW-2(803)	3%	3%		1	50.0	22.4	2.0	1.4	802.3	786.8	38.9	763.4	23.5	0	**100%**	-0.12	0.007	
GW-3 (806)	5%	5%		2	49.0	19.7	7.7	0.3	797.4	781.6	38.6	758.8	23.5	0	**97%**	-0.20	0.011	
GW-4 (809)	3%	3%		2	64.0	20.6	9.5	0.3	801.3	785.3	37	764.3	21.5	0	**98%**	-0.10	0.004	
GW-5 (812)	5%	5%		3	69.0	13.9	13.0	0.3	804.7	789.4	39.4	765.3	24.5	0	**98%**	-0.23	0.013	
GW-6 (815)	5%	5%		4	50.0	9.2	11.7	2.6	811.6	797	42.2	769.4	29	0	**95%**	-0.12	0.014	
GW-7 (818)	3%	3%		3	49.0	6.2	11.0	2.3	813.5	799	38	775.5	27	0	**87%**	-0.07	0.009	
GW-8 (821)	5%	5%		6	65.0	21.6	12.7	3.6	824.9	811	45.2	779.7	33	0	**95%**	-0.33	0.018	
GW-9 (824)	50%	50%		11	61.0	49.7	15.1	0.8	860.1	838	74.5	785.6	67	0	**78%**	-1.81	0.066	
GW-10 (827)	80%	80%		15	53.0	26.7	24.6	0.4	853.7	835.6	58.9	794.8	53	0	**77%**	-2.27	0.091	
GW-11 (865)	30%	30%		11	65.0	38.5	22.7	0.4	855.8	833.1	78.7	777.09	56.5	0	**99%**	-1.34	0.054	
GW-12 (831)	20%	20%		8	68.0	27.7	19.0	0.2	897.3	881.0	60.3	837.0	50.0	0	**88%**	-0.92	0.061	
GW-13 (830)	60%	85%		15	62.0	59.6	19.4	0.8	855.2	836.5	62.4	792.8	53.0	0	**82%**	-2.45	0.088	
GW-14 (833)	100%	100%		20	74.0	71.3	27.8	0.4	833.1	816.1	49.5	783.6	41.8	56	**78%**	-2.58	0.131	
GW-15 (836)	100%	100%		16	79.0	63.4	24.5	1.5	847.7	833.4	46.8	800.9	38.0	496.5	**86%**	-2.36	0.128	
GW-16 (839)	100%	100%		22	49.0	64.4	26.2	1.7	851.5	835.8	49.9	801.6	36.8	341	**93%**	-2.41	0.103	
GW-17 (842)	100%	100%		18	49.0	68.1	31.3	0.3	882.2	856.0	91.5	790.7	79.0	59.5	**83%**	-2.37	0.067	
GW-19 (841)	25%	25%		7	76.0	22.9	14.3	0.7	905.97	889.8	63.4	842.6	50.0	0	**94%**	-1.16	0.061	
GW-20 (867)	20%	20%		7	70.0	34.8	25.1	0.4	856.32	837.1	67.7	788.6	49.5	0	**98%**	-0.65	0.043	
GW-21 (869)	20%	20%		5	44.0	21.3	18.1	0.8	810.0	795.1	26.6	783.4	13.5	0	**87%**	-0.59	0.051	
GW-22 (871)	15%	15%		6	92.0	22.5	17.5	4.3	815.62	796.0	36.7	778.9	22.5	0	**76%**	-0.37	0.044	
GW-26 (843)	10%	10%		4	70.0	34.9	17.4	1.1	881.21	865.7	60.3	820.9	50.0	0	**90%**	-0.41	0.051	
GW-27 (844)	15%	15%		7	63.0	27.7	22.9	0.5	857.02	841.2	45.9	811.1	31.0	0	**97%**	-0.38	0.033	
GW-33 (873)	5%	5%		3	96.0	26.8	15.4	3.8	815.63	797.9	41.4	774.2	24.5	0	**97%**	-0.26	0.025	

					Temp	CH4	CO2	O2	Static	Diff.	Comments
Phase VII (851)	10%	10%			50.0	51.2	30.7	0.3	-0.22	0.021	
Phase V CO (847)	20%	20%			52.0	27.0	15.5	3.0	-0.39	0.026	
Phase IV CO (845)	20%	20%			57.0	21.2	13.6	1.8	-0.42	0.033	
STOC 1 (853)	100%	100%			56.0	64.5	31.2	0.5	-2.26	0.107	
STOC 2 (855)	40%	40%			58.0	42.7	21.6	4.1	-1.31	0.064	
STOC 3 (857)	10%	10%			52.0	42.2	21.4	3.9	-0.30	0.031	
STOC 4 (859)	3%	3%			47.0	4.1	3.9	1.0	-0.10	0.019	
STOC 5 (861)	3%	3%			53.0	13.6	9.2	4.4	-0.12	0.011	
STOC 6 (863)	3%	3%			60.0	13.8	7.6	4.8	-0.09	0.013	
STOC 7 (875)	3%	3%			62.0	20.4	17.2	2.0	-0.16	0.008	
STOC 8 (854)	65%	65%			52.0	60.0	35.9	0.2	-0.84	0.082	
STOC 9 (856)	30%	30%			51.0	49.1	35.3	0.2	-0.36	0.039	
STOC 10	40%	40%			90.0	54.1	43.2	0.4	-0.62	0.052	
STOC 11	35%	35%			80.0	50.8	30.3	0.4	-0.35	0.041	
Phase VI-E (849)	5%	5%			61.0	26.3	15.9	3.9	-0.18	0.015	
STOC 12A	50%	50%			65.0	52.6	28.8	0.6	-1.27	0.066	
STOC 13 (879)	5%	5%			62.0	21.1	16.3	4.4	-0.22	0.020	
STOC 14 (881)	5%	5%			69.0	35.9	17.1	2.8	-0.19	0.008	
STOC 15 (883)	3%	3%			56.0	17.6	17.4	3.1	-0.14	0.013	
STOC 16	15%	15%			60.0	42.4	22.2	0.6	-0.45	0.034	

Well #	Start	End	Gallons
14	182505	182617	56
15	260054	261047	496.5
16	291003	291685	341
17	466598	466717	59.5

Cycle = .5 gallons

`

La Crosse County Solid Waste Department
3200 Berlin Drive La Crosse, Wisconsin 54601
Telephone: (608) 785-9572 • Fax: (608) 785-6160
www.lacrossecounty.org/solidwaste

LA CROSSE COUNTY
Exceptional services. Extraordinary place.

Air Permit 05-MHR-210 Compliance Demonstration

Closed and Active Landfills

Monthly Gas Well Deviation Report[1] December 2024

Gas Wells with Oxygen > 5%

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Oxygen %	Explanation	Corrective Action	Date	Oxygen %	Date	Oxygen %	Date	Action	Y/N

Gas Wells with Temperature > 131 degrees F

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Temp deg F	Explanation	Corrective Action	Date	Temp deg F	Date	Temp deg F	Date	Action	Y/N

Gas Wells with Positive Pressure

	Monthly Monitoring				10-day Remonitor		45-day Remonitor		Compliance Demonstration		
Gas Well	Date	Press. "H_2O	Explanation	Corrective Action	Date	Press. "H_2O	Date	Press. "H_2O	Date	Action	Y/N

Notes:

1 La Crosse County is submitting this deviation report in accordance with Permit Condition II.D.1.c., but reserves the right to provide additional information and/or dispute any determination of permit violation based on the information submitted in this report. A deviation does not automatically constitute a violation, particularly where corrective measures are undertaken in accordance with the permit. Nothing in this submittal should be deemed to be an admission of any violation or a waiver of any factual or legal defenses to any assertion that any of the reported information constitutes a violation.

2 Pending action indicates that 10 and 45-day remonitoring actions and/or 120-day corrective actions will be taken to demonstrate compliance.

La Crosse County Solid Waste Department
3200 Berlin Drive La Crosse, Wisconsin 54601
Telephone: (608) 785-9572 • Fax: (608) 785-6160
www.lacrossecounty.org/solidwaste

Client: La Crosse County Scope ID:
Project: Gas Balance Page: 1
Prepared by: Jadd Stiwell Date: 12/9/24
Checked by: Jadd Stilwell Date: 12/9/24

GAS INSTRUMENT CALIBRATION DOCUMENTATION

Location: La Crose County Solid Waste Department, 3200 Berlin Drive La Crosse WI 54601

Personnel: Jackie Davis Comments: Factory Calibrated

Instrument: Landtech GEM 5000 Serial #:
Instrument: Landtech GEM 5000 Serial #:

Gas: Methane

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	50.0	50.0	0.0	0.0%	X	

Gas: Carbon Dioxide

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	Ambient Air	0.0	0.0	0.0	0.0%	X	
Span	40263-06	35.0	34.9	0.1	0.3%	X	

Gas: Oxygen

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero	12710	4.0	4.0	0.0	0.0%	X	
Span	Ambient Air	20.8	20.7	0.1	0.6%	X	

Gas:

	Cylinder Lot #	Cylinder Value	Meter Response	Absolute Difference	Drift (% of Span)	Calibration Successful Yes	Calibration Successful No
Zero				0.0	0.0%		
Span				0.0	0.0%		

Appendix E

Groundwater and Environmental Monitoring

Appendix E

Groundwater and Environmental Monitoring

E-1 – PAL/ ACL Summary
E-2 – Exceedance and Trend Summary
E-3 – Groundwater Elevation Contour Map
E-4 – Environmental Monitoring Device Condition Report
E-5 – Gas Probe Monitoring Data

E-1 – PAL/ACL Summary

Groundwater 2021 Feasibility Determination Exemptions Summary Table
La Crosse County Landfill

Substance	Monitoring Wells
PAL Exemptions	
Chloride	MW-3, MW-42P, MW-57A, MW-58A, MW-77A
Sulfate	MW-5R, MW-64
Nitrate plus Nitrite (as N)	MW-5R, MW-24, MW-30, MW-55, MW-64, MW-76A, MW-119, MW-120, MW-121
Arsenic	MW-55B, MW-56B, MW-75A, MW-76, MW-77A
Boron	MW-54
Manganese	MW-120, MW-121
1,2-Dichloroethane(1)	MW-76
1,2-Dichloropropane(1)	MW-20A, MW-75, MW-76
Benzene(1)	MW-20A, MW-75
cis-1,2-Dichloroethene(1)	MW-75, MW-76
Tetrachloroethene(1)	MW-3, MW-3A, MW-20, MW-24, MW-24P, MW-33P, MW-75, MW-120
Tetrahydrofuran(1)	MW-33P, MW-42P, MW-55B, MW-56B, MW-57A, MW-58A, MW-75, MW-76, MW-77A
Trichloroethene(1)	MW-20A, MW-33P, MW-42P, MW-56B, MW-57A, MW-75
ES Exemptions	
Chloride	MW-78
Nitrate plus Nitrite (as N)	MW-65, MW-65R, MW-75, MW-120A
Barium	MW-77A
Boron	MW-64
Manganese	MW-64, MW-82, MW-82A, MW-119
Benzene(1)	MW-76
Tetrachloroethene(1)	MW-75, MW-76, MW-121
Tetrahydrofuran(1)	MW-20A
Trichloroethene(1)	MW-76
Vinyl Chloride(1)	MW-20A, MW-33P, MW-75

Note:
(1) - Substance is a Volatile Organic Compound (VOC) and therefore, no ACLs were calculated per NR 140.28 Wis. Adm. Code.
BLUE - ACL proposed within the Plan of Operation Report submitted November 7, 2022.
RED - No ACL proposed within the Plan of Operation Report and therefore, is being proposed as part of the Supplemental Letter for Proposed PALs and ACLs.

Summary of Existing PALs and ACLs
WDNR License No. 3253
La Crosse County, Wisconsin

Facility ID #03253			Preventive Action Limit (PAL)							Alterative Concenration Limit (ACL)							
Well Name	WDNR ID	TOC Elevation	Conductivity	pH	Alkalinity (mg/L)	Hardness (mg/l)	Temp_C	Sodium (mg/L)	COD (mg/L)	Arsenic (ug/l)	Boron (mg/l)	Manganese (ug/l)	N+N (mg/l)	Calcium (ug/l)	Sulfate (mg/l)	Barium (ug/l)	Nickel (ug/l)
MW-3	006	817.23	1800	5.7-7.7	880	1100	4-16	--	72	--	0.22	--	--	--	--	--	--
MW-3A	032	765.55	1400	5.8-7.8	800	860	4.1-16	--	--	--	--	--	--	--	--	--	--
MW-5R	019	776.18	1300	5.9-7.9	710	790	4.6-16	18	30	--	--	--	11	--	--	--	--
MW-8	033	729.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	034	733.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-20	039	819.27	1400	5.4-7.4	760	790	4.8-16	--	99	--	--	--	--	--	--	--	--
MW-20A	072	820.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24	040	778.03	1300	5.5-7.5	770	840	4.3-16	--	41	--	--	--	5.3	--	--	--	--
MW-24P	041	778.15	1400	5.9-7.9	670	810	4.4-16	--	36	--	--	--	--	--	--	--	--
MW-30	042	739.7	980	6.1-8.1	470	610	4.2-16	--	30	--	--	--	9.2	--	--	--	--
MW-32	043	751.1	970	5.6-7.6	490	500	5.3-17	--	31	--	--	--	--	--	--	--	--
MW-32P	044	751.11	890	6.0-8.0	510	490	5.3-17	--	32	--	--	--	--	--	--	--	--
MW-33	045	777.81	760	6.1-8.1	390	420	4.4-16	--	30	--	--	--	2.6	--	--	--	--
MW-33P	046	777.92	1300	6.0-8.0	590	640	4.4-16	--	32	--	--	--	--	--	--	--	--
MW-38	049	755.23	1100	6.0-8.0	640	650	4.5-18	--	43	--	--	--	--	--	--	--	--
MW-42	050	--	720	--	380	420	--	--	32	--	--	2600	--	--	--	--	--
MW-42R	052	808.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-42P	051	810.11	1400	6.1-8.1	720	790	4.4-16	--	36	--	--	--	--	--	--	--	--
MW-47	054		960	--	810	790	--	--	36	--	--	1300	--	--	--	--	46
MW-55	024	752.24	1400	5.9-7.9	700	900	6.8-18	--	33	--	--	--	17	--	--	--	--
MW-55B	025	752.71	810	6.1-8.1	440	430	6.1-18	--	32	8.2	--	--	--	--	--	--	--
MW-56	026	761.89	860	5.9-7.9	470	470	4.8-16	--	31	--	--	--	--	--	--	--	--
MW-56B	027	761.92	700	6.1-8.1	390	380	4.9-17	--	32	12	--	190	--	--	--	--	--
MW-57	067	790.89	1100	6.0-8.0	590	640	0-21	--	32	--	--	--	--	--	--	--	--
MW-57A	068	791.02	1600	6.0-8.0	920	990	4.3-16	--	48	--	--	--	--	--	--	--	--
MW-58	069	779.7	580	6.0-8.0	320	320	4.6-16	--	34	--	--	--	--	--	--	--	--
MW-58A	070	779.62	1100	6.2-8.2	540	600	4.2-16	--	54	--	--	--	--	--	--	--	--
MW-64	073	776.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-65	075	765.08	870	6.2-8.2	330	460	4.2-16	15	30	--	--	--	43	--	--	--	--
MW-75	218	848.22	1200	5.6-7.6	910	820	2.1-16	--	35	--	--	--	--	--	--	--	--
MW-75P	220	848.37	1100	6.2-8.2	700	590	3.9-16	--	69	12	--	--	--	--	--	--	--
MW-76	222	839.36	1500	5.6-7.6	900	870	4.5-16	--	52	31	--	--	--	--	--	--	--
MW-76P	224	837.15	800	6.1-8.1	400	440	4.6-16	--	33	--	--	--	6.4	--	--	--	--
MW-77	079	806.87	1500	5.6-7.6	730	750	--	--	43	--	--	--	--	--	--	--	--
MW-77A	081	806.69	1200	6.1-8.1	680	720	4.6-16	--	340	6.9	--	--	--	--	--	3400	--
MW-78	096	781.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-78A	098	780.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-82	226	760.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-82A	228	760.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-83	230	758.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-84	232	781.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-84A	234	780.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118	090	748.27	840	6.0-8.0	460	480	4.4-16	--	--	--	--	--	--	--	--	--	--

Facility ID #04317			Preventive Action Limit (PAL)							Alterative Concenration Limit (ACL)							
Well Name	WDNR ID	TOC Elevation	Conductivity	pH	Alkalinity (mg/L)	Hardness (mg/l)	Temp_C	Sodium (mg/L)	COD (mg/L)	Arsenic (ug/l)	Boron (mg/l)	Manganese (ug/l)	N+N (mg/l)	Calcium (ug/l)	Sulfate (mg/l)	Barium (ug/l)	Barium (ug/l)
MW-4	007	774.55	1700	6.1-8.1	950	1000	4.9-17	68	53	--	--	--	--	--	--	--	--
MW-4A	009	776.54	1500	5.6-7.6	880	1100	5.3-17	--	51	--	--	130	13	--	--	--	--
MW-54	092	758.59	2000	5.6-7.6	970	1400	5.4-17	--	54	--	1.1	99	--	0.76	240	--	--
MW-54A	094	760.46	900	6.0-8.0	430	460	4.2-17	--	35	--	--	--	--	--	--	--	--
MW-71	210	744.86	720	6.3-8.3	400	420	4.2-16	--	32	--	--	--	--	--	--	--	--
MW-115	084	753.23	1100	6.1-8.1	500	570	6.1-18	--	44	--	--	--	22	--	--	--	--
MW-116	086	758.77	1700	6.0-8.0	750	950	5.1-19	--	72	--	--	--	17	--	--	--	--
MW-117	088	761.02	1600	5.7-7.7	850	890	5.8-17	--	37	--	--	--	--	--	--	--	--
MW-118	090	748.27	840	6.0-8.0	460	480	4.4-16	--	--	--	--	--	--	--	--	--	--

Notes:
-- indicates a PAL or ACL has not been proposed or approved. For ACL parameters, please utilize PAL listed in s. NR 140 Wis. Admin Code

E-2 – Exceedance and Trend Summary

2024 Exceedance and Trend Summary
La Crosse County Solid Waste
WDNR Lic. No. 3253

Sample Point DNR I.D. (Well No.)	Date	Parameter Name	Test Results	Current PAL/ACL	Proposed PAL/ACL[1]	Exceedance Status[2]	Trend Summary (2021-2024)	Significance	Cause
MW-3 (006)	5/4/2024	Specific Conductivity	1818 umhos/cm	1800 umhos/cm	--	Exceeds	Increasing	Increasing	Downgradient of former unlined LF
	11/7/2024		1972 umhos/cm						
	5/4/2024	Chloride, Dissolved	203 mg/L	125 mg/L	130 mg/L	Remain an Exceedance	Increasing	Decreasing until Nov. 2022	
	11/7/2024		263 mg/L						
MW-3A (032)	5/4/2024	Specific Conductivity	1684 umhos/cm	1400 umhos/cm	--	Exceeds	Slightly Increasing	Increasing	Downgradient of former unlined LF
	11/7/2024		1572 umhos/cm						
	5/4/2024	Hardness	862 mg/L	860 mg/L	--	Exceeds	Increasing	Increasing only since November2023	
	5/4/2024	Chloride, Dissolved	225 mg/L	125 mg/L	--	Exceeds	Increasing	Decreasing until Nov. 2022	
	11/7/2024		182 mg/L						
	11/7/2024	Benzene	0.65 ug/L	0.5 ug/L	--	Exceeds	Decreasing	--	
MW-20 (039)	5/6/2024	Tetrachloroethene	1.7 ug/L	0.5 ug/L	--	Exceeds	Decreasing	--	Downgradient of former unlined LF
MW-20A (072)	5/6/2024	Specific Conductivity	1157 umhos/cm	950 umhos/cm	--	Exceeds	Decreasing	--	Downgradient of former unlined LF
	11/8/2024		1130 umhos/cm						
	5/6/2024	Hardness	553 mg/L	503 mg/L	--	Exceeds	Decreasing	--	
	11/8/2024		572 mg/L						
	5/6/2024	1,2-Dichloropropane	1.2 ug/L	0.5 ug/L	--	Exceeds	Increasing	Decreasing until May 2022	
	5/6/2024	Benzene	1.9 ug/L	0.5 ug/L	--	Exceeds	Slightly Increasing	Generally Decreasing until May 2019	
	5/6/2024	Tetrahydrofuran	38.7 ug/L	10 ug/L	--	Exceeds	Seasonably Stable	--	
	5/6/2024	Trichloroethene	2.4 ug/L	0.5 ug/L	--	Exceeds	Slightly Decreasing	--	
	5/6/2024	Vinyl chloride	0.75 ug/L	0.02 ug/L	--	Exceeds	Slight Increasing	Generally Decreasing since May 2013	
MW-32 (043)	5/6/2024	Specific Conductivity	1048 umhos/cm	970 umhos/cm	--	Exceeds	Slightly Decreasing	--	Downgradient of former unlined LF
	11/7/2024		1099 umhos/cm						
	5/6/2024	Alkalinity	561 mg/L	490 mg/L	--	Exceeds	Decreasing	--	
	11/7/2024		511 mg/L						
	5/6/2024	Hardness	564 mg/L	500 mg/L	--	Exceeds	Decreasing	--	
	11/7/2024		596 mg/L						
MW-32 (043) DUP	5/6/2024	Alkalinity	545 mg/L	490 mg/L	--	Exceeds	Decreasing	--	Downgradient of former unlined LF
	11/7/2024		514 mg/L						
	5/6/2024	Hardness	567 mg/L	500 mg/L	--	Exceeds	Decreasing	--	
	11/7/2024		607 mg/L						
MW-32P (044)	5/6/2024	Specific Conductivity	1070 umhos/cm	890 umhos/cm	--	Exceeds	Slightly Decreasing	--	Downgradient of former unlined LF
	11/7/2024		1157 umhos/cm						
	5/6/2024	Alkalinity	548 mg/L	510 mg/L	--	Exceeds	Decreasing	--	
	5/6/2024	Hardness	606 mg/L	490 mg/L	--	Exceeds	Decreasing	--	
MW-33 (045)	5/6/2024	Specific Conductivity	800.1 umhos/cm	760 umhos/cm	--	Exceeds	Increasing	Slightly increasing until May 2010 where concentrations are stable	Downgradient of former unlined LF
	11/7/2024		781.5 umhos/cm						
MW-33P (046)	5/6/2024	Chloride, Dissolved	130 mg/L	125 mg/L	--	Exceeds	Increasing	Increasing after May 2020	Downgradient of former unlined LF
	11/7/2024		146 mg/L						
	11/7/2024	Specific Conductivity	1481 umhos/cm	1300 umhos/cm	--	Exceeds	Increasing	Concetrations begin to stablize May 2008	Downgradient of former unlined LF
MW-33P (046) DUP	11/7/2024	Chloride, Dissolved	152 mg/L	125 mg/L	--	Exceeds	Increasing	Increasing after May 2020	Downgradient of former unlined LF
MW-42R (052)	5/6/2024	Trichloroethene	0.59 ug/L	0.5 ug/L	--	Exceeds	Decreasing	--	Downgradient of former unlined LF
	11/8/2024		0.78 ug/L						
MW-42P (051)	5/6/2024	Specific Conductivity	1411 umhos/cm	1400 umhos/cm	--	Exceeds	Decreasing	--	Downgradient of former unlined LF
	5/6/2024	Chloride, Dissolved	147 mg/L	125 mg/L	230 mg/L	No longer an exceedance	Decreasing	--	
	5/6/2024	Selenium, Dissolved	15.4 ug/L	10 ug/L	--	Exceeds	Insufficent Data	Only sampled in 2002, 2004. 2023, 2024: Mainly decreasing in concentration	
	5/6/2024	Trichloroethene	0.76 ug/L	0.5 ug/L	--	Exceeds	Slightly Decreasing	--	
	5/6/2024	Vinyl Chloride	0.25 ug/L	0.02 ug/L	--	Exceeds	Seasonably Stable	--	
MW-54 (092)	5/3/2024	Boron, Dissolved	380 ug/L	200 ug/L	1000 ug/L	No longer an exceedance	Increasing	Generally decreasing from April 2005 until November 2020	Proximity to the unlined C&D LF and/ or naturally occuring fluctuations in the aquifer
	11/6/2024		361 ug/L						
MW-55 (024)	11/7/2024	Boron, Dissolved	214 ug/L	200 ug/L	--	Exceeds	Insufficent Data	only data since Nov 2023	Downgradient of former unlined LF

2024 Exceedance and Trend Summary
La Crosse County Solid Waste
WDNR Lic. No. 3253

Sample Point DNR I.D. (Well No.)	Date	Parameter Name	Test Results	Current PAL/ACL	Proposed PAL/ACL[1]	Exceedance Status[2]	Trend Summary (2021-2024)	Significance	Cause
MW-55B (025)	5/4/2024	Specific Conductivity	1536 umhos/cm	810 umhos/cm	--	Exceeds	Decreasing	--	Downgradient of former unlined LF
	11/7/2024		1339 umhos/cm						
	5/4/2024	Alkalinity	595 mg/L	440 mg/L	--	Exceeds	Slightly Decreasing	--	
	11/7/2024		579 mg/L						
	5/4/2024	Hardness	743 mg/L	430 mg/L	--	Exceeds	Decreasing	--	
	11/7/2024		756 mg/L						
	5/4/2024	Chloride, Dissolved	162 mg/L	125 mg/L	--	Exceeds	Decreasing	--	
	11/7/2024		158 mg/L						
MW-56 (026)	5/6/2024	Specific Conductivity	1075 umhos/cm	860 umhos/cm	--	Exceeds	Increasing	Stable until May 2011 where data is begins to generally increases and	Downgradient of former unlined LF
	11/7/2024		1052 umhos/cm						
	5/6/2024	Alkalinity	553 mg/L	470 mg/L	--	Exceeds	Stable	--	
	11/7/2024		563 mg/L					--	
	5/6/2024	Hardness	577 mg/L	470 mg/L	--	Exceeds	Slightly Decreasing	--	
	11/7/2024		597 mg/L						
MW-56B (027)	5/6/2024	Specific Conductivity	953.4 umhos/cm	700 umhos/cm	--	Exceeds	Slightly Increasing	Historically increasing since November 2007	Downgradient of former unlined LF
	11/7/2024		917.8 umhos/cm						
	5/6/2024	Alkalinity	410 mg/L	390 mg/L	--	Exceeds	Decreasing	--	
	11/7/2024		414 mgL						
	5/6/2024	Hardness	432 mg/L	380 mg/L	--	Exceeds	Decreasing	--	
	11/7/2024		440 mg/L						
MW-57A (068)	5/6/2024	Specific Conductivity	1664 umhos/cm	1600 umhos/cm	--	Exceeds	Increasing	Decreasing since November 2019	Downgradient of former unlined LF
	11/8/2024		1722 umhos/cm						
	5/6/2024	Selenium, Dissolved	14.7 ug/L	10 ug/L	--	Exceeds	Insufficent Data	Only sampled in 2002, 2004. 2023, 2024: Mainly decreasing in concentration	
	11/8/2024	Chloride, Dissolved	138 mg/L	125 mg/L	250 mg/L	No longer an exceedance	Decreasing	--	
	11/8/2024	Sulfate, Dissolved	182 mg/L	125 mg/L	--	Exceeds	Insufficent Data	Insufficent data; not sampled from 2006 through 2022	
MW-58 (069)	5/6/2024	Specific Conductivity	761.2 umhos/cm	580 umhos/cm	--	Exceeds	Increasing	Consistently Increasing and decreasing	Downgradient of former unlined LF
	11/7/2024		774.5 umhos/cm						
	5/6/2024	Alkalinity	322 mg/L	320 mg/L	--	Exceeds	Stable	--	
	11/7/2024		370 mg/L						
	5/6/2024	Hardness	378 mg/L	320 mg/L	--	Exceeds	Stable	--	
	11/7/2024		401 mg/L						
MW-58A (070)	5/6/2024	Specific Conductivity	1573 umhos/cm	1100 umhos/cm	--	Exceeds	Seasonably Stable	--	Downgradient of former unlined LF
	11/7/2024		1500 umhos/cm						
	5/6/2024	Alkalinity	589 mg/L	540 mg/L	--	Exceeds	Slightly Increasing	Decreasing since May 2009, currently relatively stable	
	11/7/2024		594 mg/L						
	5/6/2024	Hardness	627 mg/L	600 mg/L	--	Exceeds	Slightly Decreasing	--	
	11/7/2024		650 mg/L						
	5/6/2024	Chloride, Dissolved	153 mg/L	125 mg/L	180 mg/L	No longer an exceedance	Decreasing	Decreasing since 2019	
	11/7/2024		131 mg/L						
MW-64 (073)	5/3/2024	Alkalinity	1060 mg/L	592 mg/L	--	Exceeds	Decreasing	--	Proximity to the unlined C&D LF and/ or naturally occuring fluctuations in the aquifer
	11/6/2024		718 mg/L					--	
	5/3/2024	Boron, Dissolved	2400 ug/L	200 ug/L	5000 ug/L	No longer an exceedance	Insufficent Data	Boron not sampled prior to April	
	11/6/2024		1600 ug/L						
MW-75 (218)	5/6/2024	1,2-Dichloropropane	0.61	0.5 ug/L	--	Exceeds	Decreasing	--	Downgradient of former unlined LF
	5/6/2024	Tetrachloroethene	9.9	0.5 ug/L	--	Exceeds	Decreasing	--	
	5/6/2024	Trichloroethene	7.1	0.5 ug/L	--	Exceeds	Decreasing	--	
	5/6/2024	Vinyl Chloride	0.54	0.02 ug/L	--	Exceeds	Decreasing	--	
	5/6/2024	cis-1.2-Dichloroethene	7.8	7 ug/L	--	Exceeds	Decreasing	--	
MW-76 (222)	5/6/2024	1,2-Dichloroethane	0.53 ug/L	0.5 ug/L	--	Exceeds	Stable	Decreasing since May 2015.	Downgradient of former unlined LF
	5/6/2024	1,2-Dichloropropane	0.74 ug/L	0.5 ug/L	--	Exceeds	Slightly Increasing	only detected in May 2024 out of all four years	
	5/6/2024	Benzene	1.5 ug/L	0.5 ug/L	--	Exceeds	Stable	Decreasing since May 2015.	
	5/6/2024	Tetrahydrofuran	27 ug/L	10 ug/L	--	Exceeds	Generally Decreasing	--	
	5/6/2024	Trichloroethene	2.1 ug/L	0.5 ug/L	--	Exceeds	Increasing	Decreasing since May 2020.	
MW-77 (079)	5/6/2024	Tetrachloroethene	0.86 ug/L	0.5 ug/L	--	Exceeds	Stable	--	Downgradient of former unlined LF

2024 Exceedance and Trend Summary
La Crosse County Solid Waste
WDNR Lic. No. 3253

Sample Point DNR I.D. (Well No.)	Date	Parameter Name	Test Results	Current PAL/ACL	Proposed PAL/ACL[1]	Exceedance Status[2]	Trend Summary (2021-2024)	Significance	Cause
MW-77A (081)	5/6/2024	Specific Conductivity	1321 umhos/cm	1200 umhos/cm	--	Exceeds	Decreasing	--	Downgradient of former unlined LF
	5/6/2024	1,2-Dichloropropane	0.58 ug/L	0.5 ug/L	--	Exceeds	Slightly Increasing	only detected in May 2006 and Nov 2024	
	5/6/2024	Benzene	1.3 ug/L	0.5 ug/L	--	Exceeds	Slightly Increasing	Downgradient of former liner LF	
	5/6/2024	Chloride, Dissolved	133 mg/L	125 mg/L	220 mg/L	No longer an exceedance	Decreasing	--	
	11/8/2024		127 mg/L						
	5/6/2024	Trichloroethene	0.53 ug/L	0.5 ug/L	--	Exceeds	Slightly Increasing	only detected in May 2024 out of all four years	
MW-78 (096)	5/3/2024	Chloride, Dissolved	148 mg/L	125 mg/L	--	Exceeds	Generally Increasing	Historically Decreasing since November 2019	Proximity to the unlined C&D LF and/ or naturally occuring fluctuations in the aquifer
	11/7/2024		257 mg/L						
	11/7/2024	Boron, Dissolved	184 ug/L	200 ug/L	--	Exceeds	Insufficent Data	Only sampled from November 2023 through November 2024	
MW-82A (228)	5/3/2024	Boron, Dissolved	1180 ug/L	200 ug/L	--	Exceeds	Insufficent Data	Only sampled from April-July 2020 and November 2023 through	Proximity to the unlined C&D LF and/ or naturally occuring fluctuations in the aquifer
	11/6/2024.		640 ug/L						
	5/3/2024	Sulfate, Dissolved	155 ug/L	125 ug/L	--	Exceeds	Insufficent Data	Only sampled from April-July 2020 and November 2023 through November 2024.	
MW-83A (231)	5/3/2024	Tetrachloroethene	0.94 ug/L	0.5 ug/L	--	Exceeds	Insufficent Data	Only sampled in April-June 2020 (non-detects) and May 2024.	Proximity to the unlined C&D LF and/ or naturally occuring fluctuations in the aquifer
MW-118 (090)	5/3/2024	Specific Conductivity	1008 umhos/cm	840 umhos/cm	--	Exceeds	Decreasing	--	Proximity to the unlined C&D LF and/ or naturally occuring fluctuations in the aquifer
	5/3/2024	Boron, Dissolved	274 ug/L	200 ug/L	--	Exceeds	Increasing	Only increased since November 2020	
MW-121 (241)	5/3/2024	Tetrachloroethene	2.9 ug/L	0.5 ug/L	--	Exceeds	Insufficent Data	Only sampled from April-July 2020 and May 2024. Concetration is decreasing.	Proximity to the unlined C&D LF and/ or naturally occuring fluctuations in the aquifer

[1]Proposed values listed in the 'Plan of Operations Report dated November 7, 2022, and the 'Supplemental Letter for Proposed PALs and ACLs' dated July 12, 2023.

[2]Result values would remain or would no longer be considered as an exceedance if proposed ACL/PAL values were accepted in the Plan of Operations Report dated November 7, 2022, and the Supplemental Letter for Proposed PALs and ACLs dated July 12, 2023.

-- No alternative PAL/ACL proposed.

Notes: No ACLs were calculated for Volatile Organic Compound (VOC) per NR 140.28 Wis. Adm. Code.

E-3 – Groundwater Elevation Contour Map

NOTES:

1. CONTOUR INTERVAL IS 2-FOOT.
2. EXISTING GRADE CONTOURS PRODUCED BY MOST RECENT SURVEY BY PARAGON ASSOCIATES ON DECEMBER 27, 2023.
3. GROUNDWATER CONTOURS ARE BASED ON MONITORING WELL STATIC WATER ELEVATIONS SAMPLED BY LA CROSSE COUNTY BETWEEN NOVEMBER 1-7, 2023.

LEGEND:

- 870 — MAJOR GROUND CONTOUR
- MINOR GROUND CONTOUR
- PHASE BOUNDARY
- LIMITS OF WASTE
- PROPERTY LINE
- MW-121 — GROUNDWATER MONITORING WELL
- FLOW DIRECTION
- MW-75 727.53 — STATIC WATER ELEVATION - FT NOVEMBER 1-7, 2023 (PARENTHESIS WHEN INFERRED)
- 728 — MAJOR GROUNDWATER CONTOUR (DASHED WHEN INFERRED)

N

scale 200 0 200 400 feet

SEH Project	LACSW 176666
Drawn By	NRP
Designed By	MAL
Checked By	BLK

Rev.#	Revision Issue Description	Date

Rev.#	Revision Issue Description	Date

SEH
PHONE: 608.782.3161
329 JAY STREET, SUITE 301
LA CROSSE, WI 54601-4034
www.sehinc.com

PLANS PREPARED FOR:

LA CROSSE SOLID WASTE DEPT
3200 BERLIN DRIVE
LA CROSSE, WI 54601

LA CROSSE COUNTY LANDFILL
2023 ANNUAL REPORT

WATER TABLE CONTOUR MAP (NOVEMBER 2023)

1
of 1

Save: 4/8/2024 12:23 PM hpeterson Plot: 4/8/2024 1:32 PM X:\KOI\LLACSW\176666\5-final-dsgn\51-drawings\85-HeavyCiv\2023 ANNUAL REPORT\SHEETS\LA176666_GWC MAP.dwg

E-4 – Environmental Monitoring Device Condition Report

Monitoring Well, Gas Probe, Leachate/Lysimeter, and Leachate Head Well Condition Report - 2024
WDNR License No 3253 - La Crosse County Landfill - La Crosse, WI

Common Point Name	WDNR Well ID	Point Association	Point Labeled Common Name	Point Labeled WDNR ID	Well Cap Present	Well Casing Condition	Protective Casing Condition	Locked	Key Number	Access/Trail condition
Groundwater Monitoring Wells										
MW-3	006	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-3A	032	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-8	033	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-9	034	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-20	039	3253	YES	YES	YES	GOOD	GOOD	YES	A212	GOOD
MW-20A	072	3253	YES	YES	YES	GOOD	GOOD	YES	A212	GOOD
MW-24	040	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-24P	041	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-30	042	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-32	043	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-32P	044	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-33	045	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-33P	046	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-38	049	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-42P	051	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-42R	052	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-54	092	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-54A	094	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-55	024	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-55B	025	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-56	026	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-56B	027	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-57	067	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-57A	068	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-58	069	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-58A	070	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-75	218	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-75A	220	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-76	222	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-76A	224	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-77	079	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-77A	081	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-78	096	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-78A	098	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-82	226	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-82A	228	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-83	230	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-83A	231	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-84	232	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-84A	234	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-118	090	3253	YES	YES	NO	GOOD	GOOD	YES	2121	GOOD
MW-119	236	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-120	238	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-120A	239	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-121	241	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-5R	019	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-64	073	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-65	075	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MW-65R	076	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
Leachate/Lysimeters										
FM-2	451	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
PB-4	456	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
PB-5	458	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
PB-6	460	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
PB-7	462	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
PB-8	464	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MH-7	557	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
MH-8	558	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
L-3	555	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
Gas Probes										
GP-4S	717	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
GP-4D	718	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
GP-7	707	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
GP-8R	709	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
GMW-1	751	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
GMW-2	752	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
GMW-3	753	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
GMW-4	754	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
GMW-5	755	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
Leachate Head Wells										
LHW-8A	658	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
LHW-9A	659	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
LHW-10A	660	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
LHW-1B	670	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
LHW-2B	671	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
LHW-3B	672	3253	YES	NO	YES	GOOD	GOOD	YES	2121	GOOD
LHW-4B	673	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
LHW-5B	674	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
LHW-6B	675	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
LHW-7B	676	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
LHW-8B	677	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
LHW-9B	678	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD
LHW-10B	679	3253	YES	YES	YES	GOOD	GOOD	YES	2121	GOOD

E-5 – Gas Probe Monitoring Data

La Crosse County Solid Waste Department
3200 Berlin Drive La Crosse, Wisconsin 54601
Telephone: (608) 785-9572 • Fax: (608) 785-6160
www.lacrossecounty.org/solidwaste

LA CROSSE COUNTY
Exceptional services. Extraordinary place.

Gas Probe Monitoring Data
2024

Date:	2/9/2024
Barometric Pressure	28.81
(MM of Mercury) Inches X	25.4
Barometric Trend	Steady
Weather Conditions	Cloudy / Windy

Gas Probe ID	GP-4		GP-7	GP-8
DNR ID	717	718	707	709
Pressure (Inches of H20)	0.04	0.05	0.03	0.02
Methane Gas %	0.0	0.0	0.0	0.0
CO2 %	0.1	0.1	2.0	0.2
Oxygen %	21.6	22.1	21.2	22.5
Sample Depth	**12**	**60**	**12**	**12**
Sample Time	9:30 AM	9:35 AM	10:10 AM	10:20 AM

Gas Probe ID	GP-1 (Demo)	GP-2 (Demo)	GP-3 (Demo)	GP-4 (Demo)	GP-5 (Demo)
DNR ID	700	702	704	706	708
Pressure (Inches of H20)	0.58	0.00	0.05	0.00	0.02
Methane Gas %	0.0	0.0	0.0	0.0	0.0
CO2 %	0.1	3.8	5.5	3.2	3.3
Oxygen %	22.5	18.8	16.3	19.7	19
Sample Depth	Top of Well	Top of Well	Top of Well	Top of Well	Top of Well
Sample Time	10:25 AM	10:30 AM	10:45 AM	10:40 AM	10:35 AM

Gas Probe ID	GMW - 1	GMW - 2	GMW - 3	GMW - 4	GMW - 5R
DNR ID	751	752	753	754	755
Pressure (Inches of H20)	0.00	0.00	0.18	0.19	-0.31
Methane Gas %	0.0	0.0	0.0	0.0	0.0
CO2 %	0.1	0.1	0.1	0.1	0.0
Oxygen %	22.4	22.4	22.4	22.4	21.2
Sample Depth	Top of Well	Top of Well	Top of Well	Top of Well	Top of Well
Sample Time	10:00 AM	9:55 AM	9:50 AM	9:45 AM	9:15 AM

Sampled by John Warnecke, Kirk Hackbarth
Comments

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Gas Probe Monitoring Data
2024

Date:	5/22/2024
Barometric Pressure	28.83
(MM of Mercury) Inches X	25.4
Barometric Trend	Steady
Weather Conditions	Partly Cloudy / Windy

Gas Probe ID	**GP-4**		**GP-7**	**GP-8**
DNR ID	717	718	707	709
Pressure (Inches of H20)	-0.24	-0.01	-0.01	-0.04
Methane Gas %	0.0	0.0	0.0	0.0
CO2 %	0.0	0.0	0.0	0.2
Oxygen %	20.6	20.7	20.9	20.8
Sample Depth	**12**	**60**	**12**	**12**
Sample Time	9:55 AM	10:00 AM	10:15 AM	10:20 AM

Gas Probe ID	**GP-1 (Demo)**	**GP-2 (Demo)**	**GP-3 (Demo)**	**GP-4 (Demo)**	**GP-5 (Demo)**
DNR ID	700	702	704	706	708
Pressure (Inches of H20)	0.95	0.00	0.00	-0.01	-0.04
Methane Gas %	0.0	0.0	0.0	0.0	0.0
CO2 %	0.0	2.7	4.3	0.8	2.8
Oxygen %	20.8	17.8	13.9	18.3	17.1
Sample Depth	Top of Well	Top of Well	Top of Well	Top of Well	Top of Well
Sample Time	10:50 AM	10:45 AM	10:25 AM	10:35 AM	10:40 AM

Gas Probe ID	**GMW - 1**	**GMW - 2**	**GMW - 3**	**GMW - 4**	**GMW - 5R**
DNR ID	751	752	753	754	755
Pressure (Inches of H20)	-0.01	0.00	-0.08	-0.21	-0.40
Methane Gas %	0.0	0.0	0.0	0.0	0.0
CO2 %	1.0	0.1	0.0	0.0	0.0
Oxygen %	18.6	20.3	20.3	20.4	20.8
Sample Depth	Top of Well	Top of Well	Top of Well	Top of Well	Top of Well
Sample Time	9:25 AM	9:40 AM	9:45 AM	9:50 AM	10:10 AM

Sampled by John Warnecke, Kirk Hackbarth
Comments

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Gas Probe Monitoring Data
2024

Date:	8/14/2024
Barometric Pressure	29.33
(MM of Mercury) Inches X	25.4
Barometric Trend	Steady - 29.36 end
Weather Conditions	Sunny / Calm

Gas Probe ID	**GP-4**		**GP-7**	**GP-8**
DNR ID	717	718	707	709
Pressure (Inches of H20)	0.22	0.22	0.00	-0.05
Methane Gas %	0.0	0.0	0.0	0.0
CO2 %	0.1	0.1	0.7	8.4
Oxygen %	20.2	20.3	19.9	9.2
Sample Depth	**12**	**60**	**12**	**12**
Sample Time	8:42 AM	8:45 AM	9:16 AM	9:21 AM

Gas Probe ID	**GP-1 (Demo)**	**GP-2 (Demo)**	**GP-3 (Demo)**	**GP-4 (Demo)**	**GP-5 (Demo)**
DNR ID	700	702	704	706	708
Pressure (Inches of H20)	0.13	0.00	0.01	0.00	0.00
Methane Gas %	0.0	0.0	0.0	0.0	0.0
CO2 %	0.3	4.2	5.6	5.1	6.2
Oxygen %	19.2	14.2	10.7	11.3	13.3
Sample Depth	Top of Well	Top of Well	Top of Well	Top of Well	Top of Well
Sample Time	9:46 AM	9:41 AM	9:28 AM	9:34 AM	9:37 AM

Gas Probe ID	**GMW - 1**	**GMW - 2**	**GMW - 3**	**GMW - 4**	**GMW - 5R**
DNR ID	751	752	753	754	755
Pressure (Inches of H20)	0.00	0.00	0.05	0.06	0.16
Methane Gas %	0.0	0.0	0.0	0.0	0.0
CO2 %	0.1	0.1	0.3	0.1	0.1
Oxygen %	20.1	20.3	20.1	20.2	20.2
Sample Depth	Top of Well	Top of Well	Top of Well	Top of Well	Top of Well
Sample Time	9:08 AM	9:05 AM	9:00 AM	8:56 AM	8:53 AM

Sampled by	Bryce Gerke, Kirk Hackbarth
Comments	

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Gas Probe Monitoring Data
2024

Date:	11/11/2024
Barometric Pressure	29.20 - 29.39
(MM of Mercury) Inches X	25.4
Barometric Trend	Increasing
Weather Conditions	Partly Cloudy - Windy

Gas Probe ID	**GP-4**		**GP-7**	**GP-8**
DNR ID	717	718	707	709
Pressure (Inches of H20)	-0.35	-0.35	-0.06	-0.10
Methane Gas %	0.0	0.0	0.0	0.0
CO2 %	0.0	0.0	0.4	0
Oxygen %	21.3	21.4	21.4	21.6
Sample Depth	**12**	**60**	**12**	**12**
Sample Time	1:45 PM	1:50 PM	2:30 PM	2:35 PM

Gas Probe ID	**GP-1 (Demo)**	**GP-2 (Demo)**	**GP-3 (Demo)**	**GP-4 (Demo)**	**GP-5 (Demo)**
DNR ID	700	702	704	706	708
Pressure (Inches of H20)	-0.81	-0.05	-0.20	-0.05	-0.05
Methane Gas %	0.0	0.0	0.0	0.0	0.0
CO2 %	0.0	4.6	2.6	5.4	5.3
Oxygen %	21.5	16.8	16.4	15.6	15.8
Sample Depth	Top of Well	Top of Well	Top of Well	Top of Well	Top of Well
Sample Time	2:50 PM	2:55 PM	2:45 PM	3:10 PM	3:00 PM

Gas Probe ID	**GMW - 1**	**GMW - 2**	**GMW - 3**	**GMW - 4**	**GMW - 5R**
DNR ID	751	752	753	754	755
Pressure (Inches of H20)	-0.07	-0.07	-0.21	-0.28	-0.50
Methane Gas %	0.0	0.0	0.0	0.0	0.0
CO2 %	0.0	0.0	0.0	0.0	0.0
Oxygen %	21.5	21.6	21.7	21.6	21.5
Sample Depth	Top of Well	Top of Well	Top of Well	Top of Well	Top of Well
Sample Time	2:25 PM	2:20 PM	2:15 PM	2:10 PM	2:00 PM

Sampled by	John Warnecke, Kirk Hackbarth
Comments	

Appendix F

Leachate Collection and Recirculation

Appendix F

Leachate Collection and Recirculation

F-1 – Leachate Jetting Report
F-2 – Annual Manhole Inspections

F-1 – Leachate Jetting Report

La Crosse County Landfill 2024
MSW Leachate Lines

Contractor: Speedy Clean Inc.
Crew Size: 5
Equipment Used: Trailer jet, jet cam, pickup w/ water tank

From	To	Date Jetted	Pipe Size	Pipe Length (ft)	Water Jet (ft.)	TV Length (ft)	Comments:
CO 8B	CO 8A	6/24/2024	6	1415	800		Passed through without issue
CO 7B	CO 7A	6/24/2024	6	1370	800		Passed through without issue
CO 6B	CO 6A	6/24/2024	6	1352	800		Passed through without issue
CO 5A	CO 5C	6/24/2024	6	975	800		Passed through without issue
CO 5C	CO 5A	6/24/2024	6	975	250		Passed through without issue
CO 5G	CO 5D	6/24/2024	6	705	600		Passed through without issue
CO 5D	CO 5G	6/24/2024	6	705	200		Passed through without issue
CO 5L	MH-10	6/24/2024	6	455	500		Passed through without issue
CO 5B	CO 5F	6/24/2024	6	450	450		Passed through without issue
CO 4B	CO 4A	6/24/2024	6	1070	650	500	Passed through without issue
MH-9, CO 3B	CO 3A	6/24/2024	6	1092	600	530	Passed through without issue
MH-9, CO 3L	MH-10	6/24/2024	6	240	600		Passed through without issue
MH-8, CO 5E	JMH-3, CO 7E	6/24/2024	6	458	250		Hit a blockage at 250'
MH-8, CO 4E	CO 2E	6/24/2024	6	1355	700		Passed through without issue

MH-8, CO 2B	CO 2A	6/24/2024	6	1083	120		Hit blockage at 120'. Couldn't pass through pipe.
MH-7, CO 3E	CO 1E	6/24/2024	6	1100	600		Passed through without issue
MH-13, CO 1C	CO 1B	6/24/2024	6	1100	600	600	Passed through without issue
MH-13, CO 1D	CO 1A	6/24/2024	6	1100	600	600	Passed through without issue
CO 1A	MH-13, CO 1D	6/24/2024	6	1100	600	550	Passed through without issue
CO 1E	MH-7, CO 3E	6/24/2024	6	1100	600		Passed through without issue
CO 2E	MH-8, CO 4E	6/24/2024	6	1355	600		Passed through without issue
CO 1B	MH-13, CO 1C	6/24/2024	6	1100	600	550	Passed through without issue
CO 6A	CO 6B	6/24/2024	6	1352	700		Passed through without issue
LD-3	JMH-1	6/24/2024	6	667	675		Jetted starting at LD-3 through LD-2 & LD-1 ending at JMH-1. Passed through without issue
CO 7A	CO 7B	6/24/2024	6	1370	700		Passed through without issue
CO 8A	CO 8B	6/24/2024	6	1415	750		Passed through without issue
CO 4A	CO 4B	6/24/2024	6	1070	650	620	Passed through without issue
CO 3A	MH-9, CO 3B	6/24/2024	6	1092	650	600	Passed through without issue
CO 2A	MH-8, CO 2B	6/24/2024	6	1083	570	500	Hit blockage at 570'
CO 1F	MH 13	6/24/2024	6	205	175		Very heavy mineral buildup. Used 1300 gallons of water. Did not pass through
JMH-3, CO 6E	MH 7	6/25/2024	6	265	265		Heavy mineral, used a rotating nozzle to pass through.
JMH-3, CO 7E	MH 8	6/25/2024	6	402	410		Passed through without issue

JMH 4D	Through JMH 2 to CO 1F	6/25/2024	6	50	60		Passed through without issue
JMH-1	LD 4	6/24/2024	6	500	550		Passed through without issue
JMH 2, CO FM-1	LD 4	6/25/2024	6	653	700		Passed through without issue
JMH 4B	Through MH-8 to MH-9	6/25/2024	6	458	500		Passed through without issue
JMH 4C	JMH 3	6/25/2024	8	100	100		Passed through without issue
FM 2	JMH 4	6/25/2024	8	100	125		Passed through without issue
MH 11	FM 2	6/25/2024	8	75	75		Passed through without issue
Load out Pad	JMH-4	6/25/2024	6	100	100		Passed through without issue

La Crosse County Landfill 2024
Ash Demo Leachate Lines

Contractor: Speedy Clean Inc.
Crew Size: 5
Equipment Used: Trailer jet, jet cam, pickup w/ water tank

From	To	Date Jetted	Pipe Size	Pipe Length (ft)	Comments:
CO 3L	CO 2L	6/24/2024	6	200	Passed through without issue
CO 3A	CO 3B	6/24/2024	6	635	Passed through without issue
CO 2L	CO 1L	6/24/2024	6	200	Passed through without issue
CO 2A	CO 2B	6/24/2024	6	635	Passed through without issue
CO 1L	LS	6/24/2024	6	65	Passed through without issue
CO 1A	CO 1B	6/24/2024	6	635	Passed through without issue

La Crosse County Landfill 2024
Ash Mono Leachate Lines

Contractor: Speedy Clean Inc.
Crew Size: 5
Equipment Used: Trailer jet, jet cam, pickup w/ water tank

From	To	Date Jetted	Pipe Size	Pipe Length (ft)	Comments:
CO 4B	CO 5B	6/24/2024	6	575	Passed through without issue
CO 1B	CO 2B	6/24/2024	6	460	Passed through without issue
CO 3B	CO 6B	6/24/2024	6	405	Passed through without issue

F-2 – Annual Manhole Inspections

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Monthly Landfill Inspections
2024

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Date	Capped Surface *Condition	MH Inspections	Scale Inspection	Others/ Comments
1/24/2024	BG/JW	BG/JW	BG	
2/26/2024	BG/JW	BG/JW	BG/JW	
3/28/2024	BG/JW	BG/JW	BG/JW	
4/30/2024	BG	BG/JW	BG	
5/24/2024	BG/JW	BG/JW	BG/JW	Ash Monofill Capping in progress.
6/27/2024	BG/JW	BG/JW	BG/JW	Ash Monofill Capping in progress.
7/31/2024	BG/JW	BG/JW	BG/JW	Ash Monofill Capping in progress.
8/30/2024	BG/JW	BG/JW	BG/JW	Ash Monofill Capping in progress.
9/30/2024	BG/JW	BG/JW	BG/JW	Ash Monofill Capping in progress.
10/23/2024	BG/JW	BG/JW	BG/JW	Data entered from LHW Sheet JD
11/15/2024	BG/JW	BG/JW	BG/JW	Data entered from LHW Sheet JD
12/31/2024	BG/JW	BG/JW	BG/JW	

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Annual Manhole Inspection
10/23/2024

	Name	Valves (conditon)	Piping	Hardware	Latch and Lock*	Signage	Liquid*	Other
CLOSED DEMO	Demo Lift Station	N/A	Ok	Ok	Ok	Needs Replacing	Yes	
	Demo MH-1	Valve stem rusty	Ok	Slight corrosion	Ok	Ok	Yes	Needs new valve dial
	Demo MH-2	Ok	Ok	Ok	Ok	Ok	Yes	
	Demo MH-3	Ok	Ok	Ok	Ok	Ok	Yes	
	Demo CO-MH	N/A	Ok	Ok	Ok	Ok	N/A	Remove old sticker
G2E	Condensate MH by Flare	N/A	Ok	Medium corrosion	Ok	Ok	No	
	JMH-1	N/A	Ok	Slight corrosion	Ok	Needs Replacing	Yes	
	VMH	Ok	Ok	Ok	Ok	Ok	Yes	
BACK40	DL-2	N/A	Ok	Slight corrosion	Ok	Ok	Yes	
	FM-1	N/A	Ok	Ok	Ok	Ok	No	
	FM-2	N/A	Ok	Ok	Ok	Ok	Yes	
	JMH-2	N/A	Ok	Medium corrosion	Ok	Ok	Yes	BEING REPAIRED/REPLACED.
	JMH-3	N/A	Ok	Ok	Ok	Ok	Yes	Needs pumping
	JMH-4	N/A	Ok	Ok	Needs repair	Ok	Yes	
	LD-4	N/A	Ok	Ok	Ok	Needs Replacing	Yes	
	Loadout Drop Inlet manhole	N/A	Ok	Ok	N/A	N/A	No	
	MH-7	Ok	Ok	Ok	Ok	Ok	Yes	
	MH-8	Ok	Ok	Slight corrosion	Ok	Ok	Yes	Remove old sticker
	MH-9	Rusty	Ok	Heavy corrosion	Ok	Ok	Yes	BEING REPAIRED/REPLACED.
	MH-10	N/A	Ok	Med./Heavy corrosion	Ok	Needs Replacing	Yes	BEING REPAIRED/REPLACED.
	MH-11	N/A	Ok	Ok	N/A	N/A	No	Does this need signage?
	MH-13	Ok	Ok	Ok	Ok	Ok	Yes	
MAINTENANCE	LD-1	N/A	Ok	Slight corrosion	Ok	Ok	No	Remove old sticker
	LD-2	N/A	Ok	Med./Heavy corrosion	Ok	Needs Replacing	Yes	BEING REPAIRED/REPLACED.
	LD-3	N/A	Ok	Heavy Corrosion	Ok	Needs Replacing	Yes	BEING REPAIRED/REPLACED.

Notes:
Almost all secondary gaskets are gone or were removed

Appendix G

Research, Development and Demonstration

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MEMORANDUM

TO: Jadd Stilwell, Solid Waste Director
Jackie Davis, Operations Manager

FROM: Ryan Shimko, PE (Lic. GA, IN, KY, TN, WI)

DATE: February 7, 2025

RE: CY 2024 Annual Reporting for the RD&D Plan, Leachate Recirculation Plan, & Organic Stability Plan – La Crosse County Landfill (Lic. #3253)
SEH No. 183109

This memorandum and the attached tables and figures are provided to address the approval conditions summarized in the table below. These approval conditions are related to the approved Research Development and Demonstration Plan (RD&D) latest renewal, Leachate Recirculation Plan (LRP), and Organic Stability Plan (OSP). Since the OSP, RD&D Plan, and LRP utilize the same general methods and share the same goal of increasing the moisture content of the waste to promote organic stability, evaluation of the progress for each are monitored in conjunction with one another.

Cond. No.	Condition Description
May 24, 2023 Conditional Plan of Operation Approval for the La Crosse County Landfill Phase 2 North Expansion	
41u	The annual report for leachate recirculation in accordance with s. NR 506.135(5), Wis. Adm. Code including a summary and tabulation of monitoring required within ss. NR 507.215(1) – (4), Wis. Adm. Code.
41v	An evaluation of the performance and a report of the implemented landfill organic stability plan as required by s. NR 514.07(9)(d), Wis. Adm. Code.
41x	An annual report in accordance with the approved research, development, and demonstration plan and s. NR 514.10(1)(f), Wis. Adm. Code.
August 2, 2022 Conditional Plan of Operation Modification Request for RD&D Plan Renewal (2nd Renewal)	
5	Waste samples shall be removed at 20-foot intervals from gas extraction well boreholes in areas subject to liquid addition or leachate recirculation. The waste samples shall be analyzed for moisture content on a wet weight basis, wet and dry weight. The elevation of any standing leachate levels in the borings shall be recorded. Results of the testing shall be included in the construction documentation report for the gas well installation and reported in the RD&D annual report(s).
8b	The geotechnical stability analysis as required by s. NR 514.10(2)(h); Wis. Adm. Code shall be submitted as part of the final 3-year report for each testing period. The updated geotechnical stability analysis shall use data gathered during the RD&D test period to include updated estimates of waste density, moisture content date for the waste and the volume/weight of liquids added to the waste.
8c	Annual and final reports shall include data for samples taken from borings conducted in areas subject to liquids addition.

8d	Annual and final reports shall include the monthly amount of liquids addition and the liquid mass balance for each phase, including leachate extracted, leachate recirculated, liquids added, and precipitation.
8e	Annual and final reports shall include graphs showing the volumes of leachate extracted and recirculated, liquids addition, and precipitation received for each leachate drainage basin.

The table below summarizes the pertinent chapters and sections of NR 500 referenced in the above conditions and the location in this memorandum where the data/information can be found.

Code Reference	Requirement	Location in Memo
NR 506.135(5)(a) NR 507.215(1)	Liquid Mass Balance	"Liquid Mass Balance Data" Table G-1 & Figure G-1
NR 506.135(5)(b) NR 507.215(2)	Leachate Head Levels	"Monthly Leachate Head Levels" Table G-2
NR 506.135(5)(c)	Liquid Mass Balance Graphs	Figure G-1
NR 506.135(5)(d) NR 507.215(3)	Leachate chemistry data	"Leachate Quality Monitoring Data" Figures G-2 through G-9
NR 506.135(5)(e)	Summary of warning symptoms, terminations, failure thresholds	"Summary of Warning Symptoms and Terminations"
NR 507.215(4) NR 507.215(4)(a)	Landfill gas data Assessment of liquid in each gas well	"Landfill Gas" "Landfill Gas Extraction Well Assessment"
NR 506.135(5)(f)	Leachate collection and conveyance system modifications	"Leachate Collection and Conveyance System Modifications"
NR 514.10(1)(f)	RD&D Plan	"Leachate Recirculation and RD&D Reporting"
NR 514.07(9)(d)	OSP Evaluation	"Organic Stability Plan Evaluation"

BACKGROUND

In 2012, the La Crosse County (County) began leachate recirculation in response to the OSP rule legislation. During 2016, the County developed and received approval for implementation of a RD&D Plan to apply additional liquids other than leachate generated onsite to the waste mass. Application of additional liquids enables the County to improve efficiency, reduce cost, and increase moisture content of the waste to help achieve organic stability. Additionally, acceptance of Vernon County leachate provides a low-cost leachate management alternative for Vernon County. No other liquid wastes besides Vernon County Landfill leachate are accepted for additional liquids application under the RD&D Plan. For reporting purposes, reference to "leachate recirculation" is used to describe application of leachate generated from onsite to the waste whereas "RD&D liquid" is used to describe application of Vernon County Landfill leachate, and "liquid application" refers generally to both liquid sources.

LEACHATE RECIRCULATION AND RD&D REPORTING

This section addresses the annual reporting requirements for leachate recirculation and RD&D liquid application per NR 506.135(5) and NR 507.215(1) through (4).

Liquid Mass Balance Data

During 2024, RD&D liquids accounted for all the additional liquids (leachate recirculation and RD&D liquids) added to the waste mass. No leachate generated from onsite was recirculated. RD&D liquid added continues to consist only of Vernon County Landfill leachate. RD&D liquid application continues to be by surface application only.

Currently, liquid application is only approved to occur in Phases VI, VII, and VIII within the required setbacks and where a minimum 20-feet thick layer of waste exists. Although liquid application is approved for Phase VI, most of the liquid application occurs in Phases VII and VIII. In 2024, liquid application occurred exclusively in Phase VII. Table G-1 contains the liquid mass balance for each drainage basin where liquid application is approved to occur, and Figures G-1A through G-1D graphically illustrate the liquid mass balance for each drainage basin.

Monthly Leachate Head Levels

Table G-2 summarizes the monthly leachate head measurements collected from the leachate headwells in each drainage basin where leachate recirculation and/or RD&D liquid application are approved. During 2024, leachate head elevations in these drainage basins were maintained at 1-foot or less except in Phase VI between May to June at LHW-1B (low end of Phase VI) where leachate head measurements ranged from 2.0-ft to 2.2-feet in depth. These slight exceedances in Phase VI are due to significant rainfall experienced between April through July in CY2024. Rainfall depths experienced over these months can be seen in Table G-1. Leachate head levels returned to compliance from July onward.

Leachate Quality Monitoring Data

Graphs over the time period since leachate recirculation was initiated for each parameter required to be sampled in NR 507.215(3) are provided in Figures G-2 through G-9. Figures G-2 through G-9 contain the laboratory analytical data over time since 2012 for parameters VOC, BOD, COD, ammonia nitrogen, field pH, field specific conductance, alkalinity, and hardness. The leachate sampling location presented on these figures is GEMS Point ID 451 which represents the former leachate collection tank location and is now the present-day flow monitoring manhole FM-2. This sampling location includes leachate from all phases of the landfill prior to its discharge to the direct connection with the sanitary sewer.

Generally, concentrations for most parameters are within typical ranges experienced since leachate recirculation began. COD, ammonia nitrogen, and alkalinity appear to have a slight increasing trend beginning around 2018 to 2019. More recently, however, alkalinity, COD, and ammonia nitrogen concentrations have been decreasing. VOC concentrations have been relatively stable with less data fluctuation occurring since approximately 2019 compared to the initial years of liquids application. BOD appears to maintain a consistent cyclical variability each quarter. Similarly, hardness experiences cyclical variability, however the range between high and low concentrations experienced has increased since approximately 2019. Specific conductance and pH have remained relatively steady within typical ranges.

Landfill Gas

LFG monitoring within the liquids application area has been conducted almost exclusively at horizontal supplemental temporary odor control (STOC) wells. LFG wells are monitored monthly. Additionally, the bulk of liquids addition occurs in Phases VII and VIII. This has resulted in the LFG quality being greatest (i.e., ≥40% methane by volume) for combustion at STOCs within Phases VII and VIII (STOC 7 through STOC 16), with a few exceptions. STOC 7, 13, and 15 continue to have low gas quality. Similarly, STOC's 4, 5, and 6 also experienced low gas quality. It's difficult to discern cause for lower gas quality at these wells. Several factors could influence these wells including age of waste, waste type (i.e., C&D and other inert wastes), etc. that may be causes for lower gas quality. STOC's 1, 2, 3, and Phase VII leachate cleanout (LCO) east have also experienced high gas quality in 2024 particularly STOC 1 which averaged >50% methane throughout the year. Figure G-10 contains the average methane concentration by volume and the maximum/minimum range of methane measured for each well within the liquid application area in 2024. The total volume of LFG collected and converted to energy or combusted onsite in the flare is provided in Section 5.5 of the annual report.

Landfill Gas Extraction Well Assessment

Currently, there are 24 vertical landfill gas extraction wells installed in the landfill (GW-1 through GW-17, GW-19 through GW-22, GW-26, GW-27, and GW-33). Of which, only two (GW-22 and GW-33) are installed within the area where liquid application is approved. As part of monthly gas well monitoring, liquid levels are assessed to evaluate if well screens are blocked and may require leachate pumping. Refer to section 5.4 and Appendix D of the annual report for an assessment of vertical gas extraction wells.

Waste Sampling Data from Gas Extraction Well Installation

No waste samples were collected in 2024 as no vertical gas extraction wells were installed.

Geotechnical Stability Analysis

A geotechnical stability analysis will be conducted as part of the final 3-year report for the RD&D Plan's current test period. The final report will be forthcoming in CY 2025 and concurrently include a request for renewal of the RD&D Plan.

Summary of Warning Symptoms and Terminations

No warning symptoms, failure thresholds, or terminations were observed/performed due to liquids application in 2024.

Leachate Collection and Conveyance System Modifications

No modifications to the leachate collection and conveyance system occurred in 2024.

ORGANIC STABILITY PLAN EVALUATION

NR 514.07(9)(d) requires a landfill owner or operator to continually evaluate the performance of the implemented landfill OSP, and report progress, results, changes in waste composition and problems to the WDNR no less frequently than annually. The following includes an annual evaluation of the April 2022 OSP approved as part of the Phase 2 North Expansion Plan of Operation. The 5-year update as required by NR 514.07(9)(e) is anticipated to be completed as part of the CY 2027 annual report.

Progress Report

The approach outlined in the April 2022 OSP to decrease the time required for the landfill to achieve organic stability involves:

- Increase the moisture content in the waste mass to increase the waste degradation rate.
- Evaluate the potential to divert additional organics from the landfill.
- Controlled placement and waste type segregation.

Moisture Addition

The County implements moisture addition using leachate recirculation and RD&D liquid application. In recent years, use of RD&D liquids comprises 100% of the additional liquids added to the waste for purposes of increasing waste moisture content and waste degradation rate. The County received approval of its 2nd renewal for the RD&D Plan in August 2022. RD&D liquids are applied using the methods outlined in the LRP.

Since implementation of the RD&D Plan, nearly 3 million gallons of additional liquids have been added to the waste mass in Phases VII and VIII. Table G-3 summarizes the quantity of additional liquids added to

the waste mass and precipitation experienced since approval of the initial RD&D plan. The amount of liquids that can be added to the waste are dictated by a variety of factors including the amount of precipitation received, area available for liquids application that meets setback and waste depth requirements, suitable slopes and conditions of the active working face, odor concerns, moisture content of incoming waste, leachate head level compliance, access issues, and other operational constraints. Overall, liquids application continues to be a feasible means to add moisture to the waste mass. Moisture levels of the waste mass are monitored during vertical gas extraction well installation. However, none were installed in 2024. Overall, the quantity of additional liquids added to the waste is small compared to precipitation.

Organics Diversion

The County implements the following practices to reduce the amount of degradable organic materials in the waste stream.

- Diversion of MSW to Xcel Energy's refuse derived fuel (RDF) plant
- Yard waste composting
- Wood waste recycling
- Sources separated organics (SSO) composting pilot program.

Xcel Energy RDF Plant

In 2024, 84,449 tons of MSW collected from the La Crosse County Solid Waste system were diverted to the Xcel Energy RDF plant at French Island resulted in 63,376 tons of MSW converted to electricity. This accounts for approximately 51% of the La Crosse County MSW that would otherwise be placed in the landfill. Waste delivered to the RDF plant is processed prior to production into RDF. During processing, ferrous and non-ferrous metals are recovered for recycling and items not suitable for RDF are separated for later transport to the landfill. Typically, rejected material consists of bulky items and the heavy fraction of MSW (glass, rocks, wet organics). Although the rejected MSW material contains degradable organic material, its organic content is presumably less than MSW that has not undergone processing and would otherwise be directly landfilled.

Yard Waste Composting

The County collects yard waste to divert from landfilling and assist its users in maintaining compliance with the yard waste disposal ban. In 2024, approximately 219 tons of yard waste were diverted from landfilling. Yard waste is later transported to Green Earth composting where it is mixed with other organics to produce a soil amendment.

Wood Waste Recycling

Wood waste continues to be diverted from landfilling and processed into wood chips for a fuel supplement at Xcel Energy RDF plant or is used for operations at the MSW facility. Wood waste accepted includes pallets, crates, tree trunks and branches from storm debris cleanup or trimming operations. In 2024, approximately 2,793 tons of brush, wood, and wood chips were received and diverted at the facility.

SSO Composting Program

In 2020, the City of La Crosse partnered with Recycling Connections and ordered fifty home composting bins to be available for local municipalities to purchase and distribute. These home composting bins allow residents to make compost in their own backyard. Composting at the residential level has many benefits including minimizing contamination with non-compostable material as compared to the commercially

scaled operations, environmentally friendly way to replenish soil, and provides a way for residents to manage yard waste, which is banned from landfill disposal, in a beneficial manner. The City of La Crosse has engaged the County for support in developing the program and discussions are ongoing how to expand the program. Generally, interest and reception of the pilot program has been positive, and residents continue to push for access to composting. The County continues to offer home composters to area residents.

The County continues to evaluate opportunities to increase diversion of organics including food waste which would further promote organic stability of the landfill. Continuation of these efforts when feasible is recommended.

Controlled Placement & Waste Type Segregation

As feasible, the County segregates C&D waste, MSW, combustor ash and asbestos waste into separate disposal areas within the MSW landfill. The purpose of segregating waste disposal areas by waste type is to concentrate organic stability efforts and optimize LFG collection. Wastes that are inert or contain little to no organic content (i.e., ash, asbestos, C&D) are placed in the older landfill phases above the relocated waste that is aged and largely degraded. The majority of the MSW portion is placed in Phases VII and VIII which contain a stone drainage layer to support additional liquids application.

Waste Composition

No significant changes to the composition of incoming waste have been experienced. In 2024, the major waste streams continue to be MSW including Xcel reject material (31% Cat 1 and 14% Cat 31), C&D (24%), combustor ash residue (8%), and high volume industrial waste (9%). Wastes considered degradable and thus targeted by the OSP make up between 50% to 60% of the incoming waste. This has consistently been the case since 2005. Over the past three years, the composition of degradable waste has been near the lower end of this range at 53% on average. Table G-4 contains a waste composition summary dating back to 1992. Waste data originates from WDNR tonnage reports and internal La Crosse County records for the current reporting year. The quantity of wastes such as POTW sludges and treated contaminated soils fluctuate year to year, but still make up only a minor component of the overall waste stream.

Problems and Proposed Changes

No significant problems associated with organic stability implementation occurred in 2024. Additionally, no changes to the OSP approach are proposed at this time. Odors are an operational side effect that require attention particularly if noticeable offsite. The County continues to implement STOC wells in the active filling areas, inject STOC wells with an odor control agent as needed to reduce odors, and maintain adequate daily and intermediate cover.

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Attachments
Table G-1 Liquid Mass Balance
Table G-2 Monthly Leachate Headwell Measurements
Table G-3 Leachate Application Summary
Table G-4 Waste Composition
Figure G-1A Liquid Mass Balance for Calendar Year 2024 – Phase VI
Figure G-1B Liquid Mass Balance for Calendar Year 2024 – Phase VII
Figure G-1C Liquid Mass Balance for Calendar Year 2024 – Phase VIII
Figure G-1D Liquid Mass Balance for Calendar Year 2024 – Total Phases VI through VIII
Figure G-2 NR 507 VOC Appendix III – GEMS Point ID 451

Figure G-3 Biochemical Oxygen Demand (mg/L, 5 Day – 20 Deg. C) – GEMS Point ID 451
Figure G-4 Chemical Oxygen Demand, Unfiltered (mg/L) – GEMS Point ID 451
Figure G-5 Nitrogen, Ammonia, Total (mg/L as N) – GEMS Point ID 451
Figure G-6 pH, Field (Standard Units) – GEMS Point ID 451
Figure G-7 Specific Conductance, Field (umho/cm @ 25 C) – GEMS Point ID 451
Figure G-8 Alkalinity, Total (mg/L as CaCO3) – GEMS Point ID 451
Figure G-9 Hardness, Total (mg/L as CaCO3) – GEMS Point ID 451
Figure G-10 Methane Concentration of Wells in Liquid Application Area in 2024

Tables

Table G-1
Liquid Mass Balance
2024 Annual Report
La Crosse County Landfill (Lic. #3253)

Drainage Basin[1]:	Phase VI					Phase VII				
Basin Area Open[2] (acres):	7.09					6.98				
GEMS Point ID[3]	460 PB-6 (P6 Pump)					462 PB-7 (P7 Pump)				
Inflows & Outflows:	Leachate Extracted	Leachate Recirculated[4]	RD&D Liquids Added	Precipitation		Leachate Extracted	Leachate Recirculated[4]	RD&D Liquids Added	Precipitation	
Date	Gallons	Gallons	Gallons	Inches	Gallons	Gallons	Gallons	Gallons	Inches	Gallons
Jan-24	49,153	0	0	1.16	223,312	47,453	0	0	1.16	219,848
Feb-24	45,848	0	0	0.28	53,903	52,798	0	5,279	0.28	53,067
Mar-24	47,562	0	0	1.86	358,070	42,074	0	0	1.86	352,514
Apr-24	50,877	0	0	4.26	820,095	82,000	0	0	4.26	807,371
May-24	44,235	0	0	6.71	1,291,746	163,372	0	0	6.71	1,271,704
Jun-24	88,228	0	0	5.14	989,504	150,404	0	0	5.14	974,152
Jul-24	96,313	0	0	5.42	1,043,407	271,410	0	0	5.42	1,027,219
Aug-24	102241	0	0	3.79	729,615	132,756	0	5,269	3.79	718,295
Sep-24	104,558	0	0	1.94	373,470	91,372	0	0	1.94	367,676
Oct-24	93,956	0	0	2.34	450,475	79,024	0	0	2.34	443,486
Nov-24	86,462	0	0	3.36	646,835	102,113	0	0	3.36	636,800
Dec-24	90,743	0	0	1.36	261,814	87,885	0	0	1.36	257,752
2023 Total	**900,176**	**0**	**0**	**37.62**	**7,242,246**	**1,302,661**	**0**	**10,549**	**37.62**	**7,129,884**

Notes:

(1) Drainage basin reflects the areas where leachate recirculation and/or RD&D liquids application occurs. Basins where these activities do not occur are not listed.

(2) Basin area open reflects the amount of basin (or phase) area open for waste filling and not under final cover. This area does not take into account intermediate cover.

(3) Represents the point where leachate extraction is measured (i.e., pump building of each phase). GEMS Point ID and description provided.

(4) Leachate recirculation represents amount of leachate generated from onsite that is recirculated back into the waste mass.

(5) Precipitation volume represents the monthly total of rain multipled by the basin area open. No runoff, evaporation, evapotranspiration, or waste absorption assumptions are applied. Precipitation data obtained from the National Weather Service: https://www.weather.gov/wrh/Climate?wfo=arx

Table G-1
Liquid Mass Balance
2024 Annual Report
La Crosse County Landfill (Lic. #3253)

Drainage Basin[1]:	Phase VIII					Phase VI, VII, VIII				
Basin Area Open[2] (acres):	9.58					23.65				
GEMS Point ID[3]	464 PB-8 (P8 Pump)					Total Leachate Extracted	Total Leachate Recirculated[4]	Total RD&D Liquids Added	Total Precipitation[5]	
Inflows & Outflows:	Leachate Extracted	Leachate Recirculated[4]	RD&D Liquids Added	Precipitation						
Date	Gallons	Gallons	Gallons	Inches	Gallons	Gallons	Gallons	Gallons	Inches	Gallons
Jan-24	107,133	0	0	1.16	301,739	203,739	0	0	1.16	744,899
Feb-24	99,002	0	0	0.28	72,834	197,648	0	5,279	0.28	179,803
Mar-24	90,526	0	0	1.86	483,823	180,162	0	0	1.86	1,194,407
Apr-24	199,801	0	0	4.26	1,108,111	332,678	0	0	4.26	2,735,577
May-24	252,016	0	0	6.71	1,745,405	459,623	0	0	6.71	4,308,855
Jun-24	208,841	0	0	5.14	1,337,017	447,473	0	0	5.14	3,300,673
Jul-24	358,779	0	0	5.42	1,409,850	726,502	0	0	5.42	3,480,476
Aug-24	185,476	0	0	3.79	985,855	420,473	0	5,269	3.79	2,433,765
Sep-24	134,906	0	0	1.94	504,633	330,836	0	0	1.94	1,245,779
Oct-24	113,434	0	0	2.34	608,681	286,414	0	0	2.34	1,502,641
Nov-24	171,697	0	0	3.36	874,003	360,272	0	0	3.36	2,157,638
Dec-24	148,915	0	0	1.36	353,763	327,543	0	0	1.36	873,330
2023 Total	**2,070,526**	**0**	**0**	**37.62**	**9,785,714**	**4,273,363**	**0**	**10,549**	**37.62**	**24,157,843**

Notes:

(1) Drainage basin reflects the areas where leachate recirculation and/or RD&D liquids application occurs. Basins where these activities do not occur are not listed.

(2) Basin area open reflects the amount of basin (or phase) area open for waste filling and not under final cover. This area does not take into account intermediate cover.

(3) Represents the point where leachate extraction is measured (i.e., pump building of each phase). GEMS Point ID and description provided.

(4) Leachate recirculation represents amount of leachate generated from onsite that is recirculated back into the waste mass.

(5) Precipitation volume represents the monthly total of rain multipled by the basin area open. No runoff, evaporation, evapotranspiration, or waste absorption assumptions are applied. Precipitation data obtained from the National Weather Service: https://www.weather.gov/wrh/Climate?wfo=arx

Table G-2
Monthly Leachate Headwell Measurements
2024 Annual Report
La Crosse County Landfill (Lic. #3253)

January

Facility ID/WDNR Point and Well No.	Monitoring Location Description	Northing	Easting	Top of Well Casing Elevation ft	Elevation at Screen ft	Length of Well Casing to Floor of Landfill ft	Date Measured	Depth to Liquid, ft	Liquid Elevation ft	Leachate Head ft
#3253 / 670 LHW-1B	Phase VI - Low End	156,239	469,493	782.8	761.7	67	1/24/2024	64.1	762.6	**0.9**
#3253 / 671 LHW-2B	Phase VI - High End	156,357	470,843	823.8	773.4	165	1/24/2024	165	773.4	**0**
#3253 / 672 LHW-3B	Phase VII - Low End	156,605	469,483	782.3	761.8	66	1/24/2024	66	761.8	**0**
#3253 / 673 LHW-4B	Phase VII - High End	156,446	470,834	821.8	773.3	154.7	1/24/2024	154.7	773.3	**0**
#3253 / 674 LHW-5B	Phase VIII - Low End	156,868	469,477	783.8	746.8	118.9	1/24/2024	118.9	746.8	**0**
#3253 / 675 LHW-6B	Phase VIII - High End	156,740	470,837	823.8	756.9	210.1	1/24/2024	210.1	756.9	**0**

February

Facility ID/WDNR Point and Well No.	Monitoring Location Description	Northing	Easting	Top of Well Casing Elevation ft	Elevation at Screen ft	Length of Well Casing to Floor of Landfill ft	Date Measured	Depth to Liquid, ft	Liquid Elevation ft	Leachate Head ft
#3253 / 670 LHW-1B	Phase VI - Low End	156,239	469,493	782.8	761.7	67	2/23/2024	65	762.3	**0.6**
#3253 / 671 LHW-2B	Phase VI - High End	156,357	470,843	823.8	773.4	165	2/23/2024	165	773.4	**0**
#3253 / 672 LHW-3B	Phase VII - Low End	156,605	469,483	782.3	761.8	66	2/23/2024	66	761.8	**0**
#3253 / 673 LHW-4B	Phase VII - High End	156,446	470,834	821.8	773.3	154.7	2/23/2024	154.7	773.3	**0**
#3253 / 674 LHW-5B	Phase VIII - Low End	156,868	469,477	783.8	746.8	118.9	2/23/2024	118.9	746.8	**0**
#3253 / 675 LHW-6B	Phase VIII - High End	156,740	470,837	823.8	756.9	210.1	2/23/2024	210.1	756.9	**0**

Table G-2
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La Crosse County Landfill (Lic. #3253)

March

Facility ID/WDNR Point and Well No.	Monitoring Location Description	Northing	Easting	Top of Well Casing Elevation ft	Elevation at Screen ft	Length of Well Casing to Floor of Landfill ft	Date Measured	Depth to Liquid, ft	Liquid Elevation ft	Leachate Head ft
#3253 / 670 LHW-1B	Phase VI - Low End	156,239	469,493	782.8	761.7	67	3/28/2024	64	762.6	**0.9**
#3253 / 671 LHW-2B	Phase VI - High End	156,357	470,843	823.8	773.4	165	3/28/2024	165	773.4	**0**
#3253 / 672 LHW-3B	Phase VII - Low End	156,605	469,483	782.3	761.8	66	3/28/2024	66	761.8	**0**
#3253 / 673 LHW-4B	Phase VII - High End	156,446	470,834	821.8	773.3	154.7	3/28/2024	154.7	773.3	**0**
#3253 / 674 LHW-5B	Phase VIII - Low End	156,868	469,477	783.8	746.8	118.9	3/28/2024	118.9	746.8	**0**
#3253 / 675 LHW-6B	Phase VIII - High End	156,740	470,837	823.8	756.9	210.1	3/28/2024	210.1	756.9	**0**

April

Facility ID/WDNR Point and Well No.	Monitoring Location Description	Northing	Easting	Top of Well Casing Elevation ft	Elevation at Screen ft	Length of Well Casing to Floor of Landfill ft	Date Measured	Depth to Liquid, ft	Liquid Elevation ft	Leachate Head ft
#3253 / 670 LHW-1B	Phase VI - Low End	156,239	469,493	782.8	761.7	67	4/30/2024	65	762.3	**0.6**
#3253 / 671 LHW-2B	Phase VI - High End	156,357	470,843	823.8	773.4	165	4/30/2024	164	773.7	**0.3**
#3253 / 672 LHW-3B	Phase VII - Low End	156,605	469,483	782.3	761.8	66	4/30/2024	66	761.8	**0**
#3253 / 673 LHW-4B	Phase VII - High End	156,446	470,834	821.8	773.3	154.7	4/30/2024	154.7	773.3	**0**
#3253 / 674 LHW-5B	Phase VIII - Low End	156,868	469,477	783.8	746.8	118.9	4/30/2024	118.9	746.8	**0**
#3253 / 675 LHW-6B	Phase VIII - High End	156,740	470,837	823.8	756.9	210.1	4/30/2024	210.1	756.9	**0**

Table G-2
Monthly Leachate Headwell Measurements
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La Crosse County Landfill (Lic. #3253)

May

Facility ID/WDNR Point and Well No.	Monitoring Location Description	Northing	Easting	Top of Well Casing Elevation ft	Elevation at Screen ft	Length of Well Casing to Floor of Landfill ft	Date Measured	Depth to Liquid, ft	Liquid Elevation ft	Leachate Head ft
#3253 / 670 LHW-1B	Phase VI - Low End	156,239	469,493	782.8	761.7	67	5/23/2024	60	763.9	**2.2**
#3253 / 671 LHW-2B	Phase VI - High End	156,357	470,843	823.8	773.4	165	5/23/2024	165	773.4	**0.0**
#3253 / 672 LHW-3B	Phase VII - Low End	156,605	469,483	782.3	761.8	66	5/23/2024	66	761.8	**0.0**
#3253 / 673 LHW-4B	Phase VII - High End	156,446	470,834	821.8	773.3	154.7	5/23/2024	154	773.5	**0.2**
#3253 / 674 LHW-5B	Phase VIII - Low End	156,868	469,477	783.8	746.8	118.9	5/23/2024	118	747.0	**0.3**
#3253 / 675 LHW-6B	Phase VIII - High End	156,740	470,837	823.8	756.9	210.1	5/23/2024	210	756.9	**0.0**

June

Facility ID/WDNR Point and Well No.	Monitoring Location Description	Northing	Easting	Top of Well Casing Elevation ft	Elevation at Screen ft	Length of Well Casing to Floor of Landfill ft	Date Measured	Depth to Liquid, ft	Liquid Elevation ft	Leachate Head ft
#3253 / 670 LHW-1B	Phase VI - Low End	156,239	469,493	782.8	761.7	67	6/27/2024	60.6	763.7	**2.0**
#3253 / 671 LHW-2B	Phase VI - High End	156,357	470,843	823.8	773.4	165	6/27/2024	165	773.4	**0**
#3253 / 672 LHW-3B	Phase VII - Low End	156,605	469,483	782.3	761.8	66	6/27/2024	66	761.8	**0**
#3253 / 673 LHW-4B	Phase VII - High End	156,446	470,834	821.8	773.3	154.7	6/27/2024	154.7	773.3	**0**
#3253 / 674 LHW-5B	Phase VIII - Low End	156,868	469,477	783.8	746.8	118.9	6/27/2024	118	747.0	**0.3**
#3253 / 675 LHW-6B	Phase VIII - High End	156,740	470,837	823.8	756.9	210.1	6/27/2024	210	756.9	**0.0**

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Monthly Leachate Headwell Measurements
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July

Facility ID/WDNR Point and Well No.	Monitoring Location Description	Northing	Easting	Top of Well Casing Elevation ft	Elevation at Screen ft	Length of Well Casing to Floor of Landfill ft	Date Measured	Depth to Liquid, ft	Liquid Elevation ft	Leachate Head ft
#3253 / 670 LHW-1B	Phase VI - Low End	156,239	469,493	782.8	761.7	67	7/31/2024	64	762.6	**0.9**
#3253 / 671 LHW-2B	Phase VI - High End	156,357	470,843	823.8	773.4	165	7/31/2024	165	773.4	**0**
#3253 / 672 LHW-3B	Phase VII - Low End	156,605	469,483	782.3	761.8	66	7/31/2024	66	761.8	**0**
#3253 / 673 LHW-4B	Phase VII - High End	156,446	470,834	821.8	773.3	154.7	7/31/2024	154.7	773.3	**0**
#3253 / 674 LHW-5B	Phase VIII - Low End	156,868	469,477	783.8	746.8	118.9	7/31/2024	118.9	746.8	**0**
#3253 / 675 LHW-6B	Phase VIII - High End	156,740	470,837	823.8	756.9	210.1	7/31/2024	210.1	756.9	**0**

August

Facility ID/WDNR Point and Well No.	Monitoring Location Description	Northing	Easting	Top of Well Casing Elevation ft	Elevation at Screen ft	Length of Well Casing to Floor of Landfill ft	Date Measured	Depth to Liquid, ft	Liquid Elevation ft	Leachate Head ft
#3253 / 670 LHW-1B	Phase VI - Low End	156,239	469,493	782.8	761.7	67	8/30/2024	65	762.3	**0.6**
#3253 / 671 LHW-2B	Phase VI - High End	156,357	470,843	823.8	773.4	165	8/30/2024	164	773.7	**0.3**
#3253 / 672 LHW-3B	Phase VII - Low End	156,605	469,483	782.3	761.8	66	8/30/2024	66	761.8	**0**
#3253 / 673 LHW-4B	Phase VII - High End	156,446	470,834	821.8	773.3	154.7	8/30/2024	154.7	773.3	**0**
#3253 / 674 LHW-5B	Phase VIII - Low End	156,868	469,477	783.8	746.8	118.9	8/30/2024	118.9	746.8	**0**
#3253 / 675 LHW-6B	Phase VIII - High End	156,740	470,837	823.8	756.9	210.1	8/30/2024	210.1	756.9	**0**

Table G-2
Monthly Leachate Headwell Measurements
2024 Annual Report
La Crosse County Landfill (Lic. #3253)

September

Facility ID/WDNR Point and Well No.	Monitoring Location Description	Northing	Easting	Top of Well Casing Elevation ft	Elevation at Screen ft	Length of Well Casing to Floor of Landfill ft	Date Measured	Depth to Liquid, ft	Liquid Elevation ft	Leachate Head ft
#3253 / 670 LHW-1B	Phase VI - Low End	156,239	469,493	782.8	761.7	67	9/30/2024	65	762.3	**0.6**
#3253 / 671 LHW-2B	Phase VI - High End	156,357	470,843	823.8	773.4	165	9/30/2024	165	773.4	**0**
#3253 / 672 LHW-3B	Phase VII - Low End	156,605	469,483	782.3	761.8	66	9/30/2024	66	761.8	**0**
#3253 / 673 LHW-4B	Phase VII - High End	156,446	470,834	821.8	773.3	154.7	9/30/2024	154.7	773.3	**0**
#3253 / 674 LHW-5B	Phase VIII - Low End	156,868	469,477	783.8	746.8	118.9	9/30/2024	117.5	747.2	**0.4**
#3253 / 675 LHW-6B	Phase VIII - High End	156,740	470,837	823.8	756.9	210.1	9/30/2024	210	756.9	**0.0**

October

Facility ID/WDNR Point and Well No.	Monitoring Location Description	Northing	Easting	Top of Well Casing Elevation ft	Elevation at Screen ft	Length of Well Casing to Floor of Landfill ft	Date Measured	Depth to Liquid, ft	Liquid Elevation ft	Leachate Head ft
#3253 / 670 LHW-1B	Phase VI - Low End	156,239	469,493	782.8	761.7	67	10/23/2024	65	762.3	**0.6**
#3253 / 671 LHW-2B	Phase VI - High End	156,357	470,843	823.8	773.4	165	10/23/2024	165	773.4	**0**
#3253 / 672 LHW-3B	Phase VII - Low End	156,605	469,483	782.3	761.8	66	10/23/2024	66	761.8	**0**
#3253 / 673 LHW-4B	Phase VII - High End	156,446	470,834	821.8	773.3	154.7	10/23/2024	155	773.3	**0**
#3253 / 674 LHW-5B	Phase VIII - Low End	156,868	469,477	783.8	746.8	118.9	10/23/2024	119	746.8	**0**
#3253 / 675 LHW-6B	Phase VIII - High End	156,740	470,837	823.8	756.9	210.1	10/23/2024	210	756.9	**0.0**

Table G-2
Monthly Leachate Headwell Measurements
2024 Annual Report
La Crosse County Landfill (Lic. #3253)

November

Facility ID/WDNR Point and Well No.	Monitoring Location Description	Northing	Easting	Top of Well Casing Elevation ft	Elevation at Screen ft	Length of Well Casing to Floor of Landfill ft	Date Measured	Depth to Liquid, ft	Liquid Elevation ft	Leachate Head ft
#3253 / 670 LHW-1B	Phase VI - Low End	156,239	469,493	782.8	761.7	67	11/15/2024	64.5	762.5	**0.8**
#3253 / 671 LHW-2B	Phase VI - High End	156,357	470,843	823.8	773.4	165	11/15/2024	165	773.4	**0**
#3253 / 672 LHW-3B	Phase VII - Low End	156,605	469,483	782.3	761.8	66	11/15/2024	66	761.8	**0**
#3253 / 673 LHW-4B	Phase VII - High End	156,446	470,834	821.8	773.3	154.7	11/15/2024	154.7	773.3	**0**
#3253 / 674 LHW-5B	Phase VIII - Low End	156,868	469,477	783.8	746.8	118.9	11/15/2024	117	747.3	**0.6**
#3253 / 675 LHW-6B	Phase VIII - High End	156,740	470,837	823.8	756.9	210.1	11/15/2024	210.1	756.9	**0**

December

Facility ID/WDNR Point and Well No.	Monitoring Location Description	Northing	Easting	Top of Well Casing Elevation ft	Elevation at Screen ft	Length of Well Casing to Floor of Landfill ft	Date Measured	Depth to Liquid, ft	Liquid Elevation ft	Leachate Head ft
#3253 / 670 LHW-1B	Phase VI - Low End	156,239	469,493	782.8	761.7	67	12/31/2024	65.5	762.2	**0.5**
#3253 / 671 LHW-2B	Phase VI - High End	156,357	470,843	823.8	773.4	165	12/31/2024	165	773.4	**0**
#3253 / 672 LHW-3B	Phase VII - Low End	156,605	469,483	782.3	761.8	66	12/31/2024	66	761.8	**0**
#3253 / 673 LHW-4B	Phase VII - High End	156,446	470,834	821.8	773.3	154.7	12/31/2024	154.7	773.3	**0**
#3253 / 674 LHW-5B	Phase VIII - Low End	156,868	469,477	783.8	746.8	118.9	12/31/2024	118.9	746.8	**0**
#3253 / 675 LHW-6B	Phase VIII - High End	156,740	470,837	823.8	756.9	210.1	12/31/2024	210.1	756.9	**0**

Table G-3
Leachate Application Summary
2024 Annual Report
La Crosse County Landfill (Lic. #3252)

Year	Volume of RD&D Leachate Applied from Vernon County (gallons)	Volume of Leachate Recirculated from La Crosse County (gallons)	Annual Precipitation (inches)	Application Location
2016	204,360	0	44.76	Phase VIII Module 1
2017	960,852	0	39.6	Phase VIII Module 1
2018	254,904	0	42.59	Phase VIII Module 1
2019	62,289	0	44.67	Phase VII Module's 1 & 2
2020	777,923	0	30.82	Phase VII Module's 1 & 2 Phase VIII Module's 1 & 2
2021	382,180	0	37.34	Phase VII Module's 1 & 2
2022	148,081	0	29.92	Phase VII Module's 1 & 2 Phase VIII Module 1
2023	47,954	0	27.67	Phase VIII Module 2
2024	10,549	0	37.62	Phase VII Module 1
Total	**2,849,092**	**0**	**334.99**	**--**

Table G-4
Waste Composition
2024 Annual Report
La Crosse County Landfill Lic. #3253

Year	WDNR Waste Category																										Cat. 1-31 Total[3]	Total Degradable (Cat. 1,3,5,6, 27, 31)	
	1		2		3		4		5		6		19		20		21		23		25		27		28		30		31				
	Municipal Solid Waste		Utility Ash /Sludges		Cat. 3 Papermill Sludge		Foundry Waste		Cat. 5 POTW Sludge		All Other SW		Fee Exempt Waste Used for Dikes, Berms		Energy Recovery Incinerator Ash		High Volume Industrial ADC		Treated Contaminated Soil		C/D Waste[4]		Cat. 27 MSW Non-Profit		Cat. 28 Natual Disaster		Cat. 30 MRF Rejects		Cat. 31 Xcel Rejects[5]				
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%	Tons	Tons	(%)
1992	33,119	77%	9,956	23%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	43,075	33,119	77%
1993	33,256	77%	9,840	23%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	43,096	33,256	77%
1994	37,173	78%	10,285	22%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	47,458	37,173	78%
1995	34,080	79%	9,205	21%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	43,285	34,080	79%
1996	34,960	77%	10,410	23%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	45,370	34,960	77%
1997	34,689	77%	10,377	23%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	45,066	34,689	77%
1998	40,329	80%	10,042	20%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	50,371	40,329	80%
1999	40,503	79%	10,731	21%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	51,234	40,503	79%
2000	46,365	75%	11,469	19%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	4,017	6%	0	0%	0	0%	0	0%	0	0%	0	0%	61,851	46,365	75%
2001	40,861	63%	11,890	18%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	11,890	18%	0	0%	0	0%	0	0%	0	0%	0	0%	64,641	40,861	63%
2002	44,402	78%	8,957	16%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	3,689	6%	0	0%	0	0%	0	0%	0	0%	0	0%	57,048	44,402	78%
2003	38,660	64%	12,974	21%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	9,033	15%	0	0%	0	0%	0	0%	0	0%	0	0%	60,667	38,660	64%
2004	41,591	68%	13,931	23%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	5,573	9%	0	0%	0	0%	0	0%	0	0%	0	0%	61,095	41,591	68%
2005	40,967	58%	12,052	17%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	17,663	25%	0	0%	0	0%	0	0%	0	0%	0	0%	70,682	40,967	58%
2006	44,102	58%	9,792	13%	0	0%	4,075	9%	0	0%	0	0%	0	0%	0	0%	0	0%	17,512	23%	0	0%	0	0%	0	0%	0	0%	0	0%	75,481	44,102	58%
2007	45,262	54%	525	1%	0	0%	0	0%	0	0%	2,594	3%	2,730	3%	9,100	11%	8,503	10%	15,270	18%	0	0%	0	0%	0	0%	0	0%	0	0%	83,985	47,856	57%
2008	45,450	48%	781	1%	0	0%	616	1%	0	0%	2,189	2%	16,275	17%	9,261	10%	8,862	9%	10,319	11%	0	0%	0	0%	0	0%	0	0%	0	0%	93,754	47,639	51%
2009	35,926	42%	448	1%	0	0%	170	0%	0	0%	4,041	5%	16,797	20%	0	0%	7,142	8%	5,677	7%	14,388	17%	0	0%	0	0%	0	0%	0	0%	84,590	39,968	47%
2010	34,317	45%	621	1%	0	0%	461	1%	0	0%	3,500	5%	8,049	10%	10,183	13%	7,078	9%	1,439	2%	11,379	15%	0	0%	0	0%	0	0%	0	0%	77,027	37,817	49%
2011	41,706	47%	316	0%	0	0%	257	1%	638	1%	2,704	3%	7,409	8%	9,657	11%	9,833	11%	1,313	1%	14,494	16%	0	0%	0	0%	0	0%	0	0%	88,327	45,048	51%
2012	37,991	52%	6	0%	0	0%	295	1%	337	0%	1,347	2%	973	1%	9,606	13%	8,895	12%	482	1%	13,251	18%	0	0%	0	0%	0	0%	0	0%	73,183	39,675	54%
2013	53,606	51%	404	0%	0	0%	0	0%	435	0%	1,622	2%	18,013	17%	9,326	9%	8,461	8%	671	1%	12,976	12%	0	0%	0	0%	0	0%	0	0%	105,514	55,663	53%
2014	56,545	53%	211	0%	0	0%	0	0%	27	0%	1,854	2%	13,894	13%	9,483	9%	9,113	9%	826	1%	14,005	13%	0	0%	0	0%	0	0%	0	0%	105,958	58,426	55%
2015	49,534	43%	303	0%	0	0%	0	0%	104	0%	2,295	2%	21,454	19%	11,030	10%	6,580	6%	103	0%	22,504	20%	421	0%	0	0%	1	0.00%	0	0%	114,329	52,354	46%
2016	55,091	47%	429	0%	0	0%	0	0%	83	0%	4,718	4%	21,226	18%	9,561	8%	3,661	3%	1,827	2%	21,026	18%	488	0%	0	0%	0	0%	0	0%	118,110	60,380	51%
2017	59,123	53%	427	0%	0	0%	0	0%	90	0%	2,503	2%	12,688	11%	9,044	8%	4,370	4%	651	1%	22,744	20%	146	0%	185	0.2%	0	0%	0	0%	111,971	61,862	55%
2018	61,924	57%	394	0%	0	0%	0	0%	47	0%	2,691	2%	7,367	7%	8,680	8%	5,554	5%	408	0%	21,130	19%	40	0%	163	0.2%	1	0.00%	0	0%	108,399	64,702	60%
2019	59,072	49%	340	0%	0	0%	0	0%	2,395	2%	4,041	3%	9,392	8%	9,475	8%	11,696	10%	713	1%	22,610	19%	55	0%	89	0.1%	11	0.01%	0	0%	119,889	65,563	55%
2020	60,880	52%	283	0%	0	0%	0	0%	502	0%	2,148	2%	6,909	6%	9,520	8%	5,676	5%	234	0%	29,565	25%	380	0%	0	0%	2	0.00%	0	0%	116,099	63,910	55%
2021	36,476	34%	79	0%	0	0%	0	0%	2,453	2%	2,382	2%	2,413	2%	12,061	11%	5,693	5%	51	0%	25,285	24%	715	1%	0	0%	8	0.01%	19,137	18%	106,752	61,163	57%
2022	38,106	34%	68	0%	0	0%	0	0%	0	0%	1,752	2%	8,211	7%	9,737	9%	7,779	7%	2,942	3%	24,062	21%	677	1%	0	0%	16	0.01%	18,720	17%	112,070	59,255	53%
2023	37,299	30%	92	0%	0	0%	0	0%	444	0%	5,685	5%	7,332	6%	9,946	8%	9,920	8%	1,536	1%	26,722	22%	614	1%	0	0%	19	0.02%	23,093	19%	122,702	67,135	55%
2024	39,746	31%	86	0%	0	0%	0	0%	611	0%	6,990	6%	7,793	6%	10,197	8%	11,755	9%	551	0%	29,896	24%	704	1%	0	0%	106	0.08%	18,297	14%	126,731	66,347	52%
Average Last 3 Years	**38,384**	**32%**	**82**	**0%**	**0**	**0%**	**0**	**0%**	**352**	**0%**	**4,809**	**4%**	**7,778**	**6%**	**9,960**	**8%**	**9,818**	**8%**	**1,676**	**1%**	**26,893**	**22%**	**665**	**1%**	**0**	**0%**	**47**	**0%**	**20,036**	**17%**	**120,501**	**64,246**	**53%**

Notes:

1 - Waste tonnages by category taken from WDNR Landfill Annual Tonnage-Capacity Reports, except for 2023 and beyond where records kept by La Crosse County Landfill were used.

2 - Categories not received from 1992-2024 were not included in table, except for Category 3 since it is considered degradable.

3 - Total tonnage reported includes both MSW Landfill and Ash Monofill.

4 - Up to 2009 CD material was placed in separate CD landfill.

5- Category 31 includes RDF Plant reject and residue MSW material sent back to the Landfill. This waste is considered degradable, and therefore is included in 2021-2024 degradable tonnage.

Figures

Figure G-1A
Liquid Mass Balance for Calendar Year 2024 - Phase VI
La Crosse County Landfill Lic. #3253

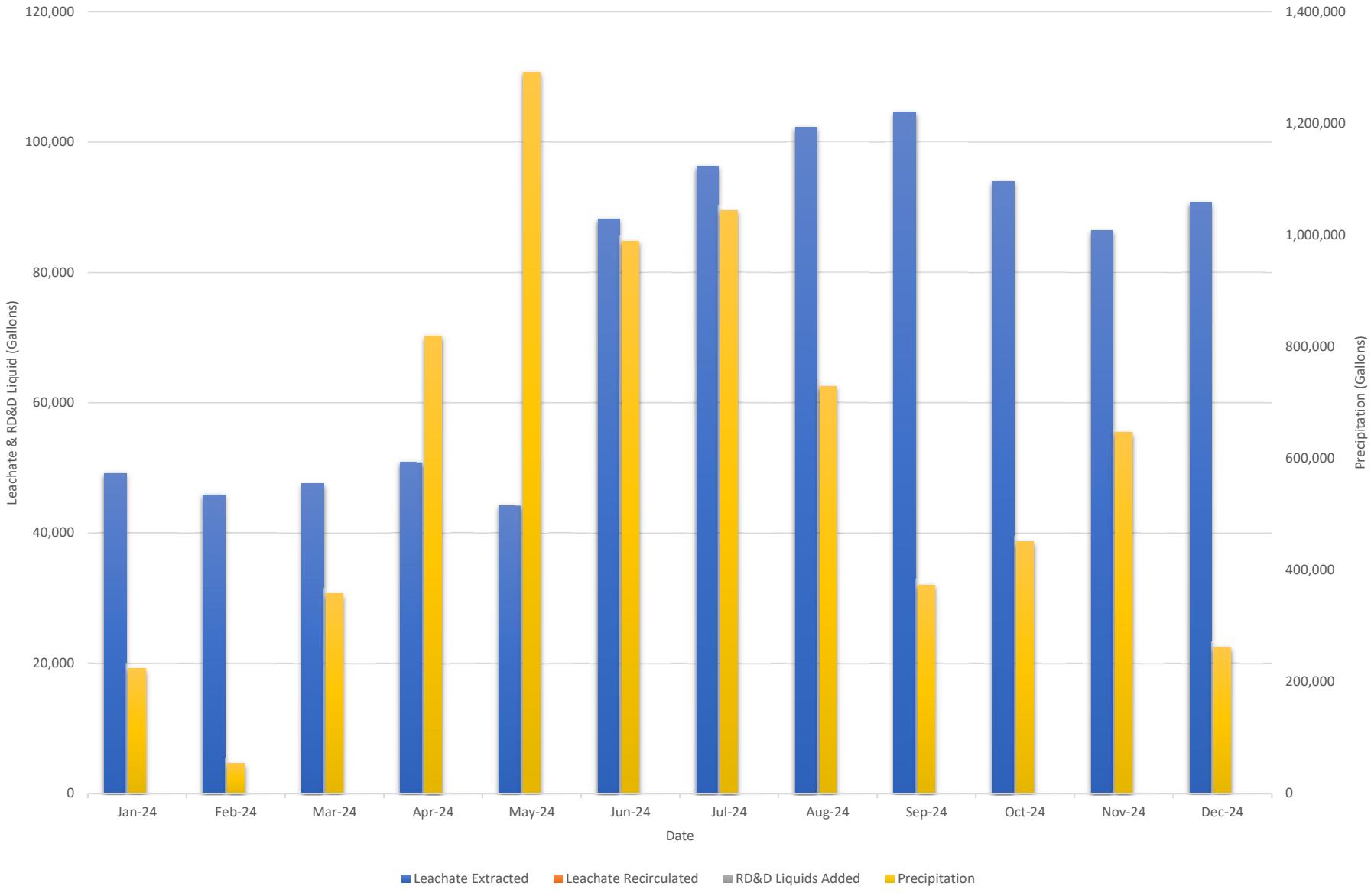


Figure G-1B
Liquid Mass Balance for Calendar Year 2024 - Phase VII
La Crosse County Landfill Lic. #3253

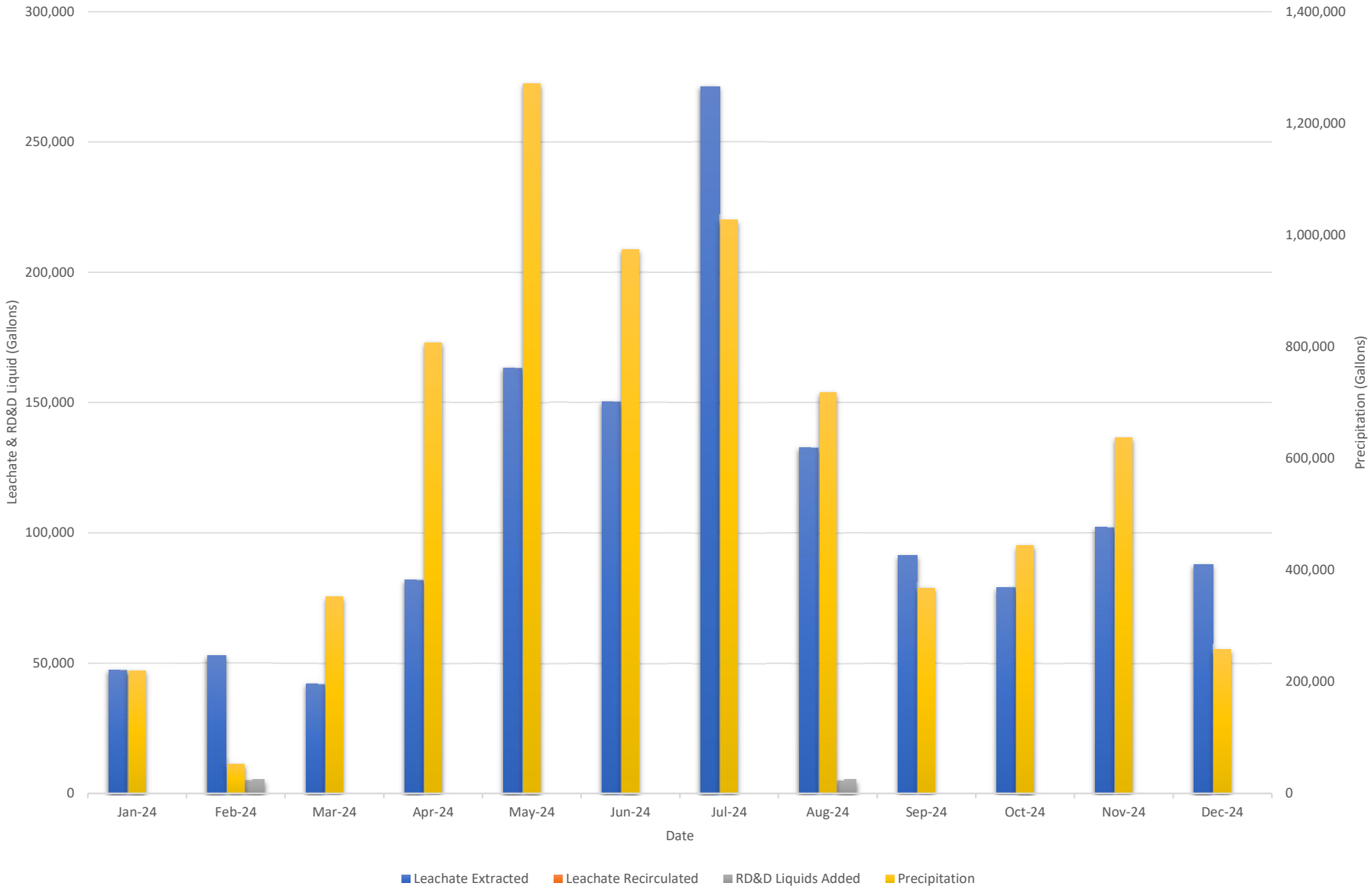


Figure G-1C
Liquid Mass Balance for Calendar Year 2024 - Phase VIII
La Crosse County Landfill Lic. #3253

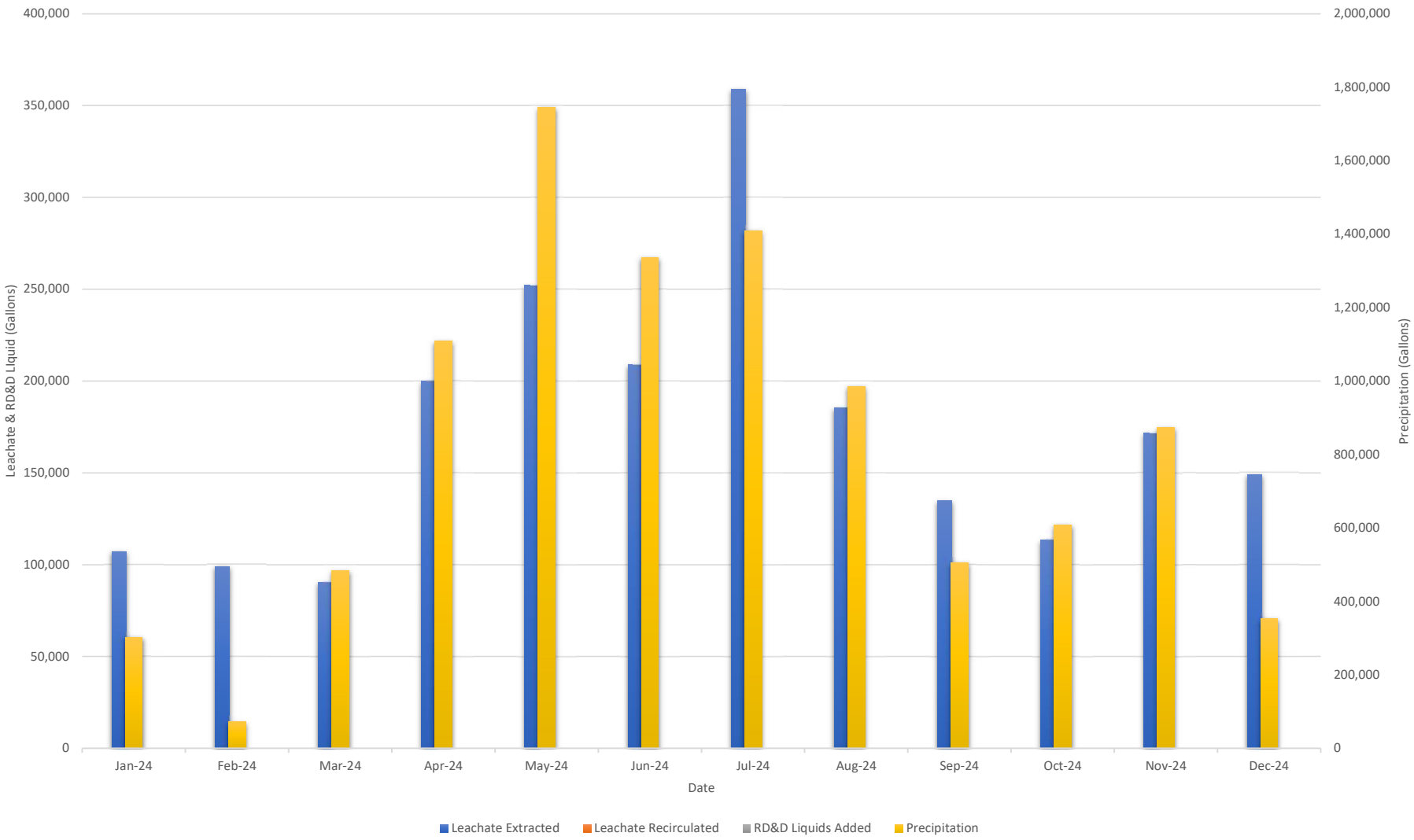


Figure G-1D
Liquid Mass Balance for Calendar Year 2024 - Total Phases VI through VIII
La Crosse County Landfill Lic. #3253

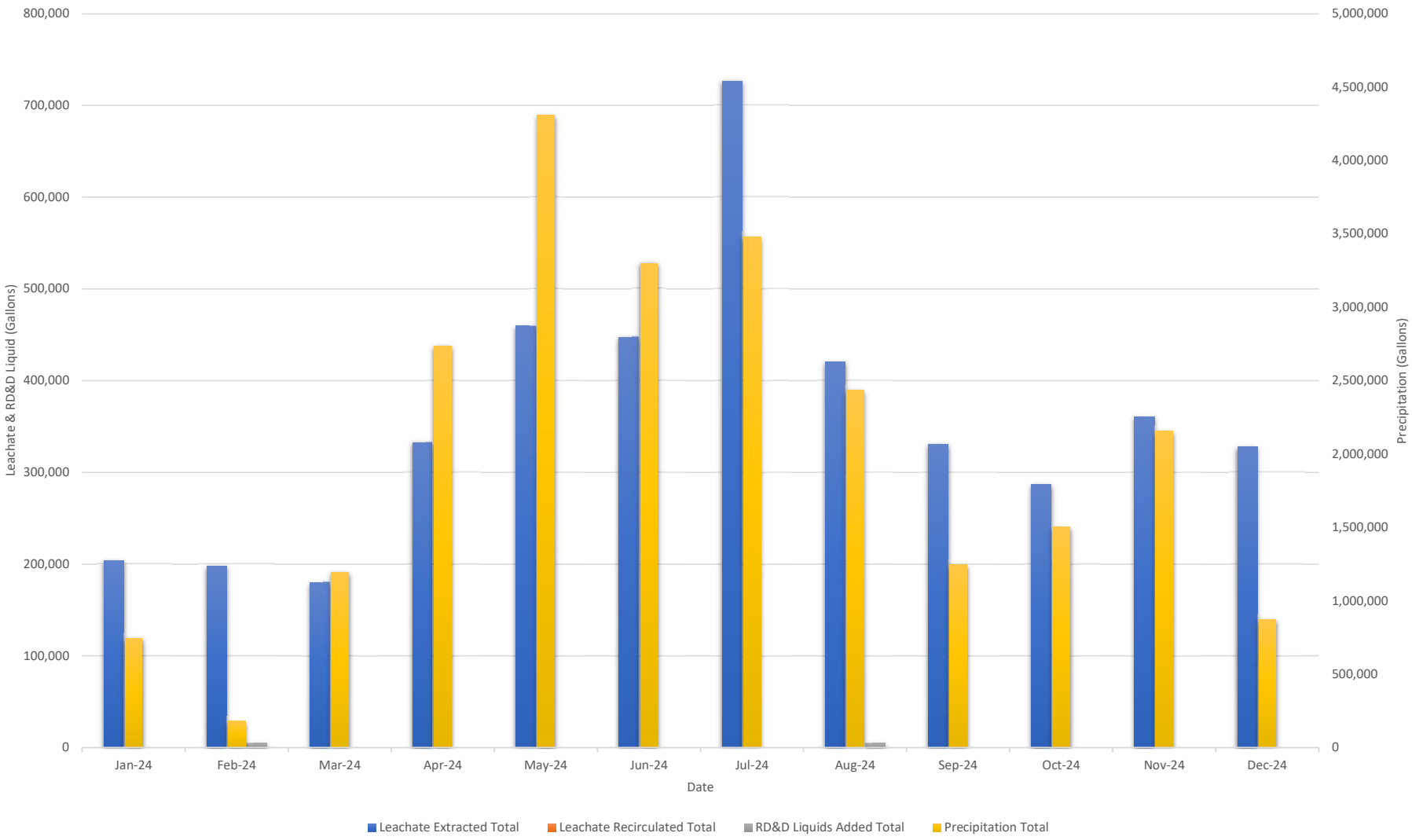


Figure G-2
NR 507 VOC Appendix III - GEMS Point ID 451
La Crosse County Landfill Lic. #3253

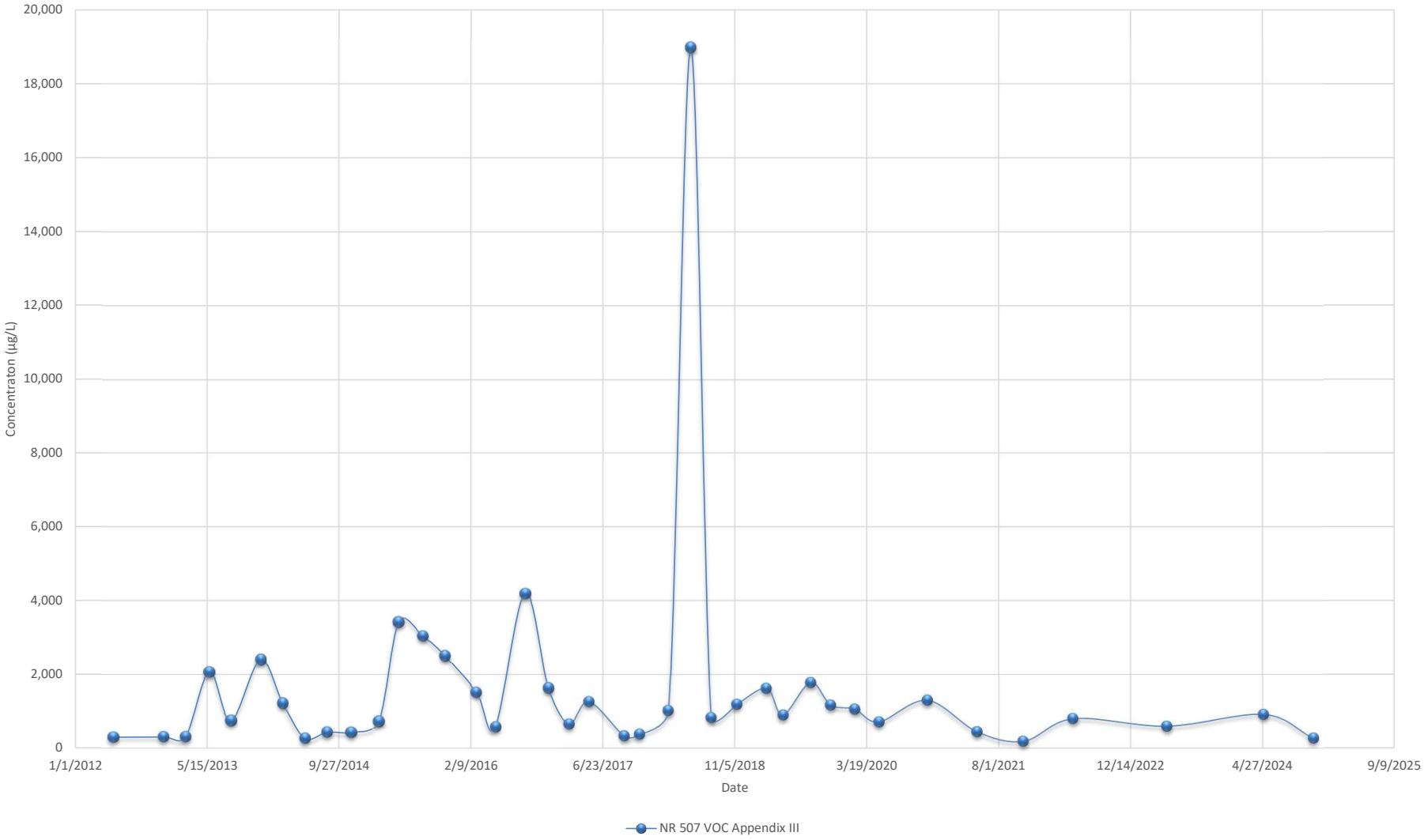


FIGURE G-3
BIOCHEMICAL OXYGEN DEMAND (MG/L, 5 DAY - 20DEG C) - GEMS POINT ID 451
LA CROSSE COUNTY LANDFILL LIC. #3253

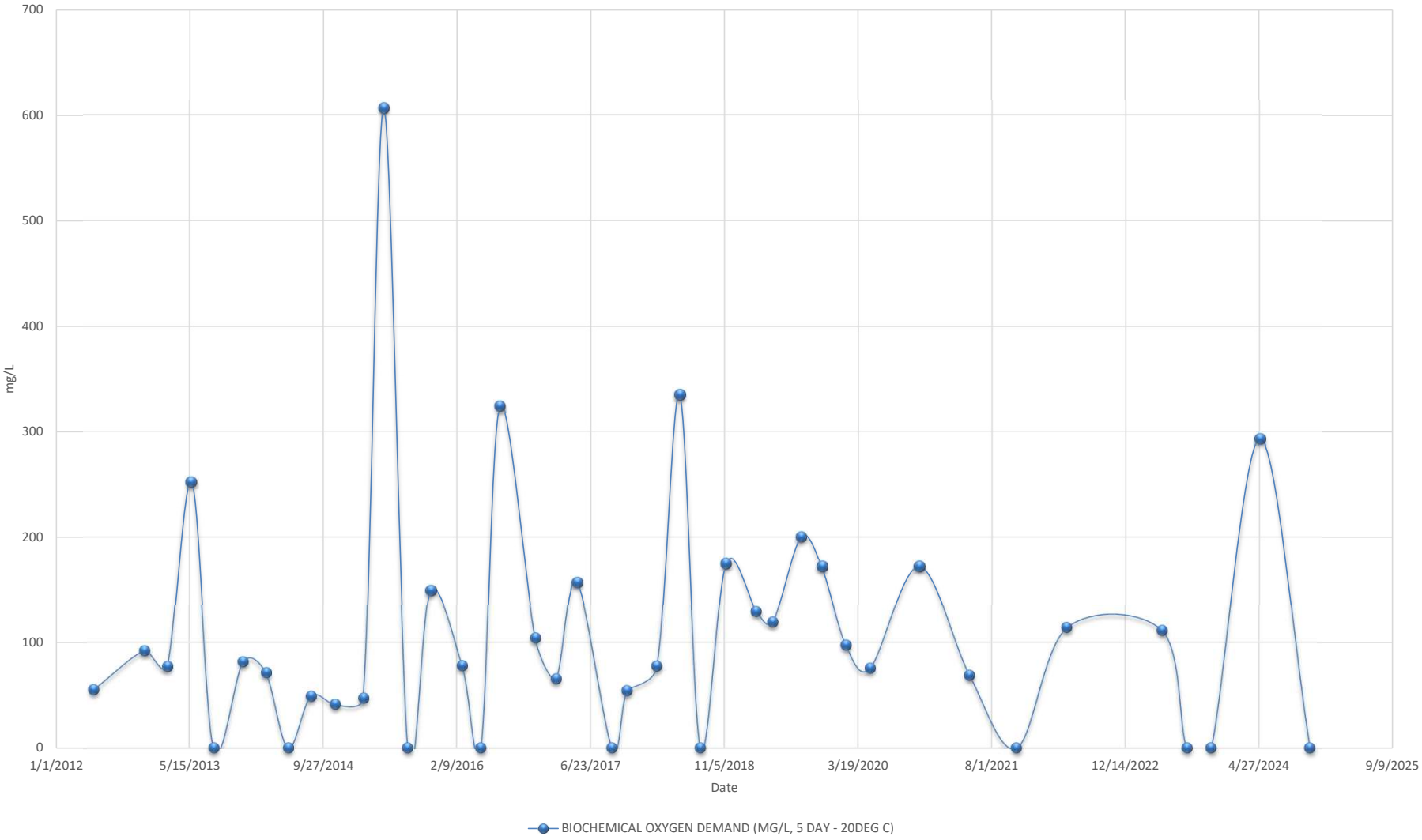


FIGURE G-4
CHEMICAL OXYGEN DEMAND, UNFILTERED (MG/L) - GEMS POINT ID 451
LA CROSSE COUNTY LANDFILL LIC. #3253

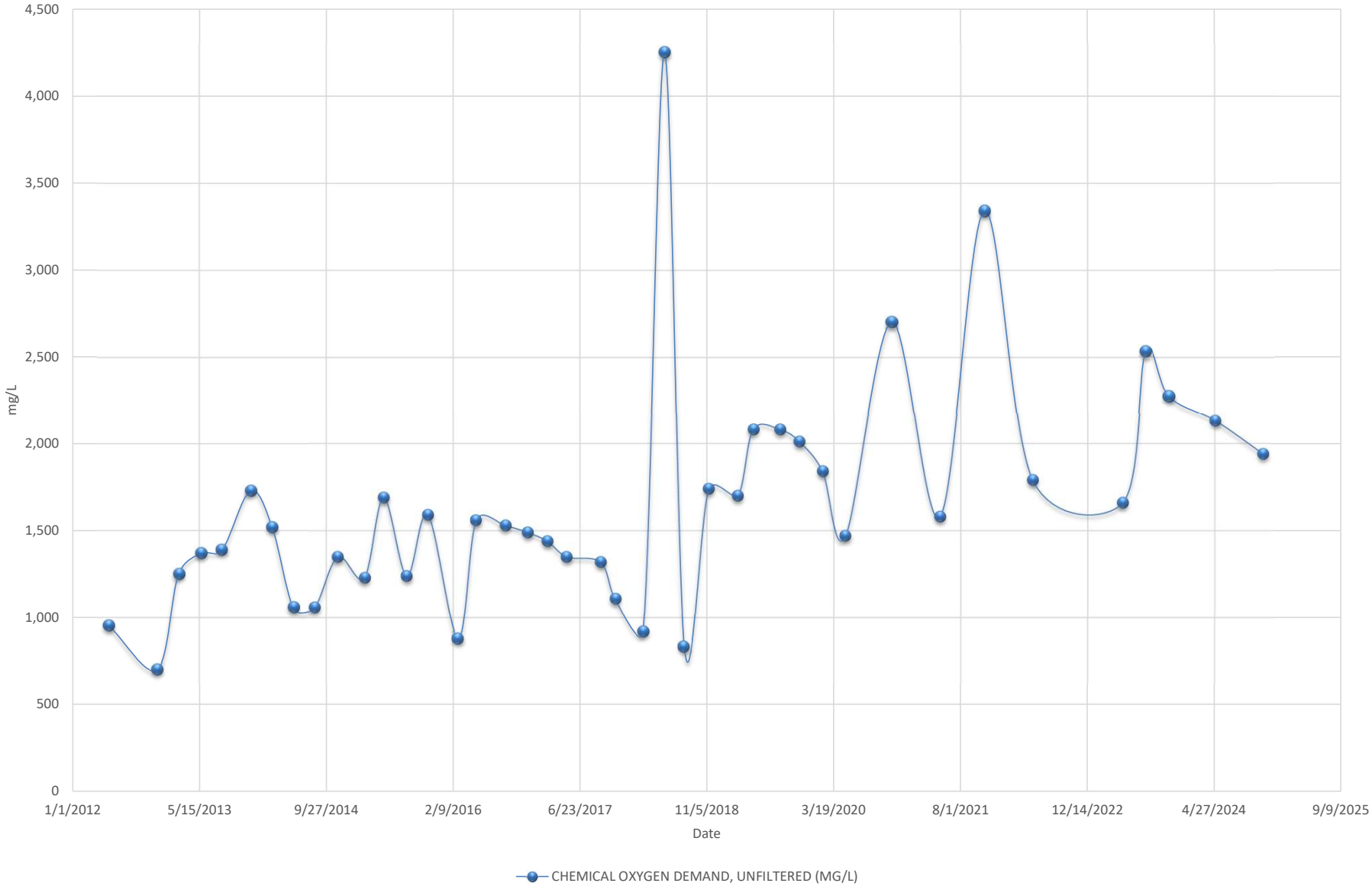


FIGURE G-5
NITROGEN, AMMONIA, TOTAL (MG/L AS N) - GEMS POINT ID 451
LA CROSSE COUNTY LANDFILL LIC. #3253

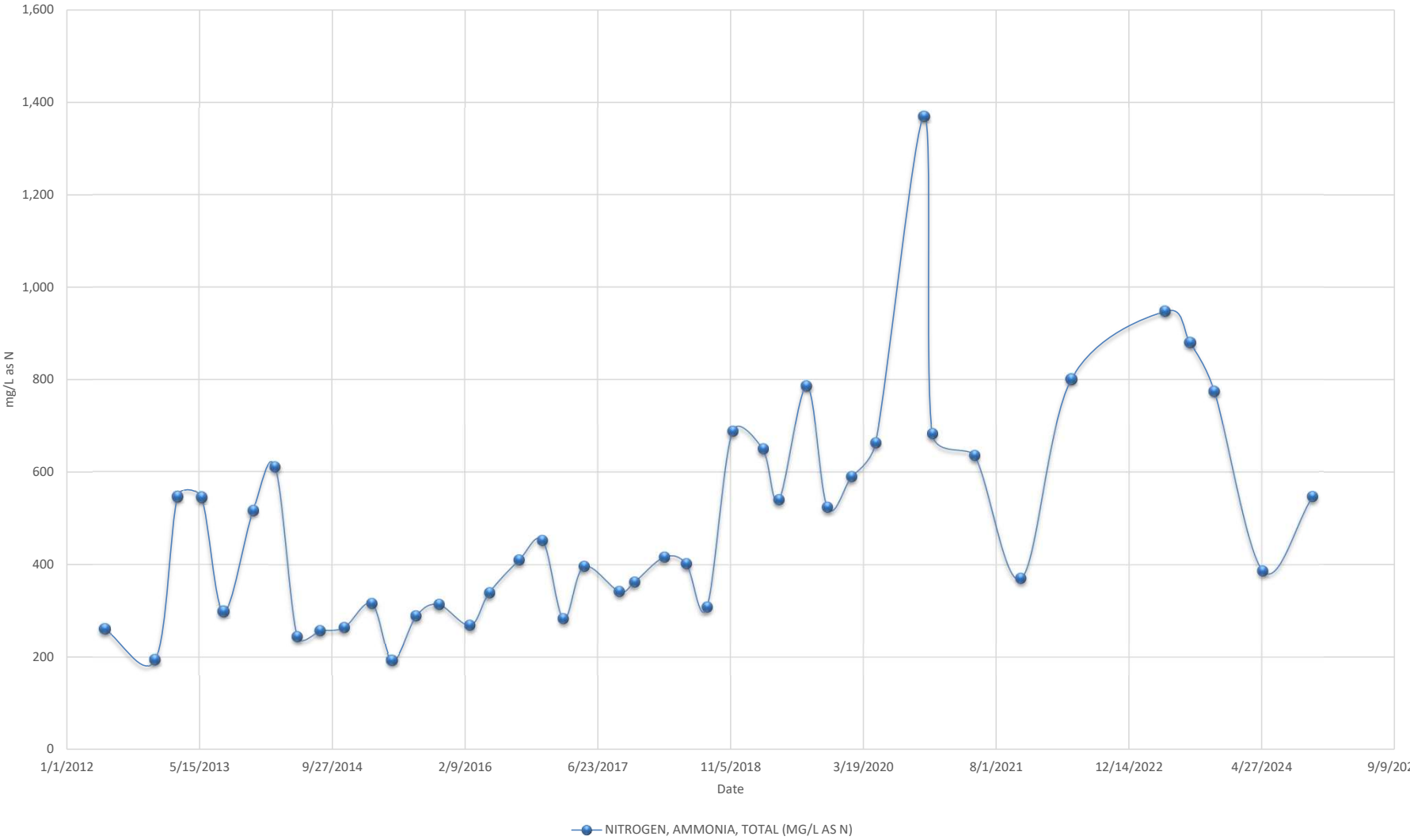


FIGURE G-6
PH, FIELD (STANDARD UNITS) - GEMS POINT ID 451
LA CROSSE COUNTY LANDFILL LIC. #3253

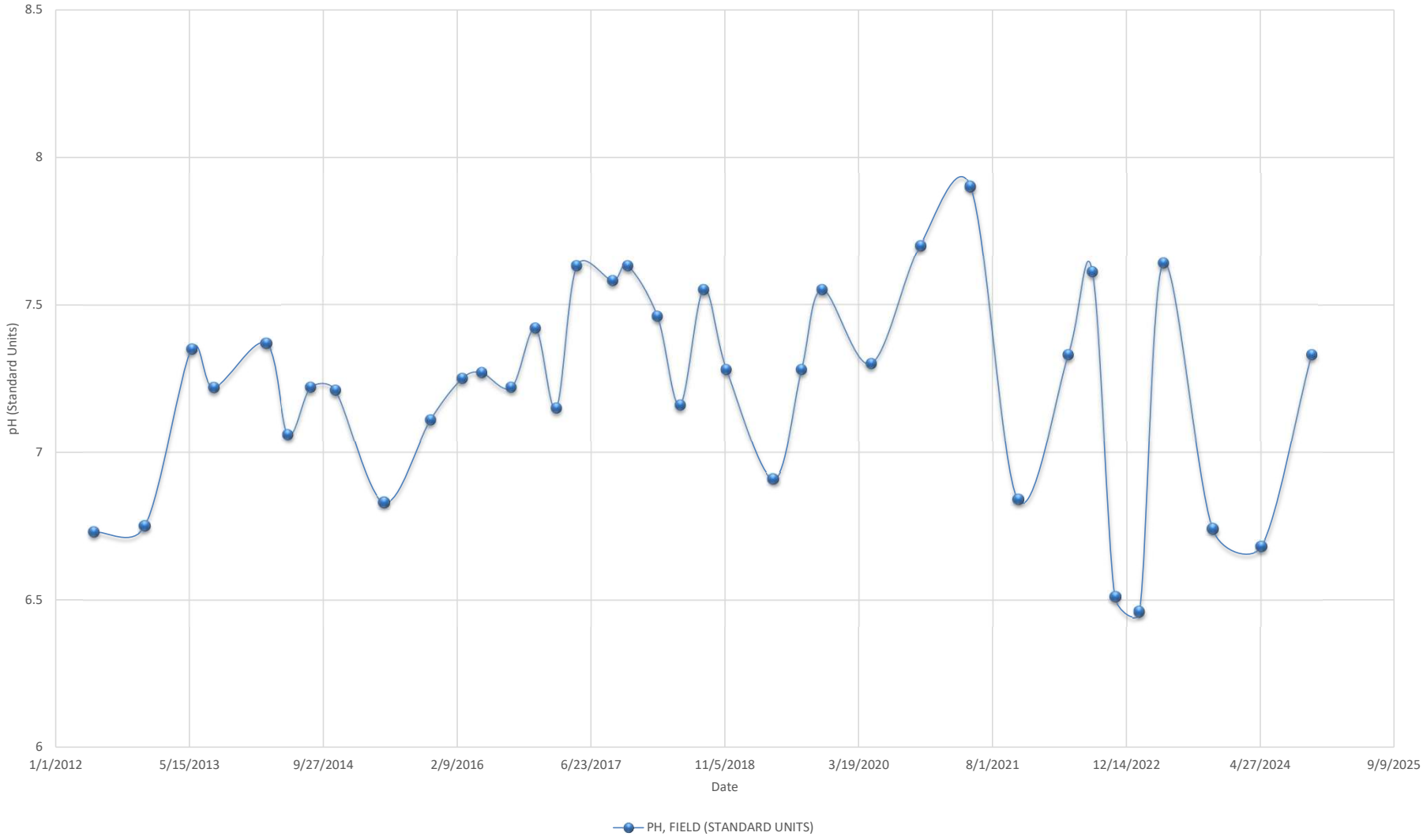


FIGURE G-7
SPECIFIC CONDUCTANCE, FIELD (UMHO/CM @ 25C) - GEMS POINT ID 451
LA CROSSE COUNTY LANDFILL LIC. #3253

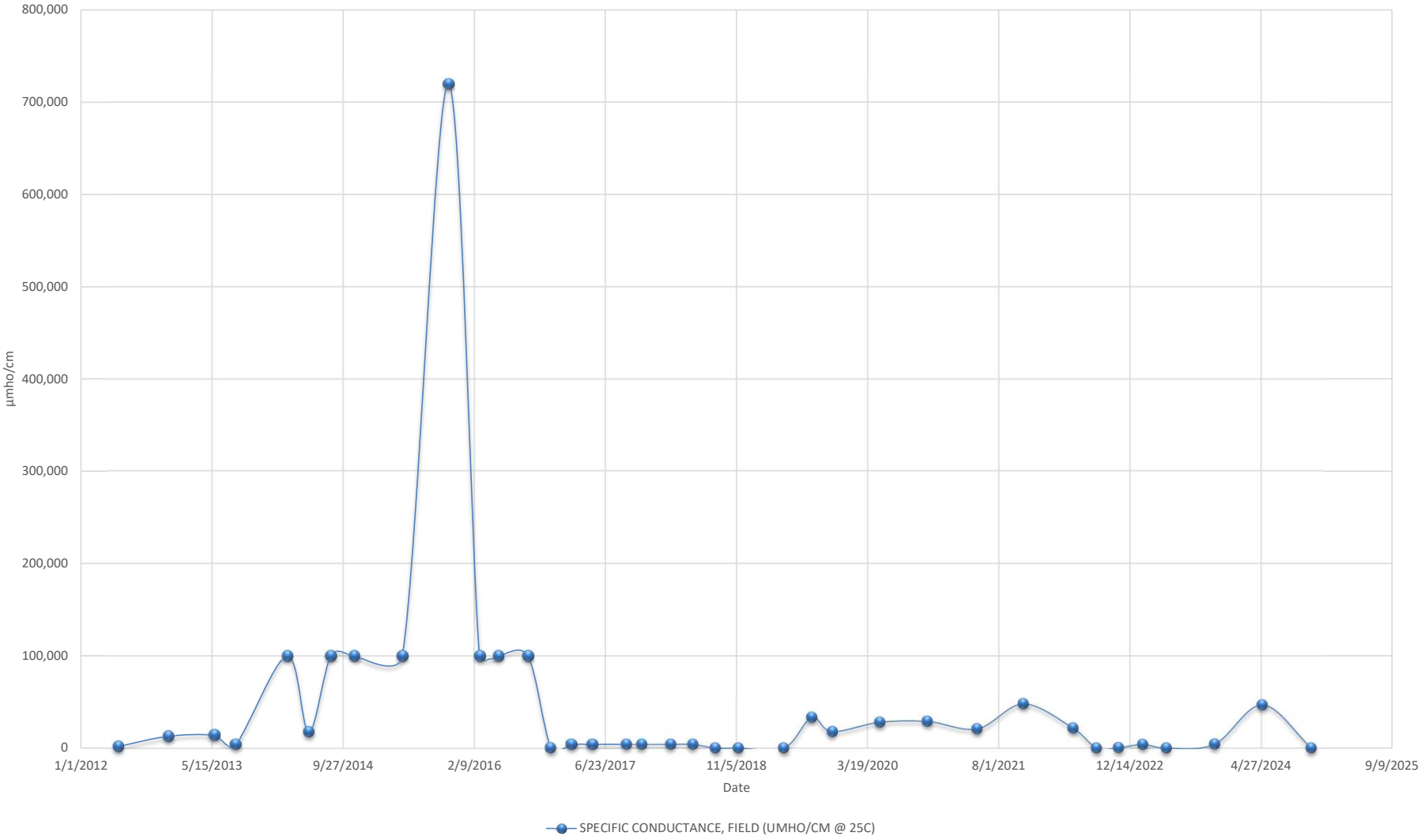


FIGURE G-8
ALKALINITY, TOTAL (MG/L AS CACO3) - GEMS POINT ID 451
LA CROSSE COUNTY LANDFILL LIC. #3253

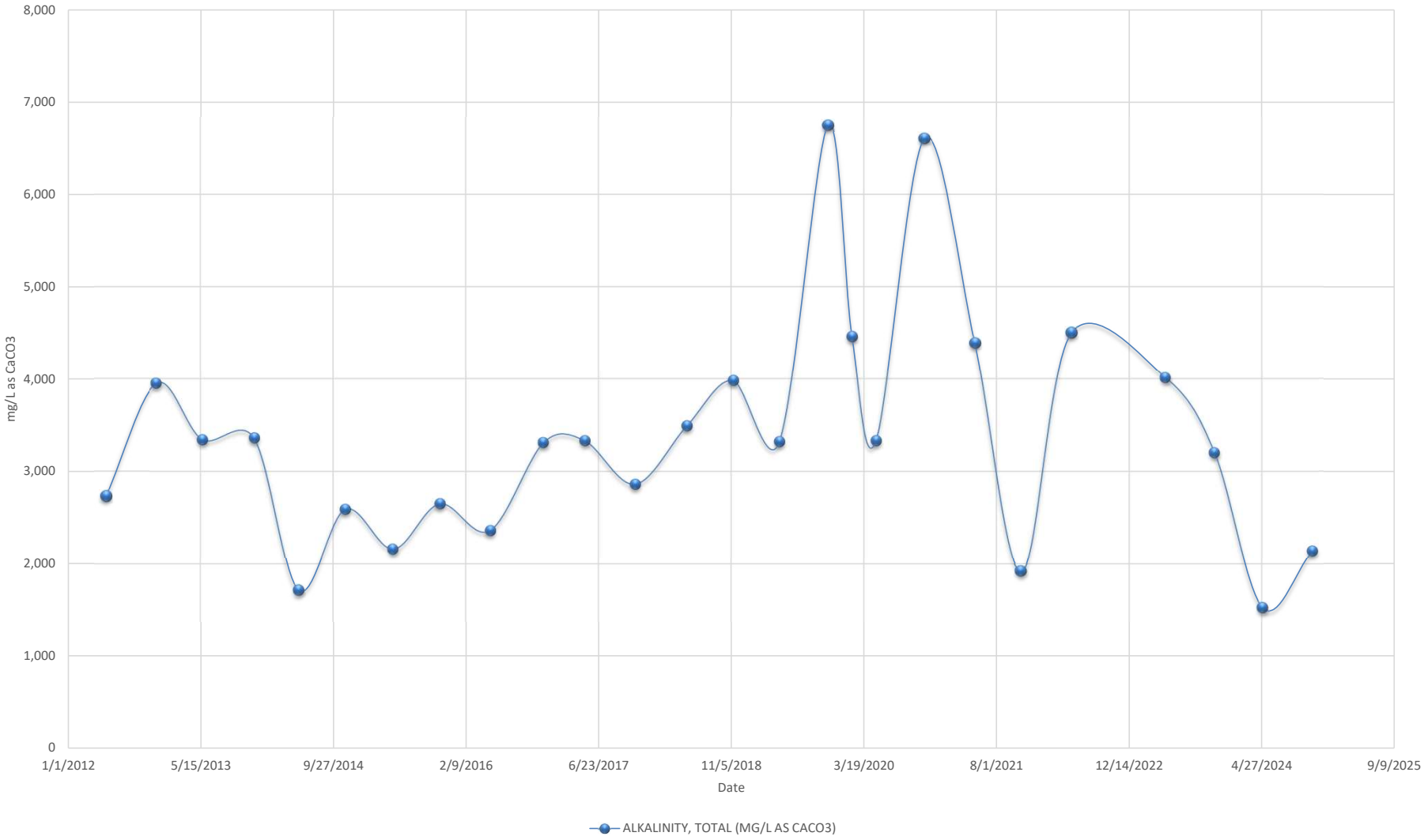


FIGURE G-9
HARDNESS, TOTAL (MG/L AS CACO3) - GEMS POINT ID 451
LA CROSSE COUNTY LANDFILL LIC. #3253

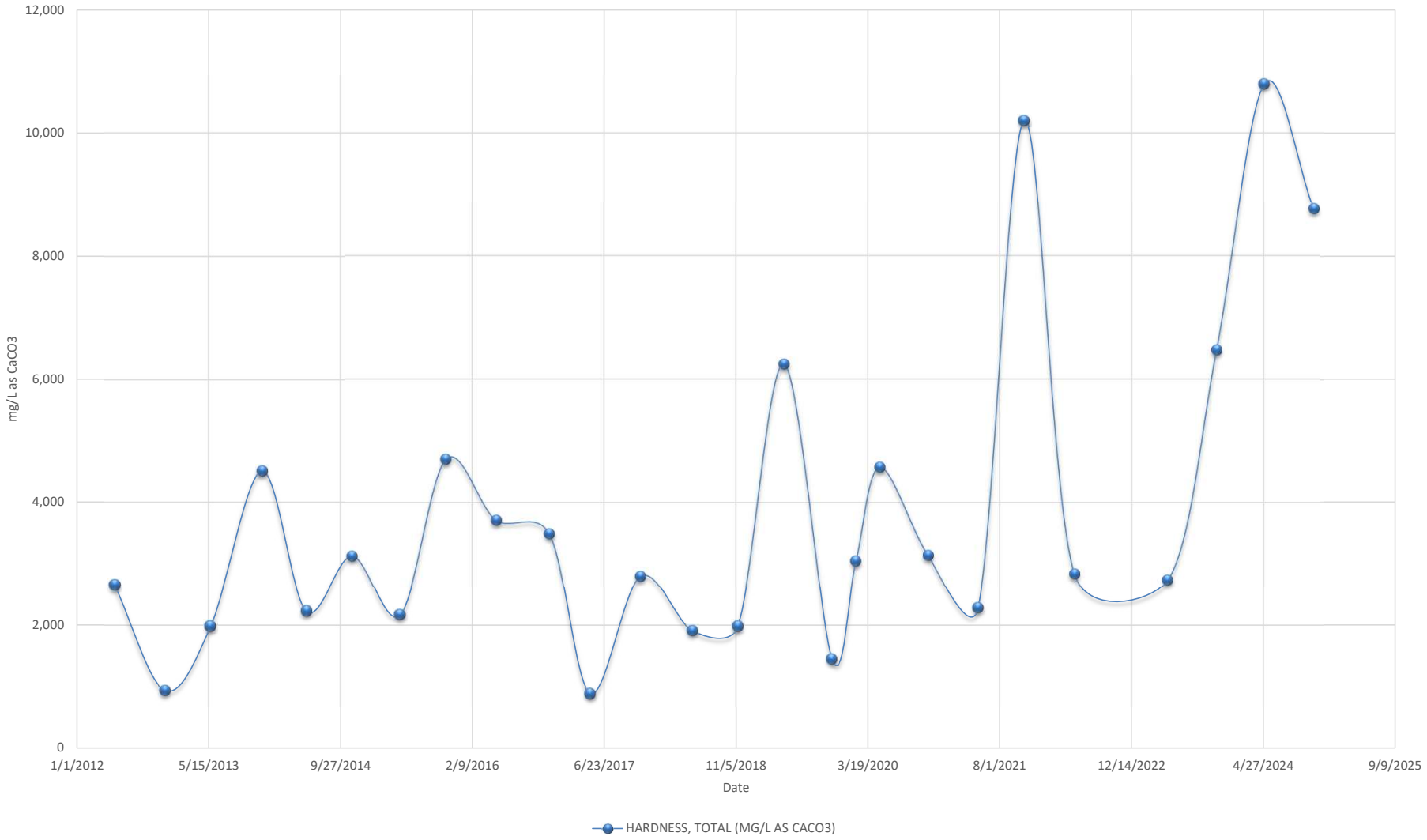
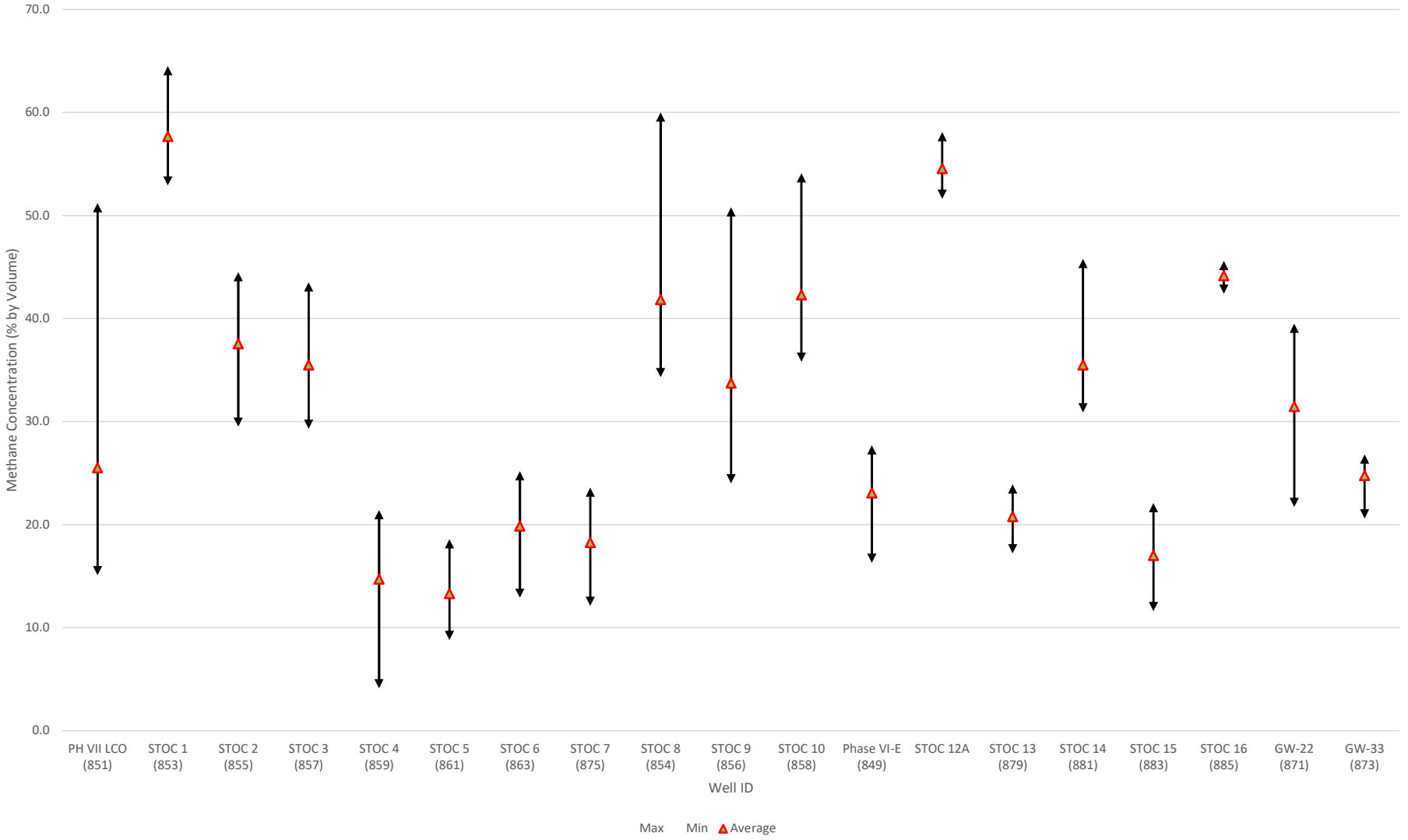


FIGURE G-10
METHANE CONCENTRATION OF WELLS IN LIQUID APPLICATION AREA IN 2024
LA CROSSE COUNTY LANDFILL LIC. #3253



Appendix H

Other Applicable Approval Conditions

Appendix H

Other Applicable Approval Conditions

H-1 – Annual Air Space Report
H-2 – Annual Bio-Pile Report
H-3 – Annual Shingle Report

H-1 – Annual Air Space Report

Building a Better World for All of Us®

February 17, 2025

RE: La Crosse County - Solid Waste Department
2024 Landfill Capacity Calculations
SEH No. LACSW 183104 4.00

Mr. Jadd Stilwell
Solid Waste Director
3200 Berlin Drive
La Crosse, WI 54601

Dear Mr. Stilwell:

We have completed an evaluation of the remaining air space in the Ash Monofill and Phase I through Phase VIII of the municipal solid waste (MSW) landfill as of December 31, 2024. The purpose of this letter is to present this information which will assist with solid waste management planning and reporting by the County.

Following is a summary of the calculated effective density for MSW waste as measured between surveys conducted on December 27, 2023 and December 31, 2024, and the remaining permitted air space as of January 1, 2025:

Waste Type	Density[1]	Remaining Permitted Air Space and Site Life[2]
Ash Monofill	1,191 lb./CY	0.0 CY / 0.0 Years
MSW Landfill	2,104 lb./CY	4,311,326 CY / 9.9 – 10.0 years ([3])
MSW Landfill – Ash Overlay	1,562 lb./CY	41,924 CY / 3.0 – 4.1 years ([4])

Notes:

[1]= Density is separated by waste type and not collectively for the landfill.

[2]= Remaining permitted site life depends on ongoing annual waste receipt volume and density assumptions- see following for more detail.

[3]=Remaining permitted site life includes the MSW Ash Overlay and depends on ongoing waste receipt and density assumptions, and status of practice of placing Ash in MSW Landfill Ash Overlay.

[4]= Remaining air space in MSW Ash Overlay as of January 1, 2024. Remaining life calculation assumes all ash filling occurs in MSW Ash Overlay.

The La Crosse County Landfill is contracted to manage ash waste from the Xcel French Island refuse derived fuel (RDF) facility through the year 2030. Due to a projected air space shortage for the Ash Monofill the County obtained approval from the Wisconsin Department of Natural Resources (WDNR) to utilize the ash for a final grading overlay in the MSW Landfill (i.e. MSW Landfill – Ash Overlay). Beginning September 1, 2015 ash disposal transitioned from the ash monofill landfill to a specific overlay area of the MSW landfill, which includes the northern portions of Phase III, Phase IV, and Phase V, as shown in Figure 4. However, ash was placed both in the Ash Monofill and MSW ash overlay area during 2024.

The “2024 MSW Landfill Ash Overlay Air Space Consumption and Density” subsection below presents the volume of ash placed in the MSW Landfill during 2024 and its density. The “2024 Ash Monofill Air

Space Consumption and Density" subsection below presents the volume of ash placed in the Ash Monofil during 2024. The remaining volume for ash in the MSW landfill is a function of remaining MSW air space and duration of the term of ash disposal. Based on average fill volumes and remaining life span of the Ash Monofill and MSW Ash Overlay, it is determined that the ash overlay footprint within the MSW landfill will not have sufficient airspace to continue ash placement through 2030. This information is presented in the "MSW Landfill" Section under the "MSW Landfill Ash Overlay Remaining Lifespan" subheading.

The MSW Landfill section below summarizes the volume and effective density of MSW and Xcel RDF Ash waste placed during 2024 within the constructed MSW Landfill and Ash Overlay. The following subsection summarizes the remaining lifespan of the constructed landfill. This calculation includes ash volumes assuming all Xcel RDF ash will continue to be placed in the MSW Landfill Ash Overlay. If the ash is placed in the MSW Landfill Ash Overlay, the volume required for ash placement will need to be incorporated with the remaining volume for MSW waste. The remaining life for the MSW Ash Overlay in the MSW Landfill, assuming all ash placement in the MSW Ash Overlay, is presented in the following section.

The "Remaining Permitted Air Space for MSW and Ash Overlay Waste" section presents the total remaining permitted air space in the MSW landfill.

ASH WASTE:

2024 MSW Landfill Ash Overlay Air Space Consumption and Density

Topographic survey of the ash disposal area in the MSW landfill was completed by Paragon Associates, Inc. (Paragon) on December 31, 2024 to calculate the volume of ash placed in the MSW Landfill - Ash Overlay. Topographic data obtained from the 2024 survey in the ash overlay area is provided in Figure 4. Using Civil 3D software, the volume of ash and asbestos fill placed in the MSW Landfill – Ash Overlay between December 26, 2023 and December 31, 2024 was calculated as 13,222 CY and it was assumed that there was no change in intermediate cover in the Ash Overlay. Volume calculations for the ash placed in the MSW Landfill during the survey period are shown on Figure 4.

To determine the amount of ash placed from January 1, 2024 through December 31, 2024, one assumption was made:

1. According to landfill scale records, no ash or asbestos was placed during December 27, 2023 to December 31, 2023 in the Ash Overlay, so no adjustments were made.
2. During Ash Monofill closure activities, an excess of 582 CY of uncompacted ash was removed and hauled to the Ash Overlay. Using a swell factor of 1.3 for compacted and uncompacted ash, a remaining airspace in the monofil of 958 CY, and 1,132.37 tons placed into the ash monofill from December 27, 2023 to February 23, 2024, a tonnage of 529 tons of ash was added to the tonnage placed in the Ash Overlay in 2024.

The amount of air space consumed by ash and asbestos waste in the MSW Ash Overlay between January 1, 2024 and December 31, 2024 was 13,222 CY. The tonnage of ash and asbestos placed between January 1, 2024 and December 31, 2024 was 10,325 tons, and ash density was calculated to be 1,562 lb/cy.

2024 Ash Monofill Air Space Consumption and Closure

Topographic survey of the Ash Monofill was completed by Paragon Associates, Inc. (Paragon) on December 27, 2023 was compared to the constructed final waste grades surface to calculate the volume of ash placed prior to closure in 2024. Topographic data obtained from the 2023 survey in the Ash Monofill is provided in Figure 1. Using Civil 3D software and considering intermediate cover change in

2024, the volume of ash fill placed in the Ash Monofill Landfill between December 27, 2023 and the closure of the landfill was calculated as 947 CY. Volume calculations for the ash placed in the Ash Monofill during the survey period are shown on Figure 1.

The amount of air space consumed in the Ash Monofill between January 1, 2024 and December 31, 2024 was calculated to be 817 CY. To determine the amount of ash placed during this time period, the following adjustments were made:

1. According to landfill scale records, 117 tons of ash was placed during December 27, 2023 to December 31, 2023 in the Ash Monofill. Using 2023 density (between survey dates) of 1,801 lb/cy, this weight equates to 130 CY. This volume was removed to the volume calculated in Civil 3D.
2. During Ash Monofill closure activities, an excess of 582 CY of ash was removed and hauled to the Ash Overlay. Using a swell factor of 1.3 for compacted and uncompacted ash, a remaining airspace in the monofill of 958 CY, and 1,132.37 tons placed into the ash monofil from December 27, 2023 to February 23, 2024, a tonnage of 529 tons of ash was removed from the tonnage placed in the Ash Monofill in 2024.

The amount of air space consumed by ash waste in the Ash Monofill between January 1, 2024 and closure is 817 CY. The tonnage of ash placed between January 1, 2024 and closure is 486 tons, and ash density was calculated to be 1,191 lb/cy.

MSW Landfill Ash Overlay Remaining Lifespan

Figure 5 shows the existing grades and the proposed top of waste grades for ash fill within the designated ash overlay area within the MSW Landfill. This area has been receiving ash since September 1, 2015 and has been approved for ash fill to the proposed top of waste grades as presented on Figure 5. The remaining air space in this area, calculated using Civil 3D software, as of December 31, 2024 is 41,924 CY. If all ash waste were placed in the proposed Ash Overlay footprint, with an annual filling rate of 14,039 CY, the remaining site life is approximately 3.0 years. However, if the 5-year average annual filling rate of 10,114 CY is used, the remaining site life is approximately 4.1 years. The 5-year average, averages the current filling rate 14,039 CY with the prior active four years filling rates of 10,518 CY, 9,993 CY, 9,499 CY, and 6,520 CY.

To maintain the ash disposal location within the MSW landfill, a certain volume needs to be set aside for ash filling through 2030. If this year's ash fill volume of 14,039 CY is used, then as of January 1, 2025 a total of 70,195 CY of ash volume capacity is needed through 2030. If the remaining waste capacity in the MSW Landfill – Ash Overlay is 41,924 CY, then an additional 28,271 CY of air space for ash would be needed through 2030 within the MSW Landfill. If the 5-year average ash filling rate of 10,114 CY is used instead, then approximately 50,570 CY of airspace capacity is needed, which means an additional 8,646 CY of airspace would be needed for ash waste to maintain ash disposal through 2030.

Longer term disposal options for Xcel RDF ash should be considered at this time. Options should also consider the possibility that storage may be required past 2030. Expansion of the current ash overlay to the north or creation of a different location will need to consider the current permit stipulation not allowing placement of MSW above the ash and resulting locational constraints of ash placement on outboard slopes outside of the approved overlay area in Phase 3 through Phase 5. A phasing plan should be prepared to maximize disposal volumes in the existing overlay and to provide ongoing ash disposal in the MSW Landfill. Figure 4 and Figure 5 presents the current maximum Ash Overlay extents.

MSW LANDFILL:

2024 Air Space Consumption and Density for MSW Waste

A topographic existing grades survey of the MSW Landfill was completed by Paragon Associates, Inc. on December 31, 2024. For purposes of this letter, references to MSW waste include construction and demolition waste, landfilled special waste and RDF bottom ash (Cat. 1, 19, 25, 27, 30 and special wastes). Note this does not include RDF ash (Cat. 20) and asbestos (Cat. 6 – Special Waste) waste since it is placed with ash in the MSW Ash Overlay. Topographic data obtained from this survey is provided in Figures 3 through 6. Figure 3 presents filling in Phase VI through Phase VIII between the period from December 27, 2023 and December 31, 2024. After a correction for a net 3,850 CY of intermediate cover removed in Phase VI through Phase VIII Module 2 over the area shown on Figure 3 during the 2024 survey period, the amount of MSW placed in Phase VI through Phase VIII during the 2024 survey period is 111,011 CY.

The total volume placed in the MSW landfill, which does not include the MSW Landfill Ash Overlay, between December 27, 2023 and December 31, 2024 in Phases VI through VIII was calculated as 111,011 CY. To determine the amount of fill placed from January 1, 2024 through December 31, 2024, two adjustments were made:

1. According to the landfill scale records, 875 tons of MSW was placed from December 27, 2023 to December 31, 2023. Using an average with last year's density; 2,344 lb./CY, this weight equates to approximately 746 CY. This volume was subtracted from the volume generated by Civil 3D.
2. Survey indicated that 111,011 CY of MSW waste was placed in the MSW Landfill between December 27, 2023 and December 31, 2024. In order to derive an MSW waste density for 2024, the volume from December 27-31, 2023 of 746 CY was removed, which equates to a volume of 110,265 CY placed in the MSW Landfill in 2024, not including the MSW Ash Overlay. The density was calculated by dividing 115,984 tons by 110,265 CY for a density of 2,104 lb/CY.

As this density does not include air space consumed by ash, it will not be used in remaining life and other density calculations.

Remaining Constructed air space for MSW and Ash Overlay Waste

The amount of air space consumed in the MSW Landfill and Ash Overlay by MSW and ash wastes between January 1, 2024 and December 31, 2024 is 123,487 CY (110,265 CY + 13,222 CY). Densities for previous years are presented in the table below. With scale records showing 126,309 tons of ash, asbestos and MSW waste placed in 2024, the density is approximately 2,046 lb./CY.

MSW Landfill			
Year	**Tonnage Received (Tons)**	**Volume Used (CY)**	**Density (lb./CY)**
2020	116,070	140,096	1,657
2021	109,405	125,609	1,742
2022	106,334	127,425	1,669
2023	115,748	98,853	2,342
2024	126,310	123,487	2,046
avg	**115,627**	**123,094**	**1,850**

Constructed air space is that portion of the fill volume that is within the existing constructed footprint. Figure 6 compares the existing grades and the proposed top of waste grades based on the maximum fill grades and the approximate current intermediate cover volume that would be stripped for waste placement prior to closure. It was determined that the constructed remaining capacity of the MSW Landfill, including the Ash Overlay, is 1,225,461 CY. Figure 5 shows 41,924 CY of remaining air space designated for ash filling in Phases I through V, as of December 31, 2024.

The remaining MSW Landfill constructed air space, calculated using Civil 3D software, as of December 31, 2024 is 1,225,461 CY. This assumes that areas outside current waste filling locations as shown on Figure 6 have 18 inches of intermediate cover, equating to approximately 52,075 CY of intermediate cover which will be stripped and waste placed prior to closure, so this volume was added to the constructed remaining capacity. The remaining constructed capacity as of January 1, 2025 is 1,225,461 CY. Using the average fill volume of 123,094, which is based on the prior five years and current year; the remaining constructed site life for Phases I through VIII is approximately 10.0 years. At this year's MSW and Ash Overlay annual filling rate of 123,487 CY the remaining constructed air space provides approximately 9.9 years of remaining life as of January 1, 2025, and is contingent on accessibility for waste placement.

Remaining Permitted Air Space for MSW and Ash Overlay Waste

Permitted air space is the air space currently permitted for MSW waste. On May 4, 2023, the Plan of Operation for the Phase 2 North Expansion was approved to expand the permitted air space by 3,085,865 CY. The expansion footprint extends due north and contiguous with Phase VIII Module 1 and Module 2. The expansion is comprised of Phases IX and X. Phase IX and Phase X are not yet constructed.

Remaining Phase	Remaining Permitted Airspace (CY)
Phase I through Phase VIII	1,225,461
Phase IX through Phase X	3,085,865
Total	4,311,326

The total remaining permitted waste air space of the MSW Landfill is 4,311,326 CY. Using the average fill volumes of the previous five years; the remaining permitted site life for Phases I through X is 35.0 years. Using this years' fill volume, the remaining permitted site life for Phases I through X is 34.9 years. Fill rates and volumes for the MSW Landfill for previous years are presented in the table on Page 4.

If you have any questions about the information presented herein, please call me at 651.256.0433 or Brian Kent at 608.498.4844.

Sincerely,

SHORT ELLIOTT HENDRICKSON INC.

Trevor T. Romanko, PE (Lic. MN, WI)
Project Engineer

jah
Attachment
c: Lanae Nickelotti, La Crosse County Finance Director
Brian Kent, SEH
x:\ko\l\lacsw\176666\4-prelim-dsgn-rpts\2023 annual air space letter\draft\draft_2023 seh airspace letter_20240125.docx

NOTES:

1. CONTOUR INTERVAL IS 2-FOOT.
2. EXISTING GRADE CONTOURS WITHIN WASTE LIMITS PRODUCED BY SURVEY BY PARAGON ASSOCIATES ON DECEMBER 27, 2023.
3. PROPOSED GRADE CONTOURS WITHIN WASTE LIMITS REPRESENT CONSTRUCTED TOP OF WASTE GRADES FOR THE ASH MONOFILL LANDFILL DURING FINAL CLOSURE.
4. ASH MONOFILL INTERMEDIATE COVER VOLUME IS BASED ON ESTIMATED FINAL CLOSURE CONSTRUCTION VOLUME. VOLUME DETERMINED BY COMPARING CONSTRUCTION QUANTITY BIDDING ESTIMATES AGAINST FINAL CUT VOLUMES.

LEGEND:

- 760 — MAJOR GROUND CONTOUR (DEC. 2023)
- 760 — PROPOSED TOP OF WASTE
- APPROVED WASTE LIMITS
- VOLUME ANALYSIS CALC. BOUNDARY
- APPROXIMATE AREA OF INTERMEDIATE COVER (12") REMOVED

VOLUME ANALYSIS:

INTERMEDIATE COVER CHANGE = 12,918 CY (REMOVED)
(TO BE ADDED TO VOLUME CALCULATION)

ASH MONOFILL - WASTE FILL VOLUME
DESCRIPTION: DEC. 2023 - DEC. 2024 WASTE FILL VOLUME
BASE SURFACE: EXISTING GRADE - DEC 2023
COMPARISON SURFACE: FINAL WASTE GRADES

CUT:15,540 CY
FILL: 3,119 CY
NET: 12,421 CY <CUT>

ASH MONOFILL - WASTE FILL VOLUME
= -12,421 CY + 12,918 CY = **947 CY**

N

40 0 40 80
scale 20 feet

SEH Project	LACSW 183104	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	JAH	.			.		
Designed By	TTR	.			.		
Checked By	TTR	1	ISSUED FOR REVIEW	2/11/2025	.		

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329 JAY STREET, SUITE 301
LA CROSSE, WI 54601-4034
www.sehinc.com

PLANS PREPARED FOR:

LA CROSEE SOLID WASTE DEPT
3200 BERLIN DRIVE
LA CROSSE, WI 54601

LA CROSEE COUNTY LANDFILL
2024 ANNUAL REPORT

ASH MONOFILL - ANNUAL WASTE FILL

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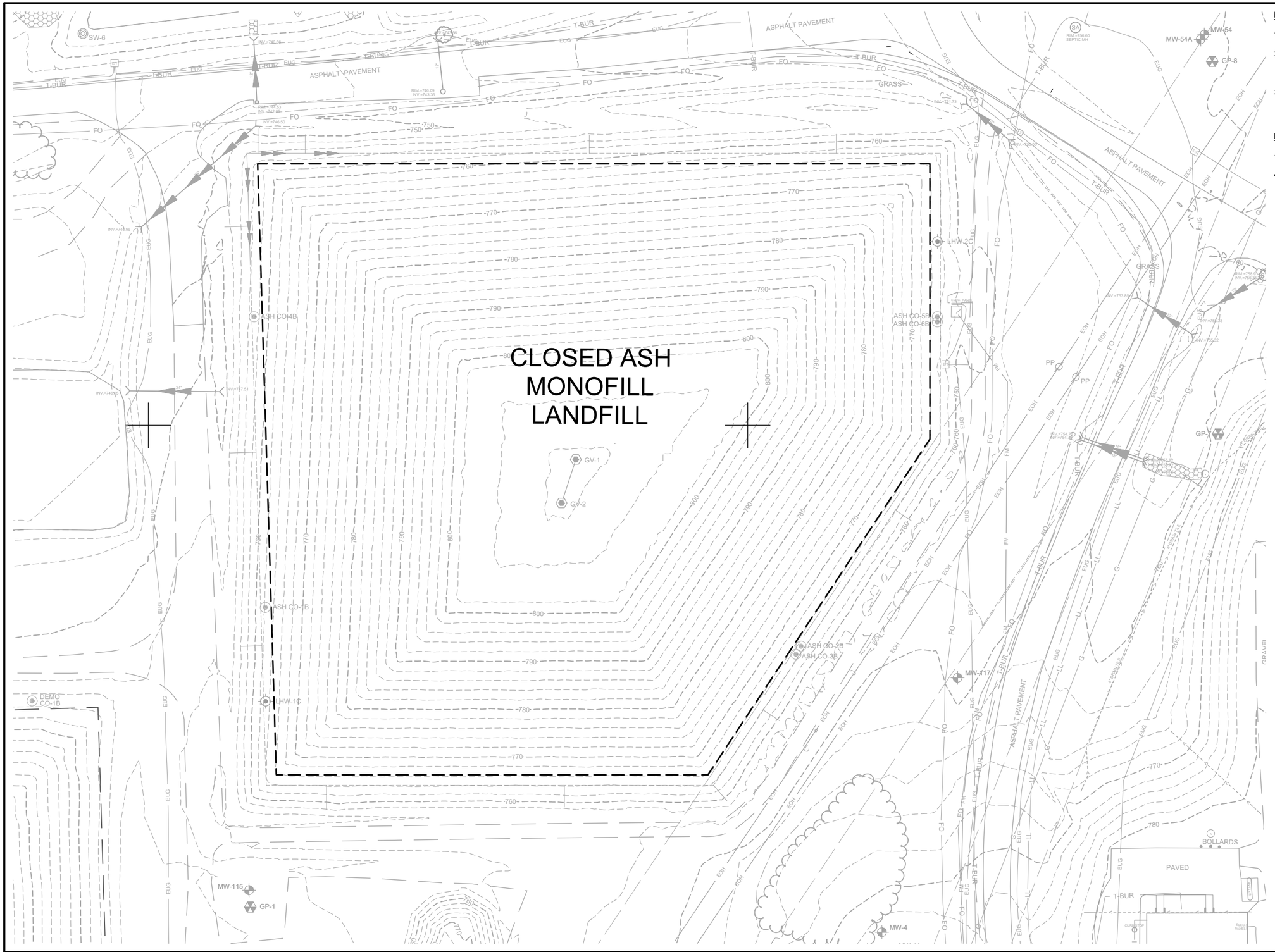

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SEH Project	LACSW 183104	.			.		
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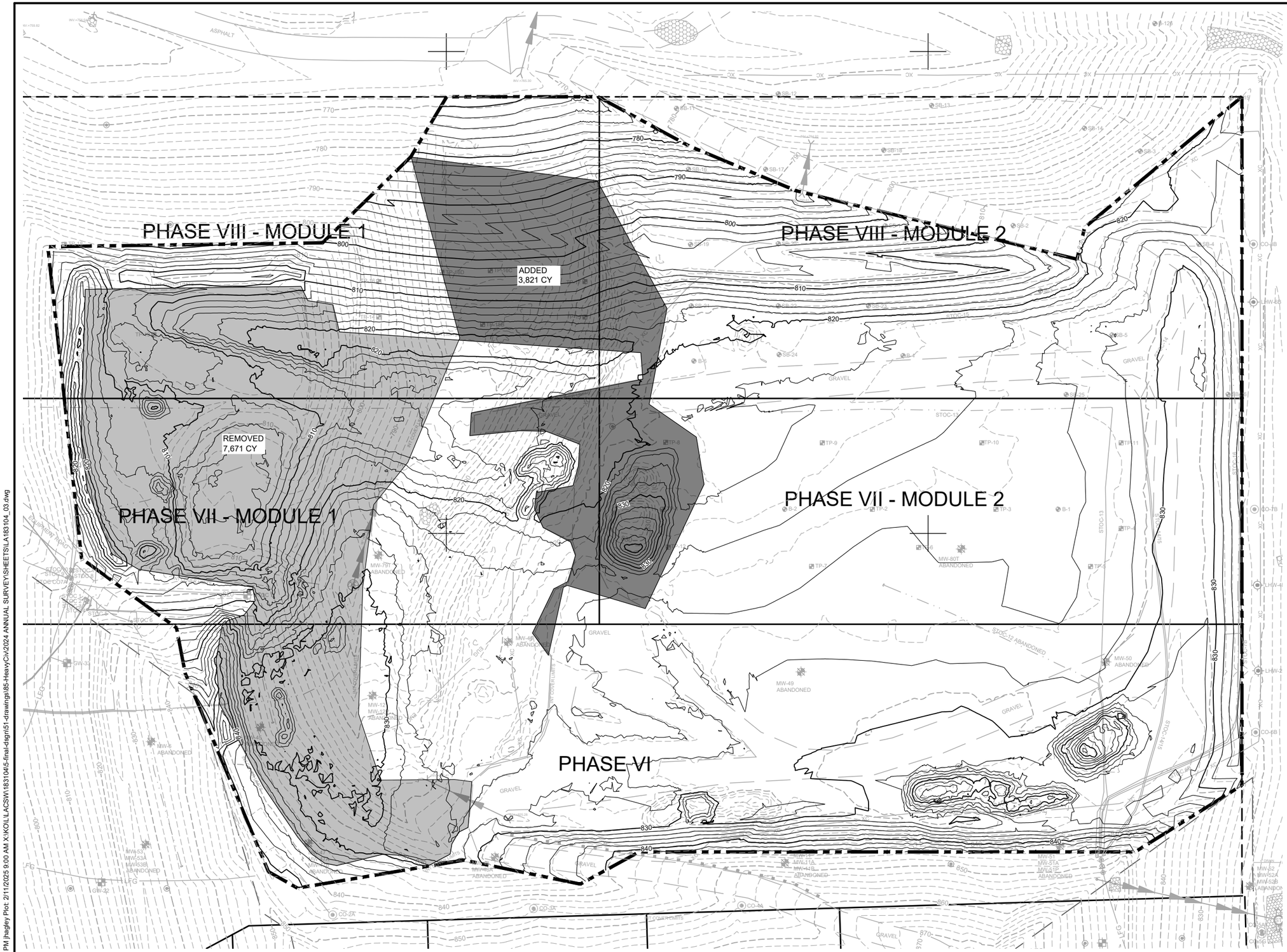
2024 ANNUAL REPORT
ASH MONOFILL - REMAINING FILL



NOTES:

1. CONTOUR INTERVAL IS 2-FOOT.
2. EXISTING GRADE CONTOURS WITHIN WASTE LIMITS PRODUCED BY SURVEY BY PARAGON ASSOCIATES ON DECEMBER 27, 2023.
3. PROPOSED GRADE CONTOURS WITHIN WASTE LIMITS PRODUCED BY MOST RECENT SURVEY BY PARAGON ASSOCIATES ON DECEMBER 31, 2024.

LEGEND:

- 760 — MAJOR GROUND CONTOUR (DEC. 2023)
- 760 — MAJOR GROUND CONTOUR (DEC. 2024)
- APPROVED WASTE LIMITS
- VOLUME ANALYSIS CALC. BOUNDARY
- APPROXIMATE AREA OF INTERMEDIATE COVER (18") ADDED
- APPROXIMATE AREA OF INTERMEDIATE COVER (18") REMOVED

VOLUME ANALYSIS:

INTERMEDIATE COVER: 3,821 CY
- 7,671 CY
= 3,850 CY (CUT)

INTERMEDIATE COVER CHANGE = 3,850 CY <REMOVED>
(TO BE ADDED TO VOLUME CALCULATION)

MSW LANDFILL - WASTE FILL VOLUME
DESCRIPTION: DEC. 2023 TO DEC. 2024 WASTE FILL VOLUME
BASE SURFACE: EXISTING GRADE - DEC 2023
COMPARISON SURFACE: EXISTING GRADE

CUT: 23,305 CY
FILL: 130,466 CY
NET: 107,161 CY <FILL>

MSW LANDFILL - WASTE FILL VOLUME
= 107,161 CY + 3,850 CY= **111,011 CY**

N

50 0 50 100
scale 25 feet

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		Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
SEH Project	LACSW 183104	.			.		
Drawn By	JAH	.			.		
Designed By	TTR	.			.		
Checked By	TTR	1	ISSUED FOR REVIEW	2/11/2025	.		

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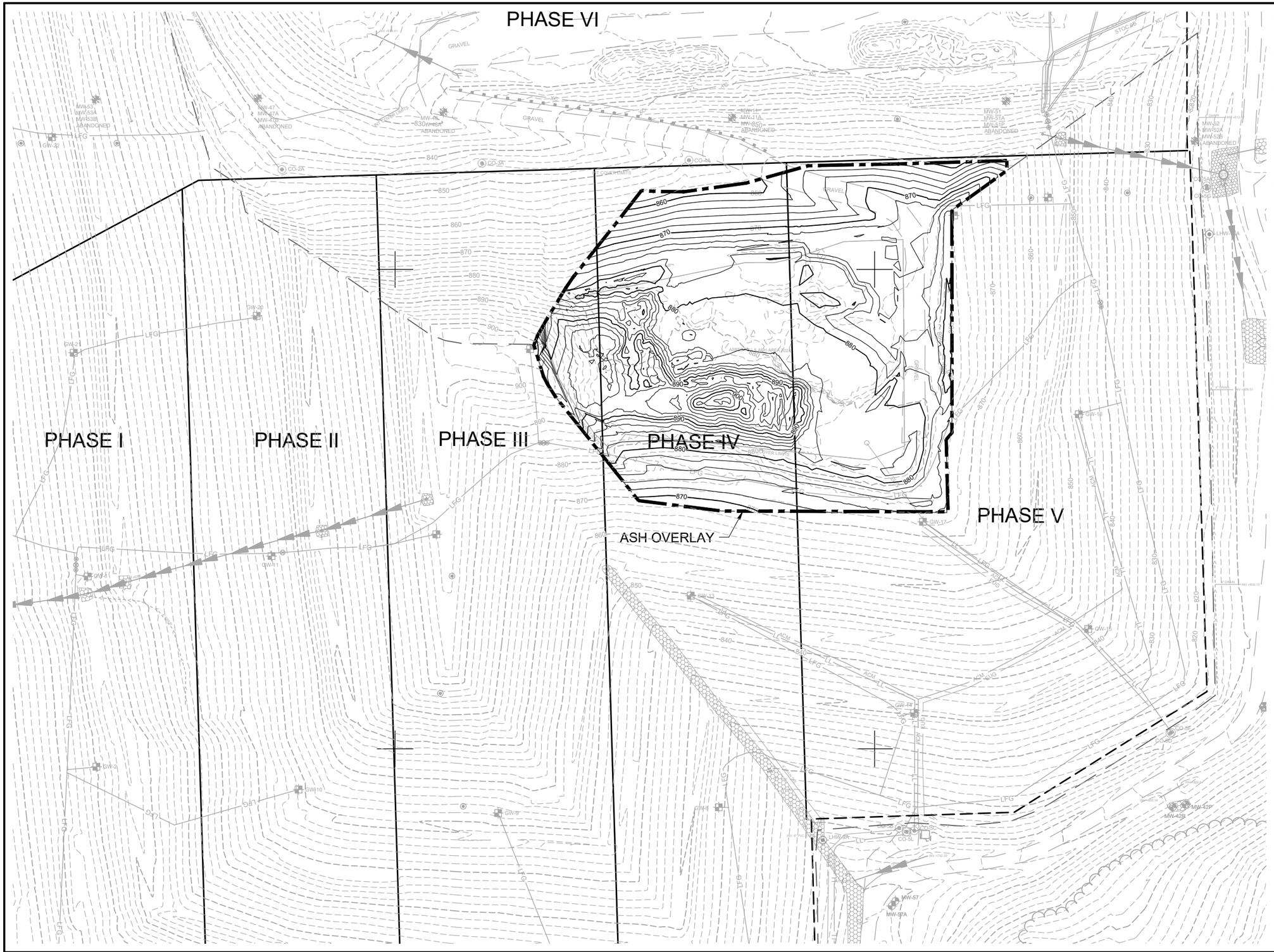
2024 ANNUAL REPORT

MSW LANDFILL - ANNUAL MSW WASTE FILL



NOTES:

1. CONTOUR INTERVAL IS 2-FOOT.
2. EXISTING GRADE CONTOURS WITHIN WASTE LIMITS PRODUCED BY SURVEY BY PARAGON ASSOCIATES ON DECEMBER 27, 2023.
3. PROPOSED GRADE CONTOURS WITHIN WASTE LIMITS PRODUCED BY MOST RECENT SURVEY BY PARAGON ASSOCIATES ON DECEMBER 31, 2024.
4. THE MSW LANDFILL ASH OVERLAY ACCEPTS BOTH ASH AND ASBESTOS WASTE.

LEGEND:

- 760 — MAJOR GROUND CONTOUR (DEC. 2023)
- 760 — MAJOR GROUND CONTOUR (DEC. 2024)
- APPROVED WASTE LIMITS
- VOLUME ANALYSIS CALC. BOUNDARY

VOLUME ANALYSIS:

MSW LANDFILL (ASH OVERLAY) - WASTE FILL VOLUME
DESCRIPTION: DEC. 2023 TO DEC 2024 WASTE FILL VOLUME
BASE SURFACE: EXISTING GRADE - DEC 2023
COMPARISON SURFACE: EXISTING GRADE

CUT: 619 CY
FILL: 13,841 CY
NET: 13,222 CY <FILL>

MSW LANDFILL (ASH OVERLAY) - WASTE FILL VOLUME = **13,222 CY**

N

50 0 50 100
scale 25 feet

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		Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
SEH Project	LACSW 183104	.			.		
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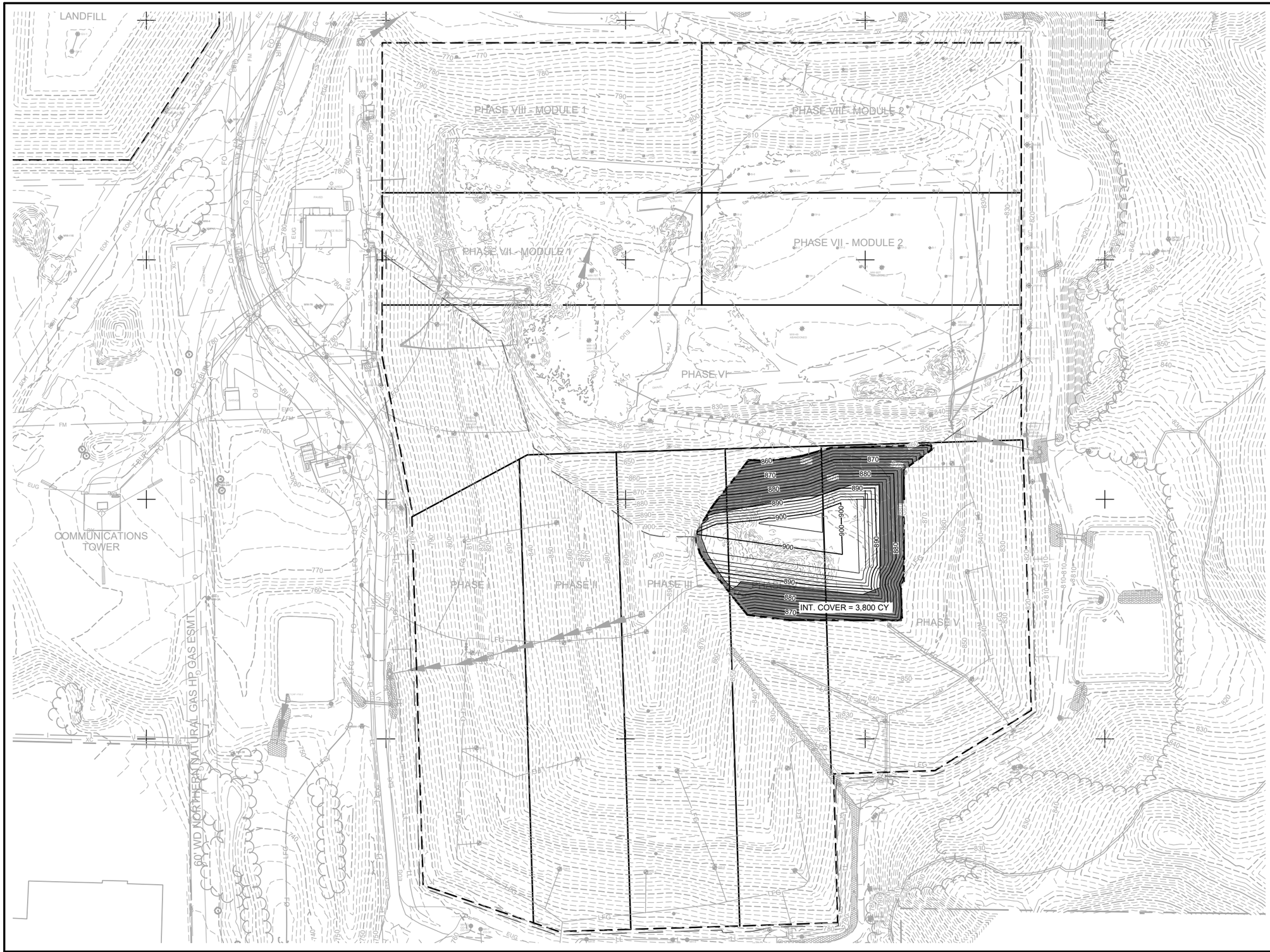
2024 ANNUAL REPORT
MSW LANDFILL (ASH OVERLAY) - ANNUAL ASH WASTE FILL



NOTES:

1. CONTOUR INTERVAL IS 2-FOOT.
2. EXISTING GRADE CONTOURS WITHIN WASTE LIMITS PRODUCED BY MOST RECENT SURVEY BY PARAGON ASSOCIATES ON DECEMBER 31, 2024.
3. PROPOSED CONTOURS REPRESENT PROPOSED TOP OF ASH OVERLAY WASTE ELEVATIONS.

LEGEND:

- 760 — MAJOR GROUND CONTOUR (DEC. 2024)
- 880 — PROPOSED TOP OF ASH WASTE
- APPROVED WASTE LIMITS
- VOLUME ANALYSIS CALC. BOUNDARY
- APPROXIMATE AREA OF INTERMEDIATE COVER (18-INCH)

VOLUME ANALYSIS:

INTERMEDIATE COVER VOLUME ≈ 3,800 CY
(TO BE ADDED TO REMAINING WASTE CAPACITY VOLUME)

ASH OVERLAY REMAINING WASTE CAPACITY
DESCRIPTION: ASH OVERLAY REMAINING WASTE FILL
BASE SURFACE: EXISTING GRADE (DEC. 2024)
COMPARISON SURFACE: MAX TOP OF ASH WASTE

CUT: 1,764 CY
FILL: 39,888 CY
NET: 38,124 CY <FILL>

ASH OVERLAY REMAINING WASTE CAPACITY
= 38,124 CY + 3,800 CY = **41,924 CY**

N

100 0 100 200
scale 50 feet

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LA CROSEE COUNTY LANDFILL
2024 ANNUAL REPORT
MSW LANDFILL (ASH OVERLAY) - REMAINING ASH WASTE FILL

NOTES:

1. CONTOUR INTERVAL IS 2-FOOT.
2. EXISTING GRADE CONTOURS WITHIN WASTE LIMITS PRODUCED BY MOST RECENT SURVEY BY PARAGON ASSOCIATES ON DECEMBER 31, 2024.
3. PROPOSED CONTOURS REPRESENT PROPOSED TOP OF WASTE ELEVATIONS.

LEGEND:

- 760 — MAJOR GROUND CONTOUR (DEC. 2024)
- 880 — PROPOSED TOP OF WASTE
- APPROVED WASTE LIMITS
- VOLUME ANALYSIS CALC. BOUNDARY
- APPROXIMATE AREA OF INTERMEDIATE COVER (18-INCH)

VOLUME ANALYSIS:

INTERMEDIATE COVER VOLUME ≈ 52,075 CY
(TO BE ADDED TO REMAINING WASTE CAPACITY VOLUME)

REMAINING MSW WASTE CAPACITY (INCLUDING ASH OVERLAY)
DESCRIPTION: MSW REMAINING WASTE FILL AND ASH OVERLAY
BASE SURFACE: EXISTING GRADE (DEC. 2024)
COMPARISON SURFACE: FINAL WASTE GRADES

CUT: 34,062 CY
FILL: 1,207,449 CY
NET: 1,173,386 CY <FILL>

MSW REMAINING CONSTRUCTED WASTE CAPACITY
= 1,173,386 CY + 52,075 CY= **1,225,461 CY**

(INCLUDES ASH OVERLAY)

N

100 0 100 200
scale 50 feet

Save: 1/28/2025 2:09 PM jhagley Plot: 2/11/2025 9:05 AM X:\KOI\LLACSW\183104\5-final-dsgn\51-drawings\85-HeavyCiv\2024 ANNUAL SURVEY\SHEETS\LA183104_06.dwg

SEH Project	LACSW 183104
Drawn By	JAH
Designed By	TTR
Checked By	TTR

Rev.#	Revision Issue Description	Date
.		
.		
.		
1	ISSUED FOR REVIEW	2/11/2025

Rev.#	Revision Issue Description	Date
.		
.		
.		
.		

SEH
PHONE: 608.782.3161
329 JAY STREET, SUITE 301
LA CROSSE, WI 54601-4034
www.sehinc.com

PLANS PREPARED FOR:

LA CROSEE SOLID WASTE DEPT
3200 BERLIN DRIVE
LA CROSSE, WI 54601

LA CROSEE COUNTY LANDFILL
2024 ANNUAL REPORT

MSW LANDFILL - REMAINING WASTE FILL

H-2 – Annual Bio-Pile Report

10.2 Treatment of Contaminated Soils

Analysis of Data

This sub-condition requires analyses of data from pretreatment and post-treatment samples of each soil pile, assessment of the reduction of concentration of contaminants in the soil, and length of time used in the processing of each pile.

Pretreatment information is detailed in Section 2.2.

Biopile 20

Pretreatment	Post Treatment
GRO 0 – 47,000	N/A
DRO 0-8,130 PPM	N/A

Total time in active and passive processing = 0-19 months (9.5-month average)

Description of Source and Tonnage of Soils

Contaminated Soil Inventory Biopile
Material Below is Biopile 20

Year	Generator	Tons	DRO	GRO
2023	City of Caledonia	31.70	309	2820
2023	Covia Tunnel City Plant	31.21	4000	
2023	United States Army-Ft. McCoy	82.24	3880	450
2023	City of Waukon	1,120.73	36	47000
2023	Kwik Trip #497	1.51	Local spill assumed >2,000	
2023	Kwik Trip #1114	0.25	Local spill assumed >2,000	
2023	Dairyland Power Cooperative	0.81	Local spill assumed >2,000	
2023	Kwik Trip #619	12.66	Local spill assumed >2,000	
Sub-total 2023		**1281.11**		
2024	Dairyland Power Cooperative	0.15	Local spill assumed >2,000	
2024	Gerke Excavating	26.03	5560	
2024	Dairyland Power Cooperative	0.09	Local spill assumed >2,000	
2024	Dairyland Power Cooperative	22.08	Local spill assumed >2,000	
2024	WisDOT	85.39	27	
2024	City of Winona	13.09	Local spill assumed >2,000	
2024	Pharmacare LTD- Whitehall	315.68	8130	
2024	Mathy Construction	66.77	Local spill assumed >2,000	
2024	Hoffman Construction Company	43.13		
Sub-total 2024		550.81		
Total		**1831.92**		

Record of Operation

This sub-condition requires a record of operation of each soil pile, including total tonnage treated, total time of active operation, and any noticeable effects of temperature and seasonal conditions on the time period used for processing.

Total tons accepted and year soil was received by La Crosse County Solid Waste Department can be viewed in Section 2.2.

Biopile 20 was started in September of 2023 and continues to accept soils.

Description of the Disposition of Soil Used in the Processing Operation

This sub-condition requires a description of the disposition of the soil used in the processing operation, whether by disposal or reuse, including any soil sent to an alternative disposal or treatment facility and disposition of any material rejected from the processing operation or subjected to additional treatment.

For Biopile 20, accepted soil currently being processed, and initial treatment started. No materials were rejected.

Tabulation of Gas Concentration and Ambient Air Data

This sub-condition requires a tabulation of gas concentration data, tabulation of ambient air data, summary of the amount of time soil air was handled by recycle mode and by direct discharge to the atmosphere, and tabulation of any data from testing air discharged to the carbon canisters and atmosphere.

System was operated in recycle mode in 2024.

Carbon Canister Data

This sub-condition requires information on service life and disposal of spent carbon from the carbon canisters.

Carbon canisters are not fully utilized.

Tabulation of Soil Pile Grids

This sub-condition requires tabulation of soil pile grids selected randomly for post treatment sampling and tabulation of post treatment soil testing data.

For Biopile 20, no soil was released for use as ADC/DC in 2024.

Summary of Problems Encountered/Deviations from the Approved Plan

This sub-condition requires a summary of any problems encountered with the soil processing equipment or operation, proposed, or implemented solutions to the problems, and any deviations from the approved plan.

No problems were encountered or were any deviations from the plan required.

Source and Tonnage of Oil Dry Materials

This sub-condition requires a description of the source and tonnage of oil dry materials accepted for treatment and a description of the petroleum products which the oil dry materials were applied to.

The total amount of oil dry material that was accepted into Biopile 20 in 2024 was 0 ton.

Summary of Operational Changes

This sub-condition requires a summary of any changes to the mechanical equipment, operating controls, or methods of operation due to operator experience and technical advance and any plan modifications necessary to incorporate long-term or permanent changes to the plan of operation or approval conditions.

None required in 2024.

5-Year Reporting Requirements

Condition No. 11 of the aforementioned 1996 approval requires that every fifth annual report shall assess the bioremediation process in comparison to recent technical literature regarding aerobic degradation of petroleum hydrocarbons, list the relevant technical references, summarize experience and data from operation of this facility, and propose any changes necessary to incorporate changes into the plan of operation. This information will be presented in the next 5-year reporting period, which is 2027; therefore, no information regarding this requirement is included in the 2024 Annual Report.

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Hoffman Construction Company
2. Generator Mailing Address 123 County Rd A Black River Falls WI 54615
3. Facility Address (site of waste generation) same as above
4. Generator City Black River Falls
5. Generator State/Zip WI
6. General Contact Person Troy Hoffman
   Phone # and email 715-550-1019 (Cell) 715-449-8544 (Work) thoffman@hoffcons.com
7. Technical Contact Person _____
   Phone # and email _____

---

1. Name of Waste Wash Bay Dirt
2. Process Generating Waste Washing Heavy Equipment
3. Waste Color Brown to light Brown
4. Waste Odor ___X___None _____Mild _____ Strong
5. Physical State _____None _____Liquid _____ Semi-Solid Other solid
6. Free Liquids ___X___Yes _____% _____No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A____
8. Flash Point (cc) _X___ None _____<140F _____140-199F _____>200
9. a. Waste Composition:

	Range
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	X	_____
Cyanide	____	X	_____
Sulfide	____	X	_____
Phenol	____	X	_____
Chlorinated Solvents	____	X	_____
Aromatic Solvents	____	X	_____

10. Analytical Laboratory _____
11. Date of Analysis _____

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types Heavy Construction Equipment

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck _X_Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units 50 tons/ 2 loads

   ☐ One-time Disposal
   ☐ On-going Disposal

   Frequency Up to two times a year

3. Hauler Name and Address Hoffman Construction Company
   123 County Rd A Black River Falls WI 54615

4. Bill to Name and Address Hoffman Construction Company
   123 County Rd A Black River Falls WI 54615

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title Jackie Davis / 7/11/23		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature Troy Hoffman

10. Title Service Manager

11. Name (Type or print) Troy Hoffman

12. Date 6-1-2023

DAVY LABORATORIES
A Division of Davy Engineering Co., Inc.
115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

LABORATORY ANALYSIS REPORT

Hoffman Construction
Attn: Paul Werner
123 CTH A
Black River Falls, WI 54615

Date: July 03, 2023
Client No: 11859

Sample No: 23F0647-01
Sample Site: Unknown

Sample Collected: 19-Jun-23 10:00

Sample Received: 21-Jun-23 09:37

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Laboratory Results									
Free Liquid	<	%			1	23-Jun-23 00:00	23-Jun-23 00:00	EPA 9095B	A-01

Submitted by:
Davy Laboratories

Jennifer M. Buchholz
Jennifer M. Buchholz, Laboratory Director

The laboratory analyses reported were determined in accordance with methods from approved authoritative sources. Approved authoritative sources are defined and listed within the respective state certification codes. The results are representative of the samples only; conditions can be expected to vary at different times and under different sampling conditions. This report may not be reproduced, except in full, without the written approval of the laboratory.
WI Certification 632021390 and WI DATCP 105-216, MN NELAC Certification 055-999-151, IA Certification 304. Revision #3 - 7/29/2019

DAVY LABORATORIES
A Division of Davy Engineering Co., Inc.
115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

LABORATORY ANALYSIS REPORT

Hoffman Construction
Attn: Paul Werner
123 CTH A
Black River Falls, WI 54615

Date: July 03, 2023
Client No: 11859

Sample No: 23F0647-02
Sample Site: Unknown

Sample Collected: 19-Jun-23 10:00

Sample Received: 21-Jun-23 09:37

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Laboratory Results									
Oil & Grease (HEM)	**22000**	**mg/kg (dry wt.) dry**	46.6	181	1	29-Jun-23 10:00	29-Jun-23 10:00	EPA 1664B-2010	QM-07
% Solids	**96.5**	**% by Weight**			1	21-Jun-23 16:07	22-Jun-23 15:18	SM 2540 G-2011	

DAVY LABORATORIES
A Division of Davy Engineering Co., Inc.
115 6th Street South
La Crosse, WI 54601
(608) 782-3130
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LABORATORY ANALYSIS REPORT

Hoffman Construction
Attn: Paul Werner
123 CTH A
Black River Falls, WI 54615

Date: July 03, 2023
Client No: 11859

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A-01	Subcontract Lab #: 445023150
LOD	Limit of Detection, adjusted for the dilution factor
LOQ/RL	Limit of Quantitation/Reporting Limit, adjusted for the dilution factor

Total metals are equivalent to total recoverable metals.

Cooler Information

Temperature °C	
Received on Ice	No
Required COC Information completed	No
Sample labels match COC	No
All samples received in the appropriate Containers	Yes
All samples received with sufficient volume	Yes
All samples received with sufficient holding time	Yes
All sample bottles received with H2SO4 were pH <2	No
All sample bottles received with HNO3 were pH <2	No
All sample bottles received with HCl were pH <2	No
All sample bottles received with NaOH were pH >12	No
All sample bottles for cyanide confirmed Sulfide absent	No
All sample bottles for cyanide confirmed Residual Cl absent	No
Preservation of VOC samples checked by the analyst.	
Preservation of FOG samples checked by the analyst.	
Residual Chlorine absent checked by the analyst unless noted above.	

Case Narrative

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Dairyland Power 9-19-24
2. Generator Mailing Address 3200 East Ave South
   La Crosse, WI 54602
3. Facility Address (site of waste generation) 2442 Madison Rd, Decorah, IA 52101
4. Generator City Decorah
5. Generator State/Zip IA, 52101
6. General Contact Person Brian Kalvelage
   Phone # and email 608 792-2543, Brian.Kalvelage@Dairylandpower.com
7. Technical Contact Person SAME
   Phone # and email "

---

1. Name of Waste Soil + wood debris w/ hydraulic oil
2. Process Generating Waste Equipment hydraulic oil leak to ground.
3. Waste Color Brown
4. Waste Odor ____None __X__Mild ____Strong
5. Physical State ____None ____Liquid ____Semi-Solid Other Solid
6. Free Liquids ____Yes ____% __✓__No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A__✓__
8. Flash Point (cc) __✓__ None ____<140F ____140-199F ____>200
9. a. Waste Composition:

	Range
Soil/gravel	70 to 80 %
Wood/veg debris	10 to 15 %
Hydraulic oil	5 to 10 %
	____ to ____ %
	____ to ____ %

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	✓	____
Cyanide	____	✓	____
Sulfide	____	✓	____
Phenol	____	✓	____
Chlorinated Solvents	____	✓	____
Aromatic Solvents	____	✓	____

10. Analytical Laboratory N/A
11. Date of Analysis N/A

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge ____Yes ✓No
Tank interiors ____Yes ✓No
Vehicle types ✓ N/A

PART C: TRANSPORTATION INFORMATION

1. Method of delivery ✓Drum ____Paper Truck ____Dump Truck
____Roll-off ✓Other Heavy Mil. trash bags

2. Waste Quantity/Units 30 gallons ±

☑ One-time Disposal
☐ On-going Disposal

Frequency —

3. Hauler Name and Address Dairyland Power
3251 East Ave South
Lacrosse, WI 54602

4. Bill to Name and Address Dairyland Power – Attention Veg. Mgmt.
3200 East Ave South
La Crosse, WI 54602

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title Bryce Gerke	Department Technician	

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations. ✓
2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here N/A.
3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code. ✓
4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex). ✓
5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis. ✓
6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed. ✓
7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules. ✓
8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County. ✓
9. Signature _____
10. Title Water and Waste Specialist III
11. Name (Type or print) Brian Kalvelage
12. Date 9-19-24

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Gerke Excavating Inc
2. Generator Mailing Address 15341 State Hwy 131
3. Facility Address (site of waste generation) Hwy 21
4. Generator City Tomah
5. Generator State/Zip 54660
6. General Contact Person *optional Gerke or Braun Intertec
   Phone # and email 608-372-4203 - Gerke Excavating
7. Technical Contact Person John Wyciskalla
   Phone # and email 608.796.5046 jwyciskalla@braunintertec.com

---

1. Name of Waste Soil with diesel associated with vehicle accident
2. Process Generating Waste roadside excavation
3. Waste Color brown
4. Waste Odor _____None x_____Mild _____ Strong
5. Physical State _____None _____Liquid _____ Semi-Solid Other solid
6. Free Liquids _____Yes _____% x_____No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A____
8. Flash Point (cc) _____ None _____<140F _____140-199F _____>200
9. a. Waste Composition:

	Range
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	____	x
Cyanide	____	____	x
Sulfide	____	____	x
Phenol	____	____	x
Chlorinated Solvents	____	____	x
Aromatic Solvents	____	____	x

10. Analytical Laboratory Pace Analytical
11. Date of Analysis July 24, 2024

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes x_____No
Tank interiors _____Yes x_____No
Vehicle types N/A

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck x_____Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units _____

   ☐ One-time Disposal
   ☐ On-going Disposal

   Frequency_____

3. Hauler Name and Address Gerke Excavating
   15341 State Hwy 131
   Tomah, WI 54660

4. Bill to Name and Address Gerke Excavating
   15341 State Hwy 131
   Tomah, WI 54660

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title Bryce Gerke / Department Technician		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature

10. Title Estimator

11. Name (Type or print) Kurt Thornton

12. Date 11/18/24

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

July 24, 2024

John Wyciskalla
Braun Intertec Corporation
2309 Palace Street
La Crosse, WI 54603

RE: Project: SPILL INCIDENT - TOMAH
Pace Project No.: 40281401

Dear John Wyciskalla:

Enclosed are the analytical results for sample(s) received by the laboratory on July 19, 2024. 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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

CERTIFICATIONS

Project: SPILL INCIDENT - TOMAH
Pace Project No.: 40281401

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: SPILL INCIDENT - TOMAH
Pace Project No.: 40281401

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40281401001	**SPILL**	Solid	07/18/24 00:00	07/19/24 10:25

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: SPILL INCIDENT - TOMAH
Pace Project No.: 40281401

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40281401001	**SPILL**	WI MOD DRO	CAH	1
		EPA 8260	ALD	4
		ASTM D2974-87	NMK	1

PASI-G = Pace Analytical Services - Green Bay

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

SUMMARY OF DETECTION

Project: SPILL INCIDENT - TOMAH
Pace Project No.: 40281401

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40281401001	**SPILL**					
WI MOD DRO	Diesel Range Organics	5560	mg/kg	381	07/24/24 12:09	DC
ASTM D2974-87	Percent Moisture	6.8	%	0.10	07/19/24 16:53	

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

ANALYTICAL RESULTS

Project: SPILL INCIDENT - TOMAH
Pace Project No.: 40281401

Sample: SPILL **Lab ID: 40281401001** Collected: 07/18/24 00:00 Received: 07/19/24 10:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Green Bay								
Diesel Range Organics	**5560**	mg/kg	381	114	100	07/23/24 08:47	07/24/24 12:09		DC
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<0.014**	mg/kg	0.023	0.014	1	07/22/24 10:00	07/22/24 16:43	71-43-2	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	141	%	67-144		1	07/22/24 10:00	07/22/24 16:43	2199-69-1	
4-Bromofluorobenzene (S)	139	%	72-142		1	07/22/24 10:00	07/22/24 16:43	460-00-4	
Toluene-d8 (S)	136	%	70-139		1	07/22/24 10:00	07/22/24 16:43	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.8**	%	0.10	0.10	1		07/19/24 16:53		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: SPILL INCIDENT - TOMAH
Pace Project No.: 40281401

QC Batch: 480005
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40281401001

METHOD BLANK: 2749192 Matrix: Solid
Associated Lab Samples: 40281401001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	<0.012	0.020	07/22/24 10:53	
1,2-Dichlorobenzene-d4 (S)	%	108	67-144	07/22/24 10:53	
4-Bromofluorobenzene (S)	%	113	72-142	07/22/24 10:53	
Toluene-d8 (S)	%	108	70-139	07/22/24 10:53	

LABORATORY CONTROL SAMPLE: 2749193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	2.5	2.6	105	70-130	
1,2-Dichlorobenzene-d4 (S)	%			111	67-144	
4-Bromofluorobenzene (S)	%			122	72-142	
Toluene-d8 (S)	%			113	70-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2749194 2749195

Parameter	Units	40281405003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	mg/kg	<17.4 ug/kg	1.5	1.5	1.6	1.3	107	88	70-130	20	20	
1,2-Dichlorobenzene-d4 (S)	%						131	128	67-144			
4-Bromofluorobenzene (S)	%						147	141	72-142			S0
Toluene-d8 (S)	%						134	134	70-139			

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

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(920)469-2436

QUALITY CONTROL DATA

Project: SPILL INCIDENT - TOMAH
Pace Project No.: 40281401

QC Batch: 480073
QC Batch Method: WI MOD DRO
Analysis Method: WI MOD DRO
Analysis Description: WIDRO GCS
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40281401001

METHOD BLANK: 2749535 Matrix: Solid
Associated Lab Samples: 40281401001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<1.3	4.3	07/24/24 09:27	

LABORATORY CONTROL SAMPLE & LCSD: 2749536 2749537

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	39.9	28.7	28.4	72	71	70-120	1	20	

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: SPILL INCIDENT - TOMAH
Pace Project No.: 40281401

QC Batch: 479959
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40281401001

SAMPLE DUPLICATE: 2748854

Parameter	Units	40281382025 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.1	21.0	1	10	

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

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Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: SPILL INCIDENT - TOMAH
Pace Project No.: 40281401

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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.

ANALYTE QUALIFIERS

DC	Chromatographic pattern inconsistent with typical Diesel Fuel.
S0	Surrogate recovery outside laboratory control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SPILL INCIDENT - TOMAH
Pace Project No.: 40281401

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40281401001	**SPILL**	WI MOD DRO	480073	WI MOD DRO	480131
40281401001	**SPILL**	EPA 5035/5030B	480005	EPA 8260	480006
40281401001	**SPILL**	ASTM D2974-87	479959		

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40281401

Pace® Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name: Braun Intertec	Contact/Report To: John Wyciskalla
Street Address: 2309 Palace Street La Crosse, WI	Phone #: 608-781-7277
	E-Mail: jwyciskalla@braunintertec.com
	Cc E-Mail
Customer Project #: B2406434	Invoice to: Braun Intertec
Project Name: Spill Incident - Tomah	Invoice E-mail.
Site Collection Info/Facility ID (as applicable): Hwy 21 near Flagpole Ave	Purchase Order # (if applicable): B2406434
	Quote #:
Time Zone Collected [ ] AK [ ] PT [ ] MT [X] CT [ ] ET	County / State origin of sample(s): Monroe / WI
Data Deliverables [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc) as applicable. Reportable [ ] Yes [X] No
	Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day Other STD TAT
	Date Results Requested:
	DW PWSID # or WW Permit # as applicable
	Field Filtered (if applicable). [ ] Yes [ ] No
	Analysis.

Specify Container Size **: 10

Identify Container Preservative Type***: 1

Analysis Requested

**Container Size (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj Mgr: | AcctNum / Client ID: | Table #: | Profile / Template: | Prelog / Bottle Ord. ID.

Preservation non-conformance identified for sample

* Matrix Codes (insert in Matrix box below) Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Residual Chlorine Result	Residual Chlorine Units	Benzene	DRO	Sample Comment
Spill	SS	G			7/18/24		3			X	X	C101

Additional Instructions from Pace®.

Collected By: Printed Name: Grerke

Signature

Customer Remarks / Special Conditions / Possible Hazards.

Coolers. Thermometer ID Correction Factor (°C). Obs. Temp. (°C): Corrected Temp (°C) [ ] On Ice

Relinquished by/Company (Signature)	Date/Time	Received by/Company (Signature)	Date/Time	Tracking Number
[signature]	7/18/24 / 11am	Vikki Rhode	7/18/24 / 11am	
Vikki Rhode	7/18/24 / 1137			Delivered by: [ ] In-Person [ ] Courier
FedEx	7/19/24 1025	[signature]	7/19/24 1025	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company (Signature)	Date/Time	Received by/Company (Signature)	Date/Time	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www pacelabs com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Sample Preservation Receipt Form

Client Name: Braun Intertec
Project # 40281401

All containers needing preservation have been checked and noted below: ☐Yes ☐No ~~☐N/A~~

Lab Lot# of pH paper:

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

Initial when completed:

Date/ Time:

	Glass							Plastic						Vials						Jars				General								
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		1				1	1										2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013					MH 7/19/24																													2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

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	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40281401

40281401

Client Name: Braun Intertec

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

Tracking #: 5092 4935 8104

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 - 120 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 1.0 /Corr: 1.0

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

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

Person examining contents:
Date: 7/19/24 /Initials: MH

Labeled By Initials: YP

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
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.
- DI 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.
Correct Type: Pace Green Bay, Pace IR, Non-Pace		
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: S	☒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 logi

Page 2 of 2

200 Sieve Loss By Washing

ASTM D1140

Report Date: 07/22/2024

2309 Palace Street
La Crosse, WI 54603
Phone: 608-781-7277

Client:

Gerke Excavating, Inc.
15341 State HWY 131
Tomah, WI 54660

Project:

B2406434
Spill Incident
Highway 21 and Near Flagpole Avenue
Tomah, WI 54660

Sample Information

Sample Number:	603084	**Source:**	On Site
Sampling Method:	Not Provided	**Sampled By:**	Client
Location:	Not Given		
Location Details:	Gerke Spill Incident		
Specification:	For Informational Purposes Only		
Sample Date:	07/18/2024	**Material:**	Existing Onsite
Received Date:	07/18/2024	**Lab:**	2309 Palace Street, La Crosse, WI
Tested Date:	07/22/2024	**Tested By:**	Felker, Timothy

Laboratory Data

Loss By Washing (%):	12	**Method Used:**	Method A Soak In Water
Maximum Particle Size:	75 mm (3 inch) to 4.75 mm (No. 4)	**Soaking Time (min):**	30
Soil Classification:	SP-SM Poorly graded sand with silt		

General

Results: The test is for informational purposes.

Timothy Felker 07/22/2024

Uncertainty was not taken into account in determining whether the test results meet the requirements. The results included in this report relate only to the items inspected or tested. Sampled per project specifications or industry standards. Also, this report is for the exclusive use of the addressed parties. We assume no responsibility to other parties regarding this report. The information indicated in this report shall not be reproduced, except in full, without prior written approval.

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Dairyland Power Co-Op
2. Generator Mailing Address 3200 EAST AVE SOUTH
   La Crosse, WI 54602
3. Facility Address (site of waste generation) #24346 City Road 119
4. Generator City St. Charles
5. Generator State/Zip MN
6. General Contact Person Brian Kalvelage
   Phone # and email 608 792-2543, Brian.Kalvelage@Dairylandpower.com
7. Technical Contact Person
   Phone # and email Same

---

1. Name of Waste Veg debris and soil w/ hydraulic oil
2. Process Generating Waste wood chipper had a blown hydraulic line
3. Waste Color Brown/Tan
4. Waste Odor ____None __X__Mild ____Strong
5. Physical State ____None ____Liquid ____Semi-Solid Other Solid
6. Free Liquids ____Yes ____% __X__No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A__X__
8. Flash Point (cc) __X__ None ____<140F ____140-199F ____>200
9. a. Waste Composition:

	Range
90% Soil/Corn stubble	85 to 95 %
hydraulic oil	5 to 15 %
	____ to ____ %
	____ to ____ %
	____ to ____ %

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	X	____
Cyanide	____	X	____
Sulfide	____	X	____
Phenol	____	X	____
Chlorinated Solvents	____	X	____
Aromatic Solvents	____	X	____

12-19-21

10. Analytical Laboratory None
11. Date of Analysis — NA

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types NA

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck _____Dump Truck
_____Roll-off X Other 5 - 5-gallon buckets

2. Waste Quantity/Units 25 gallons in 5-gallon buckets

☒ One-time Disposal
☐ On-going Disposal

Frequency —

3. Hauler Name and Address Dairyland Power - Co-op
3251 EAST AVE - SOUTH
LACROSSE, WI 54602

4. Bill to Name and Address Dairyland Power Cooperative
3200 EAST AVE. South
Lacrosse, WI 54602

Attn: Veg. Mgmt.

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title Bryce Gerke / Department Technician		

12-19-24

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations. ✓
2. This waste ___does ___(does not) contain regulated radioactive materials and ___does ___(does not) contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.
3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code. ✓
4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex). ✓
5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis. ✓
6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed. ✓
7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules. ✓
8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County. ✓
9. Signature [signature]
10. Title Water + Waste Specialist III
11. Name (Type or print) Brian Kalvelage
12. Date 12-19-24

1-11-24

Darlington Spill (1-3-24)

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Dairyland Power Cooperative
2. Generator Mailing Address 3200 EAST AVE SOUTH La Crosse, WI 54602
3. Facility Address (site of waste generation) S109, LN239, Darlington, WI (Sect 26)
4. Generator City Darlington
5. Generator State/Zip WI
6. General Contact Person Brian Kalwelage
   Phone # and email 608 792 2543
7. Technical Contact Person SAME
   Phone # and email "

---

1. Name of Waste Soil/gravel w/ hydraulic oil
2. Process Generating Waste hydraulic line break
3. Waste Color Dark Brown
4. Waste Odor ____None ✓ Mild ____ Strong
5. Physical State ____None ____Liquid ____ Semi-Solid Other Solid
6. Free Liquids ____Yes ____% ____No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A ✓
8. Flash Point (cc) ✓ None ____<140F ____140-199F ____>200
9. a. Waste Composition:

	Range
80% Soil/organic debris	80 to 90 %
hydraulic oil	10 to 20 %
	____ to ____ %
	____ to ____ %
	____ to ____ %

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	✓	____
Cyanide	____	✓	____
Sulfide	____	✓	____
Phenol	____	✓	____
Chlorinated Solvents	____	✓	____
Aromatic Solvents	____	✓	____

1-11-24

10. Analytical Laboratory NO (HVI 46 Hydraulic oil)
11. Date of Analysis N/A

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types _____

N/A

PART C: TRANSPORTATION INFORMATION

1. Method of delivery __X__Drum _____Paper Truck _____Dump Truck
_____Roll-off _____Other _____

2. Waste Quantity/Units 2 55-gallon drums

☒ One-time Disposal
☐ On-going Disposal

Frequency —

3. Hauler Name and Address Dairyland Power
3251 East Ave South
Lacrosse, WI ~~54658~~ 54602

4. Bill to Name and Address Dairyland Power
3200 East Ave South
Lacrosse, WI 54602

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title Bryce Jerke, Department Technician		

1-11-24

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations. ✓
2. This waste ___does __(does not contain regulated radioactive materials and ___does __(does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.
3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code. ✓
4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex). ✓
5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis. ✓
6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed. ✓
7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules. ✓
8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County. ✓
9. Signature Brian Kalvelage
10. Title Water + Waste Specialist III
11. Name (Type or print) Brian Kalvelage
12. Date 1-11-2024

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name WisDOT
2. Generator Mailing Address 2101 Wright St. Madison, WI 53704-2559
3. Facility Address (site of waste generation) STH 58 from Lee Lake Bridge to STH 33
4. Generator City Cazenovia
5. Generator State/Zip WI/53924
6. General Contact Person Graham Fazio
   Phone # and email 414-791-6995 Graham.Fazio@Ramboll.com
7. Technical Contact Person Same as above
   Phone # and email Same as above

---

1. Name of Waste Petroleum Impacted Soil
2. Process Generating Waste Road construction along STH 58 from Lee Lake Bridge to STH 33. Some material being excavated is impacted. Petroleum source is unleaded gasoline.
3. Waste Color dark brown to dark gray
4. Waste Odor _____None Mild_____Mild _____ Strong
5. Physical State Solid_____None _____Liquid _____ Semi-Solid Other_____
6. Free Liquids _____Yes _____% X_____No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A X____
8. Flash Point (cc) X____ None _____<140F _____140-199F _____>200
9. a. Waste Composition:

	Range
Soil (Clay, Sand, Silt, Gravel)	100 to 100 %
	_____ to _____ %
	_____ to _____ %
	_____ to _____ %
	_____ to _____ %

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS			X
Cyanide			X
Sulfide			X
Phenol		X	
Chlorinated Solvents		X	
Aromatic Solvents			X

10. Analytical Laboratory Eurofins Environment Testing America
11. Date of Analysis 6/18/2020

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck X Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units 100 Tons

   ☑ One-time Disposal
   ☐ On-going Disposal

   Frequency Multiple days during construction

3. Hauler Name and Address _____

4. Bill to Name and Address Gerke Excavating, Inc.
   15341 STATE HIGHWAY 131
   TOMAH WI 54660

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	■ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	■ Yes	☐ No
5) Signature/Title Bryce Gerke / Department Tech.		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature _____

10. Title Senior Project Scientist _____

11. Name (Type or print) Graham Fazio _____

12. Date 5/6/2024 _____

eurofins | Environment Testing America

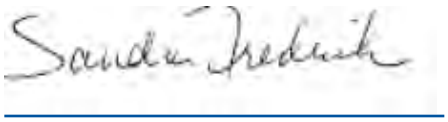
ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-183818-1
Client Project/Site: WisDOT STH 58 ph. 2.5 - 75828

For:
Ramboll US Corporation
234 W. Florida Street
Fifth Floor
Milwaukee, Wisconsin 53204

Attn: Dan Vachon



Authorized for release by:
7/6/2020 11:10:35 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-183818-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-183818-1

Comments
No additional comments.

Receipt
The samples were received on 6/19/2020 9:50 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4º C.

Receipt Exceptions
For samples 5-7 COC has 6010C & 7471B, bottles have RCRA & Cu, Mo, & Zn, logged per bottles. For sample 9 COC has 6010B & 7470A, bottle have TCLP Metals, logged per bottle.

GC/MS VOA
Method 5035: sample vial has < 8 grams of soil in 10 ml of methanol. SB03 0-2 (500-183818-3) and SB06 2-4 (500-183818-6)

Methods 624, 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB06 2-4 (500-183818-6). Elevated reporting limits (RLs) are provided.

Method 8260B: Surrogate recovery for the following sample was outside control limits: SB06 2-4 (500-183818-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC/MS Semi VOA
Method 8270D: The following samples contained one acid surrogate outside acceptance limits: (LCS 500-549546/2-A). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

GC Semi VOA
Method 8082A: The following samples were diluted due to the nature of the sample matrix: SB05 0-2 (500-183818-5), SB06 2-4 (500-183818-6) and SB07 2-4 (500-183818-7). Elevated reporting limits (RLs) are provided.

Method 8082A: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: SB05 0-2 (500-183818-5), SB06 2-4 (500-183818-6) and SB07 2-4 (500-183818-7). The reagent lot number used was: 250307.

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following sample was outside the upper control limit: SB06 2-4 (500-183818-6). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

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

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

Detection Summary

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Job ID: 500-183818-1

Client Sample ID: SB01 2-4 — Lab Sample ID: 500-183818-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	68		0.52	0.24	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SB02 0-2 — Lab Sample ID: 500-183818-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	82		0.58	0.27	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SB03 0-2 — Lab Sample ID: 500-183818-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	120		0.54	0.25	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SB04 0-2 — Lab Sample ID: 500-183818-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	160		0.54	0.25	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SB05 0-2 — Lab Sample ID: 500-183818-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.0		1.0	0.36	mg/Kg	1	☼	6010C	Total/NA
Barium	42		1.0	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.10	J B	0.21	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	6.3		1.0	0.51	mg/Kg	1	☼	6010C	Total/NA
Copper	8.8		1.0	0.29	mg/Kg	1	☼	6010C	Total/NA
Lead	13		0.52	0.24	mg/Kg	1	☼	6010C	Total/NA
Zinc	18		2.1	0.91	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.017		0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB06 2-4 — Lab Sample ID: 500-183818-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	24000		220	130	ug/Kg	500	☼	8260B	Total/NA
Ethylbenzene	170000		220	160	ug/Kg	500	☼	8260B	Total/NA
Isopropylbenzene	20000		860	330	ug/Kg	500	☼	8260B	Total/NA
Naphthalene	41000		860	290	ug/Kg	500	☼	8260B	Total/NA
N-Propylbenzene	45000		860	360	ug/Kg	500	☼	8260B	Total/NA
p-Isopropyltoluene	9000		860	310	ug/Kg	500	☼	8260B	Total/NA
sec-Butylbenzene	7400		860	340	ug/Kg	500	☼	8260B	Total/NA
Toluene	41000		220	130	ug/Kg	500	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	85000		860	330	ug/Kg	500	☼	8260B	Total/NA
1,2,4-Trimethylbenzene - DL	270000		8600	3100	ug/Kg	5000	☼	8260B	Total/NA
Xylenes, Total - DL	620000		4300	1900	ug/Kg	5000	☼	8260B	Total/NA
Arsenic	7.7		1.1	0.36	mg/Kg	1	☼	6010C	Total/NA
Barium	69		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Chromium	14		1.1	0.53	mg/Kg	1	☼	6010C	Total/NA
Copper	4.8		1.1	0.30	mg/Kg	1	☼	6010C	Total/NA
Lead	18		0.53	0.25	mg/Kg	1	☼	6010C	Total/NA
Molybdenum	0.60	J	1.1	0.44	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.74	J	1.1	0.63	mg/Kg	1	☼	6010C	Total/NA
Zinc	21		2.1	0.93	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.023		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Job ID: 500-183818-1

Client Sample ID: SB07 2-4 — Lab Sample ID: 500-183818-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	150		20	15	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	34	J	80	27	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	51	J	80	33	ug/Kg	50	☼	8260B	Total/NA
Toluene	35		20	12	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	270		80	29	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	91		80	30	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	670		40	18	ug/Kg	50	☼	8260B	Total/NA
Arsenic	6.9		1.0	0.35	mg/Kg	1	☼	6010C	Total/NA
Barium	78		1.0	0.12	mg/Kg	1	☼	6010C	Total/NA
Chromium	12		1.0	0.51	mg/Kg	1	☼	6010C	Total/NA
Copper	4.2		1.0	0.29	mg/Kg	1	☼	6010C	Total/NA
Lead	9.5		0.52	0.24	mg/Kg	1	☼	6010C	Total/NA
Zinc	23		2.1	0.90	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.031		0.018	0.0058	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: Trip Blank 01 — Lab Sample ID: 500-183818-8

No Detections.

Client Sample ID: Composite 01 — Lab Sample ID: 500-183818-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	1100		75	9.0	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	2200		75	6.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	8.2	J	37	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	28	J	37	7.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	36	J	37	8.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	26	J	37	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	23	J	37	10	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	12	J	37	6.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	16	J	37	5.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	20	J	37	5.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	42		37	7.3	ug/Kg	1	☼	8270D	Total/NA
Naphthalene - DL	3000		180	28	ug/Kg	5	☼	8270D	Total/NA
WI Diesel Range Organics (C10-C28)	27		4.4	1.8	mg/Kg	1	☼	WI-DRO	Total/NA
Barium	0.89		0.50	0.050	mg/L	1		6010B	TCLP
Lead	0.023	J	0.050	0.0075	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.058	J	0.10	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll US Corporation
Job ID: 500-183818-1
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010C	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
WI DRO PREP	Wisconsin Extraction (Diesel Range Organics)	WI-DRO	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

Laboratory References:

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

Sample Summary

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Job ID: 500-183818-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-183818-1	SB01 2-4	Solid	06/18/20 08:30	06/19/20 09:50	
500-183818-2	SB02 0-2	Solid	06/18/20 09:00	06/19/20 09:50	
500-183818-3	SB03 0-2	Solid	06/18/20 09:15	06/19/20 09:50	
500-183818-4	SB04 0-2	Solid	06/18/20 09:40	06/19/20 09:50	
500-183818-5	SB05 0-2	Solid	06/18/20 10:30	06/19/20 09:50	
500-183818-6	SB06 2-4	Solid	06/18/20 10:45	06/19/20 09:50	
500-183818-7	SB07 2-4	Solid	06/18/20 11:10	06/19/20 09:50	
500-183818-8	Trip Blank 01	Solid	06/18/20 00:00	06/19/20 09:50	
500-183818-9	Composite 01	Solid	06/18/20 11:40	06/19/20 09:50	

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Job ID: 500-183818-1

Client Sample ID: SB01 2-4
Date Collected: 06/18/20 08:30
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-1
Matrix: Solid
Percent Solids: 82.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12		20	12	ug/Kg	☼	06/18/20 08:30	06/30/20 16:46	50
Ethylbenzene	<15		20	15	ug/Kg	☼	06/18/20 08:30	06/30/20 16:46	50
Methyl tert-butyl ether	<32		80	32	ug/Kg	☼	06/18/20 08:30	06/30/20 16:46	50
Naphthalene	<27		80	27	ug/Kg	☼	06/18/20 08:30	06/30/20 16:46	50
Toluene	<12		20	12	ug/Kg	☼	06/18/20 08:30	06/30/20 16:46	50
1,2,4-Trimethylbenzene	<29		80	29	ug/Kg	☼	06/18/20 08:30	06/30/20 16:46	50
1,3,5-Trimethylbenzene	<31		80	31	ug/Kg	☼	06/18/20 08:30	06/30/20 16:46	50
Xylenes, Total	<18		40	18	ug/Kg	☼	06/18/20 08:30	06/30/20 16:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*	*06/18/20 08:30*	*06/30/20 16:46*	*50*
Dibromofluoromethane (Surr)	*88*		*75 - 120*	*06/18/20 08:30*	*06/30/20 16:46*	*50*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*	*06/18/20 08:30*	*06/30/20 16:46*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*06/18/20 08:30*	*06/30/20 16:46*	*50*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**68**		0.52	0.24	mg/Kg	☼	06/30/20 18:25	07/01/20 08:44	1

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Job ID: 500-183818-1

Client Sample ID: SB02 0-2

Date Collected: 06/18/20 09:00
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-2

Matrix: Solid
Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		20	11	ug/Kg	☼	06/18/20 09:00	06/30/20 17:14	50
Ethylbenzene	<14		20	14	ug/Kg	☼	06/18/20 09:00	06/30/20 17:14	50
Methyl tert-butyl ether	<31		78	31	ug/Kg	☼	06/18/20 09:00	06/30/20 17:14	50
Naphthalene	<26		78	26	ug/Kg	☼	06/18/20 09:00	06/30/20 17:14	50
Toluene	<11		20	11	ug/Kg	☼	06/18/20 09:00	06/30/20 17:14	50
1,2,4-Trimethylbenzene	<28		78	28	ug/Kg	☼	06/18/20 09:00	06/30/20 17:14	50
1,3,5-Trimethylbenzene	<30		78	30	ug/Kg	☼	06/18/20 09:00	06/30/20 17:14	50
Xylenes, Total	<17		39	17	ug/Kg	☼	06/18/20 09:00	06/30/20 17:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*	*06/18/20 09:00*	*06/30/20 17:14*	*50*
Dibromofluoromethane (Surr)	*88*		*75 - 120*	*06/18/20 09:00*	*06/30/20 17:14*	*50*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*	*06/18/20 09:00*	*06/30/20 17:14*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*06/18/20 09:00*	*06/30/20 17:14*	*50*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**82**		0.58	0.27	mg/Kg	☼	06/30/20 18:25	07/01/20 08:48	1

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Job ID: 500-183818-1

Client Sample ID: SB03 0-2
Date Collected: 06/18/20 09:15
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-3
Matrix: Solid
Percent Solids: 83.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		22	13	ug/Kg	☼	06/18/20 09:15	06/30/20 17:42	50
Ethylbenzene	<16		22	16	ug/Kg	☼	06/18/20 09:15	06/30/20 17:42	50
Methyl tert-butyl ether	<35		90	35	ug/Kg	☼	06/18/20 09:15	06/30/20 17:42	50
Naphthalene	<30		90	30	ug/Kg	☼	06/18/20 09:15	06/30/20 17:42	50
Toluene	<13		22	13	ug/Kg	☼	06/18/20 09:15	06/30/20 17:42	50
1,2,4-Trimethylbenzene	<32		90	32	ug/Kg	☼	06/18/20 09:15	06/30/20 17:42	50
1,3,5-Trimethylbenzene	<34		90	34	ug/Kg	☼	06/18/20 09:15	06/30/20 17:42	50
Xylenes, Total	<20		45	20	ug/Kg	☼	06/18/20 09:15	06/30/20 17:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*	*06/18/20 09:15*	*06/30/20 17:42*	*50*
Dibromofluoromethane (Surr)	*87*		*75 - 120*	*06/18/20 09:15*	*06/30/20 17:42*	*50*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*	*06/18/20 09:15*	*06/30/20 17:42*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*06/18/20 09:15*	*06/30/20 17:42*	*50*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**120**		0.54	0.25	mg/Kg	☼	06/30/20 18:25	07/01/20 08:52	1

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Job ID: 500-183818-1

Client Sample ID: SB04 0-2
Date Collected: 06/18/20 09:40
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-4
Matrix: Solid
Percent Solids: 84.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10		18	10	ug/Kg	☼	06/18/20 09:40	06/30/20 18:10	50
Ethylbenzene	<13		18	13	ug/Kg	☼	06/18/20 09:40	06/30/20 18:10	50
Methyl tert-butyl ether	<28		71	28	ug/Kg	☼	06/18/20 09:40	06/30/20 18:10	50
Naphthalene	<24		71	24	ug/Kg	☼	06/18/20 09:40	06/30/20 18:10	50
Toluene	<10		18	10	ug/Kg	☼	06/18/20 09:40	06/30/20 18:10	50
1,2,4-Trimethylbenzene	<26		71	26	ug/Kg	☼	06/18/20 09:40	06/30/20 18:10	50
1,3,5-Trimethylbenzene	<27		71	27	ug/Kg	☼	06/18/20 09:40	06/30/20 18:10	50
Xylenes, Total	<16		36	16	ug/Kg	☼	06/18/20 09:40	06/30/20 18:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*06/18/20 09:40*	*06/30/20 18:10*	*50*
Dibromofluoromethane (Surr)	*86*		*75 - 120*	*06/18/20 09:40*	*06/30/20 18:10*	*50*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*	*06/18/20 09:40*	*06/30/20 18:10*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*06/18/20 09:40*	*06/30/20 18:10*	*50*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**160**		0.54	0.25	mg/Kg	☼	06/30/20 18:25	07/01/20 08:56	1

Client Sample ID: SB05 0-2
Date Collected: 06/18/20 10:30
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-5
Matrix: Solid
Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.9		15	8.9	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Bromobenzene	<22		61	22	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Bromochloromethane	<26		61	26	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Bromodichloromethane	<23		61	23	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Bromoform	<29		61	29	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Bromomethane	<48		180	48	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Carbon tetrachloride	<23		61	23	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Chlorobenzene	<24		61	24	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Chloroethane	<31		61	31	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Chloroform	<23		120	23	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Chloromethane	<19		61	19	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
2-Chlorotoluene	<19		61	19	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
4-Chlorotoluene	<21		61	21	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
cis-1,2-Dichloroethene	<25		61	25	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
cis-1,3-Dichloropropene	<25		61	25	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Dibromochloromethane	<30		61	30	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,2-Dibromoethane	<24		61	24	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Dibromomethane	<16		61	16	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,2-Dichlorobenzene	<20		61	20	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,3-Dichlorobenzene	<24		61	24	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,4-Dichlorobenzene	<22		61	22	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Dichlorodifluoromethane	<41		180	41	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,1-Dichloroethane	<25		61	25	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,2-Dichloroethane	<24		61	24	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,1-Dichloroethene	<24		61	24	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,2-Dichloropropane	<26		61	26	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,3-Dichloropropane	<22		61	22	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
2,2-Dichloropropane	<27		61	27	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,1-Dichloropropene	<18		61	18	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Hexachlorobutadiene	<27		61	27	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Isopropylbenzene	<23		61	23	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Isopropyl ether	<17		61	17	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Methylene Chloride	<99		300	99	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Methyl tert-butyl ether	<24		61	24	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Naphthalene	<20		61	20	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
n-Butylbenzene	<24		61	24	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
N-Propylbenzene	<25		61	25	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
p-Isopropyltoluene	<22		61	22	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
sec-Butylbenzene	<24		61	24	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Styrene	<24		61	24	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
tert-Butylbenzene	<24		61	24	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,1,1,2-Tetrachloroethane	<28		61	28	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,1,2,2-Tetrachloroethane	<24		61	24	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Tetrachloroethene	<23		61	23	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Toluene	<9.0		15	9.0	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
trans-1,2-Dichloroethene	<21		61	21	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
trans-1,3-Dichloropropene	<22		61	22	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50

Client Sample ID: SB05 0-2
Lab Sample ID: 500-183818-5

Date Collected: 06/18/20 10:30
Matrix: Solid
Date Received: 06/19/20 09:50
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<28		61	28	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,2,4-Trichlorobenzene	<21		61	21	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,1,1-Trichloroethane	<23		61	23	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,1,2-Trichloroethane	<21		61	21	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Trichloroethene	<10		30	10	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Trichlorofluoromethane	<26		61	26	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,2,4-Trimethylbenzene	<22		61	22	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
1,3,5-Trimethylbenzene	<23		61	23	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Vinyl chloride	<16		61	16	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/18/20 10:30	06/30/20 18:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*	*06/18/20 10:30*	*06/30/20 18:38*	*50*
Dibromofluoromethane (Surr)	*86*		*75 - 120*	*06/18/20 10:30*	*06/30/20 18:38*	*50*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*	*06/18/20 10:30*	*06/30/20 18:38*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*06/18/20 10:30*	*06/30/20 18:38*	*50*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<66		190	66	ug/Kg	☼	06/29/20 08:05	06/29/20 17:15	10
PCB-1221	<82		190	82	ug/Kg	☼	06/29/20 08:05	06/29/20 17:15	10
PCB-1232	<81		190	81	ug/Kg	☼	06/29/20 08:05	06/29/20 17:15	10
PCB-1242	<61		190	61	ug/Kg	☼	06/29/20 08:05	06/29/20 17:15	10
PCB-1248	<74		190	74	ug/Kg	☼	06/29/20 08:05	06/29/20 17:15	10
PCB-1254	<40		190	40	ug/Kg	☼	06/29/20 08:05	06/29/20 17:15	10
PCB-1260	<92		190	92	ug/Kg	☼	06/29/20 08:05	06/29/20 17:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*49 - 129*	*06/29/20 08:05*	*06/29/20 17:15*	*10*
DCB Decachlorobiphenyl	*97*		*37 - 121*	*06/29/20 08:05*	*06/29/20 17:15*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.0**		1.0	0.36	mg/Kg	☼	06/30/20 18:25	07/01/20 09:00	1
Barium	**42**		1.0	0.12	mg/Kg	☼	06/30/20 18:25	07/01/20 09:00	1
Cadmium	**0.10**	**J B**	0.21	0.037	mg/Kg	☼	06/30/20 18:25	07/01/20 09:00	1
Chromium	**6.3**		1.0	0.51	mg/Kg	☼	06/30/20 18:25	07/01/20 09:00	1
Copper	**8.8**		1.0	0.29	mg/Kg	☼	06/30/20 18:25	07/01/20 09:00	1
Lead	**13**		0.52	0.24	mg/Kg	☼	06/30/20 18:25	07/01/20 09:00	1
Molybdenum	<0.43		1.0	0.43	mg/Kg	☼	06/30/20 18:25	07/01/20 09:00	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	06/30/20 18:25	07/01/20 09:00	1
Silver	<0.13		0.52	0.13	mg/Kg	☼	06/30/20 18:25	07/01/20 09:00	1
Zinc	**18**		2.1	0.91	mg/Kg	☼	06/30/20 18:25	07/01/20 09:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**		0.017	0.0056	mg/Kg	☼	07/01/20 13:30	07/02/20 09:39	1

Client Sample ID: SB06 2-4
Lab Sample ID: 500-183818-6
Date Collected: 06/18/20 10:45
Matrix: Solid
Date Received: 06/19/20 09:50
Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**24000**		220	130	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Bromobenzene	<310		860	310	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Bromochloromethane	<370		860	370	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Bromodichloromethane	<320		860	320	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Bromoform	<420		860	420	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Bromomethane	<690		2600	690	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Carbon tetrachloride	<330		860	330	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Chlorobenzene	<330		860	330	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Chloroethane	<430		860	430	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Chloroform	<320		1700	320	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Chloromethane	<280		860	280	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
2-Chlorotoluene	<270		860	270	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
4-Chlorotoluene	<300		860	300	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
cis-1,2-Dichloroethene	<350		860	350	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
cis-1,3-Dichloropropene	<360		860	360	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Dibromochloromethane	<420		860	420	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,2-Dibromo-3-Chloropropane	<1700		4300	1700	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,2-Dibromoethane	<330		860	330	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Dibromomethane	<230		860	230	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,2-Dichlorobenzene	<290		860	290	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,3-Dichlorobenzene	<340		860	340	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,4-Dichlorobenzene	<310		860	310	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Dichlorodifluoromethane	<580		2600	580	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,1-Dichloroethane	<350		860	350	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,2-Dichloroethane	<340		860	340	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,1-Dichloroethene	<340		860	340	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,2-Dichloropropane	<370		860	370	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,3-Dichloropropane	<310		860	310	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
2,2-Dichloropropane	<380		860	380	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,1-Dichloropropene	<260		860	260	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Ethylbenzene	**170000**		220	160	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Hexachlorobutadiene	<380		860	380	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Isopropylbenzene	**20000**		860	330	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Isopropyl ether	<240		860	240	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Methylene Chloride	<1400		4300	1400	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Methyl tert-butyl ether	<340		860	340	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Naphthalene	**41000**		860	290	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
n-Butylbenzene	<330		860	330	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
N-Propylbenzene	**45000**		860	360	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
p-Isopropyltoluene	**9000**		860	310	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
sec-Butylbenzene	**7400**		860	340	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Styrene	<330		860	330	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
tert-Butylbenzene	<340		860	340	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,1,1,2-Tetrachloroethane	<400		860	400	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,1,2,2-Tetrachloroethane	<340		860	340	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Tetrachloroethene	<320		860	320	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Toluene	**41000**		220	130	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
trans-1,2-Dichloroethene	<300		860	300	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
trans-1,3-Dichloropropene	<310		860	310	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500

Client Sample ID: SB06 2-4

Date Collected: 06/18/20 10:45
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-6

Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<390		860	390	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,2,4-Trichlorobenzene	<290		860	290	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,1,1-Trichloroethane	<330		860	330	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,1,2-Trichloroethane	<300		860	300	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Trichloroethene	<140		430	140	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Trichlorofluoromethane	<370		860	370	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,2,3-Trichloropropane	<360		1700	360	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
1,3,5-Trimethylbenzene	**85000**		860	330	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500
Vinyl chloride	<230		860	230	ug/Kg	☼	06/18/20 10:45	07/01/20 18:05	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*	*06/18/20 10:45*	*07/01/20 18:05*	*500*
Dibromofluoromethane (Surr)	*86*		*75 - 120*	*06/18/20 10:45*	*07/01/20 18:05*	*500*
1,2-Dichloroethane-d4 (Surr)	*82*		*75 - 126*	*06/18/20 10:45*	*07/01/20 18:05*	*500*
Toluene-d8 (Surr)	*140*	*X*	*75 - 120*	*06/18/20 10:45*	*07/01/20 18:05*	*500*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**270000**		8600	3100	ug/Kg	☼	06/18/20 10:45	07/01/20 18:30	5000
Xylenes, Total	**620000**		4300	1900	ug/Kg	☼	06/18/20 10:45	07/01/20 18:30	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*	*06/18/20 10:45*	*07/01/20 18:30*	*5000*
Dibromofluoromethane (Surr)	*92*		*75 - 120*	*06/18/20 10:45*	*07/01/20 18:30*	*5000*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*	*06/18/20 10:45*	*07/01/20 18:30*	*5000*
Toluene-d8 (Surr)	*103*		*75 - 120*	*06/18/20 10:45*	*07/01/20 18:30*	*5000*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<67		190	67	ug/Kg	☼	06/29/20 08:05	06/29/20 17:30	10
PCB-1221	<84		190	84	ug/Kg	☼	06/29/20 08:05	06/29/20 17:30	10
PCB-1232	<83		190	83	ug/Kg	☼	06/29/20 08:05	06/29/20 17:30	10
PCB-1242	<62		190	62	ug/Kg	☼	06/29/20 08:05	06/29/20 17:30	10
PCB-1248	<75		190	75	ug/Kg	☼	06/29/20 08:05	06/29/20 17:30	10
PCB-1254	<41		190	41	ug/Kg	☼	06/29/20 08:05	06/29/20 17:30	10
PCB-1260	<93		190	93	ug/Kg	☼	06/29/20 08:05	06/29/20 17:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*49 - 129*	*06/29/20 08:05*	*06/29/20 17:30*	*10*
DCB Decachlorobiphenyl	*132*	*X*	*37 - 121*	*06/29/20 08:05*	*06/29/20 17:30*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.7**		1.1	0.36	mg/Kg	☼	06/30/20 18:25	07/01/20 09:04	1
Barium	**69**		1.1	0.12	mg/Kg	☼	06/30/20 18:25	07/01/20 09:04	1
Cadmium	<0.038		0.21	0.038	mg/Kg	☼	06/30/20 18:25	07/01/20 09:04	1
Chromium	**14**		1.1	0.53	mg/Kg	☼	06/30/20 18:25	07/01/20 09:04	1
Copper	**4.8**		1.1	0.30	mg/Kg	☼	06/30/20 18:25	07/01/20 09:04	1
Lead	**18**		0.53	0.25	mg/Kg	☼	06/30/20 18:25	07/01/20 09:04	1
Molybdenum	**0.60**	**J**	1.1	0.44	mg/Kg	☼	06/30/20 18:25	07/01/20 09:04	1
Selenium	**0.74**	**J**	1.1	0.63	mg/Kg	☼	06/30/20 18:25	07/01/20 09:04	1

Client Sample ID: SB06 2-4
Lab Sample ID: 500-183818-6
Date Collected: 06/18/20 10:45
Matrix: Solid
Date Received: 06/19/20 09:50
Percent Solids: 84.7

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.14		0.53	0.14	mg/Kg	☼	06/30/20 18:25	07/01/20 09:04	1
Zinc	**21**		2.1	0.93	mg/Kg	☼	06/30/20 18:25	07/01/20 09:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.018	0.0060	mg/Kg	☼	07/01/20 13:30	07/02/20 09:41	1

Client Sample ID: SB07 2-4
Date Collected: 06/18/20 11:10
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-7
Matrix: Solid
Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12		20	12	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Bromobenzene	<28		80	28	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Bromochloromethane	<34		80	34	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Bromodichloromethane	<30		80	30	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Bromoform	<39		80	39	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Bromomethane	<63		240	63	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Carbon tetrachloride	<31		80	31	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Chlorobenzene	<31		80	31	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Chloroethane	<40		80	40	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Chloroform	<29		160	29	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Chloromethane	<25		80	25	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
2-Chlorotoluene	<25		80	25	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
4-Chlorotoluene	<28		80	28	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
cis-1,2-Dichloroethene	<33		80	33	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
cis-1,3-Dichloropropene	<33		80	33	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Dibromochloromethane	<39		80	39	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,2-Dibromo-3-Chloropropane	<160		400	160	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,2-Dibromoethane	<31		80	31	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Dibromomethane	<22		80	22	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,2-Dichlorobenzene	<27		80	27	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,3-Dichlorobenzene	<32		80	32	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,4-Dichlorobenzene	<29		80	29	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Dichlorodifluoromethane	<54		240	54	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,1-Dichloroethane	<33		80	33	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,2-Dichloroethane	<31		80	31	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,1-Dichloroethene	<31		80	31	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,2-Dichloropropane	<34		80	34	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,3-Dichloropropane	<29		80	29	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
2,2-Dichloropropane	<35		80	35	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,1-Dichloropropene	<24		80	24	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Ethylbenzene	**150**		20	15	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Hexachlorobutadiene	<36		80	36	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Isopropylbenzene	<31		80	31	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Isopropyl ether	<22		80	22	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Methylene Chloride	<130		400	130	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Methyl tert-butyl ether	<31		80	31	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Naphthalene	**34**	**J**	80	27	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
n-Butylbenzene	<31		80	31	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
N-Propylbenzene	**51**	**J**	80	33	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
p-Isopropyltoluene	<29		80	29	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
sec-Butylbenzene	<32		80	32	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Styrene	<31		80	31	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
tert-Butylbenzene	<32		80	32	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,1,1,2-Tetrachloroethane	<37		80	37	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,1,2,2-Tetrachloroethane	<32		80	32	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Tetrachloroethene	<29		80	29	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Toluene	**35**		20	12	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
trans-1,2-Dichloroethene	<28		80	28	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
trans-1,3-Dichloropropene	<29		80	29	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50

Client Sample ID: SB07 2-4
Date Collected: 06/18/20 11:10
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-7
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<36		80	36	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,2,4-Trichlorobenzene	<27		80	27	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,1,1-Trichloroethane	<30		80	30	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,1,2-Trichloroethane	<28		80	28	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Trichloroethene	<13		40	13	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Trichlorofluoromethane	<34		80	34	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,2,3-Trichloropropane	<33		160	33	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,2,4-Trimethylbenzene	**270**		80	29	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
1,3,5-Trimethylbenzene	**91**		80	30	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Vinyl chloride	<21		80	21	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50
Xylenes, Total	**670**		40	18	ug/Kg	☼	06/18/20 11:10	06/30/20 19:05	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*06/18/20 11:10*	*06/30/20 19:05*	*50*
Dibromofluoromethane (Surr)	*86*		*75 - 120*	*06/18/20 11:10*	*06/30/20 19:05*	*50*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*	*06/18/20 11:10*	*06/30/20 19:05*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*06/18/20 11:10*	*06/30/20 19:05*	*50*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<66		190	66	ug/Kg	☼	06/29/20 08:05	06/29/20 17:45	10
PCB-1221	<82		190	82	ug/Kg	☼	06/29/20 08:05	06/29/20 17:45	10
PCB-1232	<82		190	82	ug/Kg	☼	06/29/20 08:05	06/29/20 17:45	10
PCB-1242	<62		190	62	ug/Kg	☼	06/29/20 08:05	06/29/20 17:45	10
PCB-1248	<74		190	74	ug/Kg	☼	06/29/20 08:05	06/29/20 17:45	10
PCB-1254	<40		190	40	ug/Kg	☼	06/29/20 08:05	06/29/20 17:45	10
PCB-1260	<92		190	92	ug/Kg	☼	06/29/20 08:05	06/29/20 17:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*49 - 129*	*06/29/20 08:05*	*06/29/20 17:45*	*10*
DCB Decachlorobiphenyl	*116*		*37 - 121*	*06/29/20 08:05*	*06/29/20 17:45*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.9**		1.0	0.35	mg/Kg	☼	06/30/20 18:25	07/01/20 09:08	1
Barium	**78**		1.0	0.12	mg/Kg	☼	06/30/20 18:25	07/01/20 09:08	1
Cadmium	<0.037		0.21	0.037	mg/Kg	☼	06/30/20 18:25	07/01/20 09:08	1
Chromium	**12**		1.0	0.51	mg/Kg	☼	06/30/20 18:25	07/01/20 09:08	1
Copper	**4.2**		1.0	0.29	mg/Kg	☼	06/30/20 18:25	07/01/20 09:08	1
Lead	**9.5**		0.52	0.24	mg/Kg	☼	06/30/20 18:25	07/01/20 09:08	1
Molybdenum	<0.43		1.0	0.43	mg/Kg	☼	06/30/20 18:25	07/01/20 09:08	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	06/30/20 18:25	07/01/20 09:08	1
Silver	<0.13		0.52	0.13	mg/Kg	☼	06/30/20 18:25	07/01/20 09:08	1
Zinc	**23**		2.1	0.90	mg/Kg	☼	06/30/20 18:25	07/01/20 09:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**		0.018	0.0058	mg/Kg	☼	07/01/20 13:30	07/02/20 09:43	1

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Job ID: 500-183818-1

Client Sample ID: Trip Blank 01
Date Collected: 06/18/20 00:00
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Bromobenzene	<18		50	18	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Bromochloromethane	<21		50	21	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Bromodichloromethane	<19		50	19	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Bromoform	<24		50	24	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Bromomethane	<40		150	40	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Carbon tetrachloride	<19		50	19	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Chlorobenzene	<19		50	19	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Chloroethane	<25		50	25	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Chloroform	<19		100	19	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Chloromethane	<16		50	16	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
2-Chlorotoluene	<16		50	16	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
4-Chlorotoluene	<18		50	18	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Dibromochloromethane	<24		50	24	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,2-Dibromoethane	<19		50	19	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Dibromomethane	<14		50	14	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,1-Dichloroethane	<21		50	21	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,2-Dichloroethane	<20		50	20	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,1-Dichloroethene	<20		50	20	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,2-Dichloropropane	<21		50	21	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,3-Dichloropropane	<18		50	18	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
2,2-Dichloropropane	<22		50	22	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,1-Dichloropropene	<15		50	15	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Hexachlorobutadiene	<22		50	22	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Isopropylbenzene	<19		50	19	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Isopropyl ether	<14		50	14	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Methylene Chloride	<82		250	82	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Naphthalene	<17		50	17	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
n-Butylbenzene	<19		50	19	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
N-Propylbenzene	<21		50	21	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
p-Isopropyltoluene	<18		50	18	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
sec-Butylbenzene	<20		50	20	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Styrene	<19		50	19	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
tert-Butylbenzene	<20		50	20	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Tetrachloroethene	<19		50	19	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Toluene	<7.4		13	7.4	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		06/18/20 00:00	06/30/20 13:04	50

Client: Ramboll US Corporation
Job ID: 500-183818-1
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Client Sample ID: Trip Blank 01
Lab Sample ID: 500-183818-8
Date Collected: 06/18/20 00:00
Matrix: Solid
Date Received: 06/19/20 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Trichloroethene	<8.2		25	8.2	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Trichlorofluoromethane	<21		50	21	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Vinyl chloride	<13		50	13	ug/Kg		06/18/20 00:00	06/30/20 13:04	50
Xylenes, Total	<11		25	11	ug/Kg		06/18/20 00:00	06/30/20 13:04	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*	*06/18/20 00:00*	*06/30/20 13:04*	*50*
Dibromofluoromethane (Surr)	*87*		*75 - 120*	*06/18/20 00:00*	*06/30/20 13:04*	*50*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*	*06/18/20 00:00*	*06/30/20 13:04*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*06/18/20 00:00*	*06/30/20 13:04*	*50*

Client Sample ID: Composite 01
Date Collected: 06/18/20 11:40
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-9
Matrix: Solid
Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<40		190	40	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
1,2-Dichlorobenzene	<44		190	44	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
1,3-Dichlorobenzene	<42		190	42	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
1,4-Dichlorobenzene	<47		190	47	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
1-Methylnaphthalene	**1100**		75	9.0	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
2,2'-oxybis[1-chloropropane]	<43		190	43	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
2,4,5-Trichlorophenol	<84		370	84	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
2,4,6-Trichlorophenol	<130		370	130	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
2,4-Dichlorophenol	<88		370	88	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
2,4-Dimethylphenol	<140		370	140	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
2,4-Dinitrophenol	<650		750	650	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
2,4-Dinitrotoluene	<59		190	59	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
2,6-Dinitrotoluene	<73		190	73	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
2-Chloronaphthalene	<41		190	41	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
2-Chlorophenol	<63		190	63	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
2-Methylnaphthalene	**2200**		75	6.8	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
2-Methylphenol	<59		190	59	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
2-Nitroaniline	<50		190	50	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
2-Nitrophenol	<87		370	87	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
3 & 4 Methylphenol	<62		190	62	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
3,3'-Dichlorobenzidine	<52		190	52	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
3-Nitroaniline	<110		370	110	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
4,6-Dinitro-2-methylphenol	<300		750	300	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
4-Bromophenyl phenyl ether	<49		190	49	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
4-Chloro-3-methylphenol	<130		370	130	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
4-Chloroaniline	<170		750	170	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
4-Chlorophenyl phenyl ether	<43		190	43	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
4-Nitroaniline	<150		370	150	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
4-Nitrophenol	<350		750	350	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Acenaphthene	<6.6		37	6.6	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Anthracene	<6.2		37	6.2	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Benzo[a]anthracene	**8.2**	**J**	37	5.0	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Benzo[a]pyrene	**28**	**J**	37	7.2	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Benzo[b]fluoranthene	**36**	**J**	37	8.0	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Benzo[g,h,i]perylene	**26**	**J**	37	12	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Benzo[k]fluoranthene	<11		37	11	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Benzoic acid	<370		1900	370	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Benzyl alcohol	<370		750	370	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Bis(2-chloroethoxy)methane	<38		190	38	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Bis(2-chloroethyl)ether	<55		190	55	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Bis(2-ethylhexyl) phthalate	<68		190	68	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Butyl benzyl phthalate	<70		190	70	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Carbazole	<92		190	92	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Chrysene	**23**	**J**	37	10	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Dibenz(a,h)anthracene	<7.1		37	7.1	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Dibenzofuran	<43		190	43	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Diethyl phthalate	<63		190	63	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Dimethyl phthalate	<48		190	48	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1

Client Sample ID: Composite 01
Lab Sample ID: 500-183818-9
Date Collected: 06/18/20 11:40
Matrix: Solid
Date Received: 06/19/20 09:50
Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<56		190	56	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Di-n-octyl phthalate	<60		190	60	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Fluoranthene	**12**	**J**	37	6.9	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Fluorene	**16**	**J**	37	5.2	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Hexachlorobenzene	<8.6		75	8.6	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Hexachlorobutadiene	<58		190	58	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Hexachlorocyclopentadiene	<210		750	210	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Hexachloroethane	<56		190	56	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Indeno[1,2,3-cd]pyrene	<9.6		37	9.6	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Isophorone	<42		190	42	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Nitrobenzene	<9.2		37	9.2	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
N-Nitrosodi-n-propylamine	<45		75	45	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
N-Nitrosodiphenylamine	<44		190	44	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Pentachlorophenol	<590		750	590	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Phenanthrene	**20**	**J**	37	5.2	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Phenol	<82		190	82	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1
Pyrene	**42**		37	7.3	ug/Kg	☼	06/26/20 07:25	06/27/20 09:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*130*		*31 - 143*	*06/26/20 07:25*	*06/27/20 09:30*	*1*
2-Fluorobiphenyl (Surr)	*90*		*43 - 145*	*06/26/20 07:25*	*06/27/20 09:30*	*1*
2-Fluorophenol (Surr)	*71*		*31 - 166*	*06/26/20 07:25*	*06/27/20 09:30*	*1*
Nitrobenzene-d5 (Surr)	*95*		*37 - 147*	*06/26/20 07:25*	*06/27/20 09:30*	*1*
Phenol-d5 (Surr)	*71*		*30 - 153*	*06/26/20 07:25*	*06/27/20 09:30*	*1*
Terphenyl-d14 (Surr)	*131*		*42 - 157*	*06/26/20 07:25*	*06/27/20 09:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**3000**		180	28	ug/Kg	☼	06/26/20 07:25	06/29/20 18:20	5

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**27**		4.4	1.8	mg/Kg	☼	06/25/20 06:17	06/29/20 08:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*128*		*44 - 148*	*06/25/20 06:17*	*06/29/20 08:25*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		07/02/20 05:54	07/05/20 20:28	1
Barium	**0.89**		0.50	0.050	mg/L		07/02/20 05:54	07/05/20 20:28	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		07/02/20 05:54	07/05/20 20:28	1
Chromium	<0.010		0.025	0.010	mg/L		07/02/20 05:54	07/05/20 20:28	1
Copper	<0.010		0.025	0.010	mg/L		07/02/20 05:54	07/05/20 20:28	1
Lead	**0.023**	**J**	0.050	0.0075	mg/L		07/02/20 05:54	07/05/20 20:28	1
Nickel	**0.010**	**J**	0.025	0.010	mg/L		07/02/20 05:54	07/05/20 20:28	1
Selenium	<0.020		0.050	0.020	mg/L		07/02/20 05:54	07/05/20 20:28	1
Silver	<0.010		0.025	0.010	mg/L		07/02/20 05:54	07/05/20 20:28	1
Zinc	**0.058**	**J**	0.10	0.020	mg/L		07/02/20 05:54	07/05/20 20:28	1

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Job ID: 500-183818-1

Client Sample ID: Composite 01
Date Collected: 06/18/20 11:40
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-9
Matrix: Solid
Percent Solids: 88.5

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/02/20 09:05	07/06/20 08:45	1

Definitions/Glossary

Client: Ramboll US Corporation
Job ID: 500-183818-1
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

GC/MS VOA

Prep Batch: 549245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-1	SB01 2-4	Total/NA	Solid	5035	
500-183818-2	SB02 0-2	Total/NA	Solid	5035	
500-183818-3	SB03 0-2	Total/NA	Solid	5035	
500-183818-4	SB04 0-2	Total/NA	Solid	5035	
500-183818-5	SB05 0-2	Total/NA	Solid	5035	
500-183818-6	SB06 2-4	Total/NA	Solid	5035	
500-183818-6 - DL	SB06 2-4	Total/NA	Solid	5035	
500-183818-7	SB07 2-4	Total/NA	Solid	5035	
500-183818-8	Trip Blank 01	Total/NA	Solid	5035	
500-183818-1 MS	SB01 2-4	Total/NA	Solid	5035	
500-183818-1 MSD	SB01 2-4	Total/NA	Solid	5035	

Analysis Batch: 550023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-1	SB01 2-4	Total/NA	Solid	8260B	549245
500-183818-2	SB02 0-2	Total/NA	Solid	8260B	549245
500-183818-3	SB03 0-2	Total/NA	Solid	8260B	549245
500-183818-4	SB04 0-2	Total/NA	Solid	8260B	549245
500-183818-5	SB05 0-2	Total/NA	Solid	8260B	549245
500-183818-7	SB07 2-4	Total/NA	Solid	8260B	549245
500-183818-8	Trip Blank 01	Total/NA	Solid	8260B	549245
MB 500-550023/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-550023/4	Lab Control Sample	Total/NA	Solid	8260B	
500-183818-1 MS	SB01 2-4	Total/NA	Solid	8260B	549245
500-183818-1 MSD	SB01 2-4	Total/NA	Solid	8260B	549245

Analysis Batch: 550262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-6	SB06 2-4	Total/NA	Solid	8260B	549245
500-183818-6 - DL	SB06 2-4	Total/NA	Solid	8260B	549245
MB 500-550262/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-550262/5	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 549546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-9 - DL	Composite 01	Total/NA	Solid	3541	
500-183818-9	Composite 01	Total/NA	Solid	3541	
MB 500-549546/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-549546/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 549689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-9	Composite 01	Total/NA	Solid	8270D	549546
MB 500-549546/1-A	Method Blank	Total/NA	Solid	8270D	549546
LCS 500-549546/2-A	Lab Control Sample	Total/NA	Solid	8270D	549546

Analysis Batch: 549782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-9 - DL	Composite 01	Total/NA	Solid	8270D	549546

GC Semi VOA

Prep Batch: 549272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-9	Composite 01	Total/NA	Solid	WI DRO PREP	
MB 500-549272/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 500-549272/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCSD 500-549272/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

Analysis Batch: 549655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-9	Composite 01	Total/NA	Solid	WI-DRO	549272
MB 500-549272/1-A	Method Blank	Total/NA	Solid	WI-DRO	549272
LCS 500-549272/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	549272
LCSD 500-549272/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	549272

Prep Batch: 549825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-5	SB05 0-2	Total/NA	Solid	3541	
500-183818-6	SB06 2-4	Total/NA	Solid	3541	
500-183818-7	SB07 2-4	Total/NA	Solid	3541	
MB 500-549825/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-549825/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 549894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-5	SB05 0-2	Total/NA	Solid	8082A	549825
500-183818-6	SB06 2-4	Total/NA	Solid	8082A	549825
500-183818-7	SB07 2-4	Total/NA	Solid	8082A	549825
MB 500-549825/1-A	Method Blank	Total/NA	Solid	8082A	549825
LCS 500-549825/3-A	Lab Control Sample	Total/NA	Solid	8082A	549825

Metals

Leach Batch: 550124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-9	Composite 01	TCLP	Solid	1311	
LB 500-550124/1-B	Method Blank	TCLP	Solid	1311	
LB 500-550124/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 550180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-1	SB01 2-4	Total/NA	Solid	3050B	
500-183818-2	SB02 0-2	Total/NA	Solid	3050B	
500-183818-3	SB03 0-2	Total/NA	Solid	3050B	
500-183818-4	SB04 0-2	Total/NA	Solid	3050B	
500-183818-5	SB05 0-2	Total/NA	Solid	3050B	
500-183818-6	SB06 2-4	Total/NA	Solid	3050B	
500-183818-7	SB07 2-4	Total/NA	Solid	3050B	
MB 500-550180/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-550180/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 550322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-5	SB05 0-2	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 550322 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-6	SB06 2-4	Total/NA	Solid	7471B	
500-183818-7	SB07 2-4	Total/NA	Solid	7471B	
MB 500-550322/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-550322/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 550358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-1	SB01 2-4	Total/NA	Solid	6010C	550180
500-183818-2	SB02 0-2	Total/NA	Solid	6010C	550180
500-183818-3	SB03 0-2	Total/NA	Solid	6010C	550180
500-183818-4	SB04 0-2	Total/NA	Solid	6010C	550180
500-183818-5	SB05 0-2	Total/NA	Solid	6010C	550180
500-183818-6	SB06 2-4	Total/NA	Solid	6010C	550180
500-183818-7	SB07 2-4	Total/NA	Solid	6010C	550180
MB 500-550180/1-A	Method Blank	Total/NA	Solid	6010C	550180
LCS 500-550180/2-A	Lab Control Sample	Total/NA	Solid	6010C	550180

Prep Batch: 550463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-9	Composite 01	TCLP	Solid	3010A	550124
LB 500-550124/1-B	Method Blank	TCLP	Solid	3010A	550124
LCS 500-550463/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 550537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-9	Composite 01	TCLP	Solid	7470A	550124
LB 500-550124/1-C	Method Blank	TCLP	Solid	7470A	550124
MB 500-550537/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-550537/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 550576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-5	SB05 0-2	Total/NA	Solid	7471B	550322
500-183818-6	SB06 2-4	Total/NA	Solid	7471B	550322
500-183818-7	SB07 2-4	Total/NA	Solid	7471B	550322
MB 500-550322/12-A	Method Blank	Total/NA	Solid	7471B	550322
LCS 500-550322/13-A	Lab Control Sample	Total/NA	Solid	7471B	550322

Analysis Batch: 550703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-9	Composite 01	TCLP	Solid	6010B	550463
LB 500-550124/1-B	Method Blank	TCLP	Solid	6010B	550463
LCS 500-550463/2-A	Lab Control Sample	Total/NA	Solid	6010B	550463

Analysis Batch: 550793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-9	Composite 01	TCLP	Solid	7470A	550537
LB 500-550124/1-C	Method Blank	TCLP	Solid	7470A	550537
MB 500-550537/12-A	Method Blank	Total/NA	Solid	7470A	550537
LCS 500-550537/14-A	Lab Control Sample	Total/NA	Solid	7470A	550537

QC Association Summary

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Job ID: 500-183818-1

General Chemistry

Analysis Batch: 550065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183818-1	SB01 2-4	Total/NA	Solid	Moisture	
500-183818-2	SB02 0-2	Total/NA	Solid	Moisture	
500-183818-3	SB03 0-2	Total/NA	Solid	Moisture	
500-183818-4	SB04 0-2	Total/NA	Solid	Moisture	
500-183818-5	SB05 0-2	Total/NA	Solid	Moisture	
500-183818-6	SB06 2-4	Total/NA	Solid	Moisture	
500-183818-7	SB07 2-4	Total/NA	Solid	Moisture	
500-183818-9	Composite 01	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Job ID: 500-183818-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-183818-1	SB01 2-4	91	88	107	94
500-183818-1 MS	SB01 2-4	92	95	108	93
500-183818-1 MSD	SB01 2-4	90	96	108	94
500-183818-2	SB02 0-2	89	88	106	94
500-183818-3	SB03 0-2	91	87	106	95
500-183818-4	SB04 0-2	92	86	106	95
500-183818-5	SB05 0-2	90	86	107	95
500-183818-6	SB06 2-4	99	86	82	140 X
500-183818-6 - DL	SB06 2-4	96	92	88	103
500-183818-7	SB07 2-4	92	86	106	95
500-183818-8	Trip Blank 01	89	87	102	96
LCS 500-550023/4	Lab Control Sample	91	92	104	95
LCS 500-550262/5	Lab Control Sample	88	94	86	101
MB 500-550023/6	Method Blank	90	90	107	94
MB 500-550262/7	Method Blank	106	90	90	103

Surrogate Legend

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

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(31-143)	(43-145)	(31-166)	(37-147)	(30-153)	(42-157)
500-183818-9	Composite 01	130	90	71	95	71	131
500-183818-9 - DL	Composite 01	116	83	135	87	83	83
LCS 500-549546/2-A	Lab Control Sample	156 X	122	83	96	92	110
MB 500-549546/1-A	Method Blank	129	106	74	89	79	116

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-183818-5	SB05 0-2	90	97
500-183818-6	SB06 2-4	105	132 X
500-183818-7	SB07 2-4	75	116
LCS 500-549825/3-A	Lab Control Sample	84	102

Surrogate Summary

Client: Ramboll US Corporation
Job ID: 500-183818-1
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCBP1								
Lab Sample ID	Client Sample ID	(49-129)	(37-121)								
MB 500-549825/1-A	Method Blank	88	101								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)									
		C9									
Lab Sample ID	Client Sample ID	(44-148)									
500-183818-9	Composite 01	128									
LCS 500-549272/2-A	Lab Control Sample	75									
LCSD 500-549272/3-A	Lab Control Sample Dup	75									
MB 500-549272/1-A	Method Blank	74									

Surrogate Legend

C9 = n-Nonane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 500-183818-1 MS
Matrix: Solid
Analysis Batch: 550023

Client Sample ID: SB01 2-4
Prep Type: Total/NA
Prep Batch: 549245

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<12		4020	3830		ug/Kg	☼	95	70 - 120
Ethylbenzene	<15		4020	3870		ug/Kg	☼	96	70 - 123
Methyl tert-butyl ether	<32		4020	4120		ug/Kg	☼	102	55 - 123
Naphthalene	<27		4020	3230		ug/Kg	☼	80	53 - 144
Toluene	<12		4020	3760		ug/Kg	☼	93	70 - 125
1,2,4-Trimethylbenzene	<29		4020	3690		ug/Kg	☼	92	70 - 123
1,3,5-Trimethylbenzene	<31		4020	3680		ug/Kg	☼	92	70 - 123
Xylenes, Total	<18		8040	8020		ug/Kg	☼	100	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*
Dibromofluoromethane (Surr)	*95*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*
Toluene-d8 (Surr)	*93*		*75 - 120*

Lab Sample ID: 500-183818-1 MSD
Matrix: Solid
Analysis Batch: 550023

Client Sample ID: SB01 2-4
Prep Type: Total/NA
Prep Batch: 549245

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<12		4020	4000		ug/Kg	☼	100	70 - 120	5	30
Ethylbenzene	<15		4020	4070		ug/Kg	☼	101	70 - 123	5	30
Methyl tert-butyl ether	<32		4020	4380		ug/Kg	☼	109	55 - 123	6	30
Naphthalene	<27		4020	3550		ug/Kg	☼	88	53 - 144	9	30
Toluene	<12		4020	3980		ug/Kg	☼	99	70 - 125	6	30
1,2,4-Trimethylbenzene	<29		4020	3880		ug/Kg	☼	96	70 - 123	5	30
1,3,5-Trimethylbenzene	<31		4020	3880		ug/Kg	☼	96	70 - 123	5	30
Xylenes, Total	<18		8040	8480		ug/Kg	☼	105	70 - 125	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*
Dibromofluoromethane (Surr)	*96*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*
Toluene-d8 (Surr)	*94*		*75 - 120*

Lab Sample ID: MB 500-550023/6
Matrix: Solid
Analysis Batch: 550023

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			06/30/20 11:41	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			06/30/20 11:41	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			06/30/20 11:41	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			06/30/20 11:41	1
Bromoform	<0.48		1.0	0.48	ug/Kg			06/30/20 11:41	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			06/30/20 11:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			06/30/20 11:41	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			06/30/20 11:41	1

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

Lab Sample ID: MB 500-550023/6
Matrix: Solid
Analysis Batch: 550023

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<0.50		1.0	0.50	ug/Kg			06/30/20 11:41	1
Chloroform	<0.37		2.0	0.37	ug/Kg			06/30/20 11:41	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			06/30/20 11:41	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			06/30/20 11:41	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			06/30/20 11:41	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			06/30/20 11:41	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			06/30/20 11:41	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			06/30/20 11:41	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			06/30/20 11:41	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			06/30/20 11:41	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			06/30/20 11:41	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			06/30/20 11:41	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			06/30/20 11:41	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			06/30/20 11:41	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			06/30/20 11:41	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			06/30/20 11:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			06/30/20 11:41	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			06/30/20 11:41	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			06/30/20 11:41	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			06/30/20 11:41	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			06/30/20 11:41	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			06/30/20 11:41	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			06/30/20 11:41	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			06/30/20 11:41	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			06/30/20 11:41	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			06/30/20 11:41	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			06/30/20 11:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			06/30/20 11:41	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			06/30/20 11:41	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			06/30/20 11:41	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			06/30/20 11:41	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			06/30/20 11:41	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			06/30/20 11:41	1
Styrene	<0.39		1.0	0.39	ug/Kg			06/30/20 11:41	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			06/30/20 11:41	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			06/30/20 11:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			06/30/20 11:41	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			06/30/20 11:41	1
Toluene	<0.15		0.25	0.15	ug/Kg			06/30/20 11:41	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			06/30/20 11:41	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			06/30/20 11:41	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			06/30/20 11:41	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			06/30/20 11:41	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			06/30/20 11:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			06/30/20 11:41	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			06/30/20 11:41	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			06/30/20 11:41	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			06/30/20 11:41	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			06/30/20 11:41	1

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

Lab Sample ID: MB 500-550023/6
Matrix: Solid
Analysis Batch: 550023

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			06/30/20 11:41	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			06/30/20 11:41	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			06/30/20 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*		*06/30/20 11:41*	*1*
Dibromofluoromethane (Surr)	*90*		*75 - 120*		*06/30/20 11:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*06/30/20 11:41*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*06/30/20 11:41*	*1*

Lab Sample ID: LCS 500-550023/4
Matrix: Solid
Analysis Batch: 550023

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	51.0		ug/Kg		102	70 - 120
Bromobenzene	50.0	46.0		ug/Kg		92	70 - 122
Bromochloromethane	50.0	49.2		ug/Kg		98	65 - 122
Bromodichloromethane	50.0	47.9		ug/Kg		96	69 - 120
Bromoform	50.0	40.2		ug/Kg		80	56 - 132
Bromomethane	50.0	52.0		ug/Kg		104	40 - 152
Carbon tetrachloride	50.0	49.5		ug/Kg		99	59 - 133
Chlorobenzene	50.0	50.3		ug/Kg		101	70 - 120
Chloroethane	50.0	51.5		ug/Kg		103	48 - 136
Chloroform	50.0	49.9		ug/Kg		100	70 - 120
Chloromethane	50.0	39.9		ug/Kg		80	56 - 152
2-Chlorotoluene	50.0	48.7		ug/Kg		97	70 - 125
4-Chlorotoluene	50.0	49.9		ug/Kg		100	68 - 124
cis-1,2-Dichloroethene	50.0	49.2		ug/Kg		98	70 - 125
cis-1,3-Dichloropropene	50.0	45.4		ug/Kg		91	64 - 127
Dibromochloromethane	50.0	42.9		ug/Kg		86	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	32.0		ug/Kg		64	56 - 123
1,2-Dibromoethane	50.0	46.6		ug/Kg		93	70 - 125
Dibromomethane	50.0	50.8		ug/Kg		102	70 - 120
1,2-Dichlorobenzene	50.0	47.3		ug/Kg		95	70 - 125
1,3-Dichlorobenzene	50.0	48.8		ug/Kg		98	70 - 125
1,4-Dichlorobenzene	50.0	48.4		ug/Kg		97	70 - 120
Dichlorodifluoromethane	50.0	41.1		ug/Kg		82	40 - 159
1,1-Dichloroethane	50.0	49.7		ug/Kg		99	70 - 125
1,2-Dichloroethane	50.0	55.8		ug/Kg		112	68 - 127
1,1-Dichloroethene	50.0	47.5		ug/Kg		95	67 - 122
1,2-Dichloropropane	50.0	52.4		ug/Kg		105	67 - 130
1,3-Dichloropropane	50.0	47.5		ug/Kg		95	62 - 136
2,2-Dichloropropane	50.0	49.9		ug/Kg		100	58 - 139
1,1-Dichloropropene	50.0	51.8		ug/Kg		104	70 - 121
Ethylbenzene	50.0	53.4		ug/Kg		107	70 - 123
Hexachlorobutadiene	50.0	58.0		ug/Kg		116	51 - 150
Isopropylbenzene	50.0	48.5		ug/Kg		97	70 - 126

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

Lab Sample ID: LCS 500-550023/4
Matrix: Solid
Analysis Batch: 550023

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	45.3		ug/Kg		91	69 - 125
Methyl tert-butyl ether	50.0	51.4		ug/Kg		103	55 - 123
Naphthalene	50.0	40.6		ug/Kg		81	53 - 144
n-Butylbenzene	50.0	55.3		ug/Kg		111	68 - 125
N-Propylbenzene	50.0	51.1		ug/Kg		102	69 - 127
p-Isopropyltoluene	50.0	53.3		ug/Kg		107	70 - 125
sec-Butylbenzene	50.0	52.5		ug/Kg		105	70 - 123
Styrene	50.0	50.7		ug/Kg		101	70 - 120
tert-Butylbenzene	50.0	50.7		ug/Kg		101	70 - 121
1,1,1,2-Tetrachloroethane	50.0	47.3		ug/Kg		95	70 - 125
1,1,2,2-Tetrachloroethane	50.0	39.3		ug/Kg		79	62 - 140
Tetrachloroethene	50.0	54.1		ug/Kg		108	70 - 128
Toluene	50.0	51.3		ug/Kg		103	70 - 125
trans-1,2-Dichloroethene	50.0	49.9		ug/Kg		100	70 - 125
trans-1,3-Dichloropropene	50.0	44.5		ug/Kg		89	62 - 128
1,2,3-Trichlorobenzene	50.0	44.6		ug/Kg		89	51 - 145
1,2,4-Trichlorobenzene	50.0	46.6		ug/Kg		93	57 - 137
1,1,1-Trichloroethane	50.0	50.8		ug/Kg		102	70 - 125
1,1,2-Trichloroethane	50.0	47.7		ug/Kg		95	71 - 130
Trichloroethene	50.0	51.0		ug/Kg		102	70 - 125
Trichlorofluoromethane	50.0	43.6		ug/Kg		87	55 - 128
1,2,3-Trichloropropane	50.0	41.1		ug/Kg		82	50 - 133
1,2,4-Trimethylbenzene	50.0	49.8		ug/Kg		100	70 - 123
1,3,5-Trimethylbenzene	50.0	50.4		ug/Kg		101	70 - 123
Vinyl chloride	50.0	43.9		ug/Kg		88	64 - 126
Xylenes, Total	100	110		ug/Kg		110	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*
Dibromofluoromethane (Surr)	*92*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*
Toluene-d8 (Surr)	*95*		*75 - 120*

Lab Sample ID: MB 500-550262/7
Matrix: Solid
Analysis Batch: 550262

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			07/01/20 11:18	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/01/20 11:18	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/01/20 11:18	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/01/20 11:18	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/01/20 11:18	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			07/01/20 11:18	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/01/20 11:18	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/01/20 11:18	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/01/20 11:18	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/01/20 11:18	1

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

Lab Sample ID: MB 500-550262/7
Matrix: Solid
Analysis Batch: 550262

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<0.32		1.0	0.32	ug/Kg			07/01/20 11:18	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/01/20 11:18	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/01/20 11:18	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/01/20 11:18	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/01/20 11:18	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/01/20 11:18	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/01/20 11:18	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/01/20 11:18	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/01/20 11:18	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/01/20 11:18	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/01/20 11:18	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/01/20 11:18	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			07/01/20 11:18	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/01/20 11:18	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/01/20 11:18	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/01/20 11:18	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/01/20 11:18	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/01/20 11:18	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/01/20 11:18	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/01/20 11:18	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/01/20 11:18	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/01/20 11:18	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/01/20 11:18	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/01/20 11:18	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/01/20 11:18	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/01/20 11:18	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/01/20 11:18	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/01/20 11:18	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/01/20 11:18	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/01/20 11:18	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/01/20 11:18	1
Styrene	<0.39		1.0	0.39	ug/Kg			07/01/20 11:18	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/01/20 11:18	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			07/01/20 11:18	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/01/20 11:18	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/01/20 11:18	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/01/20 11:18	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/01/20 11:18	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/01/20 11:18	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/01/20 11:18	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/01/20 11:18	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/01/20 11:18	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/01/20 11:18	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/01/20 11:18	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/01/20 11:18	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			07/01/20 11:18	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/01/20 11:18	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/01/20 11:18	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/01/20 11:18	1

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

Lab Sample ID: MB 500-550262/7
Matrix: Solid
Analysis Batch: 550262

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/01/20 11:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*		*07/01/20 11:18*	*1*
Dibromofluoromethane (Surr)	*90*		*75 - 120*		*07/01/20 11:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*		*07/01/20 11:18*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*07/01/20 11:18*	*1*

Lab Sample ID: LCS 500-550262/5
Matrix: Solid
Analysis Batch: 550262

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	45.1		ug/Kg		90	70 - 120
Bromobenzene	50.0	45.6		ug/Kg		91	70 - 122
Bromochloromethane	50.0	49.5		ug/Kg		99	65 - 122
Bromodichloromethane	50.0	40.5		ug/Kg		81	69 - 120
Bromoform	50.0	43.8		ug/Kg		88	56 - 132
Bromomethane	50.0	53.8		ug/Kg		108	40 - 152
Carbon tetrachloride	50.0	44.2		ug/Kg		88	59 - 133
Chlorobenzene	50.0	47.0		ug/Kg		94	70 - 120
Chloroethane	50.0	50.4		ug/Kg		101	48 - 136
Chloroform	50.0	42.6		ug/Kg		85	70 - 120
Chloromethane	50.0	50.5		ug/Kg		101	56 - 152
2-Chlorotoluene	50.0	42.5		ug/Kg		85	70 - 125
4-Chlorotoluene	50.0	42.4		ug/Kg		85	68 - 124
cis-1,2-Dichloroethene	50.0	47.3		ug/Kg		95	70 - 125
cis-1,3-Dichloropropene	50.0	41.7		ug/Kg		83	64 - 127
Dibromochloromethane	50.0	45.3		ug/Kg		91	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	30.8		ug/Kg		62	56 - 123
1,2-Dibromoethane	50.0	46.3		ug/Kg		93	70 - 125
Dibromomethane	50.0	44.4		ug/Kg		89	70 - 120
1,2-Dichlorobenzene	50.0	46.0		ug/Kg		92	70 - 125
1,3-Dichlorobenzene	50.0	46.6		ug/Kg		93	70 - 125
1,4-Dichlorobenzene	50.0	45.4		ug/Kg		91	70 - 120
Dichlorodifluoromethane	50.0	36.0		ug/Kg		72	40 - 159
1,1-Dichloroethane	50.0	46.7		ug/Kg		93	70 - 125
1,2-Dichloroethane	50.0	41.7		ug/Kg		83	68 - 127
1,1-Dichloroethene	50.0	44.7		ug/Kg		89	67 - 122
1,2-Dichloropropane	50.0	47.2		ug/Kg		94	67 - 130
1,3-Dichloropropane	50.0	44.0		ug/Kg		88	62 - 136
2,2-Dichloropropane	50.0	39.9		ug/Kg		80	58 - 139
1,1-Dichloropropene	50.0	45.4		ug/Kg		91	70 - 121
Ethylbenzene	50.0	50.4		ug/Kg		101	70 - 123
Hexachlorobutadiene	50.0	43.2		ug/Kg		86	51 - 150
Isopropylbenzene	50.0	45.8		ug/Kg		92	70 - 126
Methylene Chloride	50.0	42.8		ug/Kg		86	69 - 125
Methyl tert-butyl ether	50.0	36.4		ug/Kg		73	55 - 123

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

Lab Sample ID: LCS 500-550262/5
Matrix: Solid
Analysis Batch: 550262

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	50.0	39.3		ug/Kg		79	53 - 144
n-Butylbenzene	50.0	44.5		ug/Kg		89	68 - 125
N-Propylbenzene	50.0	44.9		ug/Kg		90	69 - 127
p-Isopropyltoluene	50.0	45.6		ug/Kg		91	70 - 125
sec-Butylbenzene	50.0	46.1		ug/Kg		92	70 - 123
Styrene	50.0	45.9		ug/Kg		92	70 - 120
tert-Butylbenzene	50.0	45.1		ug/Kg		90	70 - 121
1,1,1,2-Tetrachloroethane	50.0	47.9		ug/Kg		96	70 - 125
1,1,2,2-Tetrachloroethane	50.0	43.5		ug/Kg		87	62 - 140
Tetrachloroethene	50.0	50.5		ug/Kg		101	70 - 128
Toluene	50.0	44.4		ug/Kg		89	70 - 125
trans-1,2-Dichloroethene	50.0	47.7		ug/Kg		95	70 - 125
trans-1,3-Dichloropropene	50.0	39.3		ug/Kg		79	62 - 128
1,2,3-Trichlorobenzene	50.0	40.4		ug/Kg		81	51 - 145
1,2,4-Trichlorobenzene	50.0	41.8		ug/Kg		84	57 - 137
1,1,1-Trichloroethane	50.0	46.2		ug/Kg		92	70 - 125
1,1,2-Trichloroethane	50.0	44.8		ug/Kg		90	71 - 130
Trichloroethene	50.0	49.0		ug/Kg		98	70 - 125
Trichlorofluoromethane	50.0	43.0		ug/Kg		86	55 - 128
1,2,3-Trichloropropane	50.0	42.3		ug/Kg		85	50 - 133
1,2,4-Trimethylbenzene	50.0	44.5		ug/Kg		89	70 - 123
1,3,5-Trimethylbenzene	50.0	45.2		ug/Kg		90	70 - 123
Vinyl chloride	50.0	55.0		ug/Kg		110	64 - 126
Xylenes, Total	100	90.4		ug/Kg		90	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*
Dibromofluoromethane (Surr)	*94*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*
Toluene-d8 (Surr)	*101*		*75 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-549546/1-A
Matrix: Solid
Analysis Batch: 549689

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 549546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<36		170	36	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
1,2-Dichlorobenzene	<40		170	40	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
1,3-Dichlorobenzene	<37		170	37	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
1,4-Dichlorobenzene	<43		170	43	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
2,2'-oxybis[1-chloropropane]	<39		170	39	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
2,4,5-Trichlorophenol	<76		330	76	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
2,4,6-Trichlorophenol	<110		330	110	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
2,4-Dichlorophenol	<79		330	79	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
2,4-Dimethylphenol	<130		330	130	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
2,4-Dinitrophenol	<590		670	590	ug/Kg		06/26/20 07:25	06/27/20 01:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-549546/1-A
Matrix: Solid
Analysis Batch: 549689

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 549546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	<53		170	53	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
2,6-Dinitrotoluene	<65		170	65	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
2-Chloronaphthalene	<37		170	37	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
2-Chlorophenol	<57		170	57	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
2-Methylphenol	<53		170	53	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
2-Nitroaniline	<45		170	45	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
2-Nitrophenol	<79		330	79	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
3 & 4 Methylphenol	<55		170	55	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
3,3'-Dichlorobenzidine	<47		170	47	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
3-Nitroaniline	<100		330	100	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
4,6-Dinitro-2-methylphenol	<270		670	270	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
4-Bromophenyl phenyl ether	<44		170	44	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
4-Chloro-3-methylphenol	<110		330	110	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
4-Chloroaniline	<160		670	160	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
4-Chlorophenyl phenyl ether	<39		170	39	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
4-Nitroaniline	<140		330	140	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
4-Nitrophenol	<320		670	320	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Acenaphthene	<6.0		33	6.0	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Anthracene	<5.6		33	5.6	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Benzoic acid	<330		1700	330	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Benzyl alcohol	<330		670	330	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Bis(2-chloroethoxy)methane	<34		170	34	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Bis(2-chloroethyl)ether	<50		170	50	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Bis(2-ethylhexyl) phthalate	<61		170	61	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Butyl benzyl phthalate	<63		170	63	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Carbazole	<83		170	83	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Chrysene	<9.1		33	9.1	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Dibenzofuran	<39		170	39	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Diethyl phthalate	<56		170	56	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Dimethyl phthalate	<43		170	43	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Di-n-butyl phthalate	<51		170	51	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Di-n-octyl phthalate	<54		170	54	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Fluoranthene	<6.2		33	6.2	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Fluorene	<4.7		33	4.7	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Hexachlorobenzene	<7.7		67	7.7	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Hexachlorobutadiene	<52		170	52	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Hexachlorocyclopentadiene	<190		670	190	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Hexachloroethane	<51		170	51	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Isophorone	<37		170	37	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Naphthalene	<5.1		33	5.1	ug/Kg		06/26/20 07:25	06/27/20 01:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-549546/1-A
Matrix: Solid
Analysis Batch: 549689

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 549546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	<8.3		33	8.3	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
N-Nitrosodi-n-propylamine	<41		67	41	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
N-Nitrosodiphenylamine	<39		170	39	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Pentachlorophenol	<530		670	530	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Phenanthrene	<4.6		33	4.6	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Phenol	<74		170	74	ug/Kg		06/26/20 07:25	06/27/20 01:11	1
Pyrene	<6.6		33	6.6	ug/Kg		06/26/20 07:25	06/27/20 01:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*129*		*31 - 143*	*06/26/20 07:25*	*06/27/20 01:11*	*1*
2-Fluorobiphenyl (Surr)	*106*		*43 - 145*	*06/26/20 07:25*	*06/27/20 01:11*	*1*
2-Fluorophenol (Surr)	*74*		*31 - 166*	*06/26/20 07:25*	*06/27/20 01:11*	*1*
Nitrobenzene-d5 (Surr)	*89*		*37 - 147*	*06/26/20 07:25*	*06/27/20 01:11*	*1*
Phenol-d5 (Surr)	*79*		*30 - 153*	*06/26/20 07:25*	*06/27/20 01:11*	*1*
Terphenyl-d14 (Surr)	*116*		*42 - 157*	*06/26/20 07:25*	*06/27/20 01:11*	*1*

Lab Sample ID: LCS 500-549546/2-A
Matrix: Solid
Analysis Batch: 549689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 549546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	1330	1330		ug/Kg		100	66 - 117
1,2-Dichlorobenzene	1330	1180		ug/Kg		89	62 - 110
1,3-Dichlorobenzene	1330	1140		ug/Kg		86	65 - 124
1,4-Dichlorobenzene	1330	1180		ug/Kg		88	61 - 110
1-Methylnaphthalene	1330	1220		ug/Kg		92	68 - 111
2,2'-oxybis[1-chloropropane]	1330	1050		ug/Kg		78	40 - 124
2,4,5-Trichlorophenol	1330	1370		ug/Kg		103	50 - 120
2,4,6-Trichlorophenol	1330	1280		ug/Kg		96	57 - 120
2,4-Dichlorophenol	1330	1260		ug/Kg		94	58 - 120
2,4-Dimethylphenol	1330	1110		ug/Kg		83	60 - 110
2,4-Dinitrophenol	2670	872		ug/Kg		33	10 - 100
2,4-Dinitrotoluene	1330	1570		ug/Kg		118	69 - 124
2,6-Dinitrotoluene	1330	1370		ug/Kg		103	70 - 123
2-Chloronaphthalene	1330	1220		ug/Kg		91	69 - 114
2-Chlorophenol	1330	1180		ug/Kg		88	64 - 110
2-Methylnaphthalene	1330	1220		ug/Kg		91	69 - 112
2-Methylphenol	1330	1120		ug/Kg		84	60 - 120
2-Nitroaniline	1330	1120		ug/Kg		84	57 - 124
2-Nitrophenol	1330	1230		ug/Kg		92	60 - 120
3 & 4 Methylphenol	1330	1070		ug/Kg		80	57 - 120
3,3'-Dichlorobenzidine	1330	1100		ug/Kg		82	35 - 128
3-Nitroaniline	1330	830		ug/Kg		62	40 - 122
4,6-Dinitro-2-methylphenol	2670	1680		ug/Kg		63	10 - 110
4-Bromophenyl phenyl ether	1330	1350		ug/Kg		101	68 - 118
4-Chloro-3-methylphenol	1330	1210		ug/Kg		91	65 - 122
4-Chloroaniline	1330	946		ug/Kg		71	30 - 150
4-Chlorophenyl phenyl ether	1330	1260		ug/Kg		95	62 - 119

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-549546/2-A
Matrix: Solid
Analysis Batch: 549689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 549546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	1330	1070		ug/Kg		80	60 - 160
4-Nitrophenol	2670	2970		ug/Kg		111	30 - 122
Acenaphthene	1330	1260		ug/Kg		94	65 - 124
Acenaphthylene	1330	1200		ug/Kg		90	68 - 120
Anthracene	1330	1300		ug/Kg		97	70 - 114
Benzo[a]anthracene	1330	1190		ug/Kg		89	67 - 122
Benzo[a]pyrene	1330	1190		ug/Kg		89	65 - 133
Benzo[b]fluoranthene	1330	1120		ug/Kg		84	69 - 129
Benzo[g,h,i]perylene	1330	1380		ug/Kg		103	72 - 131
Benzo[k]fluoranthene	1330	1360		ug/Kg		102	68 - 127
Benzoic acid	2670	1220	J	ug/Kg		46	10 - 100
Benzyl alcohol	1330	1070		ug/Kg		80	21 - 139
Bis(2-chloroethoxy)methane	1330	1040		ug/Kg		78	60 - 112
Bis(2-chloroethyl)ether	1330	918		ug/Kg		69	55 - 111
Bis(2-ethylhexyl) phthalate	1330	1070		ug/Kg		81	72 - 131
Butyl benzyl phthalate	1330	986		ug/Kg		74	71 - 129
Carbazole	1330	1520		ug/Kg		114	65 - 142
Chrysene	1330	1200		ug/Kg		90	63 - 120
Dibenz(a,h)anthracene	1330	1290		ug/Kg		96	64 - 131
Dibenzofuran	1330	1310		ug/Kg		98	66 - 115
Diethyl phthalate	1330	1440		ug/Kg		108	58 - 120
Dimethyl phthalate	1330	1250		ug/Kg		94	69 - 116
Di-n-butyl phthalate	1330	1290		ug/Kg		97	65 - 120
Di-n-octyl phthalate	1330	1220		ug/Kg		91	68 - 134
Fluoranthene	1330	1300		ug/Kg		98	62 - 120
Fluorene	1330	1220		ug/Kg		92	62 - 120
Hexachlorobenzene	1330	1610		ug/Kg		121	63 - 124
Hexachlorobutadiene	1330	1550		ug/Kg		116	56 - 120
Hexachlorocyclopentadiene	1330	469	J	ug/Kg		35	10 - 133
Hexachloroethane	1330	1230		ug/Kg		92	60 - 114
Indeno[1,2,3-cd]pyrene	1330	1200		ug/Kg		90	68 - 130
Isophorone	1330	1070		ug/Kg		80	55 - 110
Naphthalene	1330	1210		ug/Kg		91	63 - 110
Nitrobenzene	1330	1170		ug/Kg		88	60 - 116
N-Nitrosodi-n-propylamine	1330	1160		ug/Kg		87	56 - 118
N-Nitrosodiphenylamine	1330	1310		ug/Kg		98	65 - 112
Pentachlorophenol	2670	1340		ug/Kg		50	13 - 112
Phenanthrene	1330	1280		ug/Kg		96	62 - 120
Phenol	1330	1200		ug/Kg		90	56 - 122
Pyrene	1330	1060		ug/Kg		80	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*156*	*X*	*31 - 143*
2-Fluorobiphenyl (Surr)	*122*		*43 - 145*
2-Fluorophenol (Surr)	*83*		*31 - 166*
Nitrobenzene-d5 (Surr)	*96*		*37 - 147*
Phenol-d5 (Surr)	*92*		*30 - 153*
Terphenyl-d14 (Surr)	*110*		*42 - 157*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-549825/1-A
Matrix: Solid
Analysis Batch: 549894

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 549825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		06/29/20 08:05	06/29/20 14:56	1
PCB-1221	<7.3		17	7.3	ug/Kg		06/29/20 08:05	06/29/20 14:56	1
PCB-1232	<7.3		17	7.3	ug/Kg		06/29/20 08:05	06/29/20 14:56	1
PCB-1242	<5.5		17	5.5	ug/Kg		06/29/20 08:05	06/29/20 14:56	1
PCB-1248	<6.6		17	6.6	ug/Kg		06/29/20 08:05	06/29/20 14:56	1
PCB-1254	<3.6		17	3.6	ug/Kg		06/29/20 08:05	06/29/20 14:56	1
PCB-1260	<8.2		17	8.2	ug/Kg		06/29/20 08:05	06/29/20 14:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*49 - 129*	*06/29/20 08:05*	*06/29/20 14:56*	*1*
DCB Decachlorobiphenyl	*101*		*37 - 121*	*06/29/20 08:05*	*06/29/20 14:56*	*1*

Lab Sample ID: LCS 500-549825/3-A
Matrix: Solid
Analysis Batch: 549894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 549825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	136		ug/Kg		82	57 - 120
PCB-1260	167	142		ug/Kg		85	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*49 - 129*
DCB Decachlorobiphenyl	*102*		*37 - 121*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 500-549272/1-A
Matrix: Solid
Analysis Batch: 549655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 549272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.6		4.0	1.6	mg/Kg		06/25/20 06:17	06/26/20 20:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*74*		*44 - 148*	*06/25/20 06:17*	*06/26/20 20:29*	*1*

Lab Sample ID: LCS 500-549272/2-A
Matrix: Solid
Analysis Batch: 549655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 549272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	20.0	15.8		mg/Kg		79	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Nonane	*75*		*44 - 148*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: LCSD 500-549272/3-A
Matrix: Solid
Analysis Batch: 549655

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 549272

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)			20.0	16.6		mg/Kg		83	70 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Nonane	*75*		*44 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-550463/2-A
Matrix: Solid
Analysis Batch: 550703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 550463

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			0.100	0.111		mg/L		111	80 - 120		
Barium			0.500	0.509		mg/L		102	80 - 120		
Cadmium			0.0500	0.0522		mg/L		104	80 - 120		
Chromium			0.200	0.193		mg/L		96	80 - 120		
Copper			0.250	0.269		mg/L		107	80 - 120		
Lead			0.100	0.0978		mg/L		98	80 - 120		
Nickel			0.500	0.514		mg/L		103	80 - 120		
Selenium			0.100	0.115		mg/L		115	80 - 120		
Silver			0.0500	0.0532		mg/L		106	80 - 120		
Zinc			0.500	0.550		mg/L		110	80 - 120		

Lab Sample ID: LB 500-550124/1-B
Matrix: Solid
Analysis Batch: 550703

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 550463

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		07/02/20 05:54	07/05/20 20:20	1
Barium	<0.050		0.50	0.050	mg/L		07/02/20 05:54	07/05/20 20:20	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		07/02/20 05:54	07/05/20 20:20	1
Chromium	<0.010		0.025	0.010	mg/L		07/02/20 05:54	07/05/20 20:20	1
Copper	<0.010		0.025	0.010	mg/L		07/02/20 05:54	07/05/20 20:20	1
Lead	<0.0075		0.050	0.0075	mg/L		07/02/20 05:54	07/05/20 20:20	1
Nickel	<0.010		0.025	0.010	mg/L		07/02/20 05:54	07/05/20 20:20	1
Selenium	<0.020		0.050	0.020	mg/L		07/02/20 05:54	07/05/20 20:20	1
Silver	<0.010		0.025	0.010	mg/L		07/02/20 05:54	07/05/20 20:20	1
Zinc	<0.020		0.10	0.020	mg/L		07/02/20 05:54	07/05/20 20:20	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-550180/1-A
Matrix: Solid
Analysis Batch: 550358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 550180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		06/30/20 18:25	07/01/20 08:05	1
Barium	<0.11		1.0	0.11	mg/Kg		06/30/20 18:25	07/01/20 08:05	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 500-550180/1-A
Matrix: Solid
Analysis Batch: 550358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 550180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0364	J	0.20	0.036	mg/Kg		06/30/20 18:25	07/01/20 08:05	1
Chromium	<0.50		1.0	0.50	mg/Kg		06/30/20 18:25	07/01/20 08:05	1
Copper	<0.28		1.0	0.28	mg/Kg		06/30/20 18:25	07/01/20 08:05	1
Lead	<0.23		0.50	0.23	mg/Kg		06/30/20 18:25	07/01/20 08:05	1
Molybdenum	<0.42		1.0	0.42	mg/Kg		06/30/20 18:25	07/01/20 08:05	1
Selenium	<0.59		1.0	0.59	mg/Kg		06/30/20 18:25	07/01/20 08:05	1
Silver	0.321	J	0.50	0.13	mg/Kg		06/30/20 18:25	07/01/20 08:05	1
Zinc	<0.88		2.0	0.88	mg/Kg		06/30/20 18:25	07/01/20 08:05	1

Lab Sample ID: LCS 500-550180/2-A
Matrix: Solid
Analysis Batch: 550358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 550180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.61		mg/Kg		96	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Cadmium	5.00	4.82		mg/Kg		96	80 - 120
Chromium	20.0	19.1		mg/Kg		95	80 - 120
Copper	25.0	24.9		mg/Kg		99	80 - 120
Lead	10.0	9.83		mg/Kg		98	80 - 120
Molybdenum	100	100		mg/Kg		100	80 - 120
Selenium	10.0	8.94		mg/Kg		89	80 - 120
Silver	5.00	4.92		mg/Kg		98	80 - 120
Zinc	50.0	48.2		mg/Kg		96	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-550537/12-A
Matrix: Solid
Analysis Batch: 550793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 550537

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/02/20 09:05	07/06/20 08:40	1

Lab Sample ID: LCS 500-550537/14-A
Matrix: Solid
Analysis Batch: 550793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 550537

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00218		mg/L		109	80 - 120

Lab Sample ID: LB 500-550124/1-C
Matrix: Solid
Analysis Batch: 550793

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 550537

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/02/20 09:05	07/06/20 08:42	1

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Job ID: 500-183818-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-550322/12-A
Matrix: Solid
Analysis Batch: 550576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 550322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		07/01/20 13:30	07/02/20 08:46	1

Lab Sample ID: LCS 500-550322/13-A
Matrix: Solid
Analysis Batch: 550576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 550322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.171		mg/Kg		102	80 - 120

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Job ID: 500-183818-1

Client Sample ID: SB01 2-4
Date Collected: 06/18/20 08:30
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	550065	06/30/20 08:58	LWN	TAL CHI

Client Sample ID: SB01 2-4
Date Collected: 06/18/20 08:30
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-1
Matrix: Solid
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			549245	06/18/20 08:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	550023	06/30/20 16:46	JDD	TAL CHI
Total/NA	Prep	3050B			550180	06/30/20 18:25	BDE	TAL CHI
Total/NA	Analysis	6010C		1	550358	07/01/20 08:44	JEF	TAL CHI

Client Sample ID: SB02 0-2
Date Collected: 06/18/20 09:00
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	550065	06/30/20 08:58	LWN	TAL CHI

Client Sample ID: SB02 0-2
Date Collected: 06/18/20 09:00
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-2
Matrix: Solid
Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			549245	06/18/20 09:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	550023	06/30/20 17:14	JDD	TAL CHI
Total/NA	Prep	3050B			550180	06/30/20 18:25	BDE	TAL CHI
Total/NA	Analysis	6010C		1	550358	07/01/20 08:48	JEF	TAL CHI

Client Sample ID: SB03 0-2
Date Collected: 06/18/20 09:15
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	550065	06/30/20 08:58	LWN	TAL CHI

Client Sample ID: SB03 0-2
Date Collected: 06/18/20 09:15
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-3
Matrix: Solid
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			549245	06/18/20 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	550023	06/30/20 17:42	JDD	TAL CHI
Total/NA	Prep	3050B			550180	06/30/20 18:25	BDE	TAL CHI
Total/NA	Analysis	6010C		1	550358	07/01/20 08:52	JEF	TAL CHI

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Job ID: 500-183818-1

Client Sample ID: SB04 0-2
Date Collected: 06/18/20 09:40
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	550065	06/30/20 08:58	LWN	TAL CHI

Client Sample ID: SB04 0-2
Date Collected: 06/18/20 09:40
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-4
Matrix: Solid
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			549245	06/18/20 09:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	550023	06/30/20 18:10	JDD	TAL CHI
Total/NA	Prep	3050B			550180	06/30/20 18:25	BDE	TAL CHI
Total/NA	Analysis	6010C		1	550358	07/01/20 08:56	JEF	TAL CHI

Client Sample ID: SB05 0-2
Date Collected: 06/18/20 10:30
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	550065	06/30/20 08:58	LWN	TAL CHI

Client Sample ID: SB05 0-2
Date Collected: 06/18/20 10:30
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-5
Matrix: Solid
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			549245	06/18/20 10:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	550023	06/30/20 18:38	JDD	TAL CHI
Total/NA	Prep	3541			549825	06/29/20 08:05	BSO	TAL CHI
Total/NA	Analysis	8082A		10	549894	06/29/20 17:15	BJH	TAL CHI
Total/NA	Prep	3050B			550180	06/30/20 18:25	BDE	TAL CHI
Total/NA	Analysis	6010C		1	550358	07/01/20 09:00	JEF	TAL CHI
Total/NA	Prep	7471B			550322	07/01/20 13:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	550576	07/02/20 09:39	MJG	TAL CHI

Client Sample ID: SB06 2-4
Date Collected: 06/18/20 10:45
Date Received: 06/19/20 09:50

Lab Sample ID: 500-183818-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	550065	06/30/20 08:58	LWN	TAL CHI

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Job ID: 500-183818-1

Client Sample ID: SB06 2-4

Lab Sample ID: 500-183818-6
Date Collected: 06/18/20 10:45
Matrix: Solid
Date Received: 06/19/20 09:50
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			549245	06/18/20 10:45	WRE	TAL CHI
Total/NA	Analysis	8260B		500	550262	07/01/20 18:05	JDD	TAL CHI
Total/NA	Prep	5035	DL		549245	06/18/20 10:45	WRE	TAL CHI
Total/NA	Analysis	8260B	DL	5000	550262	07/01/20 18:30	JDD	TAL CHI
Total/NA	Prep	3541			549825	06/29/20 08:05	BSO	TAL CHI
Total/NA	Analysis	8082A		10	549894	06/29/20 17:30	BJH	TAL CHI
Total/NA	Prep	3050B			550180	06/30/20 18:25	BDE	TAL CHI
Total/NA	Analysis	6010C		1	550358	07/01/20 09:04	JEF	TAL CHI
Total/NA	Prep	7471B			550322	07/01/20 13:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	550576	07/02/20 09:41	MJG	TAL CHI

Client Sample ID: SB07 2-4

Lab Sample ID: 500-183818-7
Date Collected: 06/18/20 11:10
Matrix: Solid
Date Received: 06/19/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	550065	06/30/20 08:58	LWN	TAL CHI

Client Sample ID: SB07 2-4

Lab Sample ID: 500-183818-7
Date Collected: 06/18/20 11:10
Matrix: Solid
Date Received: 06/19/20 09:50
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			549245	06/18/20 11:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	550023	06/30/20 19:05	JDD	TAL CHI
Total/NA	Prep	3541			549825	06/29/20 08:05	BSO	TAL CHI
Total/NA	Analysis	8082A		10	549894	06/29/20 17:45	BJH	TAL CHI
Total/NA	Prep	3050B			550180	06/30/20 18:25	BDE	TAL CHI
Total/NA	Analysis	6010C		1	550358	07/01/20 09:08	JEF	TAL CHI
Total/NA	Prep	7471B			550322	07/01/20 13:30	MJG	TAL CHI
Total/NA	Analysis	7471B		1	550576	07/02/20 09:43	MJG	TAL CHI

Client Sample ID: Trip Blank 01

Lab Sample ID: 500-183818-8
Date Collected: 06/18/20 00:00
Matrix: Solid
Date Received: 06/19/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			549245	06/18/20 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	550023	06/30/20 13:04	JDD	TAL CHI

Lab Chronicle

Client: Ramboll US Corporation
Job ID: 500-183818-1
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Client Sample ID: Composite 01
Lab Sample ID: 500-183818-9
Date Collected: 06/18/20 11:40
Matrix: Solid
Date Received: 06/19/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			550124	06/30/20 13:20	BEC	TAL CHI
TCLP	Prep	3010A			550463	07/02/20 05:54	LMN	TAL CHI
TCLP	Analysis	6010B		1	550703	07/05/20 20:28	EEN	TAL CHI
TCLP	Leach	1311			550124	06/30/20 13:20	BEC	TAL CHI
TCLP	Prep	7470A			550537	07/02/20 09:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	550793	07/06/20 08:45	MJG	TAL CHI
Total/NA	Analysis	Moisture		1	550065	06/30/20 08:58	LWN	TAL CHI

Client Sample ID: Composite 01
Lab Sample ID: 500-183818-9
Date Collected: 06/18/20 11:40
Matrix: Solid
Date Received: 06/19/20 09:50
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541	DL		549546	06/26/20 07:25	BSO	TAL CHI
Total/NA	Analysis	8270D	DL	5	549782	06/29/20 18:20	AJD	TAL CHI
Total/NA	Prep	3541			549546	06/26/20 07:25	BSO	TAL CHI
Total/NA	Analysis	8270D		1	549689	06/27/20 09:30	NRJ	TAL CHI
Total/NA	Prep	WI DRO PREP			549272	06/25/20 06:17	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	549655	06/29/20 08:25	SS	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Ramboll US Corporation
Job ID: 500-183818-1
Project/Site: WisDOT STH 58 ph. 2.5 - 75828

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

Samples dropped at TA Brakfield

eurofins Environment Testing America

Client Information	Sampler: Kyle Schaefer	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-82683-37749.1
Client Contact: Dan Vachon	Phone: 414-837-3610	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 1 of 1
Company: Ramboll US Corporation				Job #: 500-183818

Address: 234 W. Florida Street Fifth Floor	Due Date Requested:	Analysis Requested
City: Milwaukee	TAT Requested (days): Standard	
State, Zip: WI, 53204	PO #: Purchase Order Requested	
Phone: 414-837-3687(Tel)	WO #:	
Email: Dan.Vachon@ramboll.com	Project #: 50017534	
Project Name: WisDOT STH 58 Ph 2.5 75828	SSOW#:	
Site:		

500-183818 COC

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	Z - other (specify)

Other:

	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)	6010C - Lead	8260B - PVOC+NAP	8260B - VOC	6010C, 7471B, 8082A	8270D - SVOC	WI_DRO - WI DRO	6010B, 7470A	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N	N	N	N	N	N		
1	SB01 2-4	6-18-20	0830	G	Solid			X	X							
2	SB02 0-2		0910	G	Solid			X	X							
3	SB03 0-2		0915	G	Solid			X	X							
4	SB04 0-2		0940	G	Solid			X	X							
5	SB05 0-2		1030	G	Solid					X	X					
6	SB06 2-4		1045	G	Solid					X	X					
7	SB07 2-4		1110	G	Solid					X	X					
8	Trip Blank 01		-	-	~~Solid~~					X						
9	Composite 01	↓	1140	C	Solid							X	X	X		
					Solid											
					Solid											

MJB 6/18/20

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ 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	Date/Time	Company	Received by	Date/Time	Company
1	Kyle Schaefer	6/18/20 1530	Ramboll	[signature]	6-18-20 1530	TA
2	[signature]	6-18-20 1700	TA	[signature]	6/19/20 0950	TA-CHI
3	Relinquished by	Date/Time	Company	Received by	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.4

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-183818-1

Login Number: 183818
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, 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	2.4
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.	False	Refer to Job Narrative for details.
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

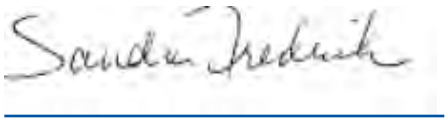
ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-184614-1
Client Project/Site: WisDOT STH 58 Ph 2.5 - 75828

For:
Ramboll US Corporation
234 W. Florida Street
Fifth Floor
Milwaukee, Wisconsin 53204

Attn: Dan Vachon



Authorized for release by:
7/22/2020 11:17:49 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-184614-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-184614-1

Comments
No additional comments.

Receipt
The samples were received on 7/9/2020 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3º C.

Receipt Exceptions
The following sample(s) was received outside of holding time for PVOC and TCLP Benzene,

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
Methods 5035, WI GRO: sample vial has < 8 grams of soil in 10 ml of methanol. SB06 0-2 (500-184614-7)

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

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

Detection Summary

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 Ph 2.5 - 75828

Job ID: 500-184614-1

Client Sample ID: SB01 0-2 — Lab Sample ID: 500-184614-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	110		0.53	0.24	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SB02 2-4 — Lab Sample ID: 500-184614-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	18		0.58	0.27	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SB03 2-4 — Lab Sample ID: 500-184614-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.56	0.26	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SB04 2-4 — Lab Sample ID: 500-184614-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	17		0.62	0.29	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Composite 02 — Lab Sample ID: 500-184614-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.20		0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: SB05 2-4 — Lab Sample ID: 500-184614-6

No Detections.

Client Sample ID: SB06 0-2 — Lab Sample ID: 500-184614-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	20	H3	17	12	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	95	H3	68	23	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	110	H3	68	24	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	89	H3	68	26	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	110	H3	34	15	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: SB07 0-2 — Lab Sample ID: 500-184614-8

No Detections.

Client Sample ID: SB06 2-4 — Lab Sample ID: 500-184614-9

No Detections.

Client Sample ID: Trip Blank 02 — Lab Sample ID: 500-184614-10

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll US Corporation
Job ID: 500-184614-1
Project/Site: WisDOT STH 58 Ph 2.5 - 75828

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010C	Metals (ICP)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 Ph 2.5 - 75828

Job ID: 500-184614-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-184614-1	SB01 0-2	Solid	06/18/20 08:30	07/09/20 08:27	
500-184614-2	SB02 2-4	Solid	06/18/20 09:00	07/09/20 08:27	
500-184614-3	SB03 2-4	Solid	06/18/20 09:15	07/09/20 08:27	
500-184614-4	SB04 2-4	Solid	06/18/20 09:40	07/09/20 08:27	
500-184614-5	Composite 02	Solid	06/18/20 12:00	07/09/20 08:27	
500-184614-6	SB05 2-4	Solid	06/18/20 10:30	07/09/20 08:27	
500-184614-7	SB06 0-2	Solid	06/18/20 10:45	07/09/20 08:27	
500-184614-8	SB07 0-2	Solid	06/18/20 11:10	07/09/20 08:27	
500-184614-9	SB06 2-4	Solid	06/18/20 10:45	07/09/20 08:27	
500-184614-10	Trip Blank 02	Solid	07/08/20 00:00	07/09/20 08:27	

Client Sample Results

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 Ph 2.5 - 75828

Job ID: 500-184614-1

Client Sample ID: SB01 0-2
Date Collected: 06/18/20 08:30
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-1
Matrix: Solid
Percent Solids: 90.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110		0.53	0.24	mg/Kg	☼	07/13/20 17:48	07/14/20 12:09	1

Client Sample Results

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 Ph 2.5 - 75828

Job ID: 500-184614-1

Client Sample ID: SB02 2-4
Date Collected: 06/18/20 09:00
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-2
Matrix: Solid
Percent Solids: 79.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18		0.58	0.27	mg/Kg	☼	07/13/20 17:48	07/14/20 12:13	1

Client Sample Results

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 Ph 2.5 - 75828

Job ID: 500-184614-1

Client Sample ID: SB03 2-4
Date Collected: 06/18/20 09:15
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-3
Matrix: Solid
Percent Solids: 79.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.56	0.26	mg/Kg	☼	07/13/20 17:48	07/14/20 12:25	1

Client Sample Results

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 Ph 2.5 - 75828

Job ID: 500-184614-1

Client Sample ID: SB04 2-4
Date Collected: 06/18/20 09:40
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-4
Matrix: Solid
Percent Solids: 79.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17		0.62	0.29	mg/Kg	☼	07/13/20 17:48	07/14/20 12:29	1

Client Sample Results

Client: Ramboll US Corporation
Job ID: 500-184614-1
Project/Site: WisDOT STH 58 Ph 2.5 - 75828

Client Sample ID: Composite 02
Lab Sample ID: 500-184614-5
Date Collected: 06/18/20 12:00
Matrix: Solid
Date Received: 07/09/20 08:27

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.20		0.050	0.0075	mg/L		07/16/20 05:52	07/16/20 20:16	1

Client Sample ID: SB05 2-4
Lab Sample ID: 500-184614-6
Date Collected: 06/18/20 10:30
Matrix: Solid
Date Received: 07/09/20 08:27
Percent Solids: 87.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.7	H3	17	9.7	ug/Kg	☼	06/18/20 10:30	07/13/20 13:55	50
Ethylbenzene	<12	H3	17	12	ug/Kg	☼	06/18/20 10:30	07/13/20 13:55	50
Methyl tert-butyl ether	<26	H3	66	26	ug/Kg	☼	06/18/20 10:30	07/13/20 13:55	50
Naphthalene	<22	H3	66	22	ug/Kg	☼	06/18/20 10:30	07/13/20 13:55	50
Toluene	<9.8	H3	17	9.8	ug/Kg	☼	06/18/20 10:30	07/13/20 13:55	50
1,2,4-Trimethylbenzene	<24	H3	66	24	ug/Kg	☼	06/18/20 10:30	07/13/20 13:55	50
1,3,5-Trimethylbenzene	<25	H3	66	25	ug/Kg	☼	06/18/20 10:30	07/13/20 13:55	50
Xylenes, Total	<15	H3	33	15	ug/Kg	☼	06/18/20 10:30	07/13/20 13:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*	*06/18/20 10:30*	*07/13/20 13:55*	*50*
Dibromofluoromethane (Surr)	*104*		*75 - 120*	*06/18/20 10:30*	*07/13/20 13:55*	*50*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*	*06/18/20 10:30*	*07/13/20 13:55*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*06/18/20 10:30*	*07/13/20 13:55*	*50*

Client Sample ID: SB06 0-2
Lab Sample ID: 500-184614-7
Date Collected: 06/18/20 10:45
Matrix: Solid
Date Received: 07/09/20 08:27
Percent Solids: 95.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.9	H3	17	9.9	ug/Kg	☼	06/18/20 10:45	07/13/20 14:19	50
Ethylbenzene	**20**	**H3**	17	12	ug/Kg	☼	06/18/20 10:45	07/13/20 14:19	50
Methyl tert-butyl ether	<27	H3	68	27	ug/Kg	☼	06/18/20 10:45	07/13/20 14:19	50
Naphthalene	**95**	**H3**	68	23	ug/Kg	☼	06/18/20 10:45	07/13/20 14:19	50
Toluene	<10	H3	17	10	ug/Kg	☼	06/18/20 10:45	07/13/20 14:19	50
1,2,4-Trimethylbenzene	**110**	**H3**	68	24	ug/Kg	☼	06/18/20 10:45	07/13/20 14:19	50
1,3,5-Trimethylbenzene	**89**	**H3**	68	26	ug/Kg	☼	06/18/20 10:45	07/13/20 14:19	50
Xylenes, Total	**110**	**H3**	34	15	ug/Kg	☼	06/18/20 10:45	07/13/20 14:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*	*06/18/20 10:45*	*07/13/20 14:19*	*50*
Dibromofluoromethane (Surr)	*102*		*75 - 120*	*06/18/20 10:45*	*07/13/20 14:19*	*50*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*	*06/18/20 10:45*	*07/13/20 14:19*	*50*
Toluene-d8 (Surr)	*103*		*75 - 120*	*06/18/20 10:45*	*07/13/20 14:19*	*50*

Client Sample ID: SB07 0-2
Lab Sample ID: 500-184614-8
Date Collected: 06/18/20 11:10
Matrix: Solid
Date Received: 07/09/20 08:27
Percent Solids: 94.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.4	H3	16	9.4	ug/Kg	☼	06/18/20 11:10	07/13/20 14:43	50
Ethylbenzene	<12	H3	16	12	ug/Kg	☼	06/18/20 11:10	07/13/20 14:43	50
Methyl tert-butyl ether	<25	H3	64	25	ug/Kg	☼	06/18/20 11:10	07/13/20 14:43	50
Naphthalene	<21	H3	64	21	ug/Kg	☼	06/18/20 11:10	07/13/20 14:43	50
Toluene	<9.4	H3	16	9.4	ug/Kg	☼	06/18/20 11:10	07/13/20 14:43	50
1,2,4-Trimethylbenzene	<23	H3	64	23	ug/Kg	☼	06/18/20 11:10	07/13/20 14:43	50
1,3,5-Trimethylbenzene	<24	H3	64	24	ug/Kg	☼	06/18/20 11:10	07/13/20 14:43	50
Xylenes, Total	<14	H3	32	14	ug/Kg	☼	06/18/20 11:10	07/13/20 14:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*	*06/18/20 11:10*	*07/13/20 14:43*	*50*
Dibromofluoromethane (Surr)	*102*		*75 - 120*	*06/18/20 11:10*	*07/13/20 14:43*	*50*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 126*	*06/18/20 11:10*	*07/13/20 14:43*	*50*
Toluene-d8 (Surr)	*104*		*75 - 120*	*06/18/20 11:10*	*07/13/20 14:43*	*50*

Client Sample ID: SB06 2-4
Lab Sample ID: 500-184614-9
Date Collected: 06/18/20 10:45
Matrix: Solid
Date Received: 07/09/20 08:27

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010	H3	0.020	0.010	mg/L			07/21/20 15:13	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*07/21/20 15:13*	*20*
Dibromofluoromethane (Surr)	*89*		*75 - 120*		*07/21/20 15:13*	*20*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*07/21/20 15:13*	*20*
Toluene-d8 (Surr)	*95*		*75 - 120*		*07/21/20 15:13*	*20*

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 Ph 2.5 - 75828

Job ID: 500-184614-1

Client Sample ID: Trip Blank 02
Date Collected: 07/08/20 00:00
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-10
Matrix: Solid
Percent Solids: 100.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg	☼	07/08/20 00:00	07/13/20 12:19	50
Ethylbenzene	<9.2		13	9.2	ug/Kg	☼	07/08/20 00:00	07/13/20 12:19	50
Methyl tert-butyl ether	<20		50	20	ug/Kg	☼	07/08/20 00:00	07/13/20 12:19	50
Naphthalene	<17		50	17	ug/Kg	☼	07/08/20 00:00	07/13/20 12:19	50
Toluene	<7.4		13	7.4	ug/Kg	☼	07/08/20 00:00	07/13/20 12:19	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg	☼	07/08/20 00:00	07/13/20 12:19	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg	☼	07/08/20 00:00	07/13/20 12:19	50
Xylenes, Total	<11		25	11	ug/Kg	☼	07/08/20 00:00	07/13/20 12:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*	*07/08/20 00:00*	*07/13/20 12:19*	*50*
Dibromofluoromethane (Surr)	*101*		*75 - 120*	*07/08/20 00:00*	*07/13/20 12:19*	*50*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*	*07/08/20 00:00*	*07/13/20 12:19*	*50*
Toluene-d8 (Surr)	*103*		*75 - 120*	*07/08/20 00:00*	*07/13/20 12:19*	*50*

Definitions/Glossary

Client: Ramboll US Corporation
Job ID: 500-184614-1
Project/Site: WisDOT STH 58 Ph 2.5 - 75828

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H3	Sample was received and analyzed past holding time.

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

GC/MS VOA

Prep Batch: 551735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-184614-6	SB05 2-4	Total/NA	Solid	5035	
500-184614-7	SB06 0-2	Total/NA	Solid	5035	
500-184614-8	SB07 0-2	Total/NA	Solid	5035	
500-184614-10	Trip Blank 02	Total/NA	Solid	5035	
LB3 500-551735/17-A	Method Blank	Total/NA	Solid	5035	
500-184614-8 MS	SB07 0-2	Total/NA	Solid	5035	
500-184614-8 MSD	SB07 0-2	Total/NA	Solid	5035	

Analysis Batch: 551788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-184614-6	SB05 2-4	Total/NA	Solid	8260B	551735
500-184614-7	SB06 0-2	Total/NA	Solid	8260B	551735
500-184614-8	SB07 0-2	Total/NA	Solid	8260B	551735
500-184614-10	Trip Blank 02	Total/NA	Solid	8260B	551735
MB 500-551788/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-551788/4	Lab Control Sample	Total/NA	Solid	8260B	
500-184614-8 MS	SB07 0-2	Total/NA	Solid	8260B	551735
500-184614-8 MSD	SB07 0-2	Total/NA	Solid	8260B	551735

Analysis Batch: 551803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-551735/17-A	Method Blank	Total/NA	Solid	8260B	551735
MB 500-551803/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-551803/5	Lab Control Sample	Total/NA	Solid	8260B	

Leach Batch: 552916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-184614-9	SB06 2-4	TCLP	Solid	1311	
LB 500-552916/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 552999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-184614-9	SB06 2-4	TCLP	Solid	8260B	552916
LB 500-552916/1-A	Method Blank	TCLP	Solid	8260B	552916
MB 500-552999/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-552999/4	Lab Control Sample	Total/NA	Solid	8260B	

Metals

Prep Batch: 551936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-184614-1	SB01 0-2	Total/NA	Solid	3050B	
500-184614-2	SB02 2-4	Total/NA	Solid	3050B	
500-184614-3	SB03 2-4	Total/NA	Solid	3050B	
500-184614-4	SB04 2-4	Total/NA	Solid	3050B	
MB 500-551936/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-551936/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 552093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-184614-5	Composite 02	TCLP	Solid	1311	

Metals (Continued)

Leach Batch: 552093 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-552093/2-B	Method Blank	TCLP	Solid	1311	
500-184614-5 MS	Composite 02	TCLP	Solid	1311	
500-184614-5 DU	Composite 02	TCLP	Solid	1311	

Analysis Batch: 552101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-184614-1	SB01 0-2	Total/NA	Solid	6010C	551936
500-184614-2	SB02 2-4	Total/NA	Solid	6010C	551936
500-184614-3	SB03 2-4	Total/NA	Solid	6010C	551936
500-184614-4	SB04 2-4	Total/NA	Solid	6010C	551936
MB 500-551936/1-A	Method Blank	Total/NA	Solid	6010C	551936
LCS 500-551936/2-A	Lab Control Sample	Total/NA	Solid	6010C	551936

Prep Batch: 552398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-184614-5	Composite 02	TCLP	Solid	3010A	552093
LB 500-552093/2-B	Method Blank	TCLP	Solid	3010A	552093
LCS 500-552398/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-184614-5 MS	Composite 02	TCLP	Solid	3010A	552093
500-184614-5 DU	Composite 02	TCLP	Solid	3010A	552093

Analysis Batch: 552572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-184614-5	Composite 02	TCLP	Solid	6010B	552398
LB 500-552093/2-B	Method Blank	TCLP	Solid	6010B	552398
LCS 500-552398/2-A	Lab Control Sample	Total/NA	Solid	6010B	552398
500-184614-5 MS	Composite 02	TCLP	Solid	6010B	552398
500-184614-5 DU	Composite 02	TCLP	Solid	6010B	552398

General Chemistry

Analysis Batch: 551907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-184614-1	SB01 0-2	Total/NA	Solid	Moisture	
500-184614-2	SB02 2-4	Total/NA	Solid	Moisture	
500-184614-3	SB03 2-4	Total/NA	Solid	Moisture	
500-184614-4	SB04 2-4	Total/NA	Solid	Moisture	
500-184614-6	SB05 2-4	Total/NA	Solid	Moisture	
500-184614-7	SB06 0-2	Total/NA	Solid	Moisture	
500-184614-8	SB07 0-2	Total/NA	Solid	Moisture	
500-184614-10	Trip Blank 02	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 Ph 2.5 - 75828

Job ID: 500-184614-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **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)
500-184614-6	SB05 2-4	91	104	108	102
500-184614-7	SB06 0-2	89	102	109	103
500-184614-8	SB07 0-2	91	102	111	104
500-184614-8 MS	SB07 0-2	92	105	113	100
500-184614-8 MSD	SB07 0-2	95	109	114	99
500-184614-10	Trip Blank 02	87	101	102	103
LB3 500-551735/17-A	Method Blank	102	91	87	100
LCS 500-551788/4	Lab Control Sample	94	110	115	100
LCS 500-551803/5	Lab Control Sample	91	98	88	102
LCS 500-552999/4	Lab Control Sample	92	92	102	98
MB 500-551788/6	Method Blank	90	109	116	98
MB 500-551803/7	Method Blank	106	95	89	98
MB 500-552999/6	Method Blank	98	90	104	96

Surrogate Legend

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

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-184614-9	SB06 2-4	94	89	104	95
LB 500-552916/1-A	Method Blank	96	87	99	96

Surrogate Legend

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

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-551735/17-A
Matrix: Solid
Analysis Batch: 551803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551735

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg		07/10/20 21:25	07/13/20 10:57	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		07/10/20 21:25	07/13/20 10:57	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		07/10/20 21:25	07/13/20 10:57	50
Naphthalene	<17		50	17	ug/Kg		07/10/20 21:25	07/13/20 10:57	50
Toluene	<7.4		13	7.4	ug/Kg		07/10/20 21:25	07/13/20 10:57	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		07/10/20 21:25	07/13/20 10:57	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		07/10/20 21:25	07/13/20 10:57	50
Xylenes, Total	<11		25	11	ug/Kg		07/10/20 21:25	07/13/20 10:57	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*	*07/10/20 21:25*	*07/13/20 10:57*	*50*
Dibromofluoromethane (Surr)	*91*		*75 - 120*	*07/10/20 21:25*	*07/13/20 10:57*	*50*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 126*	*07/10/20 21:25*	*07/13/20 10:57*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*07/10/20 21:25*	*07/13/20 10:57*	*50*

Lab Sample ID: 500-184614-8 MS
Matrix: Solid
Analysis Batch: 551788

Client Sample ID: SB07 0-2
Prep Type: Total/NA
Prep Batch: 551735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<9.4	H3	3210	3370		ug/Kg	☼	105	70 - 120
Ethylbenzene	<12	H3	3210	3260		ug/Kg	☼	102	70 - 123
Methyl tert-butyl ether	<25	H3	3210	3440		ug/Kg	☼	107	55 - 123
Naphthalene	<21	H3	3210	3900		ug/Kg	☼	122	53 - 144
Toluene	<9.4	H3	3210	3240		ug/Kg	☼	101	70 - 125
1,2,4-Trimethylbenzene	<23	H3	3210	3030		ug/Kg	☼	95	70 - 123
1,3,5-Trimethylbenzene	<24	H3	3210	3050		ug/Kg	☼	95	70 - 123
Xylenes, Total	<14	H3	6410	6480		ug/Kg	☼	101	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*
Dibromofluoromethane (Surr)	*105*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: 500-184614-8 MSD
Matrix: Solid
Analysis Batch: 551788

Client Sample ID: SB07 0-2
Prep Type: Total/NA
Prep Batch: 551735

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<9.4	H3	3210	3310		ug/Kg	☼	103	70 - 120	2	30
Ethylbenzene	<12	H3	3210	3200		ug/Kg	☼	100	70 - 123	2	30
Methyl tert-butyl ether	<25	H3	3210	3390		ug/Kg	☼	106	55 - 123	2	30
Naphthalene	<21	H3	3210	3390		ug/Kg	☼	106	53 - 144	14	30
Toluene	<9.4	H3	3210	3160		ug/Kg	☼	98	70 - 125	3	30
1,2,4-Trimethylbenzene	<23	H3	3210	3040		ug/Kg	☼	95	70 - 123	0	30
1,3,5-Trimethylbenzene	<24	H3	3210	3010		ug/Kg	☼	94	70 - 123	1	30
Xylenes, Total	<14	H3	6410	6360		ug/Kg	☼	99	70 - 125	2	30

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		72 - 124
Dibromofluoromethane (Surr)	109		75 - 120
1,2-Dichloroethane-d4 (Surr)	114		75 - 126
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: MB 500-551788/6
Matrix: Solid
Analysis Batch: 551788

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			07/13/20 11:55	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/13/20 11:55	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/13/20 11:55	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/13/20 11:55	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/13/20 11:55	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/13/20 11:55	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/13/20 11:55	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/13/20 11:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		72 - 124		07/13/20 11:55	1
Dibromofluoromethane (Surr)	109		75 - 120		07/13/20 11:55	1
1,2-Dichloroethane-d4 (Surr)	116		75 - 126		07/13/20 11:55	1
Toluene-d8 (Surr)	98		75 - 120		07/13/20 11:55	1

Lab Sample ID: LCS 500-551788/4
Matrix: Solid
Analysis Batch: 551788

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	51.2		ug/Kg		102	70 - 120
Ethylbenzene	50.0	48.6		ug/Kg		97	70 - 123
Methyl tert-butyl ether	50.0	51.9		ug/Kg		104	55 - 123
Naphthalene	50.0	46.9		ug/Kg		94	53 - 144
Toluene	50.0	49.9		ug/Kg		100	70 - 125
1,2,4-Trimethylbenzene	50.0	45.6		ug/Kg		91	70 - 123
1,3,5-Trimethylbenzene	50.0	46.1		ug/Kg		92	70 - 123
Xylenes, Total	100	98.0		ug/Kg		98	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		72 - 124
Dibromofluoromethane (Surr)	110		75 - 120
1,2-Dichloroethane-d4 (Surr)	115		75 - 126
Toluene-d8 (Surr)	100		75 - 120

Lab Sample ID: MB 500-551803/7
Matrix: Solid
Analysis Batch: 551803

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			07/13/20 10:32	1

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

Lab Sample ID: MB 500-551803/7
Matrix: Solid
Analysis Batch: 551803

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/13/20 10:32	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/13/20 10:32	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/13/20 10:32	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/13/20 10:32	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/13/20 10:32	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/13/20 10:32	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/13/20 10:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*		*07/13/20 10:32*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 120*		*07/13/20 10:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*07/13/20 10:32*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*07/13/20 10:32*	*1*

Lab Sample ID: LCS 500-551803/5
Matrix: Solid
Analysis Batch: 551803

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	43.5		ug/Kg		87	70 - 120
Ethylbenzene	50.0	48.2		ug/Kg		96	70 - 123
Methyl tert-butyl ether	50.0	36.5		ug/Kg		73	55 - 123
Naphthalene	50.0	38.8		ug/Kg		78	53 - 144
Toluene	50.0	42.8		ug/Kg		86	70 - 125
1,2,4-Trimethylbenzene	50.0	42.5		ug/Kg		85	70 - 123
1,3,5-Trimethylbenzene	50.0	43.7		ug/Kg		87	70 - 123
Xylenes, Total	100	86.0		ug/Kg		86	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*
Toluene-d8 (Surr)	*102*		*75 - 120*

Lab Sample ID: MB 500-552999/6
Matrix: Solid
Analysis Batch: 552999

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.0010	0.00050	mg/L			07/21/20 11:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*07/21/20 11:59*	*1*
Dibromofluoromethane (Surr)	*90*		*75 - 120*		*07/21/20 11:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*07/21/20 11:59*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*07/21/20 11:59*	*1*

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

Lab Sample ID: LCS 500-552999/4
Matrix: Solid
Analysis Batch: 552999

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.0452		mg/L		90	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*
Dibromofluoromethane (Surr)	*92*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 120*

Lab Sample ID: LB 500-552916/1-A
Matrix: Solid
Analysis Batch: 552999

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			07/21/20 12:27	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*07/21/20 12:27*	*20*
Dibromofluoromethane (Surr)	*87*		*75 - 120*		*07/21/20 12:27*	*20*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*07/21/20 12:27*	*20*
Toluene-d8 (Surr)	*96*		*75 - 120*		*07/21/20 12:27*	*20*

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-552398/2-A
Matrix: Solid
Analysis Batch: 552572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 552398

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			0.100	0.0972		mg/L		97	80 - 120		

Lab Sample ID: LB 500-552093/2-B
Matrix: Solid
Analysis Batch: 552572

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 552398

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L		07/16/20 05:52	07/16/20 19:52	1

Lab Sample ID: 500-184614-5 MS
Matrix: Solid
Analysis Batch: 552572

Client Sample ID: Composite 02
Prep Type: TCLP
Prep Batch: 552398

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	0.20		0.100	0.315		mg/L		116	75 - 125		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-184614-5 DU
Matrix: Solid
Analysis Batch: 552572

Client Sample ID: Composite 02
Prep Type: TCLP
Prep Batch: 552398

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	0.20			0.196		mg/L				2	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-551936/1-A
Matrix: Solid
Analysis Batch: 552101

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		07/13/20 17:48	07/14/20 11:13	1

Lab Sample ID: LCS 500-551936/2-A
Matrix: Solid
Analysis Batch: 552101

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551936

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			10.0	9.03		mg/Kg		90	80 - 120		

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 Ph 2.5 - 75828

Job ID: 500-184614-1

Client Sample ID: SB01 0-2
Date Collected: 06/18/20 08:30
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	551907	07/13/20 14:28	LWN	TAL CHI

Client Sample ID: SB01 0-2
Date Collected: 06/18/20 08:30
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-1
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			551936	07/13/20 17:48	BDE	TAL CHI
Total/NA	Analysis	6010C		1	552101	07/14/20 12:09	JEF	TAL CHI

Client Sample ID: SB02 2-4
Date Collected: 06/18/20 09:00
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	551907	07/13/20 14:28	LWN	TAL CHI

Client Sample ID: SB02 2-4
Date Collected: 06/18/20 09:00
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-2
Matrix: Solid
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			551936	07/13/20 17:48	BDE	TAL CHI
Total/NA	Analysis	6010C		1	552101	07/14/20 12:13	JEF	TAL CHI

Client Sample ID: SB03 2-4
Date Collected: 06/18/20 09:15
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	551907	07/13/20 14:28	LWN	TAL CHI

Client Sample ID: SB03 2-4
Date Collected: 06/18/20 09:15
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-3
Matrix: Solid
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			551936	07/13/20 17:48	BDE	TAL CHI
Total/NA	Analysis	6010C		1	552101	07/14/20 12:25	JEF	TAL CHI

Client Sample ID: SB04 2-4
Date Collected: 06/18/20 09:40
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	551907	07/13/20 14:28	LWN	TAL CHI

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 Ph 2.5 - 75828

Job ID: 500-184614-1

Client Sample ID: SB04 2-4
Date Collected: 06/18/20 09:40
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-4
Matrix: Solid
Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			551936	07/13/20 17:48	BDE	TAL CHI
Total/NA	Analysis	6010C		1	552101	07/14/20 12:29	JEF	TAL CHI

Client Sample ID: Composite 02
Date Collected: 06/18/20 12:00
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			552093	07/14/20 11:55	BEC	TAL CHI
TCLP	Prep	3010A			552398	07/16/20 05:52	LMN	TAL CHI
TCLP	Analysis	6010B		1	552572	07/16/20 20:16	EEN	TAL CHI

Client Sample ID: SB05 2-4
Date Collected: 06/18/20 10:30
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	551907	07/13/20 14:28	LWN	TAL CHI

Client Sample ID: SB05 2-4
Date Collected: 06/18/20 10:30
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-6
Matrix: Solid
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			551735	06/18/20 10:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	551788	07/13/20 13:55	JDD	TAL CHI

Client Sample ID: SB06 0-2
Date Collected: 06/18/20 10:45
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	551907	07/13/20 14:28	LWN	TAL CHI

Client Sample ID: SB06 0-2
Date Collected: 06/18/20 10:45
Date Received: 07/09/20 08:27

Lab Sample ID: 500-184614-7
Matrix: Solid
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			551735	06/18/20 10:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	551788	07/13/20 14:19	JDD	TAL CHI

Lab Chronicle

Client: Ramboll US Corporation
Project/Site: WisDOT STH 58 Ph 2.5 - 75828

Job ID: 500-184614-1

Client Sample ID: SB07 0-2
Lab Sample ID: 500-184614-8
Date Collected: 06/18/20 11:10
Matrix: Solid
Date Received: 07/09/20 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	551907	07/13/20 14:28	LWN	TAL CHI

Client Sample ID: SB07 0-2
Lab Sample ID: 500-184614-8
Date Collected: 06/18/20 11:10
Matrix: Solid
Date Received: 07/09/20 08:27
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			551735	06/18/20 11:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	551788	07/13/20 14:43	JDD	TAL CHI

Client Sample ID: SB06 2-4
Lab Sample ID: 500-184614-9
Date Collected: 06/18/20 10:45
Matrix: Solid
Date Received: 07/09/20 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			552916	07/20/20 12:57	BEC	TAL CHI
TCLP	Analysis	8260B		20	552999	07/21/20 15:13	JDD	TAL CHI

Client Sample ID: Trip Blank 02
Lab Sample ID: 500-184614-10
Date Collected: 07/08/20 00:00
Matrix: Solid
Date Received: 07/09/20 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	551907	07/13/20 14:28	LWN	TAL CHI

Client Sample ID: Trip Blank 02
Lab Sample ID: 500-184614-10
Date Collected: 07/08/20 00:00
Matrix: Solid
Date Received: 07/09/20 08:27
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			551735	07/08/20 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	551788	07/13/20 12:19	JDD	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Ramboll US Corporation
Job ID: 500-184614-1
Project/Site: WisDOT STH 58 Ph 2.5 - 75828

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

Samples dropped off at TA Brookfield

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Kyle Schaefer	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-82683-37749.2
Client Contact: Dan Vachon	Phone: 414-837-3610	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 1 of 1
Company: Ramboll US Corporation				Job #: 500-184614
Address: 234 W. Florida Street Fifth Floor	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Milwaukee	TAT Requested (days): Standard			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: WI, 53204	500-184614 COC			
Phone: 414-837-3687(Tel)	PO #: Purchase Order Requested			Other:
Email: Dan Vachon@ramboll.com / Mark.Walter@ramboll.com	WO #:			
Project Name: WisDOT STH 58 Ph 2.5 75628	Project #: 50017534			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil, Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C - Lead	8260B - PVOC+NAP	8260B - VOC	6010C, 7471B, 8082A	8270D - SVOC	WI_DRO - WI DRO	6010B, 7470A	TCLP Lead 1311/6010C	TCLP Benzene 1311/8260B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N		
1 SB01 0-2	6-18-20	0830	G	Solid			X										Low Sample volume
2 SB02 2-4		0900	G	Solid			X										
3 SB03 2-4		0915	G	Solid			X										
4 SB04 2-4		0940	G	Solid			X										
5 Composite 02		1200	C	Solid										X			
6 SB05 2-4		1030	G	Solid				X									
7 SB06 0-2		1045	G	Solid				X									
8 SB07 0-2		1110	G	Solid				X									
9 SB06 2-4		1045	G	Solid											X		
10 Trip Blank 02	7-8-20	-	-	-				X									

KJS 7-8-20

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ 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	Date/Time	Company	Received by	Date/Time	Company
Kyle Schaefer	7/8/20 1530	Ramboll		7-8-20 1530	TA
Relinquished by:	7-8-20 1700	TA	Received by	7/9/20 0930	TA-CHI
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.3

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Ramboll US Corporation

Job Number: 500-184614-1

Login Number: 184614
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, 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	1.3
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)	False	Refer to Job Narrative for details.
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	

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name City of Winona
2. Generator Mailing Address 207 Lafayette Steet, Winona, MN 55987
3. Facility Address (site of waste generation) 2024 Redevelopment of West Broadway Street
4. Generator City Winona
5. Generator State/Zip 55987
6. General Contact Person Brian DeFrang (City of Winona)
   Phone # and email 507.457.8269 bdefrang@winonamn.gov
7. Technical Contact Person Nick Stingl (Braun Intertec)
   Phone # and email 608.769.5044 nstingl@braunintertec.com

---

1. Name of Waste Petroleum-Impacted Soil
2. Process Generating Waste Spill to soil following striking of an orphan tank
3. Waste Color Brown
4. Waste Odor _____None petroleum Mild _____ Strong
5. Physical State solid None _____Liquid _____ Semi-Solid Other_____
6. Free Liquids _____Yes _____% zero No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A X
8. Flash Point (cc) _____ None _____<140F _____140-199F X >200
9. a. Waste Composition:

	Range
Petroleum-Impacted Soil	_____ to 100 %
	_____ to _____ %
	_____ to _____ %
	_____ to _____ %
	_____ to _____ %

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS		X	
Cyanide		X	
Sulfide		X	
Phenol		X	
Chlorinated Solvents		X	
Aromatic Solvents		X	

10. Analytical Laboratory _____
11. Date of Analysis _____

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck X Dump Truck
_____Roll-off _____Other _____

2. Waste Quantity/Units Unknown, estimate one to a few truck loads

☑ One-time Disposal
☐ On-going Disposal

Frequency _____

3. Hauler Name and Address Generation X Construction
Rushford, MN 55971

4. Bill to Name and Address Braun Intertec Corporation
2309 Palace Street
La Crosse, WI 54603

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	☒ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	☒ Yes	☐ No
5) Signature/Title Bryce Gerke / Department Technician		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

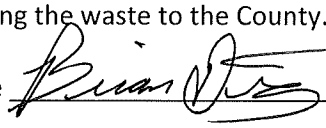
4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature 

10. Title Brian DeFrang

11. Name (Type or print) City Engineer

12. Date 7-26-2024

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Pharmacare LTD
2. Generator Mailing Address PO Box 53, Bloomer, WI 54724
3. Facility Address (site of waste generation) 36447 Main Street
4. Generator City Whitehall
5. Generator State/Zip Wisconsin 54773
6. General Contact Person Brandin Henke (Colby Pharmacy [which is Pharmacare])
   Phone # and email 715.507.5075 bhenke@pcarewi.com
7. Technical Contact Person Nick Stingl (Braun Intertec)
   Phone # and email 608.769.5044 nstingl@braunintertec.com

---

1. Name of Waste Fuel Oil Contaminated Soil
2. Process Generating Waste An unknown orphan fuel oil tank was struck during excavation work
3. Waste Color Brown
4. Waste Odor _____None Petroleum Mild _____ Strong
5. Physical State solid None _____Liquid _____ Semi-Solid Other_____
6. Free Liquids _____Yes _____% X No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0____ 10.1-12.5____ >12.5____ N/A X
8. Flash Point (cc) _____ None _____<140F _____140-199F X >200
9. a. Waste Composition:

	Range
Fuel Oil Contaminated Soil	_____ to 100 %
	_____ to _____ %
	_____ to _____ %
	_____ to _____ %
	_____ to _____ %

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	X	_____
Cyanide	____	X	_____
Sulfide	____	X	_____
Phenol	____	X	_____
Chlorinated Solvents	____	X	_____
Aromatic Solvents	____	X	_____

10. Analytical Laboratory See attached, Pace Analytical report #: 40282227
11. Date of Analysis 8-5-2024

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck __X__Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units Estimated 20 loads (~400 tons) at least, possibly more beneath this stockpile

   ☑ One-time Disposal
   ☐ On-going Disposal

   Frequency_____

3. Hauler Name and Address Durand Builders Service, Inc.
   N 6344 State Rd 25
   Durand, WI 54736

4. Bill to Name and Address Braun Intertec Corporation
   2309 Palace Street
   La Crosse, WI 54603

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	■ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	■ Yes	☐ No
5) Signature/Title John Warnecke / 8/16/24		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature _____

10. Title Owner/Manager

11. Name (Type or print) Brandin Henke

12. Date 08/13/2024

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

August 09, 2024

Nicholas Stingl
Braun Intertec Corporation
2309 Palace Street
La Crosse, WI 54603

RE: Project: Whitehall Tank B2407245
Pace Project No.: 40282227

Dear Nicholas Stingl:

Enclosed are the analytical results for sample(s) received by the laboratory on August 08, 2024. 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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

CERTIFICATIONS

Project: Whitehall Tank B2407245
Pace Project No.: 40282227

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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: Whitehall Tank B2407245
Pace Project No.: 40282227

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40282227001	**B1 (3.5')**	Solid	08/05/24 11:20	08/08/24 09:25
40282227002	**B2 (3.5')**	Solid	08/05/24 11:26	08/08/24 09:25
40282227003	**B3 (4.5')**	Solid	08/05/24 12:00	08/08/24 09:25
40282227004	**B4 (4.5')**	Solid	08/05/24 12:05	08/08/24 09:25
40282227005	**SP-1**	Solid	08/05/24 12:10	08/08/24 09:25
40282227006	**SP-2**	Solid	08/05/24 12:12	08/08/24 09:25
40282227007	**B4 (8')**	Solid	08/05/24 13:06	08/08/24 09:25
40282227008	**Trip Blank 1**	Solid	08/05/24 00:00	08/08/24 09:25

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: Whitehall Tank B2407245
Pace Project No.: 40282227

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40282227001	**B1 (3.5')**	EPA 8260	CXJ	13
		ASTM D2974-87	GRF	1
40282227002	**B2 (3.5')**	EPA 8260	CXJ	13
		ASTM D2974-87	GRF	1
40282227003	**B3 (4.5')**	EPA 8260	CXJ	13
		ASTM D2974-87	GRF	1
40282227004	**B4 (4.5')**	WI MOD DRO	CAH	1
		EPA 8260	CXJ	13
		ASTM D2974-87	GRF	1
40282227005	**SP-1**	WI MOD DRO	CAH	1
		EPA 8260	CXJ	13
		ASTM D2974-87	GRF	1
40282227006	**SP-2**	WI MOD DRO	CAH	1
		EPA 8260	CXJ	13
		ASTM D2974-87	GRF	1
40282227007	**B4 (8')**	EPA 8260	CXJ	13
		ASTM D2974-87	GRF	1
40282227008	**Trip Blank 1**	EPA 8260	CXJ	13

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: Whitehall Tank B2407245
Pace Project No.: 40282227

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40282227001	**B1 (3.5')**					
ASTM D2974-87	Percent Moisture	5.7	%	0.10	08/08/24 16:18	
40282227002	**B2 (3.5')**					
ASTM D2974-87	Percent Moisture	26.1	%	0.10	08/08/24 16:18	
40282227003	**B3 (4.5')**					
ASTM D2974-87	Percent Moisture	27.0	%	0.10	08/08/24 16:19	
40282227004	**B4 (4.5')**					
WI MOD DRO	Diesel Range Organics	17.4	mg/kg	4.1	08/09/24 09:48	DC,H3
EPA 8260	Naphthalene	458	ug/kg	388	08/09/24 14:38	
EPA 8260	1,2,4-Trimethylbenzene	155	ug/kg	77.6	08/09/24 14:38	
EPA 8260	1,3,5-Trimethylbenzene	99.4	ug/kg	77.6	08/09/24 14:38	
EPA 8260	Xylene (Total)	98.6J	ug/kg	233	08/09/24 14:38	
EPA 8260	m&p-Xylene	35.8J	ug/kg	155	08/09/24 14:38	
EPA 8260	o-Xylene	62.8J	ug/kg	77.6	08/09/24 14:38	
ASTM D2974-87	Percent Moisture	21.6	%	0.10	08/08/24 16:19	
40282227005	**SP-1**					
WI MOD DRO	Diesel Range Organics	1070	mg/kg	120	08/09/24 10:44	H3
EPA 8260	Ethylbenzene	272J	ug/kg	530	08/09/24 14:18	
EPA 8260	Naphthalene	8930	ug/kg	2650	08/09/24 14:18	
EPA 8260	1,2,4-Trimethylbenzene	3780	ug/kg	530	08/09/24 14:18	
EPA 8260	1,3,5-Trimethylbenzene	2450	ug/kg	530	08/09/24 14:18	
EPA 8260	Xylene (Total)	2220	ug/kg	1590	08/09/24 14:18	
EPA 8260	m&p-Xylene	649J	ug/kg	1060	08/09/24 14:18	
EPA 8260	o-Xylene	1570	ug/kg	530	08/09/24 14:18	
ASTM D2974-87	Percent Moisture	13.9	%	0.10	08/08/24 16:19	
40282227006	**SP-2**					
WI MOD DRO	Diesel Range Organics	8130	mg/kg	812	08/09/24 10:53	H3
EPA 8260	Benzene	27.5	ug/kg	26.5	08/09/24 11:41	
EPA 8260	Ethylbenzene	1730	ug/kg	66.3	08/09/24 11:41	
EPA 8260	Naphthalene	26600	ug/kg	1660	08/09/24 14:57	
EPA 8260	Toluene	813	ug/kg	66.3	08/09/24 11:41	
EPA 8260	1,2,4-Trimethylbenzene	16700	ug/kg	332	08/09/24 14:57	
EPA 8260	1,3,5-Trimethylbenzene	7110	ug/kg	66.3	08/09/24 11:41	
EPA 8260	Xylene (Total)	12300	ug/kg	199	08/09/24 11:41	
EPA 8260	m&p-Xylene	5620	ug/kg	133	08/09/24 11:41	
EPA 8260	o-Xylene	6680	ug/kg	66.3	08/09/24 11:41	
ASTM D2974-87	Percent Moisture	14.0	%	0.10	08/08/24 16:19	
40282227007	**B4 (8')**					
ASTM D2974-87	Percent Moisture	9.0	%	0.10	08/08/24 16:19	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Whitehall Tank B2407245
Pace Project No.: 40282227

Sample: B1 (3.5') **Lab ID: 40282227001** Collected: 08/05/24 11:20 Received: 08/08/24 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<13.3**	ug/kg	22.4	13.3	1	08/09/24 07:30	08/09/24 10:23	71-43-2	
Ethylbenzene	**<13.3**	ug/kg	56.1	13.3	1	08/09/24 07:30	08/09/24 10:23	100-41-4	
Methyl-tert-butyl ether	**<16.5**	ug/kg	56.1	16.5	1	08/09/24 07:30	08/09/24 10:23	1634-04-4	
Naphthalene	**<23.6**	ug/kg	280	23.6	1	08/09/24 07:30	08/09/24 10:23	91-20-3	
Toluene	**<14.1**	ug/kg	56.1	14.1	1	08/09/24 07:30	08/09/24 10:23	108-88-3	
1,2,4-Trimethylbenzene	**<16.7**	ug/kg	56.1	16.7	1	08/09/24 07:30	08/09/24 10:23	95-63-6	
1,3,5-Trimethylbenzene	**<18.1**	ug/kg	56.1	18.1	1	08/09/24 07:30	08/09/24 10:23	108-67-8	
Xylene (Total)	**<40.5**	ug/kg	168	40.5	1	08/09/24 07:30	08/09/24 10:23	1330-20-7	
m&p-Xylene	**<23.7**	ug/kg	112	23.7	1	08/09/24 07:30	08/09/24 10:23	179601-23-1	
o-Xylene	**<16.8**	ug/kg	56.1	16.8	1	08/09/24 07:30	08/09/24 10:23	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	121	%	67-144		1	08/09/24 07:30	08/09/24 10:23	2199-69-1	
4-Bromofluorobenzene (S)	115	%	72-142		1	08/09/24 07:30	08/09/24 10:23	460-00-4	
Toluene-d8 (S)	112	%	70-139		1	08/09/24 07:30	08/09/24 10:23	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.7**	%	0.10	0.10	1		08/08/24 16:18		

Sample: B2 (3.5') **Lab ID: 40282227002** Collected: 08/05/24 11:26 Received: 08/08/24 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<20.3**	ug/kg	34.1	20.3	1	08/09/24 07:30	08/09/24 10:43	71-43-2	
Ethylbenzene	**<20.3**	ug/kg	85.3	20.3	1	08/09/24 07:30	08/09/24 10:43	100-41-4	
Methyl-tert-butyl ether	**<25.1**	ug/kg	85.3	25.1	1	08/09/24 07:30	08/09/24 10:43	1634-04-4	
Naphthalene	**<35.9**	ug/kg	426	35.9	1	08/09/24 07:30	08/09/24 10:43	91-20-3	
Toluene	**<21.5**	ug/kg	85.3	21.5	1	08/09/24 07:30	08/09/24 10:43	108-88-3	
1,2,4-Trimethylbenzene	**<25.4**	ug/kg	85.3	25.4	1	08/09/24 07:30	08/09/24 10:43	95-63-6	
1,3,5-Trimethylbenzene	**<27.5**	ug/kg	85.3	27.5	1	08/09/24 07:30	08/09/24 10:43	108-67-8	
Xylene (Total)	**<61.6**	ug/kg	256	61.6	1	08/09/24 07:30	08/09/24 10:43	1330-20-7	
m&p-Xylene	**<36.0**	ug/kg	171	36.0	1	08/09/24 07:30	08/09/24 10:43	179601-23-1	
o-Xylene	**<25.6**	ug/kg	85.3	25.6	1	08/09/24 07:30	08/09/24 10:43	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	149	%	67-144		1	08/09/24 07:30	08/09/24 10:43	2199-69-1	S3
4-Bromofluorobenzene (S)	142	%	72-142		1	08/09/24 07:30	08/09/24 10:43	460-00-4	
Toluene-d8 (S)	142	%	70-139		1	08/09/24 07:30	08/09/24 10:43	2037-26-5	S3

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(920)469-2436

ANALYTICAL RESULTS

Project: Whitehall Tank B2407245
Pace Project No.: 40282227

Sample: B2 (3.5') **Lab ID: 40282227002** Collected: 08/05/24 11:26 Received: 08/08/24 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Green Bay								
Percent Moisture	**26.1**	%	0.10	0.10	1		08/08/24 16:18		

Sample: B3 (4.5') **Lab ID: 40282227003** Collected: 08/05/24 12:00 Received: 08/08/24 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
	Pace Analytical Services - Green Bay								
Benzene	**<20.7**	ug/kg	34.8	20.7	1	08/09/24 07:30	08/09/24 11:02	71-43-2	
Ethylbenzene	**<20.7**	ug/kg	86.9	20.7	1	08/09/24 07:30	08/09/24 11:02	100-41-4	
Methyl-tert-butyl ether	**<25.6**	ug/kg	86.9	25.6	1	08/09/24 07:30	08/09/24 11:02	1634-04-4	
Naphthalene	**<36.6**	ug/kg	435	36.6	1	08/09/24 07:30	08/09/24 11:02	91-20-3	
Toluene	**<21.9**	ug/kg	86.9	21.9	1	08/09/24 07:30	08/09/24 11:02	108-88-3	
1,2,4-Trimethylbenzene	**<25.9**	ug/kg	86.9	25.9	1	08/09/24 07:30	08/09/24 11:02	95-63-6	
1,3,5-Trimethylbenzene	**<28.0**	ug/kg	86.9	28.0	1	08/09/24 07:30	08/09/24 11:02	108-67-8	
Xylene (Total)	**<62.8**	ug/kg	261	62.8	1	08/09/24 07:30	08/09/24 11:02	1330-20-7	
m&p-Xylene	**<36.7**	ug/kg	174	36.7	1	08/09/24 07:30	08/09/24 11:02	179601-23-1	
o-Xylene	**<26.1**	ug/kg	86.9	26.1	1	08/09/24 07:30	08/09/24 11:02	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	143	%	67-144		1	08/09/24 07:30	08/09/24 11:02	2199-69-1	
4-Bromofluorobenzene (S)	146	%	72-142		1	08/09/24 07:30	08/09/24 11:02	460-00-4	S3
Toluene-d8 (S)	133	%	70-139		1	08/09/24 07:30	08/09/24 11:02	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Green Bay								
Percent Moisture	**27.0**	%	0.10	0.10	1		08/08/24 16:19		

Sample: B4 (4.5') **Lab ID: 40282227004** Collected: 08/05/24 12:05 Received: 08/08/24 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
	Pace Analytical Services - Green Bay								
Diesel Range Organics	**17.4**	mg/kg	4.1	1.2	1	08/08/24 09:13	08/09/24 09:48		DC,H3
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
	Pace Analytical Services - Green Bay								
Benzene	**<18.5**	ug/kg	31.0	18.5	1	08/09/24 07:30	08/09/24 14:38	71-43-2	
Ethylbenzene	**<18.5**	ug/kg	77.6	18.5	1	08/09/24 07:30	08/09/24 14:38	100-41-4	

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ANALYTICAL RESULTS

Project: Whitehall Tank B2407245
Pace Project No.: 40282227

Sample: B4 (4.5') **Lab ID: 40282227004** Collected: 08/05/24 12:05 Received: 08/08/24 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Methyl-tert-butyl ether	**<22.8**	ug/kg	77.6	22.8	1	08/09/24 07:30	08/09/24 14:38	1634-04-4	
Naphthalene	**458**	ug/kg	388	32.6	1	08/09/24 07:30	08/09/24 14:38	91-20-3	
Toluene	**<19.6**	ug/kg	77.6	19.6	1	08/09/24 07:30	08/09/24 14:38	108-88-3	
1,2,4-Trimethylbenzene	**155**	ug/kg	77.6	23.1	1	08/09/24 07:30	08/09/24 14:38	95-63-6	
1,3,5-Trimethylbenzene	**99.4**	ug/kg	77.6	25.0	1	08/09/24 07:30	08/09/24 14:38	108-67-8	
Xylene (Total)	**98.6J**	ug/kg	233	56.0	1	08/09/24 07:30	08/09/24 14:38	1330-20-7	
m&p-Xylene	**35.8J**	ug/kg	155	32.7	1	08/09/24 07:30	08/09/24 14:38	179601-23-1	
o-Xylene	**62.8J**	ug/kg	77.6	23.3	1	08/09/24 07:30	08/09/24 14:38	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	132	%	67-144		1	08/09/24 07:30	08/09/24 14:38	2199-69-1	
4-Bromofluorobenzene (S)	130	%	72-142		1	08/09/24 07:30	08/09/24 14:38	460-00-4	
Toluene-d8 (S)	131	%	70-139		1	08/09/24 07:30	08/09/24 14:38	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**21.6**	%	0.10	0.10	1		08/08/24 16:19		

Sample: SP-1 **Lab ID: 40282227005** Collected: 08/05/24 12:10 Received: 08/08/24 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Green Bay								
Diesel Range Organics	**1070**	mg/kg	120	35.8	30	08/08/24 09:13	08/09/24 10:44		H3
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<126**	ug/kg	212	126	8	08/09/24 07:30	08/09/24 14:18	71-43-2	
Ethylbenzene	**272J**	ug/kg	530	126	8	08/09/24 07:30	08/09/24 14:18	100-41-4	
Methyl-tert-butyl ether	**<156**	ug/kg	530	156	8	08/09/24 07:30	08/09/24 14:18	1634-04-4	
Naphthalene	**8930**	ug/kg	2650	223	8	08/09/24 07:30	08/09/24 14:18	91-20-3	
Toluene	**<133**	ug/kg	530	133	8	08/09/24 07:30	08/09/24 14:18	108-88-3	
1,2,4-Trimethylbenzene	**3780**	ug/kg	530	158	8	08/09/24 07:30	08/09/24 14:18	95-63-6	
1,3,5-Trimethylbenzene	**2450**	ug/kg	530	171	8	08/09/24 07:30	08/09/24 14:18	108-67-8	
Xylene (Total)	**2220**	ug/kg	1590	382	8	08/09/24 07:30	08/09/24 14:18	1330-20-7	
m&p-Xylene	**649J**	ug/kg	1060	224	8	08/09/24 07:30	08/09/24 14:18	179601-23-1	
o-Xylene	**1570**	ug/kg	530	159	8	08/09/24 07:30	08/09/24 14:18	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	149	%	67-144		8	08/09/24 07:30	08/09/24 14:18	2199-69-1	D3,S1
4-Bromofluorobenzene (S)	127	%	72-142		8	08/09/24 07:30	08/09/24 14:18	460-00-4	
Toluene-d8 (S)	134	%	70-139		8	08/09/24 07:30	08/09/24 14:18	2037-26-5	

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ANALYTICAL RESULTS

Project: Whitehall Tank B2407245
Pace Project No.: 40282227

Sample: SP-1 **Lab ID: 40282227005** Collected: 08/05/24 12:10 Received: 08/08/24 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Green Bay								
Percent Moisture	**13.9**	%	0.10	0.10	1		08/08/24 16:19		

Sample: SP-2 **Lab ID: 40282227006** Collected: 08/05/24 12:12 Received: 08/08/24 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
	Pace Analytical Services - Green Bay								
Diesel Range Organics	**8130**	mg/kg	812	243	200	08/08/24 09:13	08/09/24 10:53		H3
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
	Pace Analytical Services - Green Bay								
Benzene	**27.5**	ug/kg	26.5	15.8	1	08/09/24 07:30	08/09/24 11:41	71-43-2	
Ethylbenzene	**1730**	ug/kg	66.3	15.8	1	08/09/24 07:30	08/09/24 11:41	100-41-4	
Methyl-tert-butyl ether	**<19.5**	ug/kg	66.3	19.5	1	08/09/24 07:30	08/09/24 11:41	1634-04-4	
Naphthalene	**26600**	ug/kg	1660	139	5	08/09/24 07:30	08/09/24 14:57	91-20-3	
Toluene	**813**	ug/kg	66.3	16.7	1	08/09/24 07:30	08/09/24 11:41	108-88-3	
1,2,4-Trimethylbenzene	**16700**	ug/kg	332	98.8	5	08/09/24 07:30	08/09/24 14:57	95-63-6	
1,3,5-Trimethylbenzene	**7110**	ug/kg	66.3	21.3	1	08/09/24 07:30	08/09/24 11:41	108-67-8	
Xylene (Total)	**12300**	ug/kg	199	47.9	1	08/09/24 07:30	08/09/24 11:41	1330-20-7	
m&p-Xylene	**5620**	ug/kg	133	28.0	1	08/09/24 07:30	08/09/24 11:41	179601-23-1	
o-Xylene	**6680**	ug/kg	66.3	19.9	1	08/09/24 07:30	08/09/24 11:41	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	135	%	67-144		1	08/09/24 07:30	08/09/24 11:41	2199-69-1	
4-Bromofluorobenzene (S)	117	%	72-142		1	08/09/24 07:30	08/09/24 11:41	460-00-4	
Toluene-d8 (S)	127	%	70-139		1	08/09/24 07:30	08/09/24 11:41	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Green Bay								
Percent Moisture	**14.0**	%	0.10	0.10	1		08/08/24 16:19		

Sample: B4 (8') **Lab ID: 40282227007** Collected: 08/05/24 13:06 Received: 08/08/24 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
	Pace Analytical Services - Green Bay								
Benzene	**<14.3**	ug/kg	24.0	14.3	1	08/09/24 07:30	08/09/24 11:22	71-43-2	
Ethylbenzene	**<14.3**	ug/kg	59.9	14.3	1	08/09/24 07:30	08/09/24 11:22	100-41-4	

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ANALYTICAL RESULTS

Project: Whitehall Tank B2407245
Pace Project No.: 40282227

Sample: B4 (8') **Lab ID: 40282227007** Collected: 08/05/24 13:06 Received: 08/08/24 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Methyl-tert-butyl ether	**<17.6**	ug/kg	59.9	17.6	1	08/09/24 07:30	08/09/24 11:22	1634-04-4	
Naphthalene	**<25.2**	ug/kg	300	25.2	1	08/09/24 07:30	08/09/24 11:22	91-20-3	
Toluene	**<15.1**	ug/kg	59.9	15.1	1	08/09/24 07:30	08/09/24 11:22	108-88-3	
1,2,4-Trimethylbenzene	**<17.9**	ug/kg	59.9	17.9	1	08/09/24 07:30	08/09/24 11:22	95-63-6	
1,3,5-Trimethylbenzene	**<19.3**	ug/kg	59.9	19.3	1	08/09/24 07:30	08/09/24 11:22	108-67-8	
Xylene (Total)	**<43.3**	ug/kg	180	43.3	1	08/09/24 07:30	08/09/24 11:22	1330-20-7	
m&p-Xylene	**<25.3**	ug/kg	120	25.3	1	08/09/24 07:30	08/09/24 11:22	179601-23-1	
o-Xylene	**<18.0**	ug/kg	59.9	18.0	1	08/09/24 07:30	08/09/24 11:22	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	122	%	67-144		1	08/09/24 07:30	08/09/24 11:22	2199-69-1	
4-Bromofluorobenzene (S)	122	%	72-142		1	08/09/24 07:30	08/09/24 11:22	460-00-4	
Toluene-d8 (S)	121	%	70-139		1	08/09/24 07:30	08/09/24 11:22	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**9.0**	%	0.10	0.10	1		08/08/24 16:19		

Sample: Trip Blank 1 **Lab ID: 40282227008** Collected: 08/05/24 00:00 Received: 08/08/24 09:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<11.9**	ug/kg	20.0	11.9	1	08/09/24 07:30	08/09/24 10:04	71-43-2	
Ethylbenzene	**<11.9**	ug/kg	50.0	11.9	1	08/09/24 07:30	08/09/24 10:04	100-41-4	
Methyl-tert-butyl ether	**<14.7**	ug/kg	50.0	14.7	1	08/09/24 07:30	08/09/24 10:04	1634-04-4	
Naphthalene	**<21.0**	ug/kg	250	21.0	1	08/09/24 07:30	08/09/24 10:04	91-20-3	
Toluene	**<12.6**	ug/kg	50.0	12.6	1	08/09/24 07:30	08/09/24 10:04	108-88-3	
1,2,4-Trimethylbenzene	**<14.9**	ug/kg	50.0	14.9	1	08/09/24 07:30	08/09/24 10:04	95-63-6	
1,3,5-Trimethylbenzene	**<16.1**	ug/kg	50.0	16.1	1	08/09/24 07:30	08/09/24 10:04	108-67-8	
Xylene (Total)	**<36.1**	ug/kg	150	36.1	1	08/09/24 07:30	08/09/24 10:04	1330-20-7	
m&p-Xylene	**<21.1**	ug/kg	100	21.1	1	08/09/24 07:30	08/09/24 10:04	179601-23-1	
o-Xylene	**<15.0**	ug/kg	50.0	15.0	1	08/09/24 07:30	08/09/24 10:04	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	110	%	67-144		1	08/09/24 07:30	08/09/24 10:04	2199-69-1	
4-Bromofluorobenzene (S)	102	%	72-142		1	08/09/24 07:30	08/09/24 10:04	460-00-4	
Toluene-d8 (S)	103	%	70-139		1	08/09/24 07:30	08/09/24 10:04	2037-26-5	

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QUALITY CONTROL DATA

Project: Whitehall Tank B2407245
Pace Project No.: 40282227

QC Batch: 481582
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Short List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40282227001, 40282227002, 40282227003, 40282227004, 40282227005, 40282227006, 40282227007, 40282227008

METHOD BLANK: 2757853 Matrix: Solid
Associated Lab Samples: 40282227001, 40282227002, 40282227003, 40282227004, 40282227005, 40282227006, 40282227007, 40282227008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<14.9	50.0	08/09/24 08:20	
1,3,5-Trimethylbenzene	ug/kg	<16.1	50.0	08/09/24 08:20	
Benzene	ug/kg	<11.9	20.0	08/09/24 08:20	
Ethylbenzene	ug/kg	<11.9	50.0	08/09/24 08:20	
m&p-Xylene	ug/kg	<21.1	100	08/09/24 08:20	
Methyl-tert-butyl ether	ug/kg	<14.7	50.0	08/09/24 08:20	
Naphthalene	ug/kg	<21.0	250	08/09/24 08:20	
o-Xylene	ug/kg	<15.0	50.0	08/09/24 08:20	
Toluene	ug/kg	<12.6	50.0	08/09/24 08:20	
Xylene (Total)	ug/kg	<36.1	150	08/09/24 08:20	
1,2-Dichlorobenzene-d4 (S)	%	104	67-144	08/09/24 08:20	
4-Bromofluorobenzene (S)	%	100	72-142	08/09/24 08:20	
Toluene-d8 (S)	%	98	70-139	08/09/24 08:20	

LABORATORY CONTROL SAMPLE: 2757854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	2500	2560	102	70-130	
Ethylbenzene	ug/kg	2500	2620	105	80-120	
m&p-Xylene	ug/kg	5000	5170	103	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2680	107	70-130	
o-Xylene	ug/kg	2500	2580	103	70-130	
Toluene	ug/kg	2500	2500	100	80-120	
Xylene (Total)	ug/kg	7500	7740	103	70-130	
1,2-Dichlorobenzene-d4 (S)	%			111	67-144	
4-Bromofluorobenzene (S)	%			113	72-142	
Toluene-d8 (S)	%			107	70-139	

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

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

QUALITY CONTROL DATA

Project: Whitehall Tank B2407245
Pace Project No.: 40282227

QC Batch: 481439
QC Batch Method: WI MOD DRO
Analysis Method: WI MOD DRO
Analysis Description: WIDRO GCS
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40282227004, 40282227005, 40282227006

METHOD BLANK: 2756947 Matrix: Solid
Associated Lab Samples: 40282227004, 40282227005, 40282227006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<1.3	4.3	08/09/24 08:26	

LABORATORY CONTROL SAMPLE & LCSD: 2756948 2756949

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	39.9	28.8	33.0	72	82	70-120	13	20	

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(920)469-2436

QUALITY CONTROL DATA

Project: Whitehall Tank B2407245
Pace Project No.: 40282227

QC Batch: 481559
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40282227001, 40282227002, 40282227003, 40282227004, 40282227005, 40282227006, 40282227007

SAMPLE DUPLICATE: 2757670

Parameter	Units	40282213001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.7	6.8	1	10	

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Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: Whitehall Tank B2407245
Pace Project No.: 40282227

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
DC	Chromatographic pattern inconsistent with typical Diesel Fuel.
H3	Sample was received or analysis requested beyond the recognized method holding time.
S1	Surrogate recovery outside laboratory control limits (confirmed by re-analysis).
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Whitehall Tank B2407245
Pace Project No.: 40282227

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40282227004	**B4 (4.5')**	WI MOD DRO	481439	WI MOD DRO	481528
40282227005	**SP-1**	WI MOD DRO	481439	WI MOD DRO	481528
40282227006	**SP-2**	WI MOD DRO	481439	WI MOD DRO	481528
40282227001	**B1 (3.5')**	EPA 5035/5030B	481582	EPA 8260	481589
40282227002	**B2 (3.5')**	EPA 5035/5030B	481582	EPA 8260	481589
40282227003	**B3 (4.5')**	EPA 5035/5030B	481582	EPA 8260	481589
40282227004	**B4 (4.5')**	EPA 5035/5030B	481582	EPA 8260	481589
40282227005	**SP-1**	EPA 5035/5030B	481582	EPA 8260	481589
40282227006	**SP-2**	EPA 5035/5030B	481582	EPA 8260	481589
40282227007	**B4 (8')**	EPA 5035/5030B	481582	EPA 8260	481589
40282227008	**Trip Blank 1**	EPA 5035/5030B	481582	EPA 8260	481589
40282227001	**B1 (3.5')**	ASTM D2974-87	481559		
40282227002	**B2 (3.5')**	ASTM D2974-87	481559		
40282227003	**B3 (4.5')**	ASTM D2974-87	481559		
40282227004	**B4 (4.5')**	ASTM D2974-87	481559		
40282227005	**SP-1**	ASTM D2974-87	481559		
40282227006	**SP-2**	ASTM D2974-87	481559		
40282227007	**B4 (8')**	ASTM D2974-87	481559		

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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: 40282227

ALL SHADED AREAS are for LAB USE ONLY

Company: Brown Intertec	Billing Information: Brown Intertec
Address: 2309 Palace Street LaCrosse, WI 54603	
Report To: Nick Stingl	Email To:
Copy To:	Site Collection Info/Address: Whitehall
Customer Project Name/Number: Whitehall Tank B2407245	State: WI / County/City: Trempealeau / Time Zone Collected: [ ] PT [ ] MT [✓] CT [ ] ET
Phone: 608 781 7277 Email: nstingl@brownintertec.com	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Nick Stingl	Purchase Order #: B2407245 Quote #: / DW PWS ID #: DW Location Code:
Collected By (signature): Nick Stingl	Turnaround Date Required: RUSH / Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ____ [✓] Hold: yous std	Rush: Monday 8-12-2024 [ ] Same Day [✓] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No Analysis: ____

Container Preservative Type **: 6 U

** 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 ____

Lab Project Manager:

Lab Profile/Line: 35139

* 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: PVOC + naphthalene	Analyses: ARO	Lab Sample # / Comments
B1 (3.5')	SL	G	8-5-24	11:20				3	X		001
B2 (3.5')				11:26				3	X		002
B3 (4.5')				12:00				3	X		003
B4 (4.5')				12:05				4	X	X	004
SP-1				12:10				4	X	X	005
SP-2				12:12				4	X	X	006
B4 (8')				13:06				3	X		007
Trip Blank 1								1	X		008

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: RUSH TAT

Type of Ice Used: Wet Blue Dry None

Packing Material Used: (1)

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

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

Lab Tracking #: 2870873

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: ____ oC
Cooler 1 Therm Corr. Factor: ____ oC
Cooler 1 Corrected Temp: ____ oC
Comments: (1)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Nick Stingl	8-7-2024		
Fedex	8/8/24 0925		8/8/24 0925

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: Braun Intertec Project # 40282227

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

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

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001																		2					1										2.5 / 5
002																		2					1										2.5 / 5
003																		2					1										2.5 / 5
004																		2				1	1										2.5 / 5
005																		2				1	1										2.5 / 5
006																		2				1	1										2.5 / 5
007																		2					1										2.5 / 5
008																		1															2.5 / 5
009																																	2.5 / 5
010																																	2.5 / 5
011																																	2.5 / 5
012																																	2.5 / 5
013																																	2.5 / 5
014																																	2.5 / 5
015																																	2.5 / 5
016																																	2.5 / 5
017																																	2.5 / 5
018																																	2.5 / 5
019																																	2.5 / 5
020																																	2.5 / 5

mH 8/5/24

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
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
BP2Z	500 mL plastic NaOH + Zn

VG9C	40 mL clear ascorbic w/ HCl
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 1	
GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40282227

40282227

Client Name: Braun Intertec

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

Tracking #: 5092 4935 8023

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 - 120 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 1.0 /Corr: 1.0

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

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

Person examining contents:
Date: 8/8/24 /Initials: mH

Labeled By Initials: SKW

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
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.
- DI 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.
Correct Type: Pace Green Bay, Pace IR, Non-Pace		
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: S	☑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 logi

Page 2 of 2

BRAUN INTERTEC
The Science You Build On.

200 Sieve Loss By Washing

ASTM D1140

Report Date: 08/13/2024

2309 Palace Street
La Crosse, WI 54603
Phone: 608-781-7277

Client:

Durand Builders Service, Inc.
PO Box 10
N 6344 State Rd 25
Durand, WI 54736

Project:

B2407245
Proposed Colby Pharmacy
36447 Main Street
Whitehall, WI 54773

Sample Information

Sample Number:	608909	**Depth (ft):**	4.5
Sampling Method:	Not Provided	**Sampled By:**	Stingl, Nicholas
Boring Number:	B-4		
Location:	In-place		
Location Details:	Landfill sample at Boring B-4, 4 1/2 feet.		
Sample Date:	08/05/2024		
Received Date:	08/12/2024	**Lab:**	2309 Palace Street, La Crosse, WI
Tested Date:	08/13/2024	**Tested By:**	Felker, Timothy

Laboratory Data

Loss By Washing (%):	26**	**Specified:**	0 - 15
Maximum Particle Size:	75 mm (3 inch) to 4.75 mm (No. 4)	**Method Used:**	Method A Soak In Water
		Soaking Time (min):	20

Soil Classification: SM Silty sand

General

Results: **Fail - The above test results do not meet the referenced specifications.

Timothy Felker 08/13/2024

Uncertainty was not taken into account in determining whether the test results meet the requirements. The results included in this report relate only to the items inspected or tested. Sampled per project specifications or industry standards. Also, this report is for the exclusive use of the addressed parties. We assume no responsibility to other parties regarding this report. The information indicated in this report shall not be reproduced, except in full, without prior written approval.

La Crosse County Landfill
Application for Special Waste Disposal

PART A: WASTE GENERATOR INFORMATION

1. Generator Name Mathy Construction
2. Generator Mailing Address 920 10th Avenue North, Onalaska, WI 54650
3. Facility Address (site of waste generation) 2601 Conoco Road
4. Generator City La Crosse
5. Generator State/Zip WI 54601
6. General Contact Person Jake Budish
   Phone # and email 608-779-6689 jake.budish@mathy.com
7. Technical Contact Person Same as above
   Phone # and email _____

---

1. Name of Waste Diesel contaminated aggregate (~40 gallons of diesel spilled onto 64.5 tons)
2. Process Generating Waste Spill from fueling
3. Waste Color _____
4. Waste Odor X None X Mild _____ Strong
5. Physical State _____None _____Liquid _____ Semi-Solid Other Aggregate
6. Free Liquids _____Yes _____% X No
7. pH____ <2____ 2-4.0____ 4.1-7.0____ 7.1-10.0X___ 10.1-12.5____ >12.5____ N/A____
8. Flash Point (cc) X None _____<140F _____140-199F _____>200
9. a. Waste Composition:

	Range
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%
_____	_____ to _____%

b. Does Waste Contain

	Yes	No	Do Not Know
PCBS	____	____	X
Cyanide	____	____	X
Sulfide	____	____	X
Phenol	____	____	X
Chlorinated Solvents	____	____	X
Aromatic Solvents	____	____	X

10. Analytical Laboratory _____
11. Date of Analysis _____

PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No
Vehicle types _____

PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck X____Dump Truck
   _____Roll-off _____Other _____

2. Waste Quantity/Units 64.5 tons

   ☑ One-time Disposal
   ☐ On-going Disposal

   Frequency_____

3. Hauler Name and Address Mathy Construction
   920 10th Avenue North
   Onalaska, WI 54650

4. Bill to Name and Address Mathy Construction: Attn - Jake Budish
   920 10th Avenue North
   Onalaska, WI 54650

To be Completed by La Crosse County Solid Waste

Waste Acceptance/Rejection		
1) Does waste meet requirements of the current Plan of Operations?	■ Yes	☐ No
2) Is waste acceptable upon approval by WDNR?	☐ Yes	☐ No
3) Plan of Operations Approval Required? (Attach copy if yes)	☐ Yes	☐ No
4) Waste accepted for disposal?	■ Yes	☐ No
5) Signature/Title John Warnecke / 10/7/24		

PART D: GENERATOR CERTIFICATION

By signing this application, the generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulations.

2. This waste ☐ does ☑ does not contain regulated radioactive materials and ☐ does ☑ does not contain regulated concentrations of PCBs (polychlorinated biphenyls). If "does" is checked, specify level here _____.

3. This waste does not contain regulated infectious waste as defined by NR526.05 Wisconsin Administrative Code.

4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

5. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1, 2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichlorethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentration of the individual compounds exceed 1% or 10,000 ppm on a weights to weight basis.

6. This sheet and the attachments contain true and accurate description of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.

7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 © or equivalent rules.

8. If any changes occur in the character of the waste, the Generator shall notify the County prior to providing the waste to the County.

9. Signature Jake Budish _____

10. Title Environmental Specialist _____

11. Name (Type or print) Jake Budish _____

12. Date 9/27/2024 _____

H-3 – Annual Shingle Report

10.3 Asphalt Shingle Management

1.1 Summary of Tonnages of Recycled Asphalt Shingles and Shingles Received

A total of 4,313.71 of recycled asphalt shingles were received in 2024.

1.2 Tabulate the Location and Amount of Shingles Used by Individual Paving Project

For 2024, 6,256.12 tons of processed shingles were sent out for incorporation into hot mix asphalt or aggregate. Processed shingles also included asphalt shingles accepted and processed in 2024. The material was received by Mathy Construction and incorporated into aggregate material at two separate locations shown below. Unprocessed shingles received in 2024 will be processed in 2025.

Milestone Materials Swanson Pit
Milestone Materials Isle La Plume

1.3 Describe the Asbestos Testing Program

Samples were collected monthly by operations staff at the La Crosse County landfill. Samples taken were based off of tonnage subtotals, at the rate of one sample per one hundred tons. Periodically, samples were prepared and shipped by the landfill scale attendant to Micro Analytical Incorporated for asbestos testing. The bulk asbestos analytical report and testing was prepared utilizing PLM and dispersion stain technique.

1.4 Summarized Test Results of Ground Recycled Asphalt Shingles

Shingle Site Samples Sent 2024

DATE	# OF LOADS	TONS	TOTAL SAMPLES REQUIRED	TOTAL SAMPLES SENT	TOTAL SAMPLES NON-ASBESTOS	TOTAL SAMPLES W/ASBESTOS
January	4	7.74	0	0	0	0
February	25	78.16	0	0	0	0
March	44	154.16	1	1	1	0
April	168	635.25	7	7	7	0
May	223	766.53	8	8	8	0
June	140	440.03	5	5	5	0
July	131	393.91	4	4	4	0
August	154	492.96	5	5	5	0
September	143	441.49	5	5	5	0
October	191	603.25	7	7	7	0
November	88	257.27	3	3	3	0
December	18	42.96	0	0	0	0
TOTALS	**1329**	**4313.71**	**45**	**45**	**45**	0

1.5 Discuss the Positive Aspects of the Program

In 2019, La Crosse County received approval to incorporate processed RAS into aggregate materials. Processed shingles will be used as an unbonded base course material for driveways, roads, parking lots and general fill applications when mixed with native aggregates or recycled concrete and/or bituminous if the mixture contains less than 15% by weight of RAS. The purpose of the RAS is to provide a fines replacement in the aggregate base course. This application will provide an additional technical and economically feasible option for RAS material.

The two most significant beneficial aspects of the residential asphalt shingle recycling program have been to minimize materials placed in the landfill and to provide a product that has been incorporated into hot mix or substituted for gravel road sub-base. Since the shingles weigh approximately one ton per yard after processing, approximately 4,313 cubic yards of air space use will be avoided. The use of the ground shingles as a substitute for road base has minimized fuel consumption associated with the transport of materials from quarries and resulted in a product that produces less dust, less tracking of mud on roads and saved the County significant costs. Some additional benefits of the recycling program have been increased public acceptance of waste diversion concepts and the reduced cost to customers. Shingles suitable for recycling are charged at a rate of $41/ton in 2024.

In January of 2013, the La Crosse County Solid Waste Department requested and was granted approval by the WDNR West Central Region, for the storage of preprocessed and post processed shingles of up to 15,000 tons, with a maximum windrow height of 20 feet.