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

# 2025 Annual Report

LA CROSSE COUNTY
Exceptional services. Extraordinary place.

Solid Waste Department

March 1st, 2026

RE:
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 2025 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 This report also addresses inspection and reporting requirements outlined in previous approvals, that have not been rescinded, or formally referenced in the May 24, 2023 POO approval.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 2025 Annual Compliance Certification was submitted to the WDNR on February 5th 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
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LA CROSSE COUNTY
Exceptional services. Extraordinary place.

# Solid Waste Department

February 5th, 2026

RE: La Crosse County Solid Waste Department
2025 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 2024. 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

608-785-9572 Phone
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# La Crosse County Landfill Complex and Disposal Facility, La Crosse, Wisconsin

## 2025 Annual 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 2025 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 2025 due to windspeed.

## 3.3 Off-Site Debris Collection

Dates when the landfill collected debris off-site.

**Response**: In 2025, 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 2025 totals 3,147.31 tons of material equating out to 2.40% percent of total waste volumes. Sludge average daily mixing ratio equals 505.33 tons of waste with 12.105 tons of sludge or a 41.75:1 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 7.35:1 or 13.61 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 2025 was 111,311.56 tons. The total amount of ADC (by weight) used in 2025 was 14,750.50 CY. Therefore, the waste to ADC ratio was approximately 10.73:1 or 9.32 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 2025 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 2025.

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

Rejected Wastes: No wastes were rejected during 2025.

Deviations from Acceptance Criteria: There were no deviations from acceptance criteria in 2025.

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 2025 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 2025.

## 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 2025 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 75.47% of the annual landfill gas processed at the site. Additionally, this site operates and maintains a John Zink bio-gas flare skid as a back-up unit. Overall gas collection volume 98,244,145 scf of landfill gas being collected with an average methane content of 44.16 percent in 2025.

Gas wells performed as designed with only minor preventative maintenance being performed in 2025. Maintenance included inspections, tightening of hose clamps, temperature gauge replacements and the replacement of four Accu-flow well heads. 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 2025.

A request for the abandonment of horizontal STOC 4, STOC 5 and STOC 6 along with vertical STOC 7 was submitted to the WDNR on June 26th, 2025. Written concurrence for abandonment,

was provided by the WDNR at 12:56 PM on June 26th, 2025. Wells were subsequently abandoned utilizing decommissioning procedures identified within the written request.

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 (6,979 hours) with a projected capture rate of 0.458 gallons per hour it is estimated that the facility produced 3,196.38 gallons of gas condensate. Analytical results from gas condensate testing results are summarized below.

| LFG Condensate (WDNR Point ID. 454) | |
|---|---|
| **May 2025 Detection Summary** | **November 2025 Detection Summary** |
| Sodium 0.88 mg/L | Total Suspended Solids 3.6 mg/L |
| Total Hardness by 2340B 4.1J mg/L | BOD, 5 day 106 mg/L |
| Total Suspended Solids 740 mg/L | Sulfate 3.1 mg/L |
| BOD, 5 day 165 mg/L | Alkalinity, Total as CaCO3 88.4 mg/L |
| Chloride 1.5J mg/L | Nitrogen, Ammonia 21.5 mg/L |
| Sulfate 17.0 mg/L | |
| Alkalinity, Total as CaCO3 499 mg/L | |
| Nitrogen, Ammonia 140 mg/L | |
| Chemical Oxygen Demand 845 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 2025.

| Month (2025) | SCF to Flare | SCF to Pipeline | Combined SCF | % Flow Time to Engine |
|---|---|---|---|---|
| **January** | 143,801 | 6,432,179 | 6,575,980 | 61.44% |
| **February** | 424,527 | 976,700 | 1,401,227 | 10.69% |
| **March** | 105,600 | 7,575,154 | 7,680,754 | 78.94% |
| **April** | 59,995 | 9,665,178 | 9,725,173 | 92.32% |
| **May** | 884 | 11,272,601 | 11,273,485 | 98.90% |
| **June** | 153,403 | 9,886,720 | 10,040,123 | 91.19% |
| **July** | 130,059 | 8,527,064 | 8,657,123 | 85.22% |
| **August** | 1,818 | 10,440,748 | 10,442,566 | 98.64% |
| **September** | 3,247 | 9,244,011 | 9,247,258 | 86.51% |

| Month (2025) | SCF to Flare | SCF to Pipeline | Combined SCF | % Flow Time to Engine |
|---|---|---|---|---|
| **October** | 28,910 | 4,936,228 | 4,965,138 | 50.69% |
| **November** | 475,200 | 10,211,274 | 10,686,474 | 94.30% |
| **December** | 1,017,684 | 6,531,160 | 7,548,844 | 56.84% |
| | **Average/Month** | 7,974,918 | 8,245,027 | 75.47**%** |
| | **Total** | **95,699,017** | **98,244,145** | |

# 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 2025, and a trend analysis conducted on the monitoring wells that had exceeded a groundwater quality standard during 2025.

## 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 2025. 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**: With the scheduled construction and subsequent landfill closure in 2026 additional STOC's will be decommissioned to facilitate final closure and extension of the gas headers. After closure has been completed additional STOC's will be installed within the waste footprint in Phases VII and VIII Mods A & B. Details will be submitted for approval prior to installation or modification.

# 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 | 2025 | 2030 |
| Phase VI | 2022 | 2027 |
| Phase VII | 2022 | 2027 |
| Phase VIII | 2023 | 2028 |
| C & D Landfill | Not Applicable | Not Applicable |
| Ash Monofill (License No. 4317) | 2025 | 2030 |

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 2025, 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 for further data and discussion on leachate recirculation performed during 2025.

## 7.5 Other Additional Conditions

The quantity of leachate produced and sent to treatment in 2025 was 6,381,116 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 for further data and discussion on organic stability goals and performance measured during 2025.

## 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 2025.

# 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 2026. This report has been prepared to satisfy Condition No. 11(f) of the February 10, 2006 Plan of Operation Approval from the WDNR.

Phase IX Mod A cell construction will take place in 2026. Necessary bedrock removal within 2 feet of the bottom of liner, soil compaction requirements (along with decommissioning of monitoring points)and development of a new site access road was completed in 2025. Cell construction is anticipated to start in May of 2026 with a target approval and filling date of October 1, 2026. Additionally, the facility will be placing two (2) sections of the current active MSW landfill into final cover. The total area of final cover targeted in 2026 will be about 4.1 acres.

# Appendix A

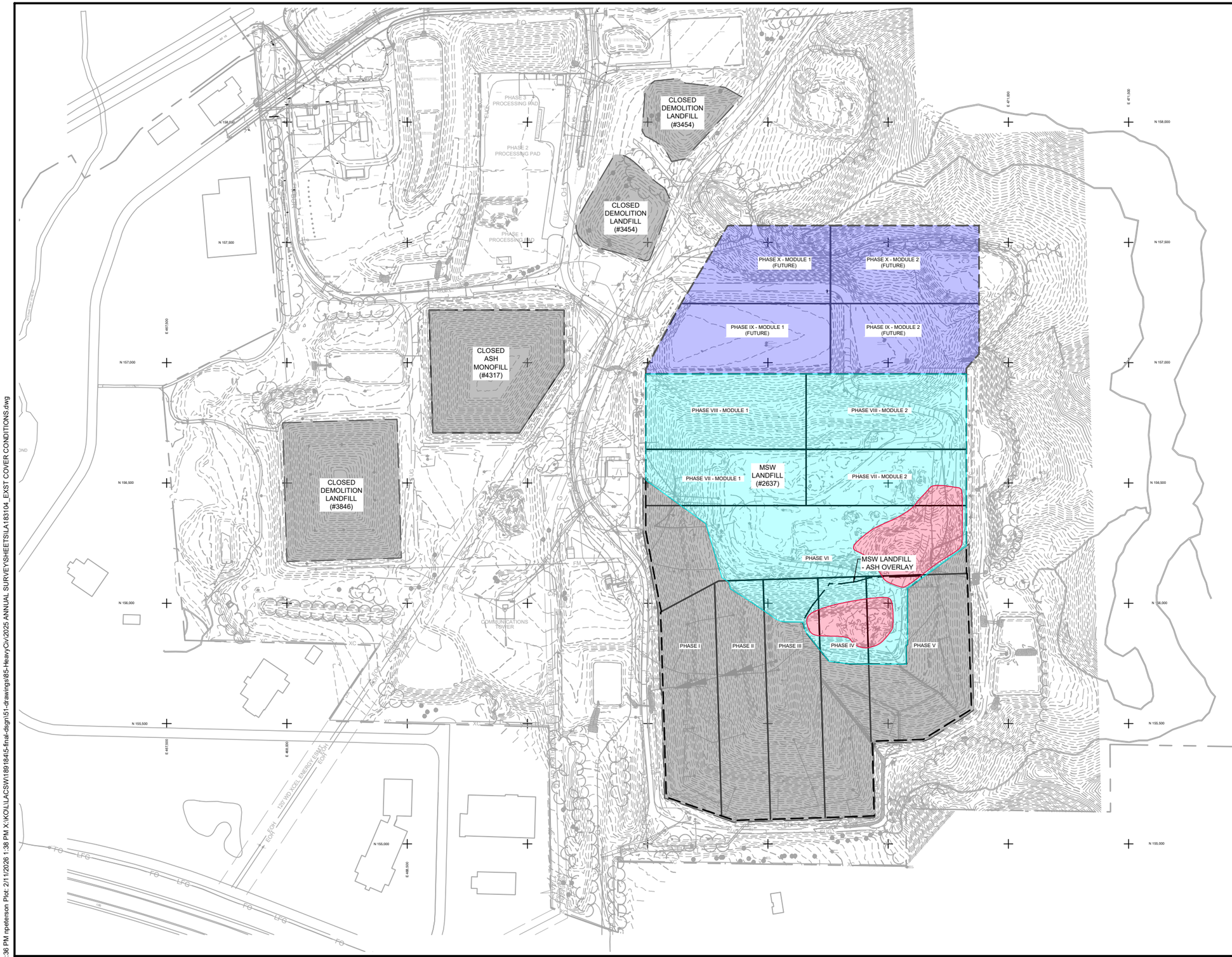
General Information

# 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, 2025.

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

- 780 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

Save: 2/11/2026 1:36 PM npeterson Plot: 2/11/2026 1:38 PM X:\KOI\LLACSW\189\18415-final-dsgn\51-drawings\85-HeavyCiv\2025 ANNUAL SURVEY\SHEETS\LA183104_EXST COVER CONDITIONS.dwg

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEH Project | LACSW 183104 | Rev.# | Plan Revision Issue Description | Date | Rev.# | Sheet Revision Issue Description | Date |
| Drawn By | BRH | | | | | | |
| Designed By | TTR | | | | | | |
| Checked By | TTR | | | | | | |

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

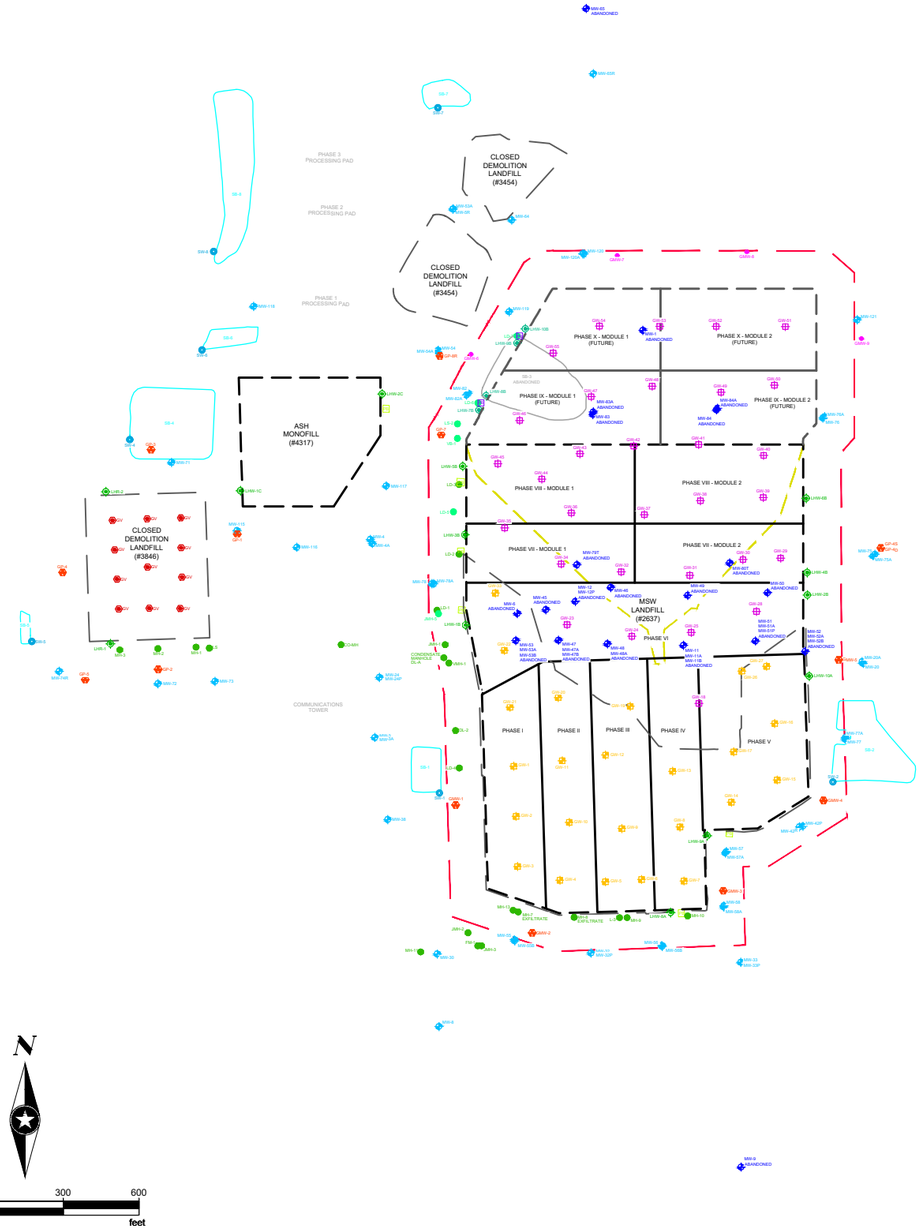
PLANS PREPARED FOR:

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

LA CROSEE COUNTY LANDFILL
2025 ANNUAL REPORT

**EXISTING CONDITIONS AND FILLING STATUS**

# 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-58 — 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 | | |
| Sjolander 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 189184 | Rev.# | Plan Revision Issue Description | Date | Rev.# | Sheet Revision Issue Description | Date | PLANS PREPARED FOR: |
| Drawn By | NRP | | | | | | | LA CROSSE SOLID WASTE DEPT |
| Designed By | TTR | | | | | | | 3200 BERLIN DRIVE |
| Checked By | BLK | | | | | | | LA CROSSE, WI 54601 |


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


LA CROSSE COUNTY LANDFILL
2025 ANNUAL REPORT

**ENVIRONMENTAL MONITORING PLAN**




Save: 2/17/2026 4:06 PM npeterson Plot: 2/17/2026 4:07 PM X:\KOLL\LACSW\189184\5-final-dsgn\51-drawings\85-HeavyCiv\2025 ANNUAL SURVEY\SHEETS\LA189184_ENVIRO MON PLAN.dwg

PHASE IX - MODULE 1 (FUTURE)

PHASE IX - MODULE 2 (FUTURE)

PHASE VIII - MODULE 1

PHASE VIII - MODULE 2

PHASE VII - MODULE 1

PHASE VII - MODULE 2

PHASE VI

NOTES:

1. CONTOUR INTERVAL IS 2-FOOT.
2. TOPOGRAPHIC BASE MAP UPDATED WITH MOST RECENT SURVEY PERFORMED BY PARAGON ASSOCIATES ON DECEMBER 31, 2025.

LEGEND:

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

N

60 0 60 120

scale 30 feet

| | | | |
|---|---|---|---|
| SEH | PROJECT NO. LACSW 189184 | **EXISTING STOC LOCATION** | FIG 1 |
| | DATE: 02/09/2026 | GENERAL ASSISTANCE LA CROSSE COUNTY LANDFILL | |

Save: 2/11/2026 11:17 AM npeterson Plot: 2/11/2026 11:18 AM X:\KIOL\LACSW\189184\5-final-dsgn\51-drawings\65-HeavyCiv\2025 ANNUAL SURVEY\SHEETS\LA189184_STOC.dwg

# A-3 – Random Load Inspections

# La Crosse County Waste Inspection Reporting Form

Date: 1/28/2025 Time: 3:30 pm Inspected by: Jackie Davis

---

Hauler: Waste Management

Truck Number: 415494

WDNR License Number: 16954

Vehicle License Number: 76311Z

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?

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



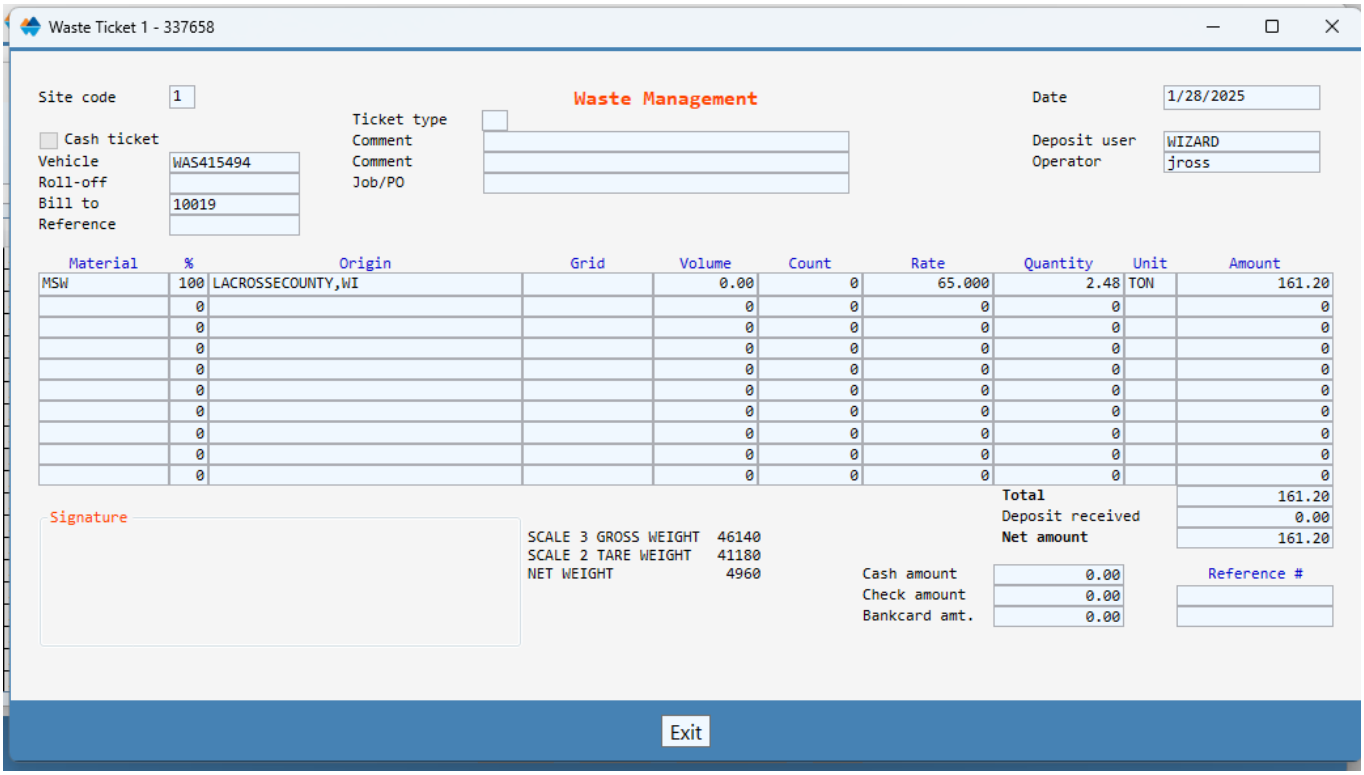
Load Inspection #4



Load Inspection #5



Scale Ticket



# La Crosse County Waste Inspection Reporting Form

Date: 1/31/2025 Time: 8:50 am 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



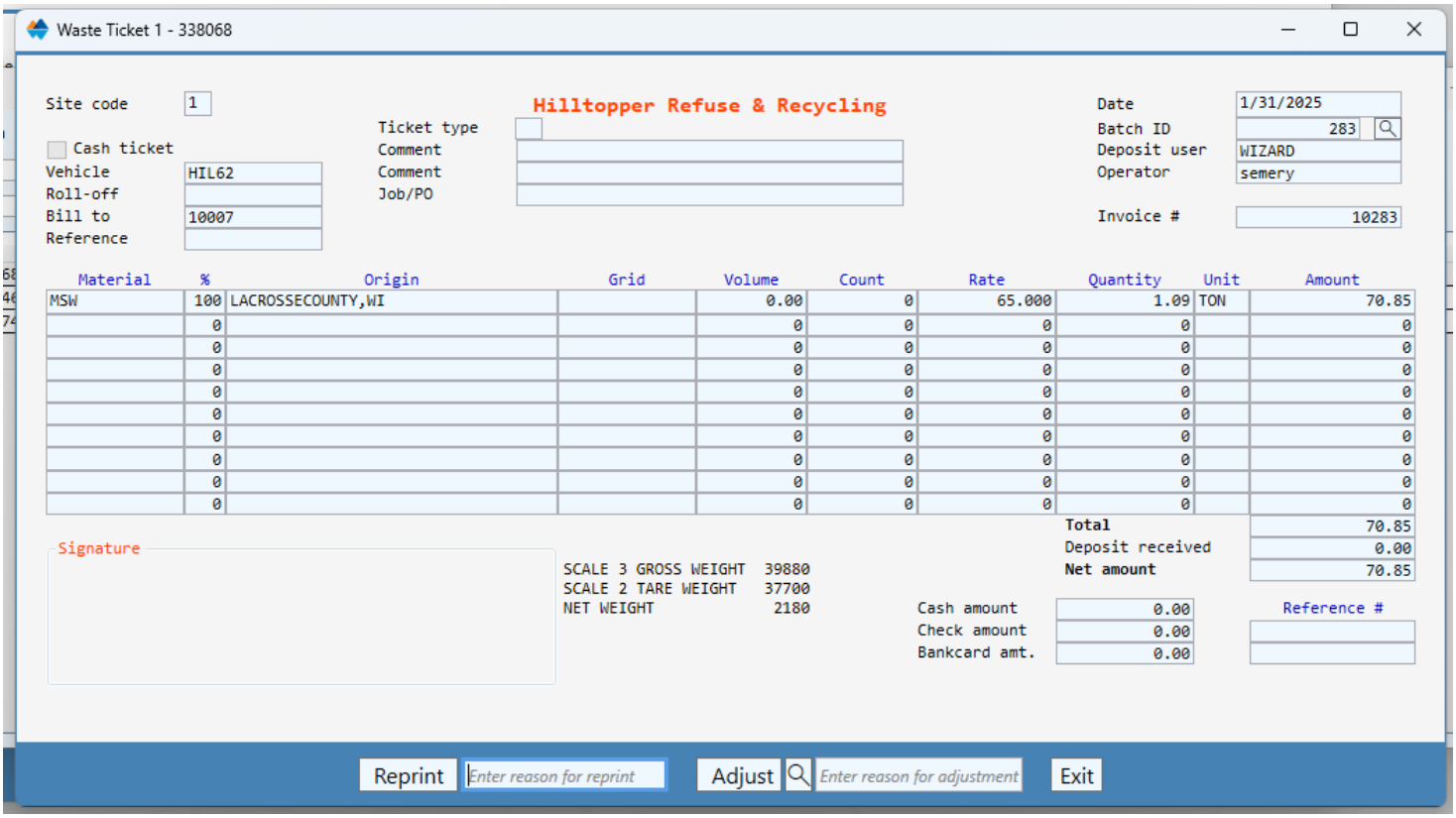
Load Inspection #4



Load Inspection #5



Scale Ticket



# La Crosse County Waste Inspection Reporting Form

Date: 2/18/2025 Time: 9:40 AM Inspected by: Jackie Davis

---

Hauler: Midwest Roll-off

Truck Number: MID5

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? The site contractor removed the small refrigerator and placed it into the freon bin to be sent for recycling.

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 (2)

Load Inspection Photo #1



Load Inspection #2



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

DUPLICATE TICKET reprinted by jross at 10:52:06 on 02/21/25 **

Account # 10012
Midwest Roll-Off of LaX, LLC

PO Box 890
West Salem WI 54669

Site 001
Ticket 00339841
Date In 02/18/25
Time In 09:40:18
Date Out 02/18/25
Time Out 09:59:02

Weigh master: Scale 14

Ref.

Origin HOLMEN,VILLAGEOF

Grid

DESCRIPTION

| | | | |
|---|---|---|---|
| Scale 3 | 37700 LB | Vehicle MID5 | |
| Scale 2 Tare Wt. | 34400 LB | Roll-Off | |
| Net Wt. | 3300 LB | TON | 1.65 |

| | |
|---|---|
| Demolition 1.65 @ $65.00 per TON | 107.25 |
| LF Unacceptable WG 1.00 @ $25.00 per EACH | 25.00 |

| | |
|---|---|
| Permit Fee | 0.00 |
| OutofArea | 0.00 |
| Total Charge Amount | 132.25 |

Comment X1 REFRI.
Job/PO

Operating hours November 1st - March 31st
Monday - Friday 7:00 AM - 4:00 PM
Starting January 1st 2025 a minimum fee of $10
on all transactions.

Signature _____

# La Crosse County Waste Inspection Reporting Form

Date: 2/27/2025 Time: 9:45 AM Inspected by: Jackie Davis

---

Hauler: Big Hook Trucking and Disposal

Truck Number: BIG05

WDNR License Number: 16606

Vehicle License Number: RB36843

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? Click or tap here to enter text.

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

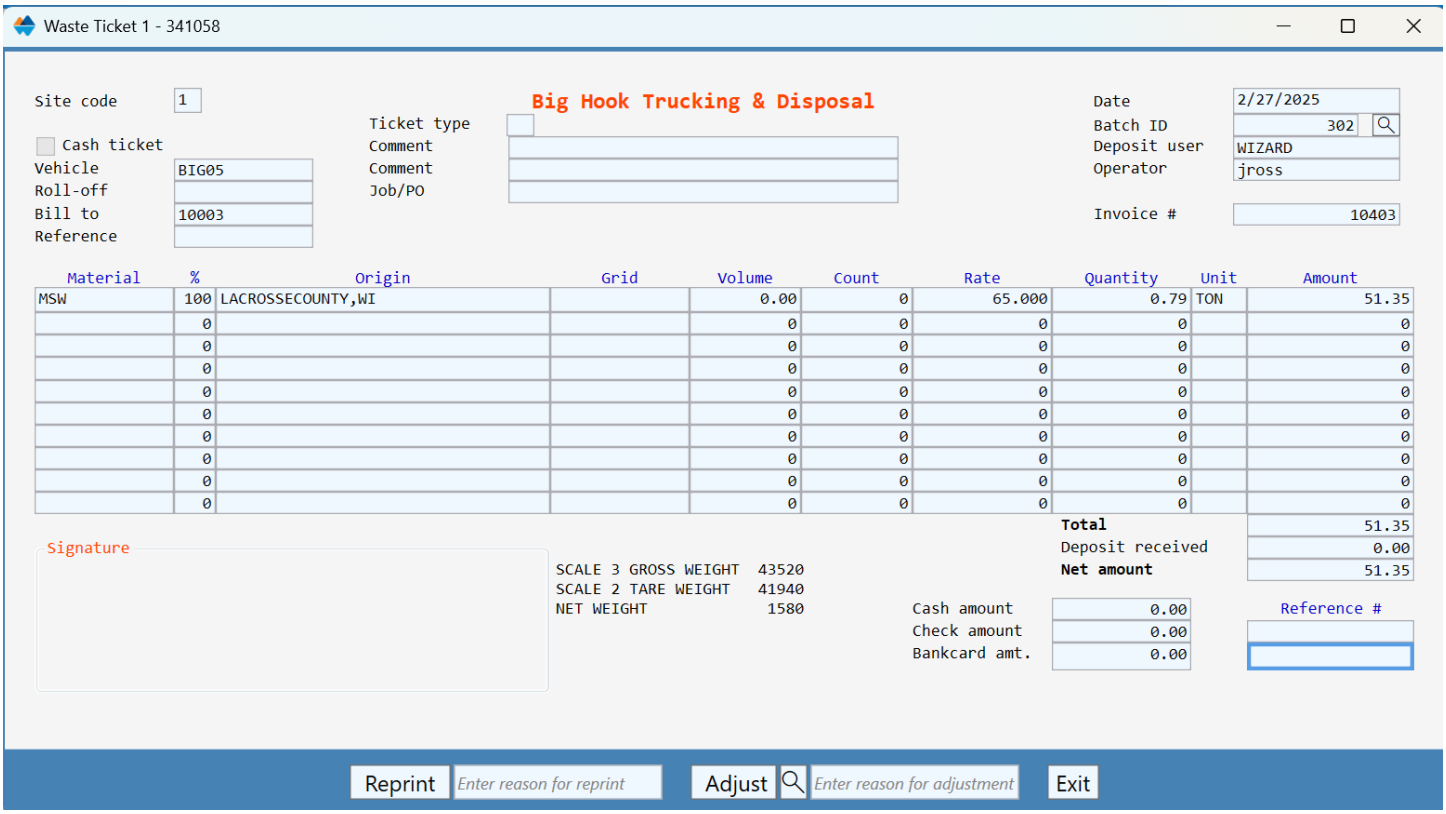
Attachments to be included: Scale ticket (1) and photos (2)

Load Inspection Photo #1



Load Inspection #2




Waste Ticket 1 - 341058
Site code 1
Big Hook Trucking & Disposal
Ticket type
Cash ticket
Comment
Vehicle BIG05
Comment
Roll-off
Job/PO
Bill to 10003
Reference
Date 2/27/2025
Batch ID 302
Deposit user WIZARD
Operator jross
Invoice # 10403
Material % Origin Grid Volume Count Rate Quantity Unit Amount
MSW 100 LACROSSECOUNTY,WI 0.00 0 65.000 0.79 TON 51.35
Total 51.35
Deposit received 0.00
Net amount 51.35
Signature
SCALE 3 GROSS WEIGHT 43520
SCALE 2 TARE WEIGHT 41940
NET WEIGHT 1580
Cash amount 0.00
Check amount 0.00
Bankcard amt. 0.00
Reference #
Reprint
Enter reason for reprint
Adjust
Enter reason for adjustment
Exit

# La Crosse County Waste Inspection Reporting Form

Date: 3/24/2025 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: 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 (2)

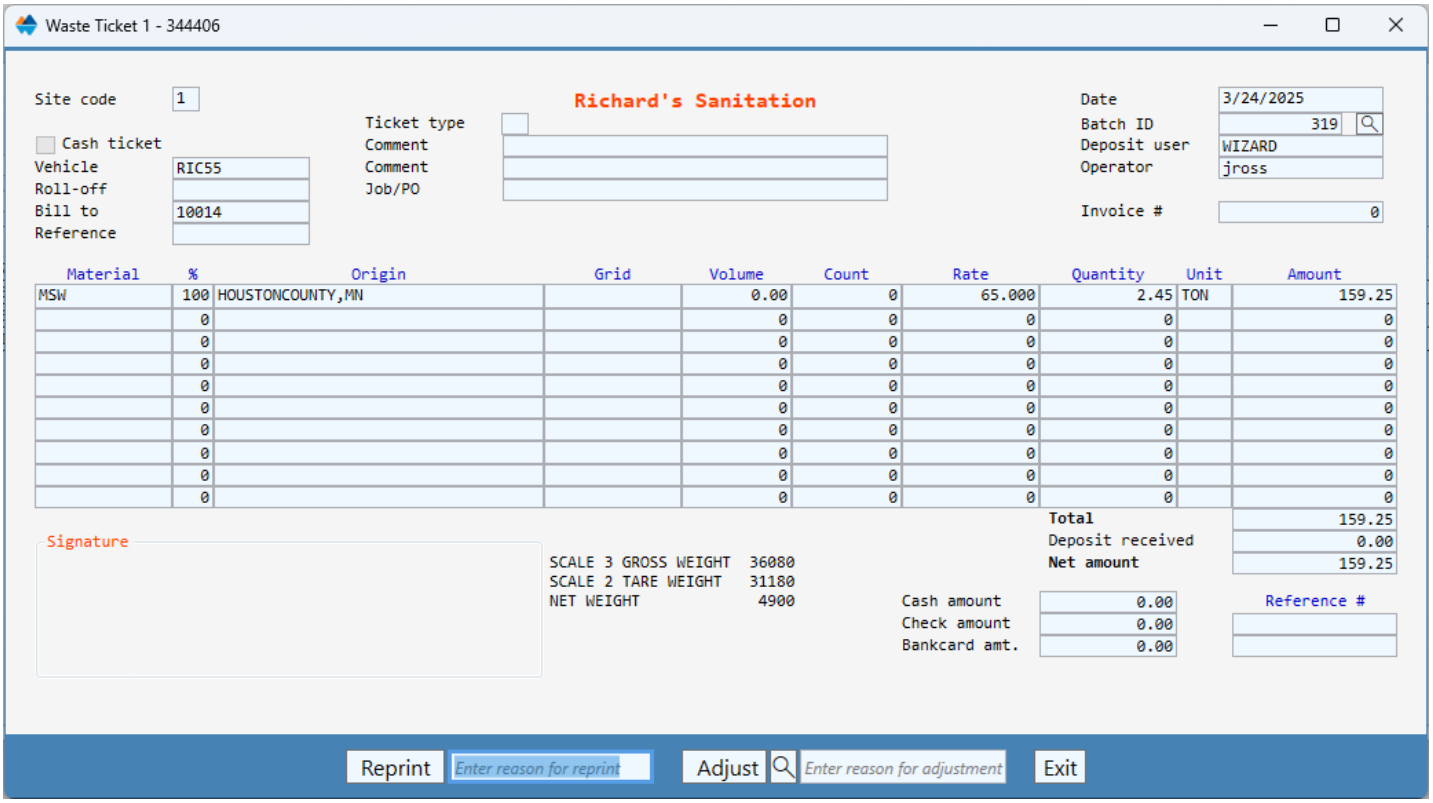
Load Inspection #1



Load Inspection #2



Scale Ticket



# La Crosse County Waste Inspection Reporting Form

Date: 3/28/2025 Time: 1:30 PM Inspected by: Jackie Davis

---

Hauler: Always Affordable Container LLC

Truck Number: 2

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 (2)

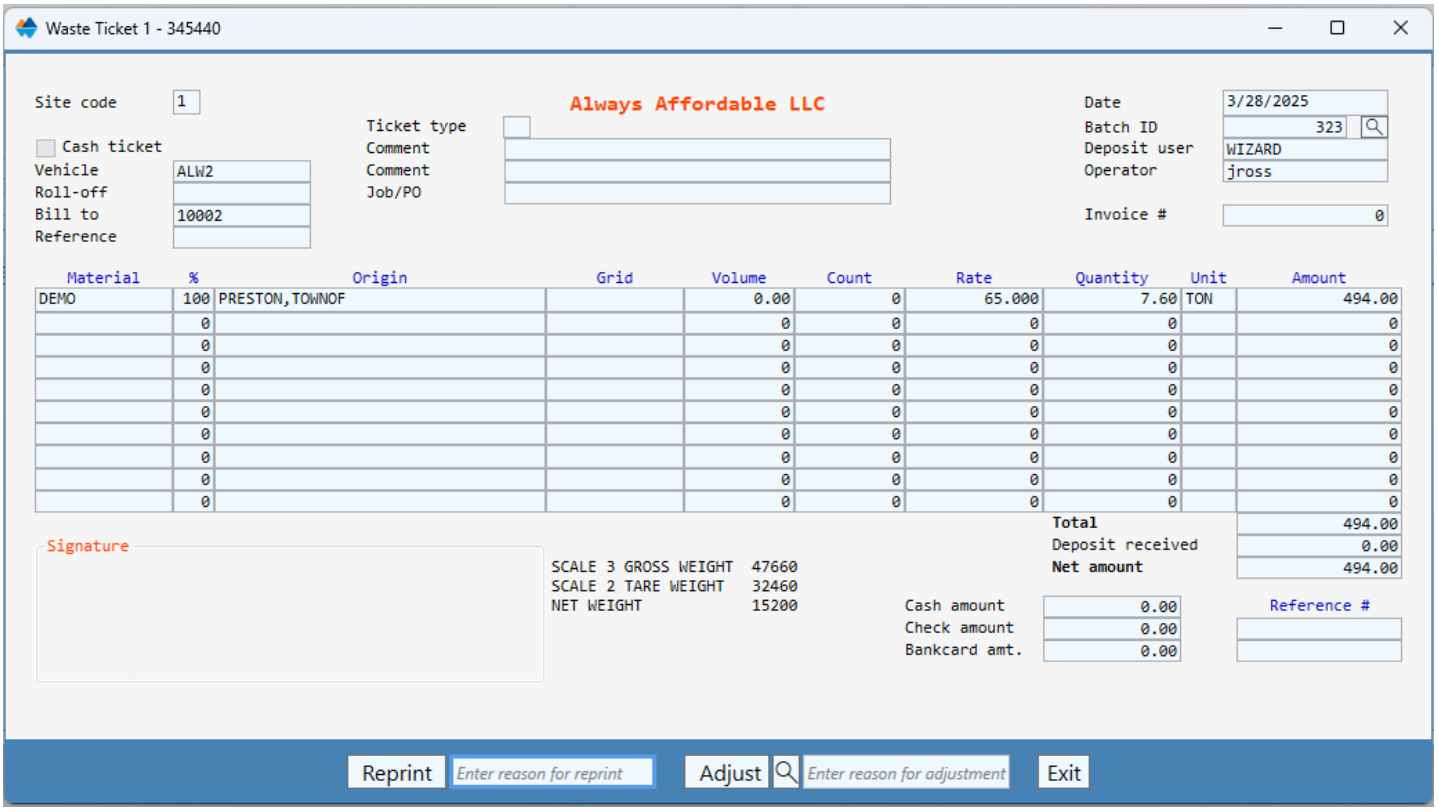
Load Inspection #1



Load Inspection #2



Scale Ticket



# La Crosse County Waste Inspection Reporting Form

Date: 4/23/2025 Time: 1:56 PM Inspected by: Jackie Davis

---

Hauler: Harter's Trash and Recycling

Truck Number: 11

WDNR License Number: 13521

Vehicle License Number: SB14616

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? Click or tap here to enter text.

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 (2)

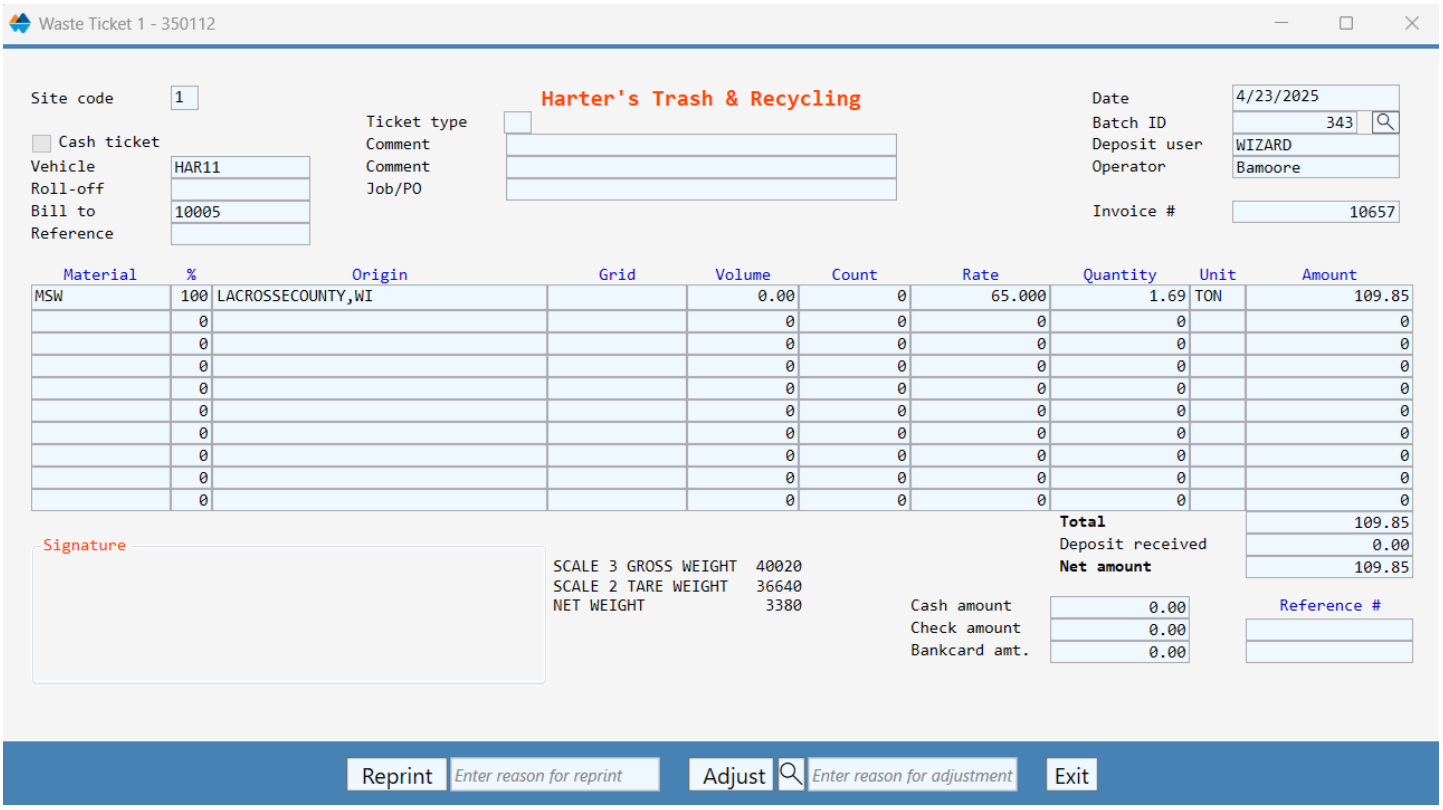
Load Inspection Photo #1



Load Inspection #2



Scale Ticket:



# La Crosse County Waste Inspection Reporting Form

Date: 4/30/2025 Time: 12:30 PM 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)

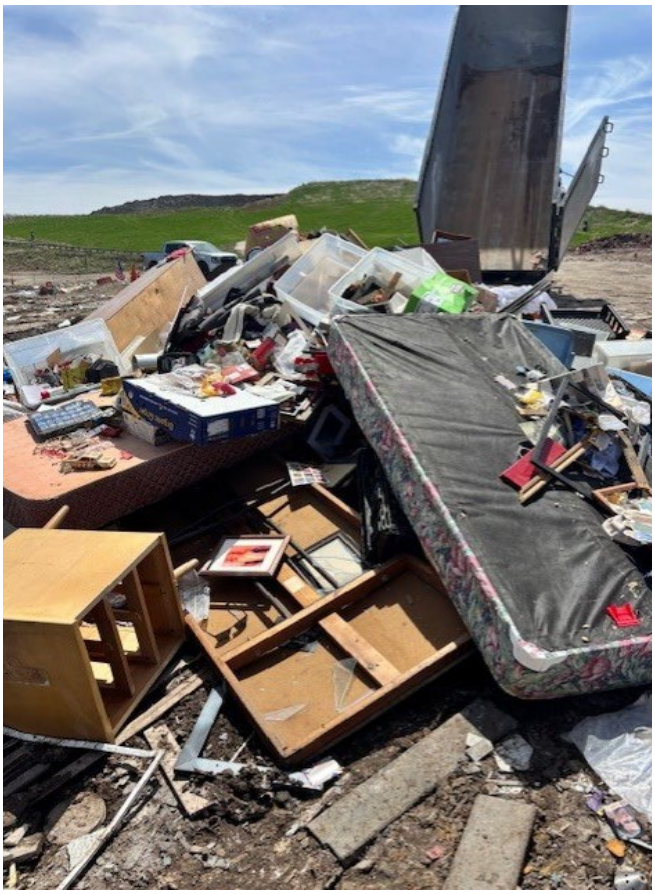
If so, what was the final disposition of the load? Click or tap here to enter text.

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 (2)

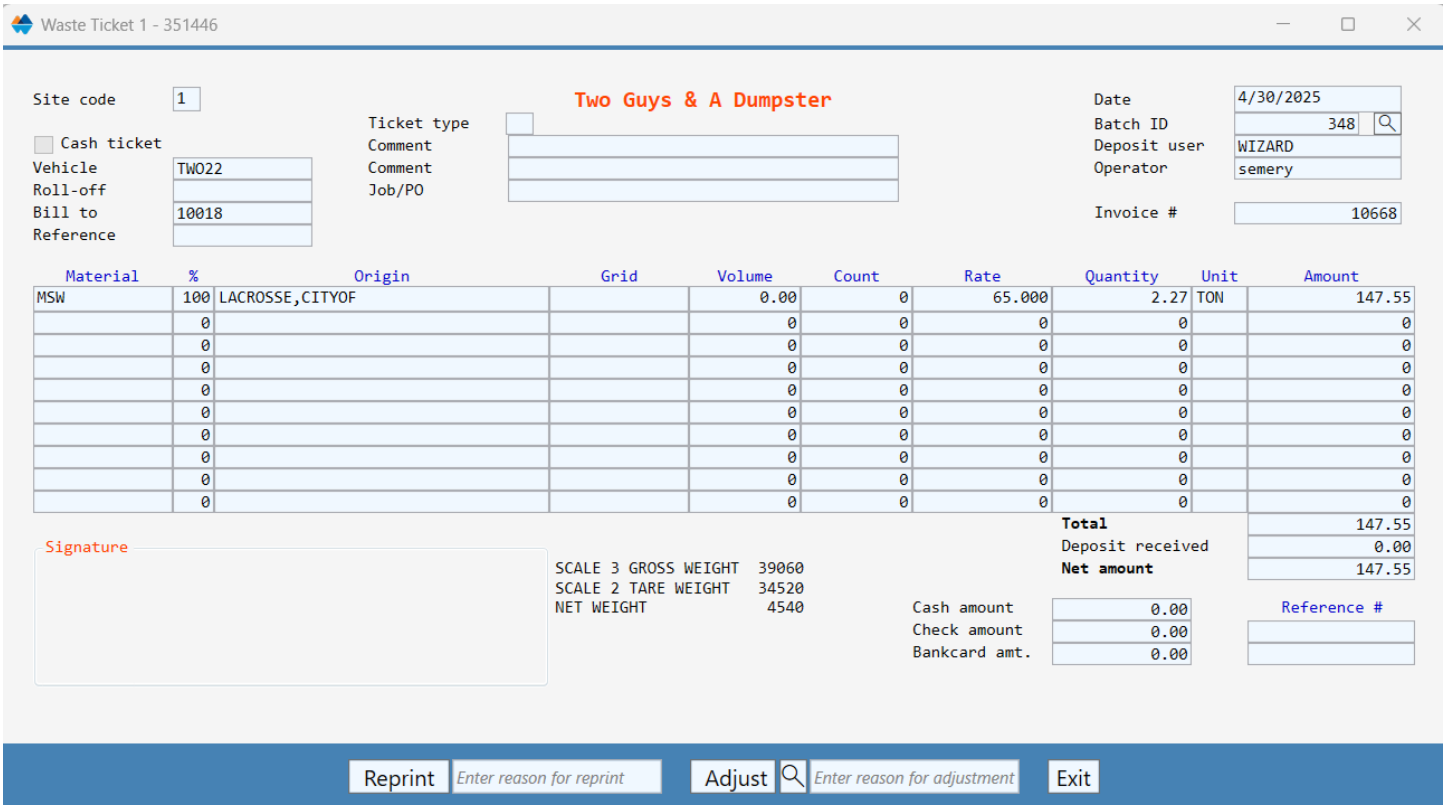
Load Inspection Photo #1



Load Inspection #2



Scale Ticket:



# La Crosse County Waste Inspection Reporting Form

Date: 5/14/2025 Time: 1:50 pm Inspected by: Jackie Davis

---

Hauler: Waste Management

Truck Number: 417958

WDNR License Number: 16954

Vehicle License Number: 3747849

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? Click or tap here to enter text.

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

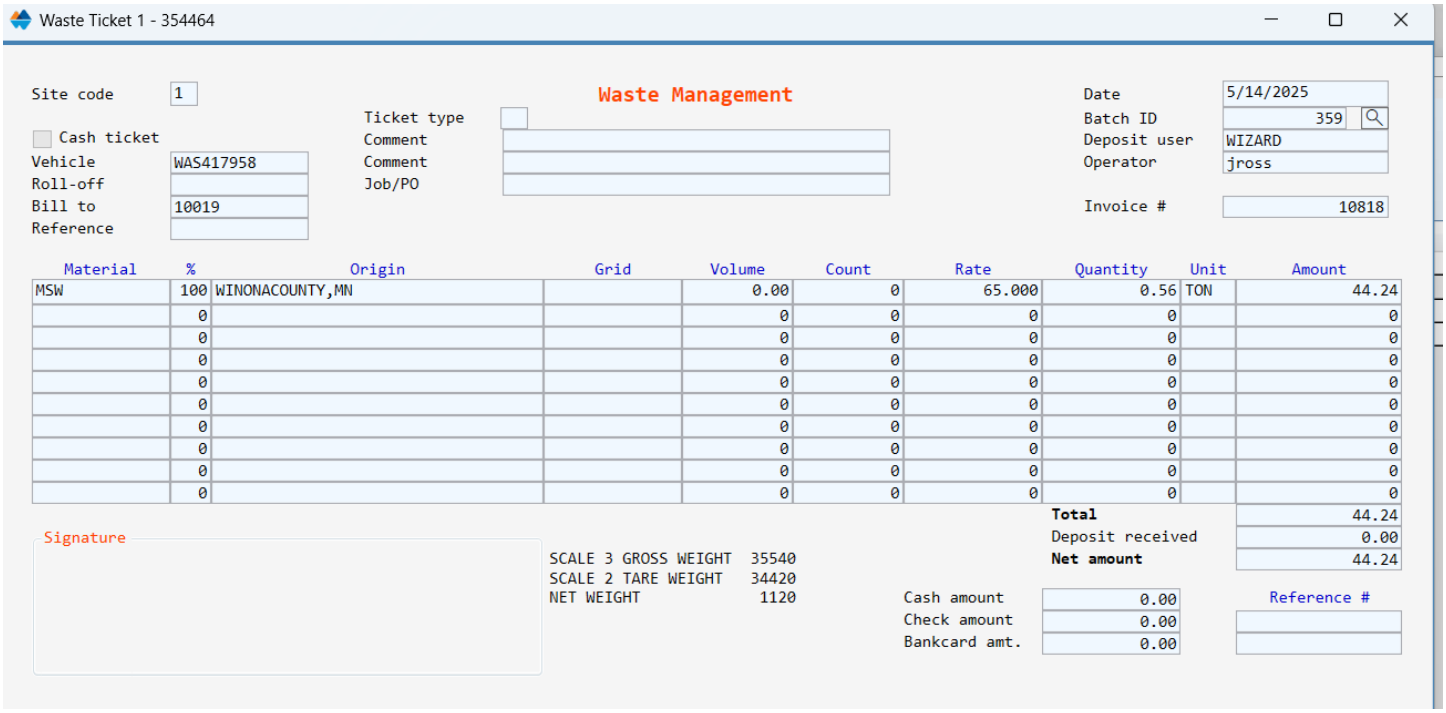
Attachments to be included: Scale ticket (1) and photos (2)

Load Inspection Photo #1




Load Inspection #2




Waste Ticket 1 - 354464
Site code 1
Cash ticket
Vehicle WAS417958
Roll-off
Bill to 10019
Reference
Waste Management
Ticket type
Comment
Comment
Job/PO
Date 5/14/2025
Batch ID 359
Deposit user WIZARD
Operator jross
Invoice # 10818
Material % Origin Grid Volume Count Rate Quantity Unit Amount
MSW 100 WINONACOUNTY,MN 0.00 0 65.000 0.56 TON 44.24
Total 44.24
Deposit received 0.00
Net amount 44.24
Signature
SCALE 3 GROSS WEIGHT 35540
SCALE 2 TARE WEIGHT 34420
NET WEIGHT 1120
Cash amount 0.00
Check amount 0.00
Bankcard amt. 0.00
Reference #

# La Crosse County Waste Inspection Reporting Form

Date: 5/28/2025 Time: 3:00 PM Inspected by: Jackie Davis

---

Hauler: Midwest Roll-off

Truck Number: MID5

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? The site contractor removed the small refrigerator and placed it into the freon bin to be sent for recycling.

Comments: Microwave was removed from the load and put into the metal recycling bin to be sent for recycling.

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

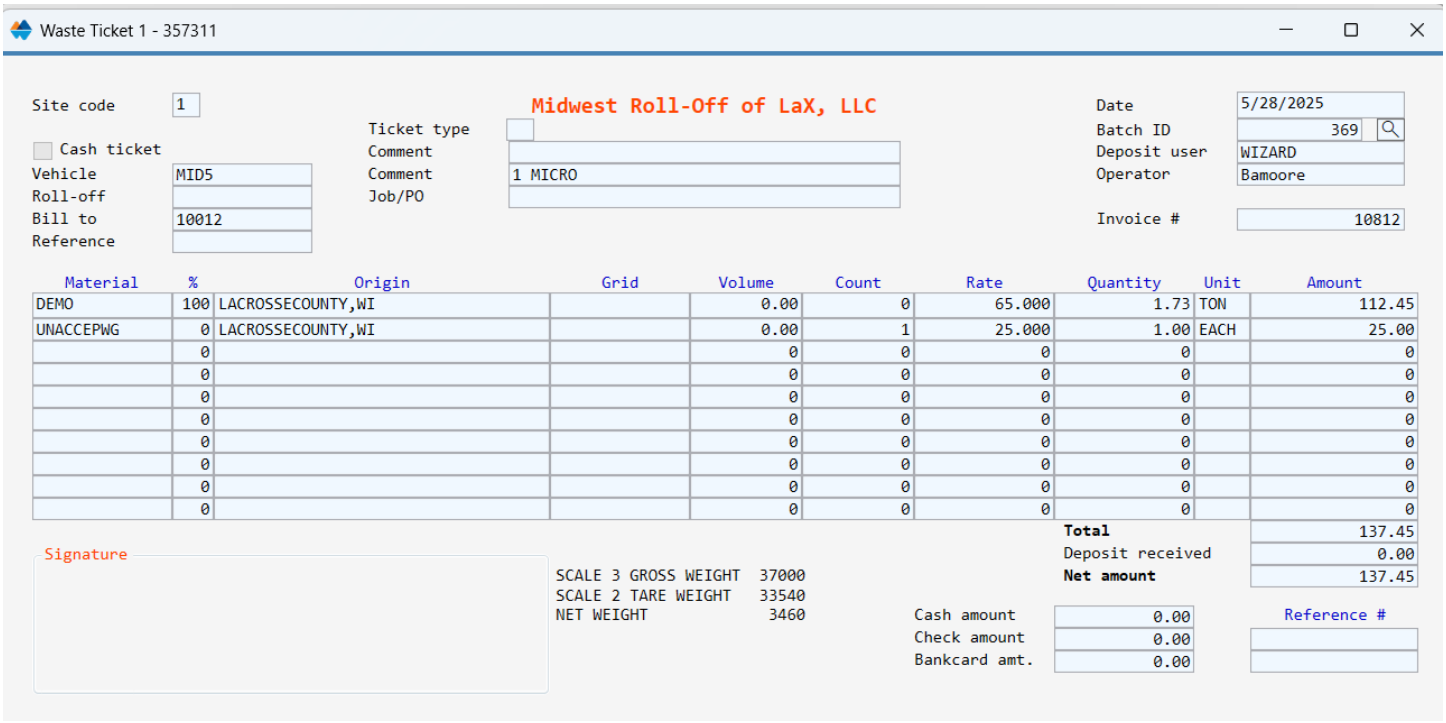
Attachments to be included: Scale ticket (1) and photos (2)

Load Inspection Photo #1



Load Inspection #2




Waste Ticket 1 - 357311
Site code 1
Midwest Roll-Off of LaX, LLC
Cash ticket
Vehicle MID5
Roll-off
Bill to 10012
Reference
Ticket type
Comment
Comment 1 MICRO
Job/PO
Date 5/28/2025
Batch ID 369
Deposit user WIZARD
Operator Bamoore
Invoice # 10812
Material % Origin Grid Volume Count Rate Quantity Unit Amount
DEMO 100 LACROSSECOUNTY,WI 0.00 0 65.000 1.73 TON 112.45
UNACCEPWG 0 LACROSSECOUNTY,WI 0.00 1 25.000 1.00 EACH 25.00
Total 137.45
Deposit received 0.00
Net amount 137.45
Signature
SCALE 3 GROSS WEIGHT 37000
SCALE 2 TARE WEIGHT 33540
NET WEIGHT 3460
Cash amount 0.00
Check amount 0.00
Bankcard amt. 0.00
Reference #

# La Crosse County Waste Inspection Reporting Form

Date: 6/26/2025 Time: 12:30 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 (2)

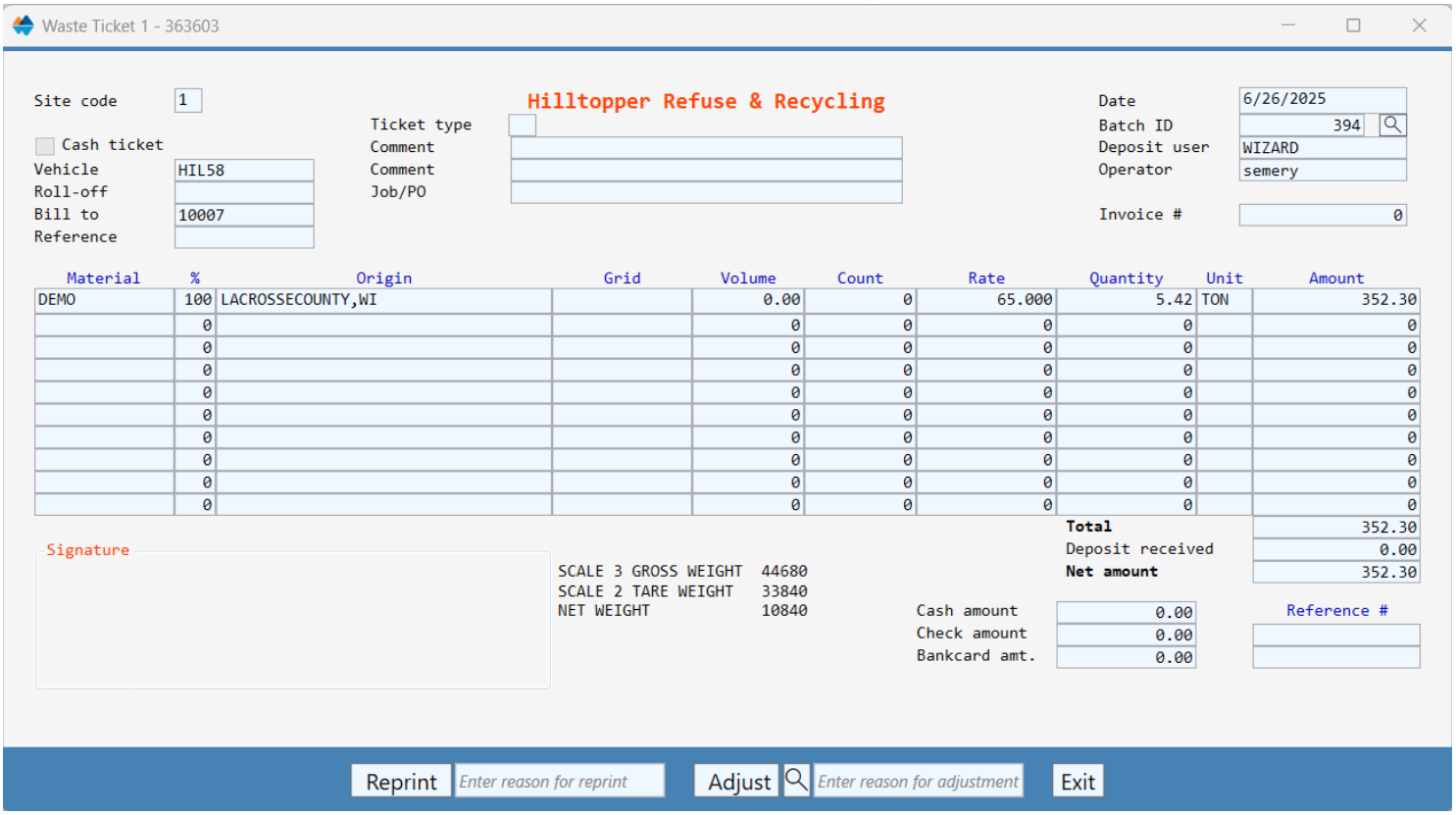
Load Inspection Photo #1



Load Inspection Photo #2



Scale Ticket



# La Crosse County Waste Inspection Reporting Form

Date: 6/27/2025 Time: 9:30 AM Inspected by: Jackie Davis

---

Hauler: Big Hook Trucking and Disposal

Truck Number: BIG86

WDNR License Number: 16606

Vehicle License Number: RB34084

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? Click or tap here to enter text.

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

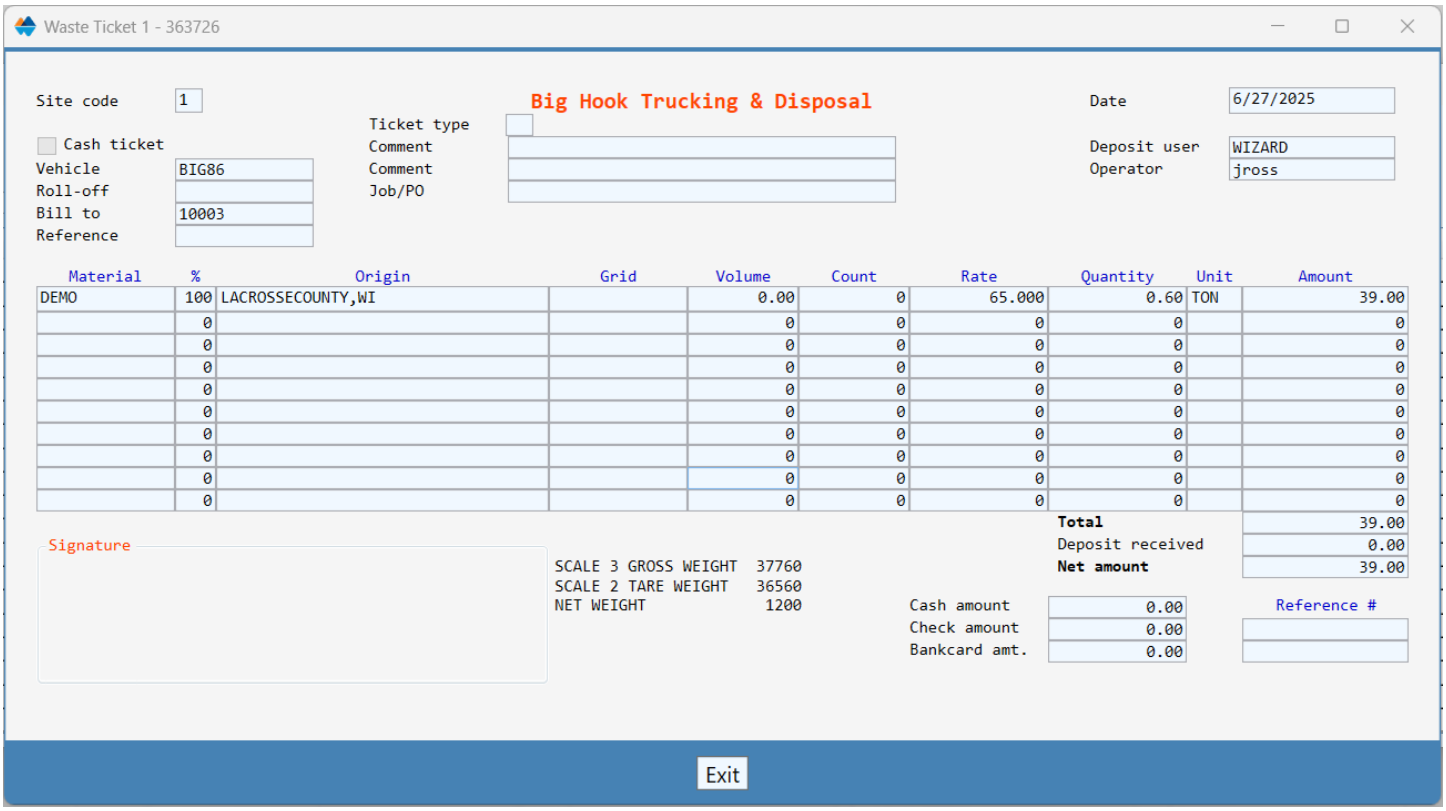
Attachments to be included: Scale ticket (1) and photos (2)

Load Inspection Photo #1



Load Inspection Photo #2




Waste Ticket 1 - 363726
Site code 1
Big Hook Trucking & Disposal
Date 6/27/2025
Ticket type
Cash ticket
Comment
Deposit user WIZARD
Vehicle BIG86
Comment
Operator jross
Roll-off
Job/PO
Bill to 10003
Reference
Material % Origin Grid Volume Count Rate Quantity Unit Amount
DEMO 100 LACROSSECOUNTY,WI 0.00 0 65.000 0.60 TON 39.00
Total 39.00
Deposit received 0.00
Net amount 39.00
Signature
SCALE 3 GROSS WEIGHT 37760
SCALE 2 TARE WEIGHT 36560
NET WEIGHT 1200
Cash amount 0.00
Check amount 0.00
Bankcard amt. 0.00
Reference #
Exit

# La Crosse County Waste Inspection Reporting Form

Date: 7/15/2025 Time: 1:55 PM 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 (2)

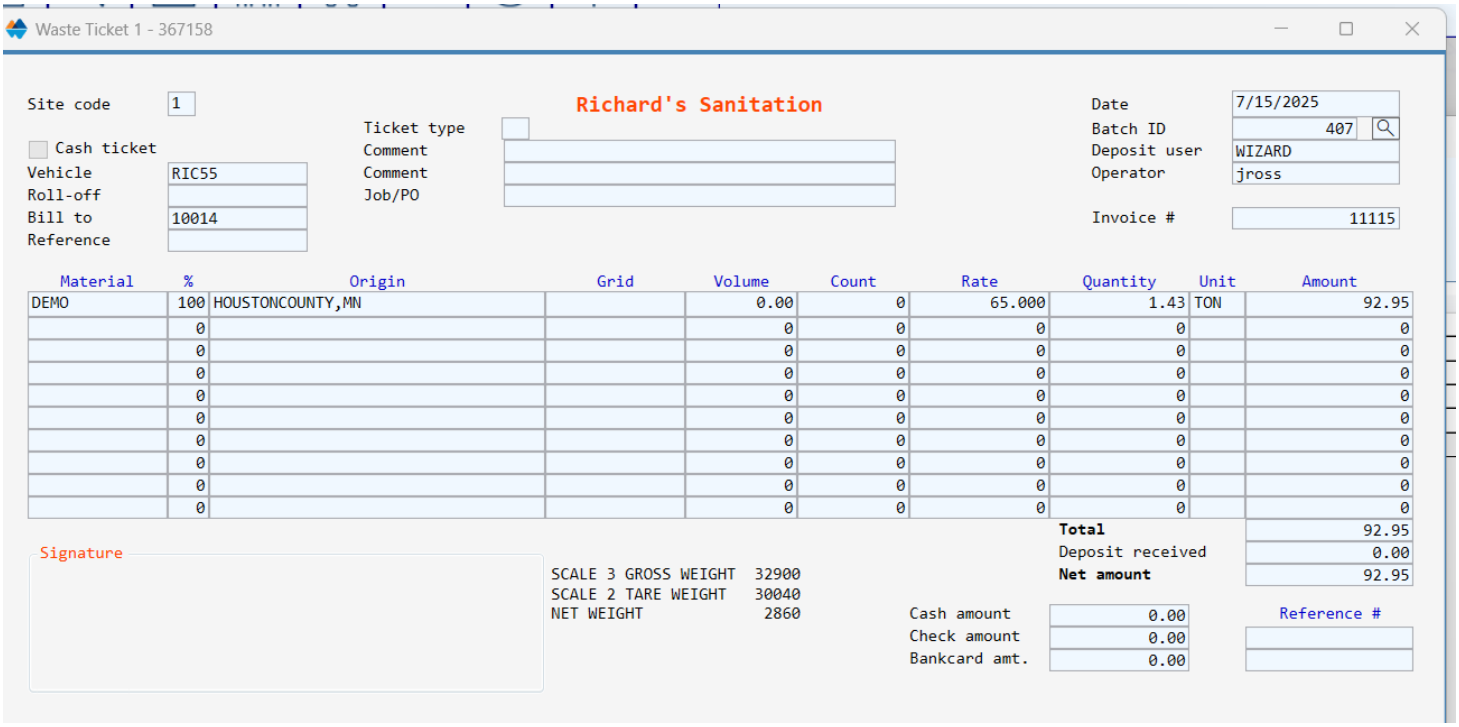
Load Inspection #1



Load Inspection #2



Scale Ticket



# La Crosse County Waste Inspection Reporting Form

Date: 7/29/2025 Time: 2:00 PM Inspected by: Jackie Davis

---

Hauler: Harter's Trash and Recycling

Truck Number: 11

WDNR License Number: 13521

Vehicle License Number: SB14616

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? Click or tap here to enter text.

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 (2)

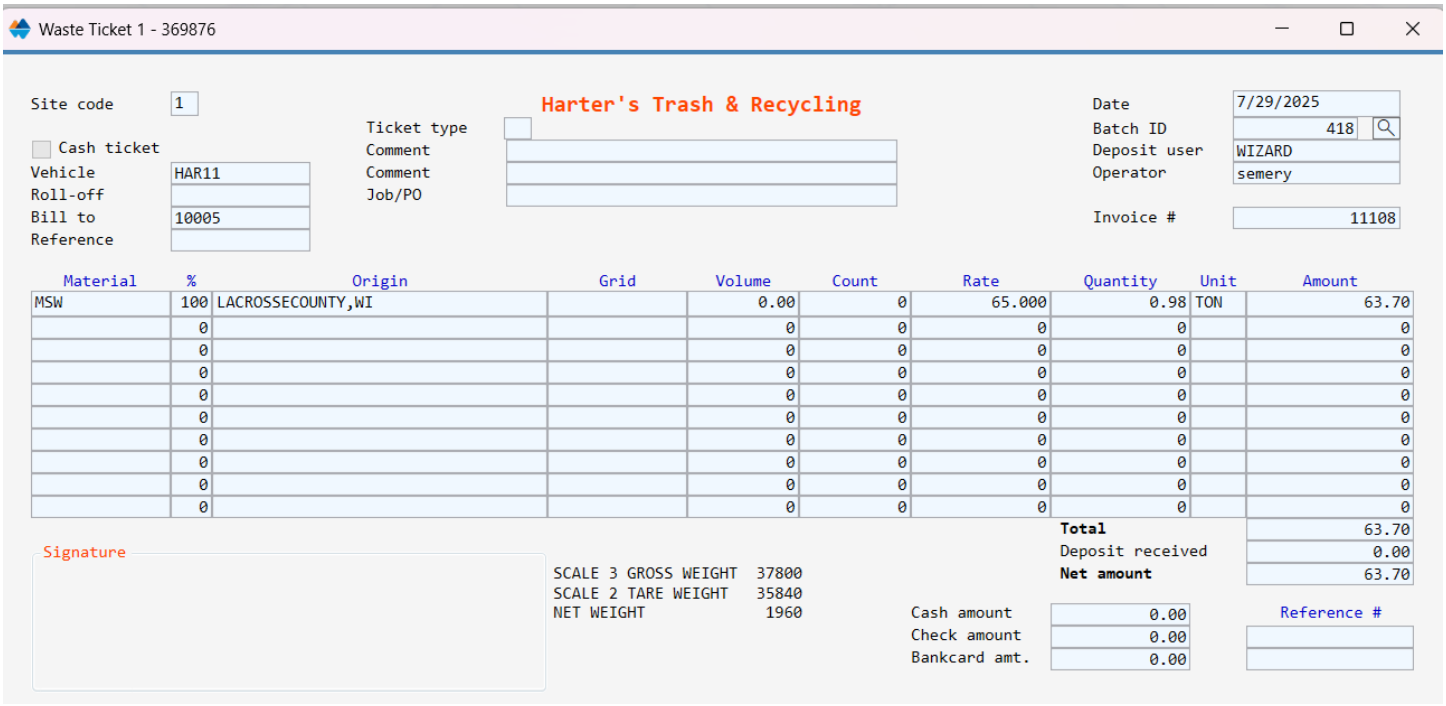
Load Inspection Photo #1



Load Inspection #2



Scale Ticket:



# La Crosse County Waste Inspection Reporting Form

Date: 8/15/2025 Time: 12:00 PM 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? Click or tap here to enter text.

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 (2)

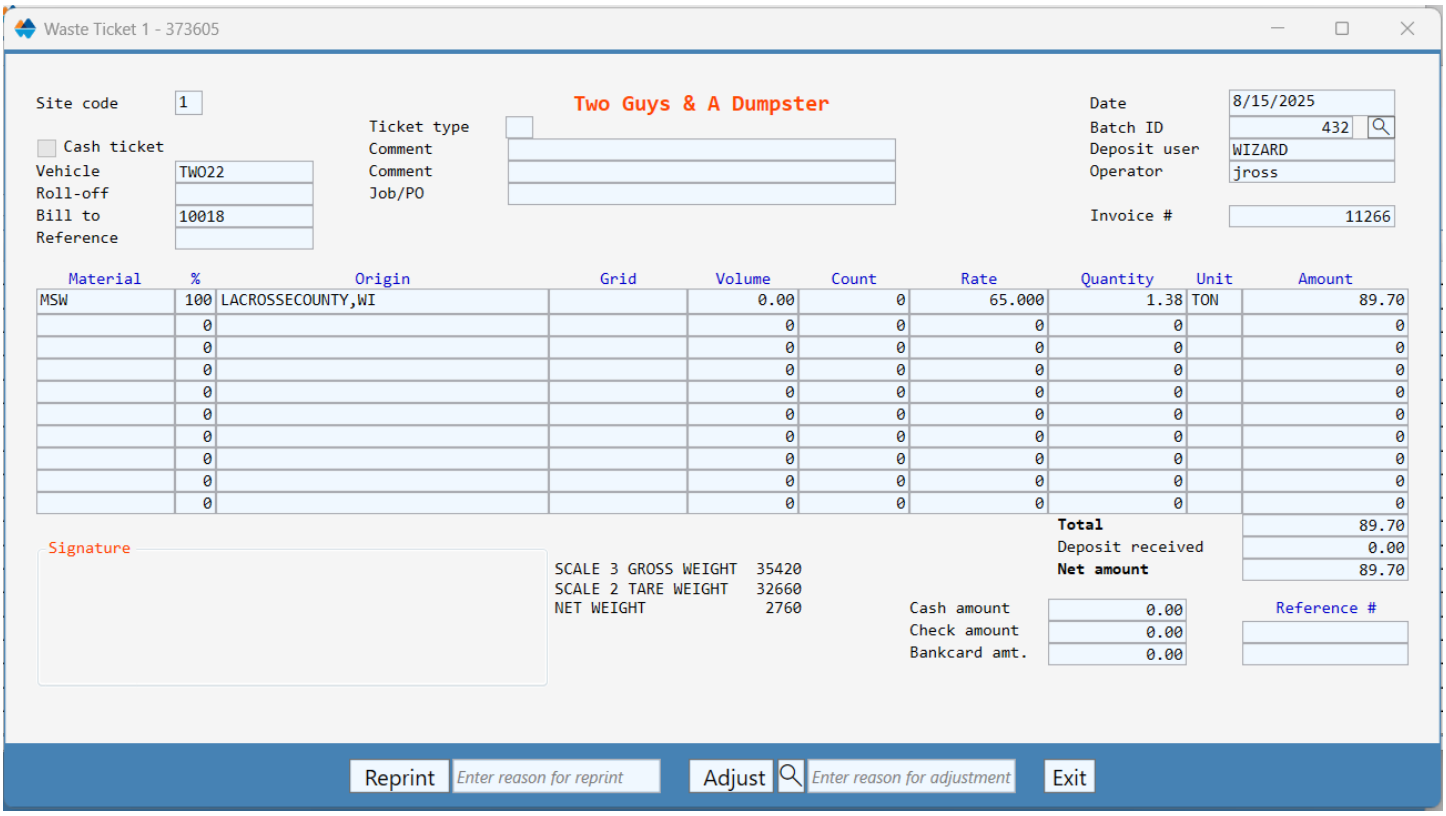
Load Inspection Photo #1



Load Inspection #2



Scale Ticket:



# La Crosse County Waste Inspection Reporting Form

Date: 8/19/2025 Time: 10:15 AM Inspected by: Jackie Davis

---

Hauler: Always Affordable Container LLC

Truck Number: 2

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 (2)

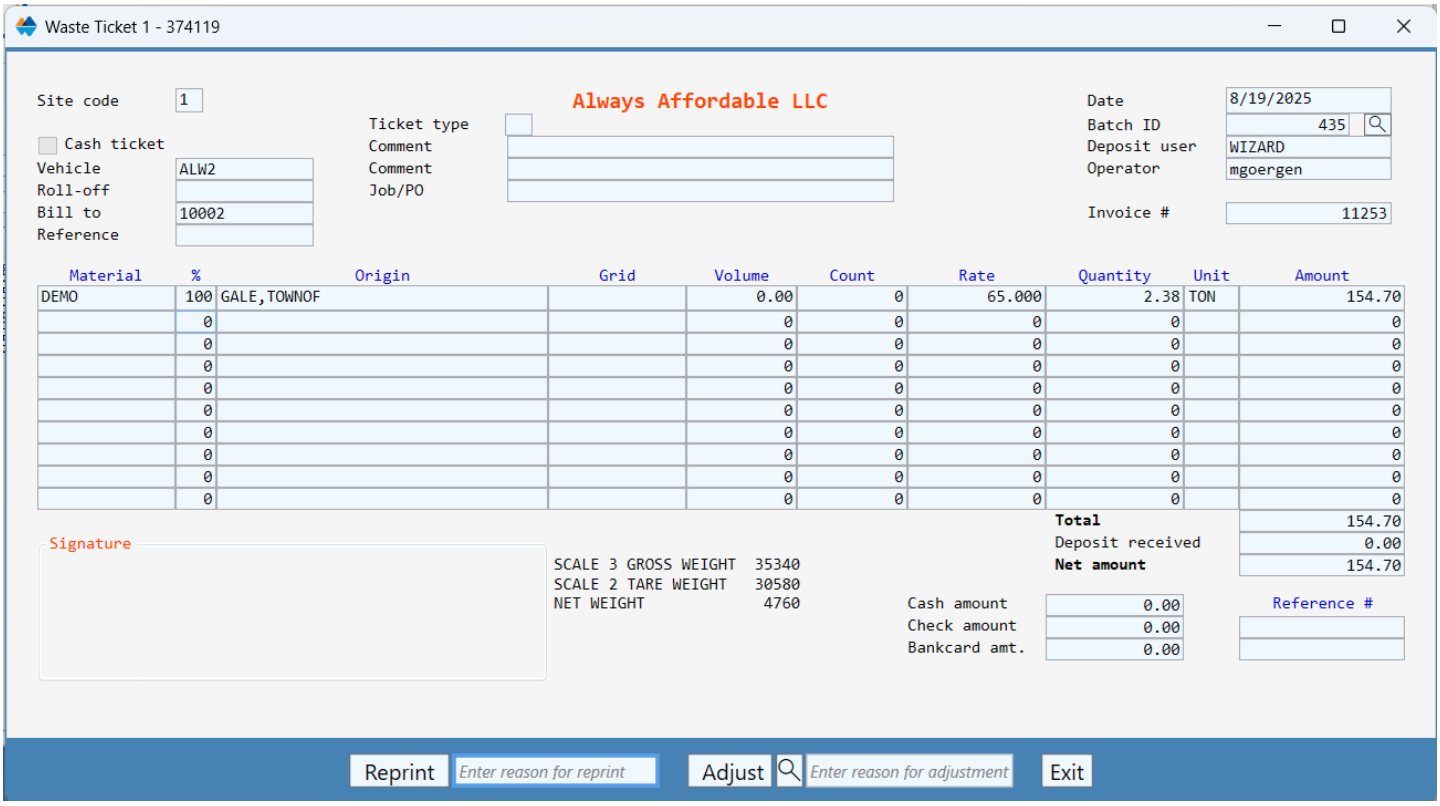
Load Inspection #1



Load Inspection #2



Scale Ticket



# La Crosse County Waste Inspection Reporting Form

Date: 9/24/2025 Time: 9:30 am Inspected by: Jackie Davis

---

Hauler: Waste Management

Truck Number: 217451

WDNR License Number: 10843

Vehicle License Number: Click or tap here to enter text.

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? Click or tap here to enter text.

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

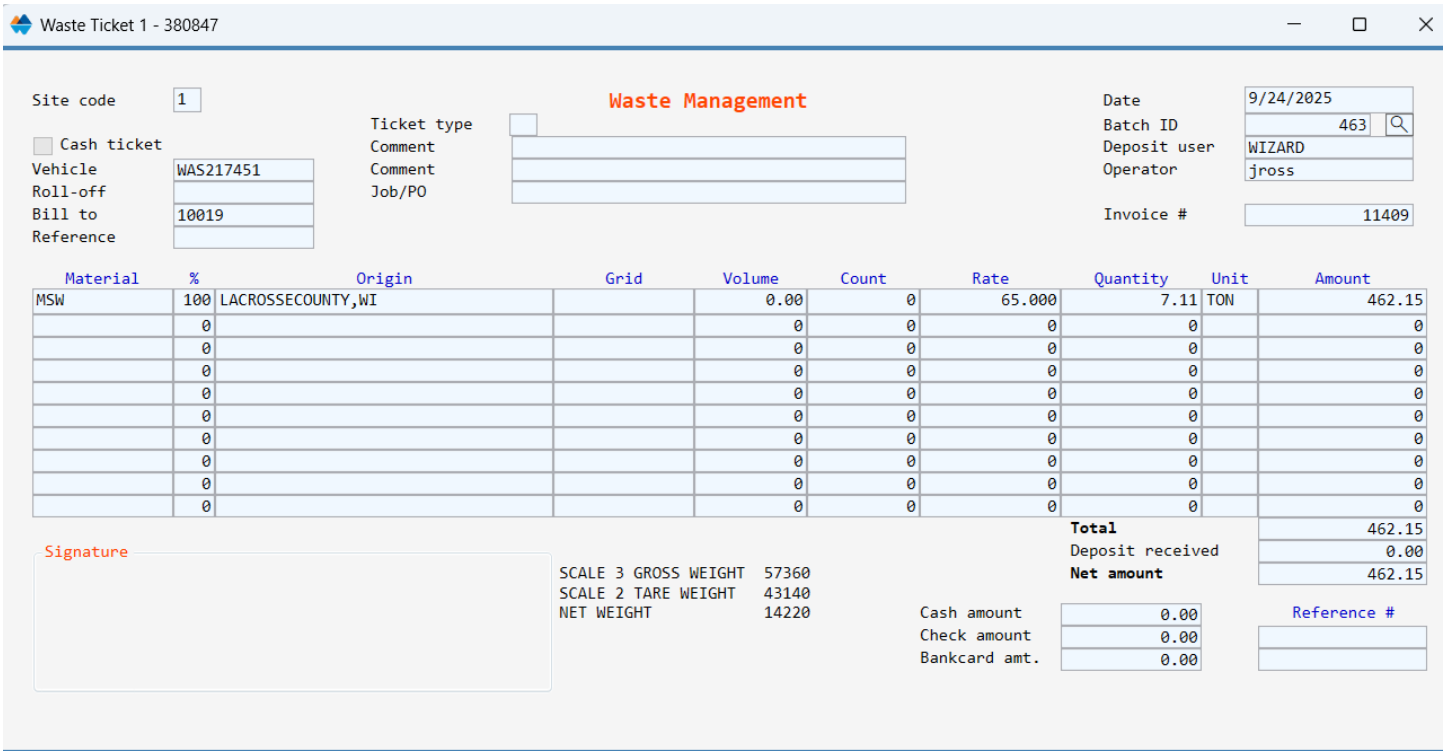
Attachments to be included: Scale ticket (1) and photos (2)

Load Inspection Photo #1




Load Inspection #2




Waste Ticket 1 - 380847
Site code 1
Waste Management
Cash ticket
Vehicle WAS217451
Roll-off
Bill to 10019
Reference
Ticket type
Comment
Comment
Job/PO
Date 9/24/2025
Batch ID 463
Deposit user WIZARD
Operator jross
Invoice # 11409
Material % Origin Grid Volume Count Rate Quantity Unit Amount
MSW 100 LACROSSECOUNTY,WI 0.00 0 65.000 7.11 TON 462.15
Total 462.15
Deposit received 0.00
Net amount 462.15
Signature
SCALE 3 GROSS WEIGHT 57360
SCALE 2 TARE WEIGHT 43140
NET WEIGHT 14220
Cash amount 0.00
Check amount 0.00
Bankcard amt. 0.00
Reference #

# La Crosse County Waste Inspection Reporting Form

Date: 10/28/2025 Time: 10:20 AM Inspected by: Jackie Davis

---

Hauler: Big Hook Trucking and Disposal

Truck Number: BIG01

WDNR License Number: 16606

Vehicle License Number: RB35789

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? Click or tap here to enter text.

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

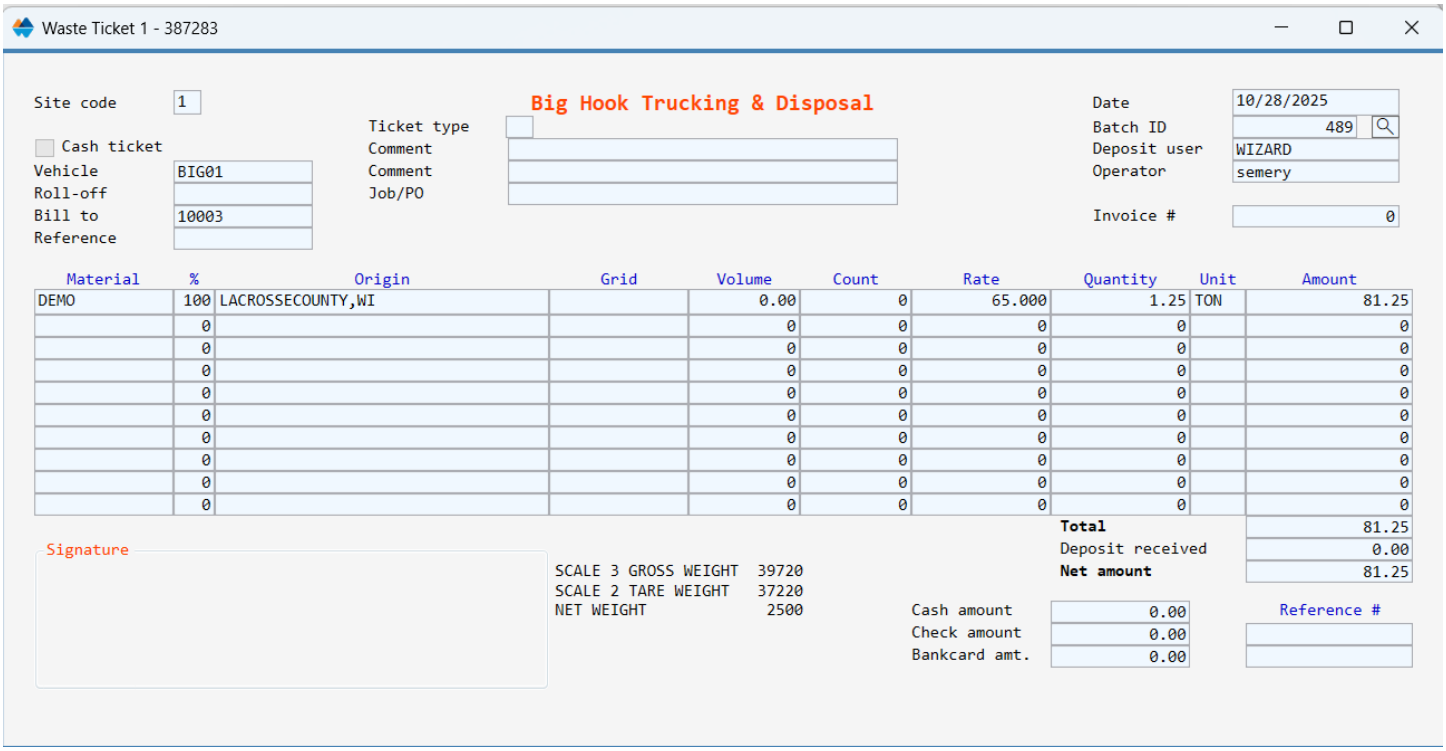
Attachments to be included: Scale ticket (1) and photos (2)

Load Inspection Photo #1



Load Inspection Photo #2




Waste Ticket 1 - 387283
Site code 1
Big Hook Trucking & Disposal
Cash ticket
Vehicle BIG01
Roll-off
Bill to 10003
Reference
Ticket type
Comment
Comment
Job/PO
Date 10/28/2025
Batch ID 489
Deposit user WIZARD
Operator semery
Invoice # 0
Material % Origin Grid Volume Count Rate Quantity Unit Amount
DEMO 100 LACROSSECOUNTY,WI 0.00 0 65.000 1.25 TON 81.25
Total 81.25
Deposit received 0.00
Net amount 81.25
Signature
SCALE 3 GROSS WEIGHT 39720
SCALE 2 TARE WEIGHT 37220
NET WEIGHT 2500
Cash amount 0.00
Check amount 0.00
Bankcard amt. 0.00
Reference #

# La Crosse County Waste Inspection Reporting Form

Date: 10/31/2025 Time: 12:00 pm Inspected by: Jackie Davis

---

Hauler: Hilltopper Refuse & Recycling

Truck Number: 65

WDNR License Number: 13066

Vehicle License Number: JB15401

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 (2)

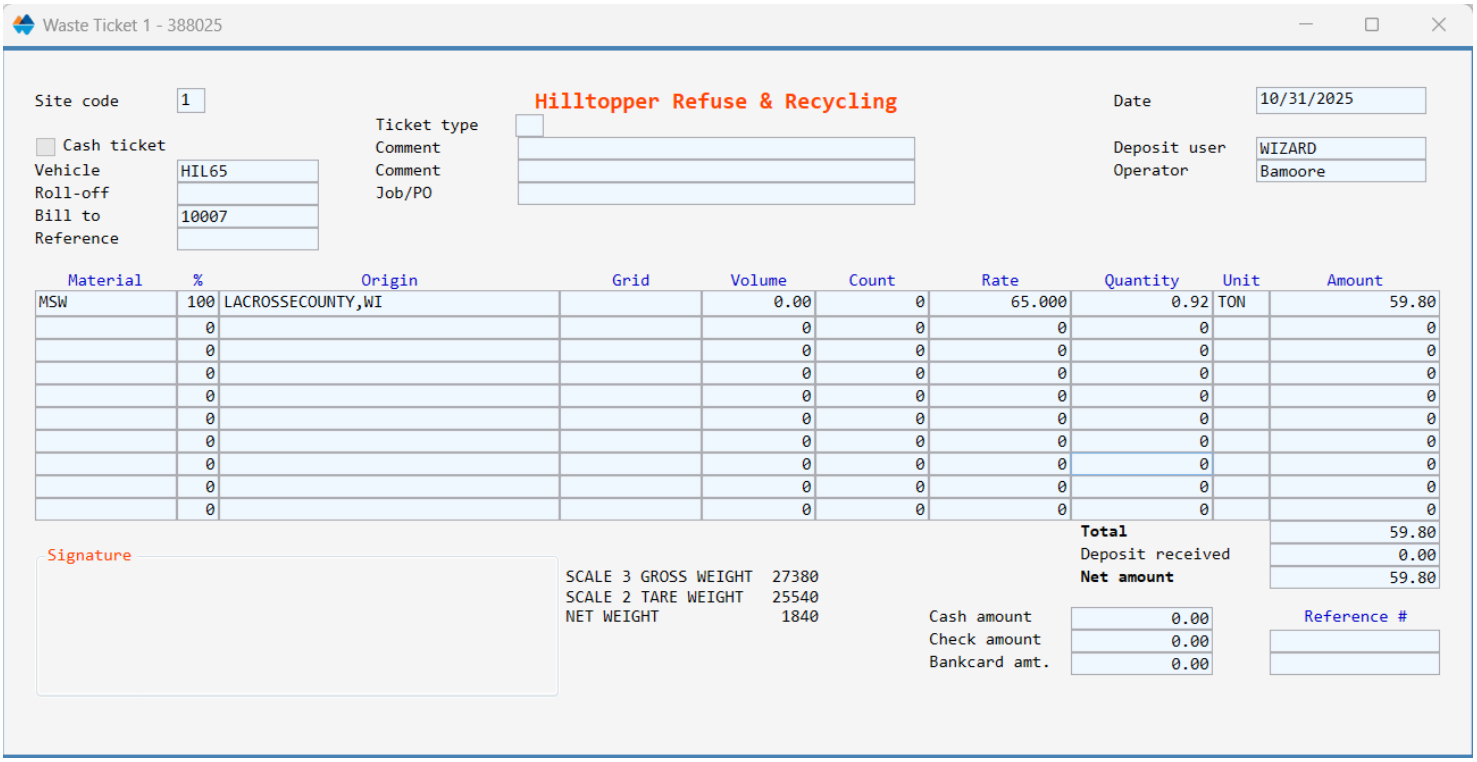
Load Inspection Photo #1



Load Inspection Photo #2



Scale Ticket



# La Crosse County Waste Inspection Reporting Form

Date: 11/26/2025 Time: 2:05 pm Inspected by: Jackie Davis

---

Hauler: Richard's Sanitation

Truck Number: 52

WDNR License Number: 13629

Vehicle License Number: 3262PRB

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 (2)

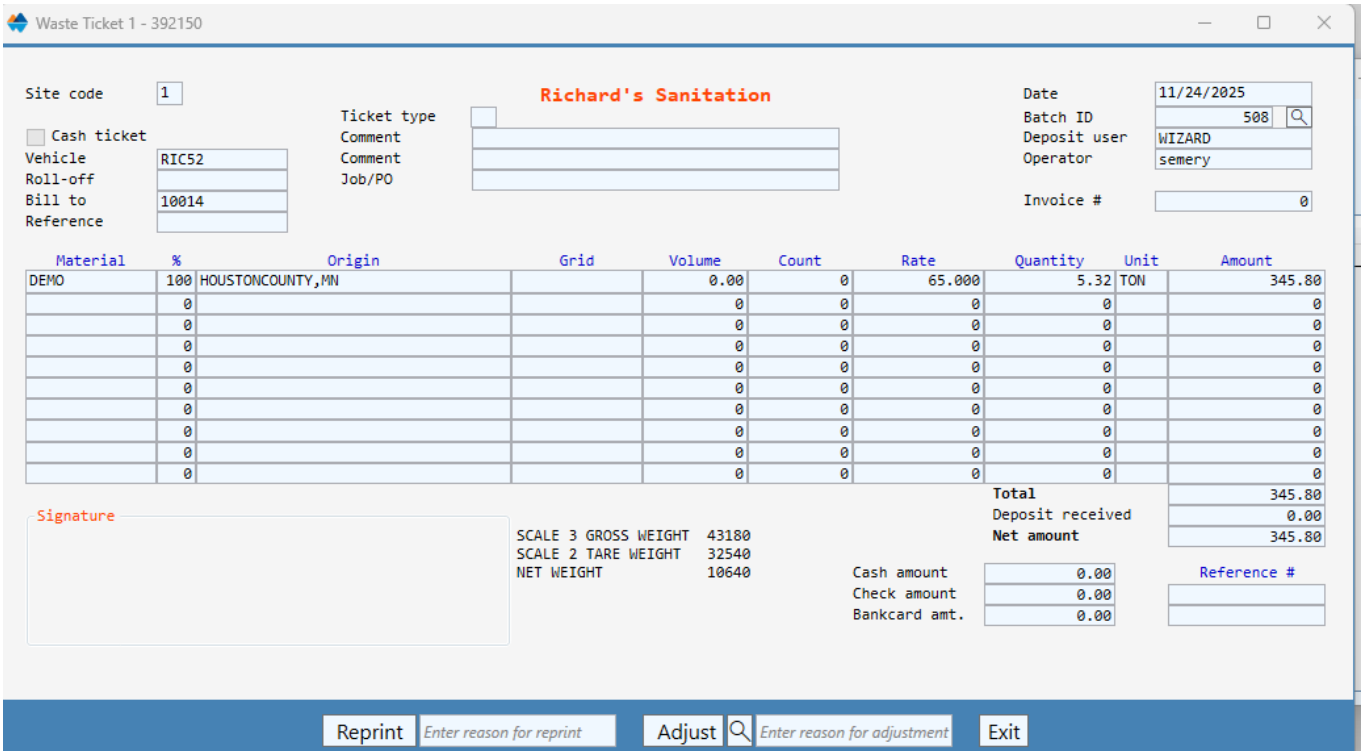
Load Inspection #1



Load Inspection #2



Scale Ticket



# La Crosse County Waste Inspection Reporting Form

Date: 11/28/2025 Time: 11:00 am Inspected by: Jackie Davis

---

Hauler: Harter's Trash and Recycling

Truck Number: 13

WDNR License Number: 13521

Vehicle License Number: SB15248

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? Click or tap here to enter text.

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 (2)

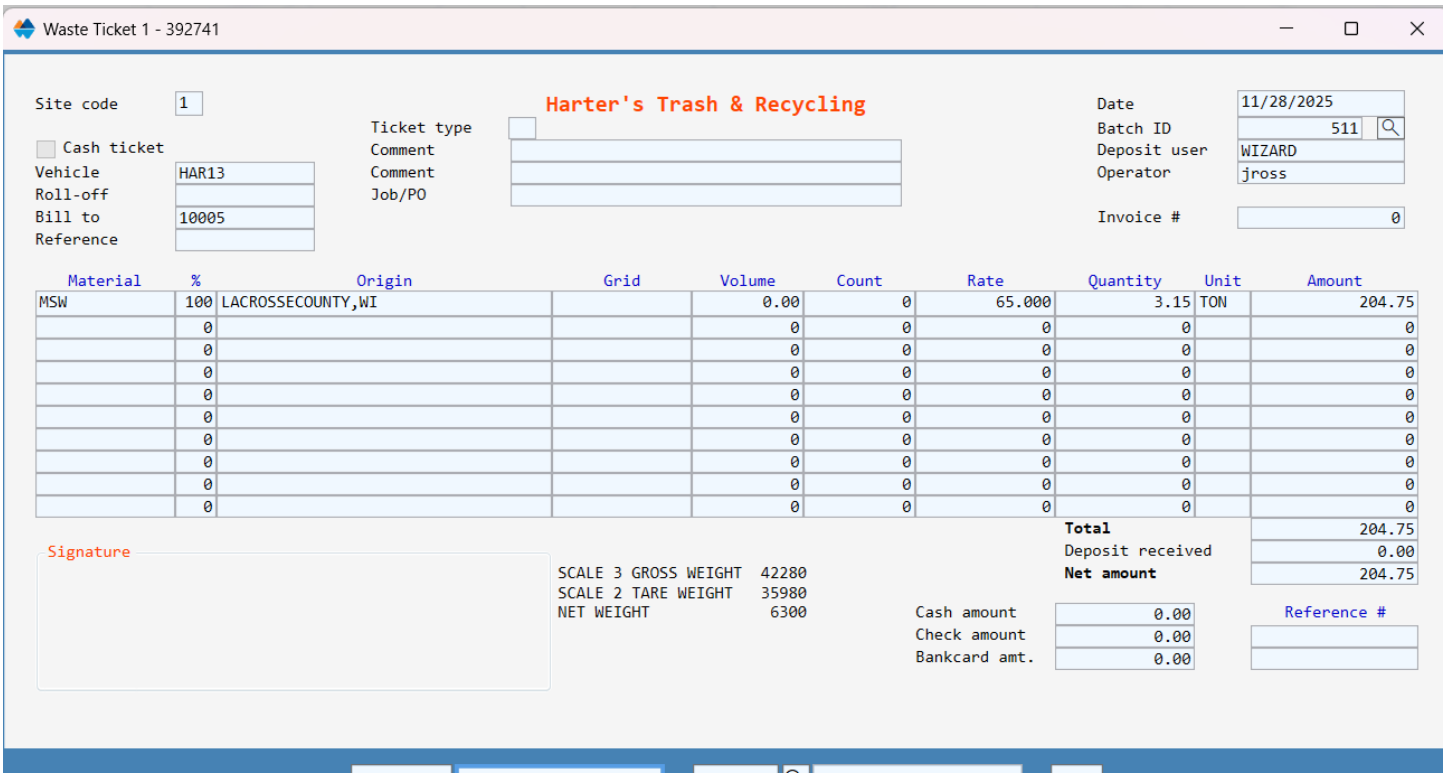
Load Inspection Photo #1



Load Inspection #2



Scale Ticket:



# La Crosse County Waste Inspection Reporting Form

Date: 12/24/2025 Time: 1:35 PM Inspected by: Jackie Davis

---

Hauler: Always Affordable Container LLC

Truck Number: 2

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.

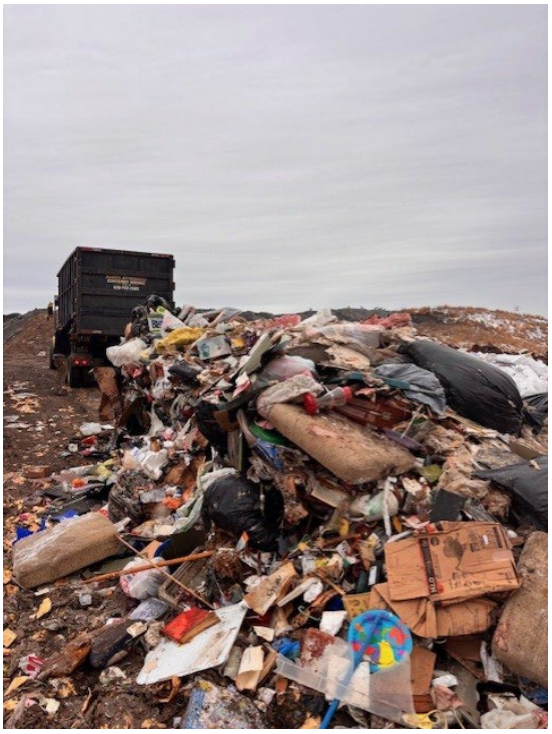
The DNR La Crosse office shall be notified in writing within 15 days of discovery of Hazardous or Toxic Wastes. The notice shall identify the unacceptable waste, the source, and the destination.

Attachments to be included: Scale ticket (1) and photos (2)

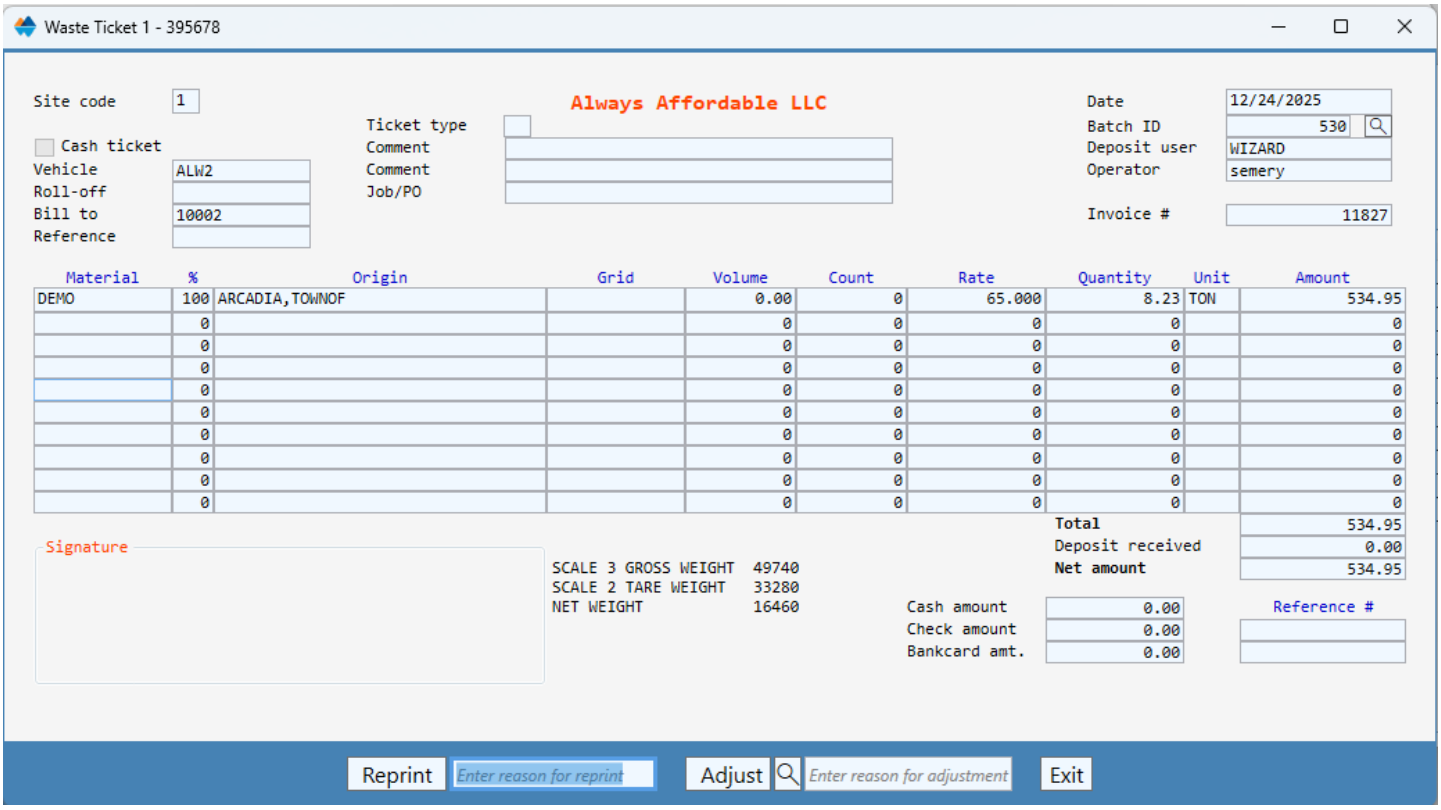
Load Inspection #1



Load Inspection #2



Scale Ticket



# La Crosse County Waste Inspection Reporting Form

Date: 12/31/2025 Time: 9:27 AM Inspected by: Jackie Davis

---

Hauler: Hilltopper Refuse & Recycling

Truck Number: 52

WDNR License Number: 13066

Vehicle License Number: NB4940

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 (2)

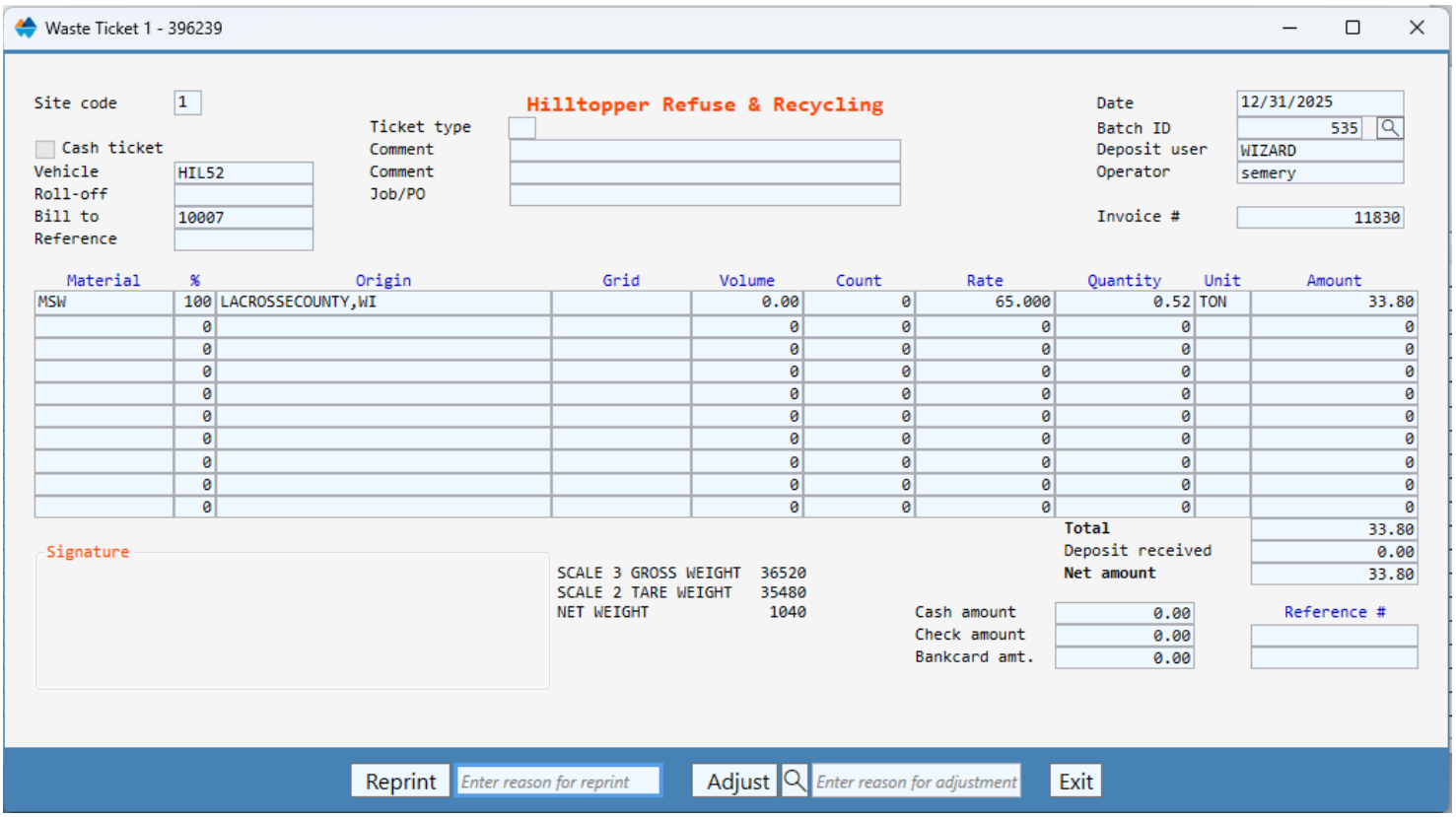
Load Inspection Photo #1



Load Inspection Photo #2



Scale Ticket



# 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**
**2025 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 | 2,715.91 | 1,480.45 | 58.02 | 0.00 | 1,720.80 | 280.36 | 1,609.58 | 7,865.12 | 966.04 | 8,831.16 | 146.53 |
| FEBRUARY | 3,919.66 | 1,283.42 | 41.20 | 51.79 | 1,212.80 | 197.17 | 3,293.16 | 9,999.20 | 711.43 | 10,710.63 | 169.19 |
| MARCH | 2,636.60 | 2,759.16 | 43.55 | 0.00 | 1,375.50 | 249.66 | 2,143.38 | 9,207.85 | 874.09 | 10,081.94 | 402.98 |
| APRIL | 3,370.57 | 3,288.09 | 47.22 | 0.00 | 1,844.60 | 274.37 | 2,401.76 | 11,226.61 | 1,174.10 | 12,400.71 | 933.93 |
| MAY | 3,331.03 | 3,096.86 | 81.69 | 0.00 | 1,650.50 | 228.04 | 1,689.83 | 10,077.95 | 1,118.55 | 11,196.50 | 1,012.71 |
| JUNE | 3,407.53 | 3,932.27 | 67.84 | 0.00 | 1,475.70 | 265.78 | 2,634.13 | 11,783.25 | 1,004.07 | 12,787.32 | 973.13 |
| JULY | 3,418.83 | 3,236.59 | 80.65 | 0.00 | 2,283.50 | 284.13 | 1,392.98 | 10,696.68 | 998.62 | 11,695.30 | 1,004.59 |
| AUGUST | 3,735.66 | 2,951.16 | 79.64 | 0.00 | 1,611.60 | 414.10 | 1,861.07 | 10,653.23 | 960.08 | 11,613.31 | 821.22 |
| SEPTEMBER | 3,695.20 | 3,367.55 | 79.40 | 0.00 | 1,963.50 | 230.17 | 1,376.35 | 10,712.17 | 898.79 | 11,610.96 | 743.91 |
| OCTOBER | 4,044.73 | 3,302.02 | 82.17 | 0.00 | 1,635.50 | 310.01 | 1,620.24 | 10,994.67 | 1,032.21 | 12,026.88 | 717.23 |
| NOVEMBER | 3,100.64 | 2,094.70 | 62.20 | 0.00 | 1,225.70 | 376.61 | 1,252.51 | 8,112.36 | 834.18 | 8,946.54 | 390.79 |
| DECEMBER | 3,615.25 | 1,708.69 | 49.00 | 0.00 | 1,686.30 | 314.86 | 1,234.72 | 8,608.82 | 876.07 | 9,484.89 | 250.26 |
| **Actual YTD Tonnage** | 40,991.61 | 32,500.96 | 772.58 | 51.79 | 19,686.00 | 3,425.26 | 22,509.71 | **119,937.91** | **11,448.23** | **131,386.14** | **7,566.47** |
| % MSW Landfill | 34.18% | 27.10% | 0.64% | 0.04% | 16.41% | 2.86% | 18.77% | **100.00%** | | | |
| % Combined Landfills | 31.20% | 24.74% | 0.59% | 0.04% | 14.98% | 2.61% | 17.13% | 91.29% | 8.71% | **100.00%** | |
| YTD Cubic Yards | 61487.42 | 48751.44 | 1158.87 | 77.69 | 29529.00 | 2534.69 | | | 8,471.69 | **Cover Ratio 10.73:1 or 9.32%** | |

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

**La Crosse County Landfill**
**2025 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 | 7.87 | 406.29 | 4.26 | 0.87 | 5.13 | 64.93 | 118.11 | 22.06 | 72.86 | 0.00 | 912.33 | 0.00 | 1,609.58 |
| FEBRUARY | 7.32 | 1,048.20 | 0.21 | 15.89 | 16.10 | 54.56 | 186.96 | 20.23 | 1,047.77 | 0.00 | 912.02 | 0.00 | 3,293.16 |
| MARCH | 7.94 | 380.52 | 5.55 | 3.50 | 9.05 | 42.88 | 162.81 | 27.61 | 29.41 | 332.22 | 1,150.18 | 0.76 | 2,143.38 |
| APRIL | 3.65 | 331.40 | 2.53 | 13.13 | 15.66 | 59.45 | 207.09 | 230.23 | 59.57 | 624.87 | 869.84 | 0.00 | 2,401.76 |
| MAY | 6.03 | 0.00 | 6.26 | 7.19 | 13.45 | 61.68 | 206.65 | 124.28 | 0.00 | 126.85 | 1,121.20 | 29.69 | 1,689.83 |
| JUNE | 0.00 | 2.95 | 27.53 | 33.80 | 61.33 | 58.88 | 160.32 | 7.92 | 1,182.46 | 233.77 | 908.83 | 17.67 | 2,634.13 |
| JULY | 4.62 | 25.30 | 25.38 | 38.46 | 63.84 | 31.85 | 136.31 | 10.69 | 145.40 | 106.51 | 866.01 | 2.45 | 1,392.98 |
| AUGUST | 5.02 | 383.95 | 10.39 | 93.74 | 104.13 | 50.28 | 165.22 | 9.93 | 28.64 | 195.30 | 918.60 | 0.00 | 1,861.07 |
| SEPTEMBER | 0.00 | 0.00 | 8.35 | 26.12 | 34.47 | 40.65 | 140.34 | 11.68 | 111.30 | 135.64 | 820.42 | 81.85 | 1,376.35 |
| OCTOBER | 4.48 | 0.00 | 35.68 | 17.78 | 53.46 | 50.40 | 332.48 | 9.96 | 34.78 | 93.25 | 1,041.43 | 0.00 | 1,620.24 |
| NOVEMBER | 8.17 | 0.00 | 24.55 | 9.21 | 33.76 | 35.91 | 182.74 | 10.61 | 14.71 | 28.44 | 929.12 | 9.05 | 1,252.51 |
| DECEMBER | 10.57 | 0.00 | 43.6 | 5.93 | 49.53 | 17.23 | 254.14 | 8.36 | 11.27 | 0.00 | 883.62 | 0.00 | 1,234.72 |
| **Actual YTD Tonnage** | 65.67 | 2,578.61 | 194.29 | 265.62 | 459.91 | 568.70 | 2,253.17 | 493.56 | 2,738.17 | 1,876.85 | 11,333.60 | 141.47 | **22,509.71** |
| % Special Waste | 0.29% | 11.46% | 0.86% | 1.18% | | 2.53% | 10.01% | 2.19% | 12.16% | 8.34% | 50.35% | 0.63% | **100%** |
| | | % Asbestos | 42% | 58% | 100% | | | | | | | | |
| YTD Cubic Yards | 48.60 | 3,867.92 | 291.44 | 398.43 | | 853.05 | 3,379.76 | 365.23 | 2,026.25 | 1,388.87 | 8,386.86 | 104.69 | |

DC=Daily Cover

# C-2 – ADC Testing Data

# La Crosse County Landfill
# Application for Special Waste Disposal

Generator Address is for the Correctional Facility. Can be updated next application. JD 12/19/25

## PART A: WASTE GENERATOR INFORMATION

1. Generator Name A1 Precision Pumping
2. Generator Mailing Address 7575butterfield Valley Rd Hokah MN 55941
3. Facility Address (site of waste generation) 7575 Butterfield Valley Rd
4. Generator City Hokah
5. Generator State/Zip 55941
6. General Contact Person Chase Munson
   Phone # and email 608 790 6615
7. Technical Contact Person Chase Munson
   Phone # and email 608 790 6615 chase@a1precisionpumping.com

---

1. Name of Waste Carwash grit
2. Process Generating Waste carwash
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____ 4.1-7.0X____ 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 |
|---|---|
| | ____ 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 Davy labs
11. Date of Analysis 10/27/2025

## PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes X_____No
Tank interiors _____Yes X_____No
Vehicle types passenger

## PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck _____Dump Truck
   _____Roll-off _____Other Pump truck

2. Waste Quantity/Units _____

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency when needed quarterly?

3. Hauler Name and Address A1 Precision Pumping Inc
   7575 Butterfield Valley Rd
   Hokah, MN 55941

4. Bill to Name and Address A1 Precision Pumping Inc
   7575 Butterfield Valley Rd
   Hokah, MN 55941 ap@a1precisionpumping.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 Chase Munson _____

10. Title President _____

11. Name (Type or print) Chase Munson _____

12. Date 10/29/2025 _____

**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

A1 Precision Pumping, Inc
Attn: Chase Munson
7575 Butterfield Valley Rd
Hokah, MN 55941

Date: October 28, 2025
Client No: 11476

Sample No: 25J0273-01
Sample Site: Car Wash Grit

Date Collected: 08-Oct-25 13:00

Date Received: 09-Oct-25 05:44

| Parameter | Result Wet Wt. | Result Dry Wt. | Units | LOD Wet Wt. | LOQ/RL Wet Wt. | Dilution | Prepared | Analyzed | Method | Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted** | | | | | | | | | | |
| Particle Size Distribution (Sieve) | **28** | **28** | **% passing** | | | 1 | 13-Oct-25 09:02 | 13-Oct-25 09:02 | ASTM D421-85 | Sub-5 |

Submitted by:

Davy Laboratories

*Cody A. Ritchie*

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

**DAVY LABORATORIES**
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Division of Davy Engineering Co.

# LABORATORY ANALYSIS REPORT

A1 Precision Pumping, Inc
Attn: Chase Munson
7575 Butterfield Valley Rd
Hokah, MN 55941

Date: October 28, 2025
Client No: 11476

## 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 analayst. | |
| Residual Chlorine absent checked by the analyst unless noted above. | |

## Case Narrative

**DAVY LABORATORIES**
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La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

Division of Davy Engineering Co.

# LABORATORY ANALYSIS REPORT

A1 Precision Pumping, Inc
Attn: Chase Munson
7575 Butterfield Valley Rd
Hokah, MN 55941

Date: October 28, 2025
Client No: 11476

# 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.
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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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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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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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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<br>Leachate Method/Date: EPA 1311; 10/09/24 14:36<br>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<br>Leachate Method/Date: EPA 1311; 10/09/24 14:36<br>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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## 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<br>Leachate Method/Date: EPA 1311; 10/14/24 13:05<br>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<br>Leachate Method/Date: EPA 1311; 10/14/24 13:05<br>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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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<br>Leachate Method/Date: EPA 1311; 10/09/24 14:36<br>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<br>Leachate Method/Date: EPA 1311; 10/09/24 14:36<br>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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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<br>Leachate Method/Date: EPA 1311; 10/09/24 14:36<br>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<br>Leachate Method/Date: EPA 1311; 10/09/24 14:36<br>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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# 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

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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

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

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# 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

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.
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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 12/6/23 - 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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# 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

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

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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 Site: 2
Sample Collected: 04-Dec-23 09:25
Sample Received: 07-Dec-23 09:52

| 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

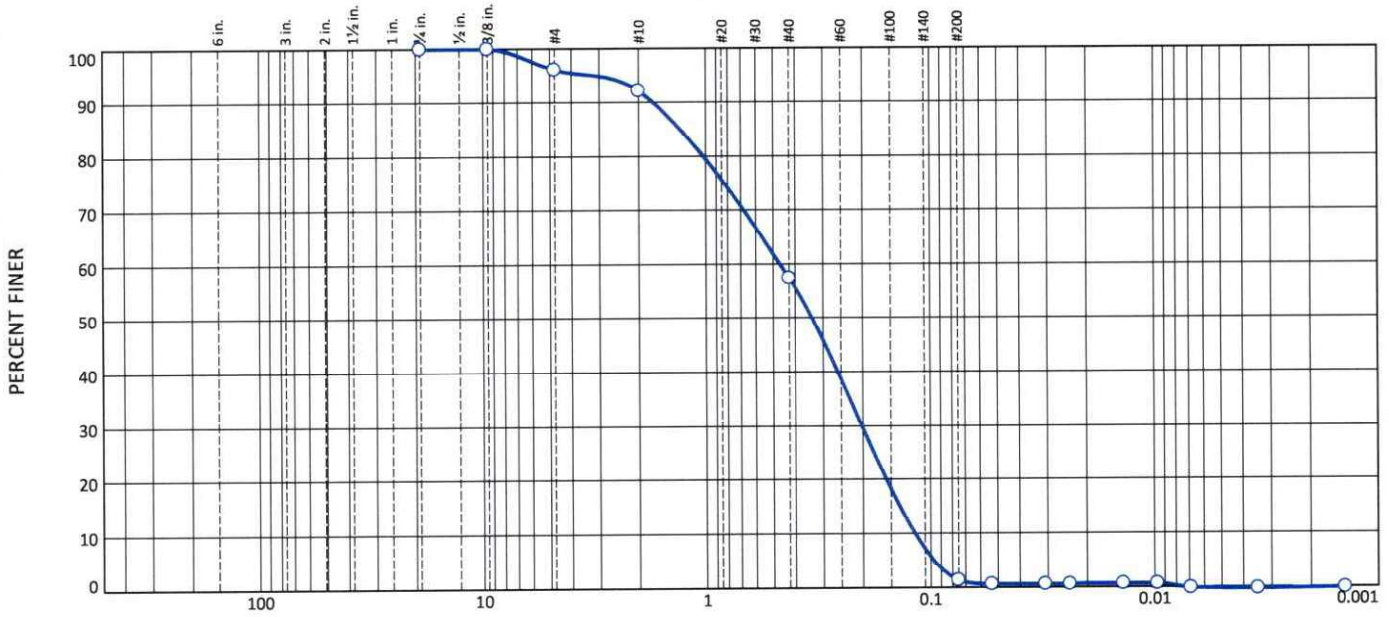
La Crosse, City of
Attn: Claire Jablonski
905 Joseph Houska Dr.
La Crosse, WI 54601

Date: December 27, 2023
Client No: 00760

| | |
|---|---|
| Preservation of FOG samples checked by the analyst.<br>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.**

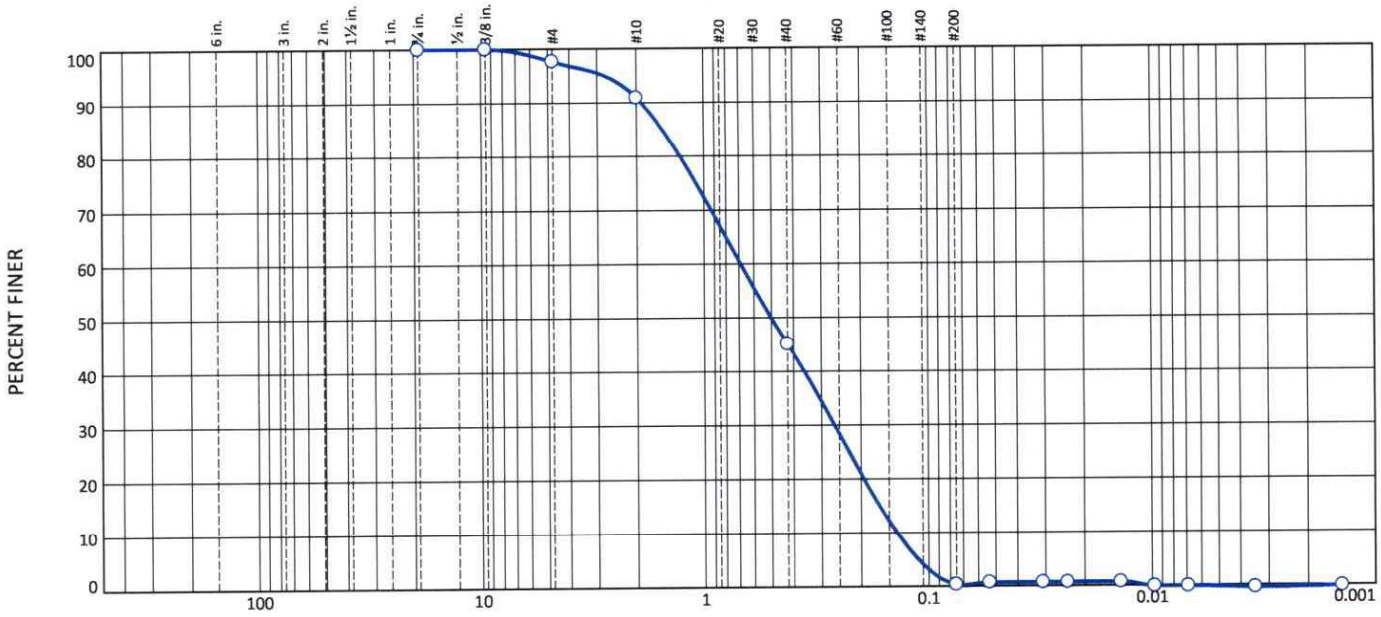
**Wausau, WI**

**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) 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

**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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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: 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

# 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 |

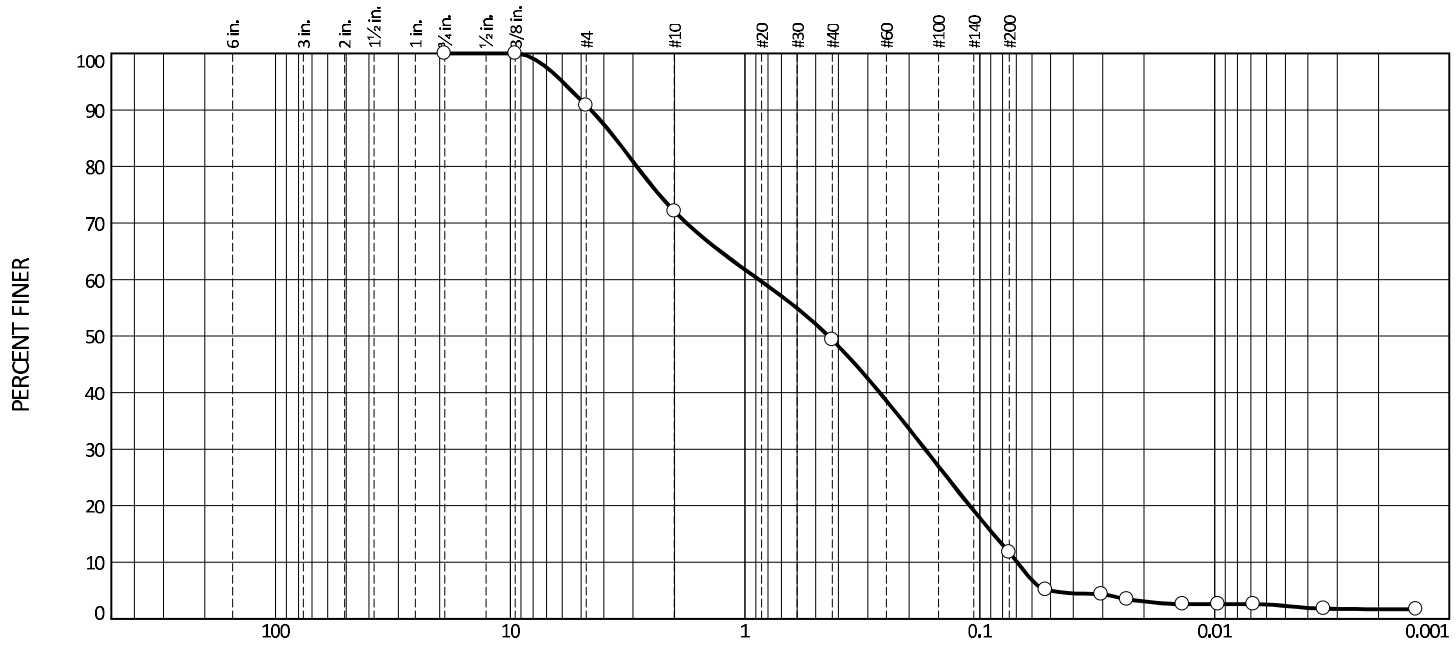
Dear Mr. Szymanski:

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 4/12/24 1154

Ambient

# La Crosse County Landfill
# Application for Special Waste Disposal

## PART A: WASTE GENERATOR INFORMATION

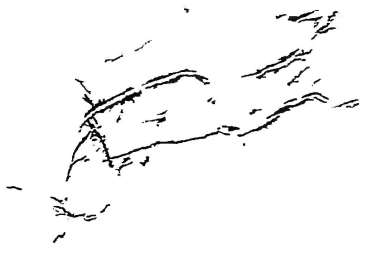
1. Generator Name City of Onalaska
2. Generator Mailing Address 415 Main St. Onalaska, WI 54650
3. Facility Address (site of waste generation) 252 Mason St.
4. Generator City Onalaska
5. Generator State/Zip WI, 54650
6. General Contact Person John Wiatt
   Phone # and email 608-780-8848 jwiatt@onalaskawi.gov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

**DAVY LABORATORIES**
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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

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

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 #5 - 9/19/2024

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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

## 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

Division of Davy Engineering Co.

# 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.<br>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 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 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 Dirk Swanson

10. Title President

11. Name (Type or print) Dirk Swanson

12. Date 8/12/24

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.

**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

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

## 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<br>Leachate Method/Date: EPA 1311; 07/17/24 15:01<br>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<br>Leachate Method/Date: EPA 1311; 07/17/24 15:01<br>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 | |

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(920)469-2436

## 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 | |

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# 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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## 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 | | 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: Page 13 of 15 of: 1

| | | |
|---|---|---|
| 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 | | | | | | | 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 | | | | | | | | | | | | | | | | | | | | 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

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

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

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. |
| 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**

# 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

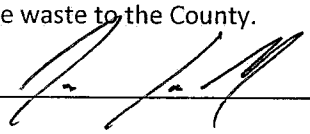
4. Bill to Name and Address Attn: Amy Braun, La Crosse County Highway Dept
   301 Carlson Road, West Salem, WI 54669

**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

Division of Davy Engineering Co.

# 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

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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

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Division of Davy Engineering Co.

# 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 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

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# 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

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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.<br>Preservation of FOG samples checked by the analyst.<br>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 Property Cleaning Systems
2. Generator Mailing Address N5880 LEHMAN RD WEST SALEM, WI 54669
3. Facility Address (site of waste generation) N588 0LEHMAN 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/A X
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 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 [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 P.C.S Sweeping
11. Name (Type or print) Jerry Ball P.C.S
12. Date 5/16/23

# Transmittal 1



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

**Client:**

Property Cleaning Systems, Inc.
N5880 Lehman Road
West Salem, WI 54669

**Project:**

B2505529
Street Sweeping Waste Testing
N5880 Lehman Drive
West Salem, WI 54669

**Table of Contents**


| Title | Description |
|---|---|
| 200 Sieve Loss By Washing | 2025-06-17 - 661864 |


**Distribution List**

| Name | Company |
|---|---|
| Ball, Jerry | Property Cleaning Systems, Inc. |
| Sullivan, Benjamin | Braun Intertec Corporation |

BRAUN INTERTEC
The Science You Build On.

# 200 Sieve Loss By Washing

**ASTM D1140**

**Report Date:** 06/19/2025

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

**Client:**

Property Cleaning Systems, Inc.
N5880 Lehman Road
West Salem, WI 54669

**Project:**

B2505529
Street Sweeping Waste Testing
N5880 Lehman Drive
West Salem, WI 54669

## Sample Information

| | | | |
|---|---|---|---|
| **Sample Number:** | 661864 | **Source:** | |
| **Sampling Method:** | Not Provided | **Sampled By:** | Client |
| **Location:** | Not Given | | |
| **Location Details:** | Street sweeping waste sample | | |
| **Specification:** | For Informational Purposes Only | | |
| **Sample Date:** | 06/16/2025 | **Material:** | Not Given |
| **Received Date:** | 06/16/2025 | **Lab:** | 2309 Palace Street, La Crosse, WI |
| **Tested Date:** | 06/19/2025 | **Tested By:** | Strub, Alan |

## Laboratory Data

| | | | |
|---|---|---|---|
| **Loss By Washing (%):** | 4 | **Method Used:** | Method A Soak In Water |
| **Maximum Particle Size:** | 75 mm (3 inch) to 4.75 mm (No. 4) | **Soaking Time (min):** | 30 |
| **Moisture Content (%):** | 27.90 | | |

## General

**Results:** The test is for informational purposes.

Benjamin Sullivan 06/19/2025

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 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 Wis/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 12-22-2024

## 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 _____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

4. Bill to Name and Address _____

**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 ___Kirk Hackbarth_____/____Solid Waste 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 Corey Yonkovich

10. Title EHS Specialist

11. Name (Type or print) Corey Yonkovich

12. Date 10-20-2025

**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

Torrance Casting
Attn: Corey Yonkovich
3131 Commerce St
La Crosse, WI 54603

Date: December 08, 2025
Client No: 11634

Sample No: 25K0578-01
Sample Site: Torrance
Sample Collected: 25-Nov-25 09:30
Sample Received: 25-Nov-25 10:46

| Parameter | Result | Units | LOD | LOQ/RL | Dilution | Prepared | Analyzed | Method | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted** | | | | | | | | | |
| Particle Size Distribution (Sieve) | **6** | **% passing** | | | 1 | 02-Dec-25 22:00 | 02-Dec-25 22:00 | ASTM D421-85 | Sub-5 |

Submitted by:
Davy Laboratories

*Cody A. Ritchie*
Cody A. Ritchie, 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 #5 - 9/19/2024

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

# LABORATORY ANALYSIS REPORT

Torrance Casting
Attn: Corey Yonkovich
3131 Commerce St
La Crosse, WI 54603

Date: December 08, 2025
Client No: 11634

Sample No: 25K0578-02
Sample Site: Torrance
Sample Collected: 25-Nov-25 09:30
Sample Received: 25-Nov-25 10:46

| Parameter | Result | Units | LOD | LOQ/RL | Dilution | Prepared | Analyzed | Method | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted** | | | | | | | | | |
| Mercury, Total | **<0.00002** | **mg/L** | 0.00002 | 0.00008 | 1 | 02-Dec-25 17:10 | 04-Dec-25 10:58 | EPA 1311/EPA 7470A | Sub-5 |
| Arsenic, Total | **<0.1100** | **mg/L** | 0.1100 | 0.3700 | 1 | 02-Dec-25 17:10 | 03-Dec-25 14:47 | EPA 6010D 2014 | Sub-5 |
| Barium, Total | **0.9900** | **mg/L** | 0.0086 | 0.0290 | 1 | 02-Dec-25 17:10 | 03-Dec-25 14:47 | EPA 6010D 2014 | Sub-5 |
| Cadmium, Total | **<0.0074** | **mg/L** | 0.0074 | 0.0250 | 1 | 02-Dec-25 17:10 | 03-Dec-25 14:47 | EPA 6010D 2014 | Sub-5 |
| Chromium, Total | **<0.005** | **mg/L** | 0.005 | 0.0170 | 1 | 02-Dec-25 17:10 | 03-Dec-25 14:47 | EPA 6010D 2014 | Sub-5 |
| Lead, Total | **<0.0200** | **mg/L** | 0.0200 | 0.0670 | 1 | 02-Dec-25 17:10 | 03-Dec-25 14:47 | EPA 6010D 2014 | Sub-5 |
| Selenium, Total | **<0.2000** | **mg/L** | 0.2000 | 0.6700 | 1 | 02-Dec-25 17:10 | 03-Dec-25 14:47 | EPA 6010D 2014 | Sub-5 |
| Silver, Total | **<0.0079** | **mg/L** | 0.0079 | 0.0270 | 1 | 02-Dec-25 17:10 | 03-Dec-25 14:47 | EPA 6010D 2014 | Sub-5 |

**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

Torrance Casting
Attn: Corey Yonkovich
3131 Commerce St
La Crosse, WI 54603

Date: December 08, 2025
Client No: 11634

## 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 15.70 °C | |
| Received on Ice | Yes |
| 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

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

January 03, 2025

Corey Yonkovich
Torrance Casting, Inc.
3131 Commerce Street
La Crosse, WI 54603

RE: Project: SARA 313 METAL
Pace Project No.: 40289278

Dear Corey Yonkovich:

Enclosed are the analytical results for sample(s) received by the laboratory on December 27, 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,

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: SARA 313 METAL
Pace Project No.: 40289278

**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: SARA 313 METAL
Pace Project No.: 40289278

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **40289278001** | **2403681093** | Solid | 12/20/24 14:30 | 12/27/24 11:00 |
| **40289278002** | **2403681082** | Solid | 12/20/24 14:30 | 12/27/24 11:00 |
| **40289278003** | **2403681080** | Solid | 12/20/24 14:30 | 12/27/24 11:00 |

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## SAMPLE ANALYTE COUNT

Project: SARA 313 METAL
Pace Project No.: 40289278

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **40289278001** | **2403681093** | EPA 6010D | SIS | 5 |
| | | ASTM D2974-87 | NMK | 1 |
| **40289278002** | **2403681082** | EPA 6010D | SIS | 5 |
| | | ASTM D2974-87 | NMK | 1 |
| **40289278003** | **2403681080** | EPA 6010D | SIS | 5 |
| | | ASTM D2974-87 | NMK | 1 |

PASI-G = Pace Analytical Services - Green Bay

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## ANALYTICAL RESULTS

Project: SARA 313 METAL
Pace Project No.: 40289278

**Sample: 2403681093** **Lab ID: 40289278001** Collected: 12/20/24 14:30 Received: 12/27/24 11:00 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<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Chromium | **342** | mg/kg | 9.9 | 2.8 | 10 | 12/31/24 04:31 | 12/31/24 16:26 | 7440-47-3 | P6,R1 |
| Copper | **453** | mg/kg | 9.9 | 2.8 | 10 | 12/31/24 04:31 | 12/31/24 16:26 | 7440-50-8 | P6 |
| Lead | **<6.0** | mg/kg | 19.9 | 6.0 | 10 | 12/31/24 04:31 | 12/31/24 16:26 | 7439-92-1 | D3 |
| Manganese | **4520** | mg/kg | 49.7 | 18.7 | 100 | 12/31/24 04:31 | 12/31/24 16:18 | 7439-96-5 | P6,R1 |
| Nickel | **467** | mg/kg | 9.9 | 2.6 | 10 | 12/31/24 04:31 | 12/31/24 16:26 | 7440-02-0 | P6,R1 |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **0.14** | % | 0.10 | 0.10 | 1 | | 12/27/24 14:18 | | |

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## ANALYTICAL RESULTS

Project: SARA 313 METAL
Pace Project No.: 40289278

**Sample: 2403681082** **Lab ID: 40289278002** Collected: 12/20/24 14:30 Received: 12/27/24 11:00 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<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Chromium | **1500** | mg/kg | 18.4 | 5.1 | 20 | 12/31/24 04:31 | 12/31/24 16:33 | 7440-47-3 | |
| Copper | **3100** | mg/kg | 18.4 | 5.1 | 20 | 12/31/24 04:31 | 12/31/24 16:33 | 7440-50-8 | |
| Lead | **<11.0** | mg/kg | 36.8 | 11.0 | 20 | 12/31/24 04:31 | 12/31/24 16:33 | 7439-92-1 | D3 |
| Manganese | **4740** | mg/kg | 9.2 | 3.5 | 20 | 12/31/24 04:31 | 12/31/24 16:33 | 7439-96-5 | |
| Nickel | **942** | mg/kg | 18.4 | 4.9 | 20 | 12/31/24 04:31 | 12/31/24 16:33 | 7440-02-0 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **<0.10** | % | 0.10 | 0.10 | 1 | | 12/27/24 14:18 | | |

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## ANALYTICAL RESULTS

Project: SARA 313 METAL
Pace Project No.: 40289278

**Sample: 2403681080** **Lab ID: 40289278003** Collected: 12/20/24 14:30 Received: 12/27/24 11:00 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<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Chromium | **5.1** | mg/kg | 1.9 | 0.52 | 2 | 12/31/24 04:31 | 12/31/24 15:58 | 7440-47-3 | |
| Copper | **5.3** | mg/kg | 1.9 | 0.52 | 2 | 12/31/24 04:31 | 12/31/24 15:58 | 7440-50-8 | |
| Lead | **3.9** | mg/kg | 3.7 | 1.1 | 2 | 12/31/24 04:31 | 12/31/24 15:58 | 7439-92-1 | |
| Manganese | **103** | mg/kg | 0.93 | 0.35 | 2 | 12/31/24 04:31 | 12/31/24 15:58 | 7439-96-5 | |
| Nickel | **4.0** | mg/kg | 1.9 | 0.49 | 2 | 12/31/24 04:31 | 12/31/24 15:58 | 7440-02-0 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **2.5** | % | 0.10 | 0.10 | 1 | | 12/27/24 14:18 | | |

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# QUALITY CONTROL DATA

Project: SARA 313 METAL
Pace Project No.: 40289278

QC Batch: 493774
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40289278001, 40289278002, 40289278003

METHOD BLANK: 2825766 Matrix: Solid
Associated Lab Samples: 40289278001, 40289278002, 40289278003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Chromium | mg/kg | <0.28 | 1.0 | 12/31/24 15:43 | |
| Copper | mg/kg | <0.28 | 1.0 | 12/31/24 15:43 | |
| Lead | mg/kg | <0.60 | 2.0 | 12/31/24 15:43 | |
| Manganese | mg/kg | <0.19 | 0.50 | 12/31/24 15:43 | |
| Nickel | mg/kg | <0.26 | 1.0 | 12/31/24 15:43 | |

LABORATORY CONTROL SAMPLE: 2825767

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chromium | mg/kg | 25 | 24.8 | 99 | 80-120 | |
| Copper | mg/kg | 25 | 25.2 | 101 | 80-120 | |
| Lead | mg/kg | 25 | 25.8 | 103 | 80-120 | |
| Manganese | mg/kg | 25 | 25.3 | 101 | 80-120 | |
| Nickel | mg/kg | 25 | 25.5 | 102 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2825768 2825769

| Parameter | Units | 40289278001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium | mg/kg | 342 | 24.9 | 24.9 | 352 | 489 | 39 | 591 | 75-125 | 33 | 20 | P6,R1 |
| Copper | mg/kg | 453 | 24.9 | 24.9 | 447 | 528 | -23 | 300 | 75-125 | 17 | 20 | P6 |
| Lead | mg/kg | <6.0 | 24.9 | 24.9 | 32.0 | 31.0 | 121 | 116 | 75-125 | 3 | 20 | |
| Manganese | mg/kg | 4520 | 24.9 | 24.9 | 5470 | 2800 | 3800 | -6920 | 75-125 | 64 | 20 | P6,R1 |
| Nickel | mg/kg | 467 | 24.9 | 24.9 | 382 | 666 | -340 | 802 | 75-125 | 54 | 20 | P6,R1 |

**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: SARA 313 METAL
Pace Project No.: 40289278

QC Batch: 493730
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: 40289278001, 40289278002, 40289278003

SAMPLE DUPLICATE: 2825618

| Parameter | Units | 40289272002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 14.1 | 14.1 | 0 | 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: SARA 313 METAL
Pace Project No.: 40289278

## 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.

## WORKORDER QUALIFIERS

WO: 40289278

| | |
|---|---|
| [1] | Samples received without ice (10.5 degrees C). |

## ANALYTE QUALIFIERS

| | |
|---|---|
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| P6 | Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level. |
| R1 | RPD value was outside control limits. |



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SARA 313 METAL
Pace Project No.: 40289278

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **40289278001** | **2403681093** | EPA 3050B | 493774 | EPA 6010D | 493925 |
| **40289278002** | **2403681082** | EPA 3050B | 493774 | EPA 6010D | 493925 |
| **40289278003** | **2403681080** | EPA 3050B | 493774 | EPA 6010D | 493925 |
| **40289278001** | **2403681093** | ASTM D2974-87 | 493730 | | |
| **40289278002** | **2403681082** | ASTM D2974-87 | 493730 | | |
| **40289278003** | **2403681080** | ASTM D2974-87 | 493730 | | |



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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: 40289278

**ALL SHADED AREAS are for LAB USE ONLY**

| | |
|---|---|
| Company: TORRANCE CASTING | Billing Information: TORRANCE Castings 3131 COMMERENCE ST. 54603 |
| Address: 3131 COMMERCE, ST, La Crosse | La Crosse WI, ~~54603~~ |
| Report To: Corey YonKovich | Email To: CSY @ TORRANCE casting. com |
| Copy To: | Site Collection Info/Address: 3131 COMMERENCE ST |
| Customer Project Name/Number: SARA 313 METH | State: WI County/City: La Crosse Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET |
| Phone: (608) 781-0600 Email: CSY@TORRANCECASTING.COM | Site/Facility ID #: |
| Collected By (print): Corey YonKovich | Purchase Order #: Quote #: |
| Collected By (signature): Corey Yonkovich | 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) |

| | |
|---|---|
| Compliance Monitoring? [ ] Yes [ ] No | |
| DW PWS ID #: DW Location Code: | |
| Immediately Packed on Ice: [✓] Yes [ ] No | |
| Field Filtered (if applicable): [ ] Yes [✓] No Analysis: _____ | |

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 _____

* 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: (6) 6010D MET ICP | Analyses: % Moisture | Lab Profile/Line: Lab Sample # / Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~240368 1093~~ | | | | | | | | | | | |
| 240368 1093 | SL | Grab | 12-20 | 1430 | | | | | X | X | 001 |
| 240368 1082 | SL | Grab | 12-20 | 1430 | | | | | X | X | 002 |
| 240368 1080 | SL | Grab | 12-20 | 1430 | | | | | X | X | 003 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

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: _____ | SEC |
| Sample pH Acceptable | Y N NA |
| pH Strips: _____ | SCR |
| Sulfide Present | Y N NA |
| Lead Acetate Strips: _____ | |

LAB USE ONLY: Lab Sample # / Comments: GA 12/27/24

Customer Remarks / Special Conditions / Possible Hazards: (2) Analysis added from paperwork by lab GA 12/27/24

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 #: 2946764

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: (7) oC

Comments:

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |
|---|---|---|---|
| Corey Yonkovich - Torrance Casting | 12-23-24 | | |
| UPS | 12/27/24 1100 | E Jel pace | 12/27/24 1100 |
| | | | |

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

TORRANCE CASTING
est. 1876 La Crosse, WI

TORRANCE CASTING, INC.
3131 COMMERCE STREET
LA CROSSE, WI 54603-1756

P: 608-781-0600
F: 608-781-2333

www.torrancecasting.com

40289278

# Purchase Order

**Supplier - V00983**

**PACE ANALYTICAL SERVICES, INC.**

**BOX 684056**
**CHICAGO, IL 60695-4056**
**US**

Order Number **202401769**
Order Date 12/23/2024


Phone: 612/607-1700 Fax:

**Ship To**

**TORRANCE CASTING, INC.**
**3131 COMMERCE STREET**
**LA CROSSE, WI 54603-1756**
**US**

**Bill To**

**TORRANCE CASTING, INC.**
**3131 COMMERCE STREET**
**LA CROSSE, WI 54603-1756**
**US**

| Attention | Requested By |
|---|---|
| | CSY |

| Payment Terms | Freight Terms | Carrier |
|---|---|---|
| NET 30 | NOT APPLICABLE | Self |

| Line | Order Qty | Part Number | Due Date | Taxable | Price (USD) | UM | Total (USD) |
|---|---|---|---|---|---|---|---|
| 01 | 1 | Enviromental Impact Fee<br>Account Number: 54201411 | 12/23/2024 | | 30.00 | EA | $30.00 |

| Line | Order Qty | Part Number | Due Date | Taxable | Price (USD) | UM | Total (USD) |
|---|---|---|---|---|---|---|---|
| 02 | 3 | Disposal Fee<br>Account Number: 54201411 | 12/23/2024 | | 7.00 | EA | $21.00 |

| Line | Order Qty | Part Number | Due Date | Taxable | Price (USD) | UM | Total (USD) |
|---|---|---|---|---|---|---|---|
| 03 | 3 | 6010 Metals (5 Metals)<br>Account Number: 54201411 | 12/23/2024 | | 75.00 | EA | $225.00 |

| Line | Order Qty | Part Number | Due Date | Taxable | Price (USD) | UM | Total (USD) |
|---|---|---|---|---|---|---|---|
| 04 | 3 | Metals Digestion<br>Account Number: 54201411 | 12/23/2024 | | 6.00 | EA | $18.00 |

| Line | Order Qty | Part Number | Due Date | Taxable | Price (USD) | UM | Total (USD) |
|---|---|---|---|---|---|---|---|
| 05 | 3 | Dry Weight<br>Account Number: 54201411 | 12/23/2024 | | 8.00 | EA | $24.00 |

**Purchase Order Total (USD)** $318.00

**** WE MUST BE NOTIFIED OF ANY CHANGE IN PRICING BEFORE PROCESSING, IF AN INCREASE IS TO BE HONORED. ****

**SIGNATURE**



frmPO20231023

# Sample Preservation Receipt Form

Client Name: Torrance Casting  Project # 402892278

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 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2.5 / 5 |
| 002 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2.5 / 5 |
| 003 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 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 |

CC 12/27/24

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 | 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#: 40289278

40289278

**Client Name:** Torrance Casting

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

**Tracking #:** 1Z584973030081821 5

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

**Cooler Temperature** Uncorr: 10.0 /Corr: 10.5

**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: 12/27/24 Initials: GA
Labeled By Initials: NR

| | | |
|---|---|---|
| Chain of Custody Present: | ☑Yes ☐No ☐N/A | 1. |
| Chain of Custody Filled Out: | ☐Yes ☑No ☐N/A | 2. Analysis, Pg#, PresType GA 12/27/24 |
| 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: Correct Type: Pace Green Bay, Pace IR, Non-Pace | ☑Yes ☐No | 9. |
| 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: Sample received on ND ice. GA 12/27/24

**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 _____

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 Collected: 26-Feb-24 10:45 Sample Received: 26-Feb-24 11:43
Sample Site: Shop

| 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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# 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

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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

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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

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# 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 10, 2025

Ms. Kelly Carlson – Non-landfill Waste Management Specialist
Wisconsin Department of Natural Resources
Eau Claire Service Center
1300 W Clairemont Ave
Eau Claire, WI 54701-6127

**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 2024**

Ms. Carlson:

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) 2024 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) 2024 French Island Monthly/Annual Fuel and Generation Report.

(3) 2024 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 2024 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 Krausensky – Wisconsin Department of Natural Resources (electronic)
John Morris – 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 - 2024**

| TCLP | 1st Qtr | 2nd Qtr (Pace Labs) | 3rd Qtr | 4th Qtr |
|---|---|---|---|---|
| Mercury (ug/L) | 0.867 | <0.29 | <0.0570 | <0.0570 |
| Silver (ug/L) | <0.460 | <4.1 | <0.460 | <0.434 |
| Arsenic (ug/L) | <6.64 | <21 | <6.64 | <5.62 |
| Barium (ug/L) | 2510 | 1100 | 899 | 3450 |
| Cadmium (ug/L) | <2.84 | *3.8 | <1.97 | <1.97 |
| Chromium (ug/L) | <67.4 | <6.3 | <51.4 | <51.4 |
| Lead (ug/L) | <2.84 | <44 | <2.84 | <2.04 |
| Selenium (ug/L) | <9.96 | <39 | <7.04 | <7.04 |
| pH (pH Units) | 10.1 | N/A | 9.72 | 10.2 |

*The reported amount is an estimated value

| **Total Composition (Annual Analysis)** | | | | |
|---|---|---|---|---|
| Silver (mg/kg) | - | - | - | 6.92 |
| Arsenic (mg/kg) | - | - | - | 19.8 |
| Barium (mg/kg) | - | - | - | 675 |
| Cadmium (mg/kg) | - | - | - | 13.8 |
| Chromium (mg/kg) | - | - | - | 135 |
| Lead (mg/kg) | - | - | - | 562 |
| Antimony (mg/kg) | - | - | - | 74.4 |
| Selenium (mg/kg) | - | - | - | 0.703 |
| Aluminum (mg/kg) | - | - | - | 59500 |
| Boron (mg/kg) | - | - | - | <222 |
| Calcium (mg/kg) | - | - | - | 134000 |
| Iron (mg/kg) | - | - | - | 17500 |
| Potassium (mg/kg) | - | - | - | 11100 |
| Magnesium (mg/kg) | - | - | - | 13800 |
| Sodium (mg/kg) | - | - | - | 20800 |
| Zinc (mg/kg) | - | - | - | 1840 |
| Mercury (mg/kg) | - | - | - | 0.976 |
| Percent Moisture (%) | - | - | - | 13.56 |
| Chlorides, as received (ug/g) | - | - | - | 32964 |
| Chlorides, dry basis (ug/g) | - | - | - | 38136 |
| Fluorides, as received (ug/g) | - | - | - | 114 |
| Fluorides, dry basis (ug/g) | - | - | - | 132 |
| Tot Organic Carbon, Mean (mg/kg) | - | - | - | 13400 |

*1st Quarter sampled during week of 3/4/2024; 2nd Quarter sampled during week of 6/16/2024; 3rd Quarter sampled during week of 9/16/2024; 4th Quarter samples during week of 12/16/2024.*

**Minneapolis Testing Laboratory**
**1518 Chestnut Ave N**
**Minneapolis, MN 55043**
**Certification #MN-027-053-197**
**WI-999071150**
**Christine Keefe, Manager (612) 630-4506**

08 April 2024

Brad Giese

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 03/22/2024 10:00. 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: Brad Giese | 04/08/2024 07:12 |

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sample Qualifier | Laboratory ID | Matrix | Sampled | Received |
|---|---|---|---|---|---|
| 1st Quarter Ash | | MJC0140-01 | Solid | 03/08/2024 9:00 | 03/22/2024 10:00 |



*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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**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 | 04/08/2024 07:12 |

## 1st Quarter Ash

### MJC0140-01 (Solid) - Chain of Custody Number: 286891

| Analyte | Result | LOD | LOQ | Units | Analyte Qualifier | Dilution | Batch | Prepared | Analyzed | Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **TCLP Metals** | | | | | | | | | | | |
| **Mercury** | 0.867 | 0.0360 | 0.120 | ug/L | | 1 | BJD0008 | 4/1/24 10:57 | 4/2/24 14:57 | EPA 245.1/7470A | HRD |
| **TCLP Metals by ICPMS** | | | | | | | | | | | |
| Silver | < 0.460 | 0.460 | 1.53 | ug/L | | 50 | BJD0027 | 4/2/24 8:20 | 4/3/24 9:56 | EPA 6020B | CRL |
| Arsenic | < 6.64 | 6.64 | 22.1 | ug/L | | 50 | BJD0027 | 4/2/24 8:20 | 4/3/24 9:56 | EPA 6020B | CRL |
| **Barium** | 2510 | 4.54 | 15.1 | ug/L | | 50 | BJD0027 | 4/2/24 8:20 | 4/3/24 9:56 | EPA 6020B | CRL |
| Cadmium | < 2.84 | 2.84 | 9.48 | ug/L | | 50 | BJD0027 | 4/2/24 8:20 | 4/3/24 9:56 | EPA 6020B | CRL |
| Chromium | < 67.4 | 67.4 | 225 | ug/L | | 50 | BJD0027 | 4/2/24 8:20 | 4/3/24 9:56 | EPA 6020B | CRL |
| Lead | < 2.84 | 2.84 | 9.47 | ug/L | | 50 | BJD0027 | 4/2/24 8:20 | 4/3/24 9:56 | EPA 6020B | CRL |
| Selenium | < 9.96 | 9.96 | 33.2 | ug/L | | 50 | BJD0027 | 4/2/24 8:20 | 4/3/24 9:56 | EPA 6020B | CRL |
| **TCLP Leachate pH** | | | | | | | | | | | |
| **pH** | 10.1 | | | pH Units | | 1 | BJD0004 | 4/1/24 6:32 | 4/2/24 8:20 | 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: Brad Giese | 04/08/2024 07:12 |

## TCLP Metals - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BJD0008 - EPA 245.1, EPA 7470A** | | | | | | | | | | | |
| **Blank (BJD0008-BLK1)** | | | | | Prepared: 04/01/2024 Analyzed: 04/02/2024 | | | | | | |
| Mercury | 0.053000 | 0.0360 | 0.12000 | ug/L | | | | | | | |
| **LCS (BJD0008-BS1)** | | | | | Prepared: 04/01/2024 Analyzed: 04/02/2024 | | | | | | |
| Mercury | 5.6498 | 0.0360 | 0.12000 | ug/L | 6.0000 | | 94.2 | 85-115 | | | |
| **Duplicate (BJD0008-DUP1)** | | **Source: MJC0132-01** | | | Prepared: 04/01/2024 Analyzed: 04/02/2024 | | | | | | |
| Mercury | 0.073800 | 0.0360 | 0.12000 | ug/L | | 0.059600 | | | 21.3 | 20 | M_D-RL |
| **Matrix Spike (BJD0008-MS1)** | | **Source: MJC0132-01** | | | Prepared: 04/01/2024 Analyzed: 04/02/2024 | | | | | | |
| Mercury | 5.3340 | 0.0360 | 0.12000 | ug/L | 6.0000 | 0.059600 | 87.9 | 70-130 | | | |
| **Matrix Spike Dup (BJD0008-MSD1)** | | **Source: MJC0132-01** | | | Prepared: 04/01/2024 Analyzed: 04/02/2024 | | | | | | |
| Mercury | 5.2550 | 0.0360 | 0.12000 | ug/L | 6.0000 | 0.059600 | 86.6 | 70-130 | 1.49 | 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 | 04/08/2024 07:12 |

## TCLP Metals by ICPMS - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BJD0027 - EPA 200.2, EPA 3005** | | | | | | | | | | | |
| **Blank (BJD0027-BLK1)** | | | | | Prepared: 04/02/2024 Analyzed: 04/03/2024 | | | | | | |
| Silver | < | | 1.5344 | ug/L | | | | | | | |
| Barium | < | | 15.145 | ug/L | | | | | | | |
| Selenium | < | | 33.198 | ug/L | | | | | | | |
| Cadmium | < | | 9.4752 | ug/L | | | | | | | |
| Lead | < | | 9.4734 | ug/L | | | | | | | |
| Arsenic | < | | 22.135 | ug/L | | | | | | | |
| Chromium | < | | 224.64 | ug/L | | | | | | | |
| **LCS (BJD0027-BS1)** | | | | | Prepared: 04/02/2024 Analyzed: 04/03/2024 | | | | | | |
| Cadmium | 1040.7 | | 9.4752 | ug/L | 1000.0 | | 104 | 80-120 | | | |
| Arsenic | 1066.2 | | 22.135 | ug/L | 1000.0 | | 107 | 80-120 | | | |
| Chromium | 1106.8 | | 224.64 | ug/L | 1000.0 | | 111 | 80-120 | | | |
| Silver | 101.13 | | 1.5344 | ug/L | 100.00 | | 101 | 80-120 | | | |
| Barium | 1063.5 | | 15.145 | ug/L | 1000.0 | | 106 | 80-120 | | | |
| Lead | 999.54 | | 9.4734 | ug/L | 1000.0 | | 100 | 80-120 | | | |
| Selenium | 1101.5 | | 33.198 | ug/L | 1000.0 | | 110 | 80-120 | | | |
| **Duplicate (BJD0027-DUP1)** | | **Source: MJC0132-01** | | | Prepared: 04/02/2024 Analyzed: 04/03/2024 | | | | | | |
| Barium | 1354.2 | | 15.145 | ug/L | | 1294.0 | | | 4.55 | 20 | |
| Arsenic | < | | 22.135 | ug/L | | 7.8146 | | | | 20 | |
| Silver | < | | 1.5344 | ug/L | | < | | | | 20 | |
| Chromium | < | | 224.64 | ug/L | | < | | | | 20 | |
| Selenium | < | | 33.198 | ug/L | | < | | | | 20 | |
| Lead | 8.6059 | | 9.4734 | ug/L | | 103.03 | | | 169 | 20 | M_D-RL |
| Cadmium | < | | 9.4752 | ug/L | | < | | | | 20 | |
| **Matrix Spike (BJD0027-MS1)** | | **Source: MJC0132-01** | | | Prepared: 04/02/2024 Analyzed: 04/03/2024 | | | | | | |
| Selenium | 1109.3 | | 33.198 | ug/L | 1000.0 | < | 111 | 75-125 | | | |
| Lead | 1111.9 | | 9.4734 | ug/L | 1000.0 | 103.03 | 101 | 75-125 | | | |
| Barium | 2379.7 | | 15.145 | ug/L | 1000.0 | 1294.0 | 109 | 75-125 | | | |
| Chromium | 1089.5 | | 224.64 | ug/L | 1000.0 | < | 109 | 75-125 | | | |
| Silver | 98.914 | | 1.5344 | ug/L | 100.00 | < | 98.9 | 75-125 | | | |
| Cadmium | 1027.1 | | 9.4752 | ug/L | 1000.0 | < | 103 | 75-125 | | | |
| Arsenic | 1077.5 | | 22.135 | ug/L | 1000.0 | 7.8146 | 107 | 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: Brad Giese | 04/08/2024 07:12 |

## TCLP Metals by ICPMS - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BJD0027 - EPA 200.2, EPA 3005** | | | | | | | | | | | |
| **Matrix Spike Dup (BJD0027-MSD1)** | | **Source: MJC0132-01** | | | Prepared: 04/02/2024 Analyzed: 04/03/2024 | | | | | | |
| Silver | 101.03 | | 1.5344 | ug/L | 100.00 | < | 101 | 75-125 | 2.11 | 20 | |
| Selenium | 1093.5 | | 33.198 | ug/L | 1000.0 | < | 109 | 75-125 | 1.43 | 20 | |
| Cadmium | 1075.4 | | 9.4752 | ug/L | 1000.0 | < | 108 | 75-125 | 4.59 | 20 | |
| Arsenic | 1095.6 | | 22.135 | ug/L | 1000.0 | 7.8146 | 109 | 75-125 | 1.67 | 20 | |
| Lead | 1141.6 | | 9.4734 | ug/L | 1000.0 | 103.03 | 104 | 75-125 | 2.63 | 20 | |
| Barium | 2475.0 | | 15.145 | ug/L | 1000.0 | 1294.0 | 118 | 75-125 | 3.92 | 20 | |
| Chromium | 1157.4 | | 224.64 | ug/L | 1000.0 | < | 116 | 75-125 | 6.05 | 20 | |



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**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 | 04/08/2024 07:12 |

## TCLP Leachate pH - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BJD0004 - Wet Prep** | | | | | | | | | | | |
| **Blank (BJD0004-BLK1)** | | | | | Prepared: 04/01/2024 Analyzed: 04/02/2024 | | | | | | |
| pH | 4.8300 | | | pH Units | | | | | | | |
| **LCS (BJD0004-BS1)** | | | | | Prepared: 04/01/2024 Analyzed: 04/02/2024 | | | | | | |
| pH | 7.0700 | | | pH Units | 7.0000 | | 101 | 90-110 | | | |
| **LCS (BJD0004-BS2)** | | | | | Prepared: 04/01/2024 Analyzed: 04/02/2024 | | | | | | |
| pH | 7.0900 | | | pH Units | 7.0000 | | 101 | 90-110 | | | |
| **Duplicate (BJD0004-DUP1)** | | **Source: MJC0132-01** | | | Prepared: 04/01/2024 Analyzed: 04/02/2024 | | | | | | |
| pH | 5.2100 | | | pH Units | | 5.2300 | | | 0.383 | 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: Brad Giese | 04/08/2024 07:12 |

## Qualifiers and Definitions

| | |
|---|---|
| M_D-RL | The RPD for the sample duplicate was outside of QC acceptance limits due to<RL. |
| 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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Nº 286891

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 Ahren
Phone #/E-mail Address: 608-793-0884
Sampled By (print/signature): Jahren
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 | PCBs | Oil Testing: (Comp) | DGA Furans (circle selection(s)) | Fuels: | Asbestos: | | | | | ** Sample Temperature ° C | ** Sample pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Quarterly Ash Sample Ash Composite Q1 | 3/4-3/8 | 0900 | | | | | | | | ✓ | | | | | | | | | | | |

| Relinquished by: | Date/Time | Received by: | Date/Time | Comments: |
|---|---|---|---|---|
| Jahren | 3/8/24 | HS | 3/22/24 1000 | |
| Relinquished by: | Date/Time | Received by: | Date/Time | |
| 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

# Amended Report

Original Report ID: MJG0123 Xcel General Report WI FINAL 08 08 2024 1115

**Minneapolis Testing Laboratory**
**1518 Chestnut Ave N**
**Minneapolis, MN 55043**
**Certification #MN-027-053-197**
**WI-999071150**
**Christine Keefe, Manager (612) 630-4506**

09 August 2024

Brad Giese

Environmental Services-Waste Wisconsin

1414 West Hamilton Ave

Eau Claire, WI 54701

RE: French Island Quarterly Ash

cc: Follows all Wisconsin rules. Corrected sample ID. HSD 8/9/24

Enclosed are the results of analyses for samples received by the laboratory on 07/23/2024 05:50. 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: MJG0123 Xcel General Report WI FINAL 08 08 2024 1115

**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 | 08/09/2024 07:00 |

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sample Qualifier | Laboratory ID | Matrix | Sampled | Received |
|---|---|---|---|---|---|
| 2nd Quarter Ash | | MJG0123-01 | Solid | 07/01/2024 9:00 | 07/23/2024 5:50 |



*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.*

# Amended Report

Original Report ID: MJG0123 Xcel General Report WI FINAL 08 08 2024 1115

**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 | 08/09/2024 07:00 |

## SUBCONTRACTED ANALYSES

The following analyses were subcontracted to Pace Analytical. Please see attached for results.

| Lab Number | Analysis |
|---|---|
| MJG0123-01 | M_ICPMS-6020-TCLP-Ag |
| MJG0123-01 | M_ICPMS-6020-TCLP-As |
| MJG0123-01 | M_ICPMS-6020-TCLP-Ba |
| MJG0123-01 | M_ICPMS-6020-TCLP-Cd |
| MJG0123-01 | M_ICPMS-6020-TCLP-Cr |
| MJG0123-01 | 7470A |
| MJG0123-01 | M_ICPMS-6020-TCLP-Pb |
| MJG0123-01 | SM 4500-H+ |
| MJG0123-01 | M_ICPMS-6020-TCLP-Se |
| MJG0123-01 | TCLP Extraction |



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# Amended Report

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**Minneapolis Testing Laboratory**
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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 | 08/09/2024 07:00 |

| Analyte | Result | LOD | LOQ | Units | Analyte Qualifier | Dilution | Batch | Prepared | Analyzed | Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|



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# Amended Report

Original Report ID: MJG0123 Xcel General Report WI FINAL 08 08 2024 1115

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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 | 08/09/2024 07:00 |

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|



*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: Brad Giese | 08/09/2024 07:00 |

## 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.*

Nº 302443

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: jahrens
LSR #:

| **LIMS ID | Sample ID/Location | Date | Time | Safety Related (Nuclear) | Matrix | Preservative | # of Containers | Volume/Amount | Analyses: Anions: | Wet Chem.: | Metals: TCLP | PCBs | Oil Testing: (Comp) | DGA Furans (circle selection(s)) | Fuels: | Asbestos: | ** Sample Temperature ° C | ** Sample pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Quarterly Ash Sample Ash Composite Q2 | 7/1/24 | 0900 | | | | | | | | ✓ | | | | | | | |

| Relinquished by: | Date/Time | Received by: | Date/Time |
|---|---|---|---|
| jahrens | 7/1/24 | [signature] | 7/23/24 0550 |
| Relinquished by: | Date/Time | Received by: | Date/Time |
| Relinquished by: | Date/Time | Received by: | Date/Time |

Comments:
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

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

August 06, 2024

Steve Davis
Xcel Energy, Inc.
1518 Chestnut Ave
Minneapolis, MN 55414

RE: Project: French Island Wisconsin
Pace Project No.: 10702008

Dear Steve Davis:

Enclosed are the analytical results for sample(s) received by the laboratory on July 29, 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 - Minneapolis

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

Sincerely,

Rachel Johnson
rachel.johnson@pacelabs.com
(612) 656-2307
Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS**

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

## CERTIFICATIONS

Project: French Island Wisconsin
Pace Project No.: 10702008

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

## SAMPLE SUMMARY

Project: French Island Wisconsin
Pace Project No.: 10702008

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **10702008001** | **MJG0123-01** | Solid | 07/01/24 09:00 | 07/29/24 13:46 |

**REPORT OF LABORATORY ANALYSIS**

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(612)607-1700

## SAMPLE ANALYTE COUNT

Project: French Island Wisconsin
Pace Project No.: 10702008

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **10702008001** | **MJG0123-01** | EPA 6010D | IP | 7 |
| | | EPA 7470A | LMW | 1 |

PASI-M = Pace Analytical Services - Minneapolis

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(612)607-1700

## ANALYTICAL RESULTS

Project: French Island Wisconsin
Pace Project No.: 10702008

**Sample: MJG0123-01** **Lab ID: 10702008001** Collected: 07/01/24 09:00 Received: 07/29/24 13:46 Matrix: Solid

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010D MET ICP, TCLP MICRO** | Analytical Method: EPA 6010D Preparation Method: EPA 3015A<br>Leachate Method/Date: EPA 1311; 08/05/24 13:13<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Arsenic | **<0.021** | mg/L | 0.20 | 0.021 | 1 | 08/06/24 08:21 | 08/06/24 11:37 | 7440-38-2 | |
| Barium | **1.1** | mg/L | 0.10 | 0.019 | 1 | 08/06/24 08:21 | 08/06/24 11:37 | 7440-39-3 | |
| Cadmium | **0.0038J** | mg/L | 0.030 | 0.0026 | 1 | 08/06/24 08:21 | 08/06/24 11:37 | 7440-43-9 | |
| Chromium | **<0.0063** | mg/L | 0.10 | 0.0063 | 1 | 08/06/24 08:21 | 08/06/24 11:37 | 7440-47-3 | |
| Lead | **<0.044** | mg/L | 0.10 | 0.044 | 1 | 08/06/24 08:21 | 08/06/24 11:37 | 7439-92-1 | |
| Selenium | **<0.039** | mg/L | 0.20 | 0.039 | 1 | 08/06/24 08:21 | 08/06/24 11:37 | 7782-49-2 | |
| Silver | **<0.0041** | mg/L | 0.10 | 0.0041 | 1 | 08/06/24 08:21 | 08/06/24 11:37 | 7440-22-4 | |
| **7470A Mercury, TCLP** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Leachate Method/Date: EPA 1311; 08/05/24 13:13<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Mercury | **<0.29** | ug/L | 0.60 | 0.29 | 1 | 08/06/24 07:33 | 08/06/24 12:57 | 7439-97-6 | H3 |

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

## QUALITY CONTROL DATA

Project: French Island Wisconsin
Pace Project No.: 10702008

QC Batch: 960750
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470A Mercury TCLP
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10702008001

METHOD BLANK: 5022436 Matrix: Water
Associated Lab Samples: 10702008001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | <0.29 | 0.60 | 08/06/24 12:50 | |

METHOD BLANK: 5021833 Matrix: Water
Associated Lab Samples: 10702008001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | <0.29 | 0.60 | 08/06/24 13:21 | |

LABORATORY CONTROL SAMPLE: 5022437

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 15 | 15.5 | 104 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5022438 5022439

| Parameter | Units | 10702008001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | <0.29 | 15 | 15 | 15.2 | 15.4 | 100 | 101 | 80-120 | 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.**

## REPORT OF LABORATORY ANALYSIS

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

## QUALITY CONTROL DATA

Project: French Island Wisconsin
Pace Project No.: 10702008

QC Batch: 960752
QC Batch Method: EPA 3015A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET ICP, TCLP MICRO
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10702008001

METHOD BLANK: 5022444 Matrix: Water
Associated Lab Samples: 10702008001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | <0.021 | 0.20 | 08/06/24 11:32 | |
| Barium | mg/L | <0.019 | 0.10 | 08/06/24 11:32 | |
| Cadmium | mg/L | <0.0026 | 0.030 | 08/06/24 11:32 | |
| Chromium | mg/L | <0.0063 | 0.10 | 08/06/24 11:32 | |
| Lead | mg/L | <0.044 | 0.10 | 08/06/24 11:32 | |
| Selenium | mg/L | <0.039 | 0.20 | 08/06/24 11:32 | |
| Silver | mg/L | <0.0041 | 0.10 | 08/06/24 11:32 | |

LABORATORY CONTROL SAMPLE: 5022445

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/L | 5 | 5.2 | 104 | 80-120 | |
| Barium | mg/L | 5 | 5.3 | 106 | 80-120 | |
| Cadmium | mg/L | 5 | 5.4 | 107 | 80-120 | |
| Chromium | mg/L | 5 | 5.3 | 107 | 80-120 | |
| Lead | mg/L | 5 | 5.3 | 107 | 80-120 | |
| Selenium | mg/L | 5 | 5.2 | 105 | 80-120 | |
| Silver | mg/L | 2.5 | 2.5 | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5022446 5022447

| Parameter | Units | 10702008001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | mg/L | <0.021 | 5 | 5 | 5.3 | 5.3 | 105 | 105 | 75-125 | 0 | 20 | |
| Barium | mg/L | 1.1 | 5 | 5 | 6.2 | 6.3 | 103 | 104 | 75-125 | 1 | 20 | |
| Cadmium | mg/L | 0.0038J | 5 | 5 | 5.2 | 5.2 | 104 | 104 | 75-125 | 0 | 20 | |
| Chromium | mg/L | <0.0063 | 5 | 5 | 5.3 | 5.3 | 106 | 106 | 75-125 | 0 | 20 | |
| Lead | mg/L | <0.044 | 5 | 5 | 5.3 | 5.2 | 105 | 105 | 75-125 | 0 | 20 | |
| Selenium | mg/L | <0.039 | 5 | 5 | 5.4 | 5.4 | 107 | 107 | 75-125 | 0 | 20 | |
| Silver | mg/L | <0.0041 | 2.5 | 2.5 | 2.5 | 2.6 | 102 | 102 | 75-125 | 0 | 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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Minneapolis, MN 55414
(612)607-1700

# QUALIFIERS

Project: French Island Wisconsin
Pace Project No.: 10702008

## 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

H3 Sample was received or analysis requested beyond the recognized method holding time.

## REPORT OF LABORATORY ANALYSIS

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

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: French Island Wisconsin
Pace Project No.: 10702008

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **10702008001** | **MJG0123-01** | EPA 3015A | 960752 | EPA 6010D | 960831 |
| **10702008001** | **MJG0123-01** | EPA 7470A | 960750 | EPA 7470A | 960868 |



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Xcel Energy

| | |
|---|---|
| Minneapolis Testing Laboratory (MTL) | Form: MTL-845a |
| Title: Lab Chain Of Custody (COC) Form | Revision: 1.0 |
| | Revision Date: 12/14/2023 |
| | Client Reference COC No.: |

Minneapolis Testing Laboratory
1518 Chestnut Avenue North Minneapolis, MN 55403
Phone (612) 630-4506

**Sampler Fields (Shaded)** | ****Lab Fields**

| | |
|---|---|
| Facility/Location: | |
| Project Name: | *French Island Wisconsin* |
| Project Manager: | *Steve Davis* |
| Phone/Email Address: | harry.s.davis.III@xcelenergy.com |
| Sampled By: | *Brad Giese* |
| PO | *4500856185* |

WO# : 10702008

10702008

| Field Sample ID/Location | Collect Date | Collect Time | Matrix | # of Containers for Sample Point | TCLP 1311 Metals Leach | Ag, As,Ba,Cd,Cr,Pb,Se,Hg | O | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *MJG0123-01* | *7/1/2024* | *0900 am* | *S* | *1* | *X* | *X* | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
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007

| | |
|---|---|
| Sample Matrix: | (W) Water, (S) Solid, (SL) Sludge, (O) Oil, (A) Air, (GC) Gas Condensate, (W-O) Oil Wipe, (W-GC) Gas Condensate Wipe, (X) Other |
| ****pH Strip ID/Lot:** | |
| Client Comments or Requests: | Wisconsin sample location. Report to LOD, LOQ |

| | Date: | Time: | | Date: | Time: |
|---|---|---|---|---|---|
| Relinquished By (1): | 7/29/24 | 1335 | Received By (1): | 7/30/24 | 0910 |
| Relinquished By (2): | | | Received By (2): | | |
| Relinquished By (3): | | | Received By (3): | | |

****Lab Receipt**

Lab Arrival:
- ☐ Client Delivery
- ☐ UPS
- ☐ USPS
- ☐ FedEx
- ☐ Courier
- ☐ Intercompany Mail

On Ice? ☐ Yes ☐ No

Corrected Temp (°C)

Thermometer ID/SN:

Lab Comments:

3.8 (D)

# ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

**CLIENT NAME:** Xcel Energy **PROJECT #:**

**WO#: 10702008**

**PM: RMJ** **Due Date: 08/12/24**

**CLIENT: XCEL**

**COURIER:** ☑ Client ☐ Commercial ☐ FedEx ☐ Pace ☐ SpeeDee ☐ UPS ☐ USPS

**TRACKING NUMBER:** N/A ☐ See Exceptions form 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 Bags ☐ Bubble Wrap ☐ None ☑ Other **Temp Blank:** ☑ YES ☐ NO **Type of Ice:** ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

**Thermometer:** ☐ T1 (0461) ☐ T2 (0436) ☑ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710)

| | |
|---|---|
| **Did Samples Originate in West Virginia:** ☐ YES ☑ NO | **Were All Container Temps taken:** ☐ YES ☐ NO ☑ N/A |
| **Correction Factor:** +0.3 °C **Cooler Temp Read w/Temp Blank:** 3.5 °C **Cooler Temp Corrected w/Temp Blank:** 3.8 °C | **Average Corrected Temp (no Temp Blank Only):** _____ °C |
| ***NOTE:** Temp should be above freezing to 6°C.* | ☐ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container |
| **USDA Regulated Soil:** ☐ N/A – Water Sample/Other (describe): _____ | **Initials & Date of Person Examining Contents:** PJL 30 JUL 2024 |
| Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☑ NO | Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☑ NO |
| **NOTE: 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 | YES | NO | N/A | COMMENT(S) |
|---|---|---|---|---|
| Chain of Custody Present and Filled Out? | ☑ | ☐ | | 1. |
| Chain of Custody Relinquished? | ☑ | ☐ | | 2. |
| Sampler Name and/or Signature on COC? | ☑ | ☐ | ☐ | 3. |
| Samples Arrived within Hold Time? | ☑ | ☐ | | 4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐No |
| **Short Hold Time Analysis (<72 hr)?** | ☐ | ☑ | | 5. ☐ BOD / cBOD ☐Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐Ortho Phos ☐ Total coliform/*E. coli* ☐ Other: _____ |
| **Rush Turn Around Time Requested?** | ☐ | ☑ | | 6. |
| Sufficient Sample Volume? | ☑ | ☐ | | 7. |
| Correct Containers Used? – Pace Containers Used? | ☑ ☑ | ☐ ☐ | ☐ | 8. |
| Containers Intact? | ☑ | ☐ | | 9. |
| Field Filtered Volume Received for Dissolved Tests? | ☐ | ☐ | ☑ | 10. Is sediment visible in the dissolved container: ☐ YES ☐ NO |
| Is sufficient information available to reconcile the samples to the COC? **NOTE:** If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☑ Soil ☐ Water ☐ Other | ☑ | ☐ | | 11. **If NO, write ID/Date/Time of container below:** ☐ See Exceptions form ENV-FRM-MIN4-0142 |
| All containers needing acid/base preservation have been checked? | ☐ | ☐ | ☑ | 12. Sample #: |
| All containers needing preservation are found to be in compliance with EPA recommendation? ($HNO_3$, $H_2SO_4$, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) | ☐ | ☐ | ☑ | ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ NaOH ☐ Zinc Acetate |
| Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS | ☐ | ☐ | ☑ | Positive for Residual Chlorine: ☐ YES ☐NO |
| **NOTE:** If adding preservation to the container, **verify with the PM first.** Clients may require adding preservative to the field and equipment blanks when this occurs. | | | | **pH Paper Lot #** (Residual Chlorine / 0-6 Roll / 0-6 Strip / 0-14 Strip) ☐ See Exceptions form ENV-FRM-MIN4-0142 |
| Headspace in Methyl Mercury Container? | ☐ | ☐ | ☑ | 13. |
| Extra labels present on soil VOA or WIDRO containers? | ☐ | ☐ | ☑ | 14. |
| Headspace in VOA Vials (greater than 6mm)? | ☐ | ☐ | ☑ | ☐ See Exceptions form ENV-FRM-MIN4-0140 |
| Trip Blanks Present? | ☐ | ☐ | ☑ | 15. |
| Trip Blank Custody Seals Present? | ☐ | ☐ | ☑ | Pace Trip Blank Lot # (if purchased): _____ |

**CLIENT NOTIFICATION / RESOLUTION** **FIELD DATA REQUIRED:** ☐ YES ☐ NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

**Project Manager Review:** Sydni Harrison **Date:** 07/31/2024

***NOTE:** When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).*

**Labeled By:** PJL **Line:** 3

**Minneapolis Testing Laboratory**
**1518 Chestnut Ave N**
**Minneapolis, MN 55043**
**Certification #MN-027-053-197**
**WI-999071150**
**Christine Keefe, Manager (612) 630-4506**

14 October 2024

Brad Giese

Environmental Services-Waste Wisconsin

1414 West Hamilton Ave

Eau Claire, WI 54701

RE: French Island Quarterly Ash

cc: Follows all Wisconsin rules.

Enclosed are the results of analyses for samples received by the laboratory on 10/07/2024 05:55. 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: Brad Giese | 10/14/2024 08:29 |

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sample Qualifier | Laboratory ID | Matrix | Sampled | Received |
|---|---|---|---|---|---|
| 3rd Quarter Ash | | MJJ0044-01 | Solid | 09/20/2024 10:00 | 10/07/2024 5:55 |



*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: Brad Giese | 10/14/2024 08:29 |

## 3rd Quarter Ash

### MJJ0044-01 (Solid) - Chain of Custody Number: 302426

| Analyte | Result | LOD | LOQ | Units | Analyte Qualifier | Dilution | Batch | Prepared | Analyzed | Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **TCLP Metals** | | | | | | | | | | | |
| Mercury | < 0.0570 | 0.0570 | 0.190 | ug/L | | 1 | BJJ0214 | 10/9/24 9:03 | 10/9/24 15:27 | EPA 245.1/7470A | HRD |
| **TCLP Metals by ICPMS** | | | | | | | | | | | |
| Silver | < 0.460 | 0.460 | 1.53 | ug/L | | 50 | BJJ0169 | 10/8/24 8:57 | 10/9/24 11:04 | EPA 6020B | CRL |
| Arsenic | < 6.64 | 6.64 | 22.1 | ug/L | | 50 | BJJ0169 | 10/8/24 8:57 | 10/9/24 11:04 | EPA 6020B | CRL |
| **Barium** | 899 | 4.54 | 15.1 | ug/L | | 50 | BJJ0169 | 10/8/24 8:57 | 10/9/24 11:04 | EPA 6020B | CRL |
| Cadmium | < 1.97 | 1.97 | 6.56 | ug/L | | 50 | BJJ0169 | 10/8/24 8:57 | 10/9/24 11:04 | EPA 6020B | CRL |
| Chromium | < 51.4 | 51.4 | 171 | ug/L | | 50 | BJJ0169 | 10/8/24 8:57 | 10/9/24 11:04 | EPA 6020B | CRL |
| Lead | < 2.84 | 2.84 | 9.47 | ug/L | | 50 | BJJ0169 | 10/8/24 8:57 | 10/9/24 11:04 | EPA 6020B | CRL |
| Selenium | < 7.04 | 7.04 | 23.5 | ug/L | | 50 | BJJ0169 | 10/8/24 8:57 | 10/9/24 11:04 | EPA 6020B | CRL |
| **TCLP Leachate pH** | | | | | | | | | | | |
| **pH** | 9.72 | | | pH Units | | 1 | BJJ0105 | 10/7/24 6:03 | 10/8/24 11:08 | SM 4500-H+ B | CRL |



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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: Brad Giese | 10/14/2024 08:29 |

## TCLP Metals - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BJJ0214 - EPA 245.1, EPA 7470A** | | | | | | | | | | | |
| **Blank (BJJ0214-BLK1)** | | | | | Prepared & Analyzed: 10/09/2024 | | | | | | |
| Mercury | <0.0570 | 0.0570 | 0.19000 | ug/L | | | | | | | |
| **LCS (BJJ0214-BS1)** | | | | | Prepared & Analyzed: 10/09/2024 | | | | | | |
| Mercury | 5.7416 | 0.0570 | 0.19000 | ug/L | 6.0000 | | 95.7 | 85-115 | | | |
| **Duplicate (BJJ0214-DUP1)** | | **Source: MJI0162-06** | | | Prepared & Analyzed: 10/09/2024 | | | | | | |
| Mercury | 0.075200 | 0.0570 | 0.19000 | ug/L | | 0.086600 | | | 14.1 | 20 | |
| **Matrix Spike (BJJ0214-MS1)** | | **Source: MJI0162-06** | | | Prepared & Analyzed: 10/09/2024 | | | | | | |
| Mercury | 5.6074 | 0.0570 | 0.19000 | ug/L | 6.0000 | 0.086600 | 92.0 | 70-130 | | | |
| **Matrix Spike Dup (BJJ0214-MSD1)** | | **Source: MJI0162-06** | | | Prepared & Analyzed: 10/09/2024 | | | | | | |
| Mercury | 5.4350 | 0.0570 | 0.19000 | ug/L | 6.0000 | 0.086600 | 89.1 | 70-130 | 3.12 | 20 | |



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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 | 10/14/2024 08:29 |

## TCLP Metals by ICPMS - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BJJ0169 - EPA 200.2, EPA 3005** | | | | | | | | | | | |
| **Blank (BJJ0169-BLK1)** | | | | | Prepared: 10/08/2024 Analyzed: 10/09/2024 | | | | | | |
| Arsenic | < | | 22.135 | ug/L | | | | | | | |
| Silver | < | | 1.5344 | ug/L | | | | | | | |
| Cadmium | < | | 6.5616 | ug/L | | | | | | | |
| Chromium | < | | 171.19 | ug/L | | | | | | | |
| Selenium | < | | 23.468 | ug/L | | | | | | | |
| Barium | < | | 15.145 | ug/L | | | | | | | |
| Lead | < | | 9.4734 | ug/L | | | | | | | |
| **LCS (BJJ0169-BS1)** | | | | | Prepared: 10/08/2024 Analyzed: 10/09/2024 | | | | | | |
| Chromium | 1094.9 | | 171.19 | ug/L | 1000.0 | | 109 | 80-120 | | | |
| Barium | 1100.3 | | 15.145 | ug/L | 1000.0 | | 110 | 80-120 | | | |
| Lead | 990.35 | | 9.4734 | ug/L | 1000.0 | | 99.0 | 80-120 | | | |
| Arsenic | 1118.6 | | 22.135 | ug/L | 1000.0 | | 112 | 80-120 | | | |
| Cadmium | 1074.8 | | 6.5616 | ug/L | 1000.0 | | 107 | 80-120 | | | |
| Selenium | 992.67 | | 23.468 | ug/L | 1000.0 | | 99.3 | 80-120 | | | |
| Silver | 96.693 | | 1.5344 | ug/L | 100.00 | | 96.7 | 80-120 | | | |
| **Duplicate (BJJ0169-DUP1)** | | **Source: MJI0162-06** | | | Prepared: 10/08/2024 Analyzed: 10/09/2024 | | | | | | |
| Barium | 1135.8 | | 15.145 | ug/L | | 1097.8 | | | 3.40 | 20 | |
| Silver | < | | 1.5344 | ug/L | | < | | | | 20 | |
| Arsenic | < | | 22.135 | ug/L | | < | | | | 20 | |
| Lead | 89.603 | | 9.4734 | ug/L | | 79.329 | | | 12.2 | 20 | |
| Selenium | < | | 23.468 | ug/L | | < | | | | 20 | |
| Chromium | 63.761 | | 171.19 | ug/L | | 76.593 | | | 18.3 | 20 | |
| Cadmium | 9.3350 | | 6.5616 | ug/L | | 6.7444 | | | 32.2 | 20 | M_D-RL |
| **Matrix Spike (BJJ0169-MS1)** | | **Source: MJI0162-06** | | | Prepared: 10/08/2024 Analyzed: 10/09/2024 | | | | | | |
| Selenium | 1003.8 | | 23.468 | ug/L | 1000.0 | < | 100 | 75-125 | | | |
| Silver | 97.998 | | 1.5344 | ug/L | 100.00 | < | 98.0 | 75-125 | | | |
| Cadmium | 1068.9 | | 6.5616 | ug/L | 1000.0 | 6.7444 | 106 | 75-125 | | | |
| Lead | 1069.5 | | 9.4734 | ug/L | 1000.0 | 79.329 | 99.0 | 75-125 | | | |
| Arsenic | 1042.3 | | 22.135 | ug/L | 1000.0 | < | 104 | 75-125 | | | |
| Chromium | 1103.2 | | 171.19 | ug/L | 1000.0 | 76.593 | 103 | 75-125 | | | |
| Barium | 2253.7 | | 15.145 | ug/L | 1000.0 | 1097.8 | 116 | 75-125 | | | |



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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 | 10/14/2024 08:29 |

## TCLP Metals by ICPMS - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BJJ0169 - EPA 200.2, EPA 3005** | | | | | | | | | | | |
| **Matrix Spike Dup (BJJ0169-MSD1)** | | **Source: MJI0162-06** | | | Prepared: 10/08/2024 Analyzed: 10/09/2024 | | | | | | |
| Arsenic | 1087.9 | | 22.135 | ug/L | 1000.0 | < | 109 | 75-125 | 4.28 | 20 | |
| Chromium | 1135.8 | | 171.19 | ug/L | 1000.0 | 76.593 | 106 | 75-125 | 2.91 | 20 | |
| Silver | 99.952 | | 1.5344 | ug/L | 100.00 | < | 100 | 75-125 | 1.97 | 20 | |
| Barium | 2307.1 | | 15.145 | ug/L | 1000.0 | 1097.8 | 121 | 75-125 | 2.34 | 20 | |
| Cadmium | 1062.3 | | 6.5616 | ug/L | 1000.0 | 6.7444 | 106 | 75-125 | 0.618 | 20 | |
| Selenium | 1137.7 | | 23.468 | ug/L | 1000.0 | < | 114 | 75-125 | 12.5 | 20 | |
| Lead | 1082.2 | | 9.4734 | ug/L | 1000.0 | 79.329 | 100 | 75-125 | 1.19 | 20 | |



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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 | 10/14/2024 08:29 |

## TCLP Leachate pH - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BJJ0105 - Wet Prep** | | | | | | | | | | | |
| **Blank (BJJ0105-BLK1)** | | | | | Prepared: 10/07/2024 Analyzed: 10/08/2024 | | | | | | |
| pH | 4.8200 | | | pH Units | | | | | | | |
| **LCS (BJJ0105-BS1)** | | | | | Prepared: 10/07/2024 Analyzed: 10/08/2024 | | | | | | |
| pH | 7.0500 | | | pH Units | 7.0000 | | 101 | 90-110 | | | |
| **LCS (BJJ0105-BS2)** | | | | | Prepared: 10/07/2024 Analyzed: 10/08/2024 | | | | | | |
| pH | 7.1100 | | | pH Units | 7.0000 | | 102 | 90-110 | | | |
| **Duplicate (BJJ0105-DUP1)** | | **Source: MJI0162-06** | | | Prepared: 10/07/2024 Analyzed: 10/08/2024 | | | | | | |
| pH | 5.6000 | | | pH Units | | 5.6400 | | | 0.712 | 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: Brad Giese | 10/14/2024 08:29 |

## Qualifiers and Definitions

| | |
|---|---|
| M_D-RL | The RPD for the sample duplicate was outside of QC acceptance limits due to<RL. |
| 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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Nº 302426

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 Ahnen
Phone #/E-mail Address: 608-793-0084
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 | PCBs | Oil Testing: (Comp) | DGA Furans (circle selection(s) | Fuels: | Asbestos: | | | | | ** Sample Temperature ° C | ** Sample pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Quarter 3 Ash Sample | 9/20/24 | 10:00 | | C | | 1 | | | | ✓ | | | | | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: Jahnen | Date/Time 9/20/24 | Received by: | Date/Time 10/7/24 @ 05:55 |
| Relinquished by: | Date/Time | Received by: | Date/Time |
| Relinquished by: | Date/Time | Received by: | Date/Time |

Comments: Ambient
On lab counter

**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**

24 February 2025

Brad Giese

Environmental Services-Waste Wisconsin

1414 West Hamilton Ave

Eau Claire, WI 54701

RE: French Island Annual Ash

cc: Follows all Wisconsin rules.

Enclosed are the results of analyses for samples received by the laboratory on 01/06/2025 10:20. 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 | 02/24/2025 06:47 |

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sample Qualifier | Laboratory ID | Matrix | Sampled | Received |
|---|---|---|---|---|---|
| Annual Ash | | MKA0038-01 | Solid | 12/20/2024 0:00 | 01/06/2025 10:20 |



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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 | 02/24/2025 06:47 |

## SUBCONTRACTED ANALYSES

The following analyses were subcontracted to Amarillo Testing Lab. Please see attached for results.

| Lab Number | Analysis |
|---|---|
| MKA0038-01 | Chlorine in Coal and Ash |
| MKA0038-01 | Chlorine in Coal and Ash |
| MKA0038-01 | Fluorine in Coal and Ash |
| MKA0038-01 | Fluorine in Coal and Ash |

The following analyses were subcontracted to Pace Analytical. Please see attached for results.

| Lab Number | Analysis |
|---|---|
| MKA0038-01 | 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 | 02/24/2025 06:47 |

## Annual Ash

**MKA0038-01 (Solid) - Chain of Custody Number:**

| Analyte | Result | LOD | LOQ | Units | Analyte Qualifier | Dilution | Batch | Prepared | Analyzed | Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | | |
| **Chlorine** | 38136 | | | mg/kg | Z | 1 | na | 1/28/25 0:00 | 1/28/25 0:00 | Various | ATL |
| **Fluorine** | 132 | | | mg/kg | Z | 1 | na | 1/28/25 0:00 | 1/28/25 0:00 | Various | ATL |
| **Wet Chemistry** | | | | | | | | | | | |
| **Total Organic Carbon** | 13400 | 1040 | | mg/kg | Z | 1 | 989357 | 1/24/25 15:23 | 1/24/25 15:23 | SM 5310B | Pace |
| **Total Metals by ICPMS** | | | | | | | | | | | |
| **Silver** | 6.92 | 0.0248 | 0.0826 | mg/kg | | 1.9 | BKA0469 | 1/29/25 11:40 | 2/20/25 8:44 | EPA 6020B | CRL |
| **Arsenic** | 19.8 | 0.611 | 2.04 | mg/kg | | 1.9 | BKA0469 | 1/29/25 11:40 | 2/20/25 8:44 | EPA 6020B | CRL |
| **Barium** | 675 | 0.394 | 1.31 | mg/kg | | 1.9 | BKA0469 | 1/29/25 11:40 | 2/20/25 8:44 | EPA 6020B | CRL |
| **Cadmium** | 13.8 | 0.405 | 1.35 | mg/kg | | 1.9 | BKA0469 | 1/29/25 11:40 | 2/20/25 8:44 | EPA 6020B | CRL |
| **Chromium** | 135 | 0.645 | 2.15 | mg/kg | | 1.9 | BKA0469 | 1/29/25 11:40 | 2/20/25 8:44 | EPA 6020B | CRL |
| **Lead** | 562 | 0.206 | 0.686 | mg/kg | | 1.9 | BKA0469 | 1/29/25 11:40 | 2/20/25 8:44 | EPA 6020B | CRL |
| **Antimony** | 74.4 | 0.353 | 1.18 | mg/kg | | 1.9 | BKA0469 | 1/29/25 11:40 | 2/20/25 8:44 | EPA 6020B | CRL |
| **Selenium** | 0.703 | 0.548 | 1.83 | mg/kg | | 1.9 | BKA0469 | 1/29/25 11:40 | 2/20/25 8:44 | EPA 6020B | CRL |
| **Total Metals by ICP** | | | | | | | | | | | |
| **Aluminum** | 59500 | 310 | 1030 | mg/kg | M_E | 3.7 | BKA0468 | 1/29/25 11:13 | 2/14/25 13:09 | EPA 6010D | HRD |
| Boron | < 222 | 222 | 741 | mg/kg | | 3.7 | BKA0468 | 1/29/25 11:13 | 2/14/25 13:09 | EPA 6010D | HRD |
| **Calcium** | 134000 | 2950 | 9830 | mg/kg | | 3.7 | BKA0468 | 1/29/25 11:13 | 2/14/25 13:08 | EPA 6010D | HRD |
| **Iron** | 17500 | 42.8 | 143 | mg/kg | | 3.7 | BKA0468 | 1/29/25 11:13 | 2/14/25 13:09 | EPA 6010D | HRD |
| **Potassium** | 11100 | 3980 | 13300 | mg/kg | | 3.7 | BKA0468 | 1/29/25 11:13 | 2/14/25 13:08 | EPA 6010D | HRD |
| **Magnesium** | 13800 | 3730 | 12400 | mg/kg | | 3.7 | BKA0468 | 1/29/25 11:13 | 2/14/25 13:08 | EPA 6010D | HRD |
| **Sodium** | 20800 | 2800 | 9340 | mg/kg | | 3.7 | BKA0468 | 1/29/25 11:13 | 2/14/25 13:08 | EPA 6010D | HRD |
| **Zinc** | 1840 | 41.8 | 139 | mg/kg | | 3.7 | BKA0468 | 1/29/25 11:13 | 2/14/25 13:09 | EPA 6010D | HRD |



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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 | 02/24/2025 06:47 |

## Annual Ash

### MKA0038-01 (Solid) - Chain of Custody Number:

| Analyte | Result | LOD | LOQ | Units | Analyte Qualifier | Dilution | Batch | Prepared | Analyzed | Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **TCLP Metals** | | | | | | | | | | | |
| Mercury | < 0.0570 | 0.0570 | 0.190 | ug/L | | 1 | BKA0223 | 1/15/25 7:32 | 1/15/25 14:59 | EPA 245.1/7470A | HRD |
| **TCLP Metals by ICPMS** | | | | | | | | | | | |
| Silver | < 0.434 | 0.434 | 1.45 | ug/L | | 50 | BKA0225 | 1/15/25 7:46 | 1/16/25 8:25 | EPA 6020B | CRL |
| Arsenic | < 5.62 | 5.62 | 18.7 | ug/L | | 50 | BKA0225 | 1/15/25 7:46 | 1/16/25 8:25 | EPA 6020B | CRL |
| **Barium** | 3450 | 4.44 | 14.8 | ug/L | | 50 | BKA0225 | 1/15/25 7:46 | 1/16/25 8:25 | EPA 6020B | CRL |
| Cadmium | < 1.97 | 1.97 | 6.56 | ug/L | | 50 | BKA0225 | 1/15/25 7:46 | 1/16/25 8:25 | EPA 6020B | CRL |
| Chromium | < 51.4 | 51.4 | 171 | ug/L | | 50 | BKA0225 | 1/15/25 7:46 | 1/16/25 8:25 | EPA 6020B | CRL |
| Lead | < 2.04 | 2.04 | 6.80 | ug/L | | 50 | BKA0225 | 1/15/25 7:46 | 1/16/25 8:25 | EPA 6020B | CRL |
| Selenium | < 7.04 | 7.04 | 23.5 | ug/L | | 50 | BKA0225 | 1/15/25 7:46 | 1/16/25 8:25 | EPA 6020B | CRL |
| **Fuel Analysis** | | | | | | | | | | | |
| **Mercury** | 0.976 | 0.00897 | 0.0299 | mg/kg | | 1 | BKB0006 | 2/3/25 9:29 | 2/5/25 12:43 | EPA 7473 | JRL |
| **TCLP Leachate pH** | | | | | | | | | | | |
| **pH** | 10.2 | | | pH Units | | 1 | BKA0184 | 1/13/25 11:57 | 1/15/25 7:09 | SM 4500-H+ B | CRL |



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Minneapolis Testing Laboratory
1518 Chestnut Ave N
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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 | 02/24/2025 06:47 |

## Total Metals by ICPMS - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BKA0469 - EPA 3051A** | | | | | | | | | | | |
| **Blank (BKA0469-BLK1)** | | | | | Prepared: 01/29/2025 Analyzed: 02/20/2025 | | | | | | |
| Antimony | <0.379 | 0.379 | 1.2617 | mg/kg | | | | | | | |
| Silver | <0.0265 | 0.0265 | 0.088429 | mg/kg | | | | | | | |
| Chromium | <0.690 | 0.690 | 2.3016 | mg/kg | | | | | | | |
| Barium | <0.422 | 0.422 | 1.4055 | mg/kg | | | | | | | |
| Cadmium | <0.433 | 0.433 | 1.4445 | mg/kg | | | | | | | |
| Lead | <0.221 | 0.221 | 0.73520 | mg/kg | | | | | | | |
| Arsenic | <0.654 | 0.654 | 2.1814 | mg/kg | | | | | | | |
| Selenium | <0.587 | 0.587 | 1.9558 | mg/kg | | | | | | | |
| **LCS (BKA0469-BS1)** | | | | | Prepared: 01/29/2025 Analyzed: 02/20/2025 | | | | | | |
| Chromium | 105.56 | 0.690 | 2.3016 | mg/kg | 100.00 | | 106 | 80-120 | | | |
| Barium | 90.787 | 0.422 | 1.4055 | mg/kg | 100.00 | | 90.8 | 80-120 | | | |
| Lead | 88.014 | 0.221 | 0.73520 | mg/kg | 100.00 | | 88.0 | 80-120 | | | |
| Antimony | 98.966 | 0.379 | 1.2617 | mg/kg | 100.00 | | 99.0 | 80-120 | | | |
| Arsenic | 96.412 | 0.654 | 2.1814 | mg/kg | 100.00 | | 96.4 | 80-120 | | | |
| Cadmium | 98.310 | 0.433 | 1.4445 | mg/kg | 100.00 | | 98.3 | 80-120 | | | |
| Silver | 9.6425 | 0.0265 | 0.088429 | mg/kg | 10.000 | | 96.4 | 80-120 | | | |
| Selenium | 91.992 | 0.587 | 1.9558 | mg/kg | 100.00 | | 92.0 | 80-120 | | | |
| **Duplicate (BKA0469-DUP1)** | | | **Source: MKA0090-01** | | Prepared: 01/29/2025 Analyzed: 02/20/2025 | | | | | | |
| Selenium | 1.1538 | 0.567 | 1.8893 | mg/kg | | 0.94275 | | | 20.1 | 35 | |
| Barium | 698.01 | 0.407 | 1.3577 | mg/kg | | 637.57 | | | 9.05 | 35 | |
| Arsenic | 26.989 | 0.632 | 2.1072 | mg/kg | | 24.572 | | | 9.38 | 35 | |
| Cadmium | 27.470 | 0.419 | 1.3953 | mg/kg | | 24.840 | | | 10.1 | 35 | |
| Silver | 3.2017 | 0.0256 | 0.085423 | mg/kg | | 2.7029 | | | 16.9 | 35 | |
| Chromium | 86.702 | 0.667 | 2.2233 | mg/kg | | 75.123 | | | 14.3 | 35 | |
| Lead | 912.04 | 0.213 | 0.71020 | mg/kg | | 844.33 | | | 7.71 | 35 | |
| Antimony | 74.928 | 0.366 | 1.2188 | mg/kg | | 64.626 | | | 14.8 | 35 | |



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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 | 02/24/2025 06:47 |

## Total Metals by ICPMS - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BKA0469 - EPA 3051A** | | | | | | | | | | | |
| **Duplicate (BKA0469-DUP2)** | | **Source: MKA0093-01** | | | Prepared: 01/29/2025 Analyzed: 02/20/2025 | | | | | | |
| Barium | 646.12 | 0.351 | 1.1701 | mg/kg | | 609.86 | | | 5.77 | 35 | |
| Silver | 2.5650 | 0.0221 | 0.073618 | mg/kg | | 3.1637 | | | 20.9 | 35 | |
| Arsenic | 20.962 | 0.545 | 1.8160 | mg/kg | | 21.067 | | | 0.498 | 35 | |
| Lead | 909.49 | 0.184 | 0.61205 | mg/kg | | 899.77 | | | 1.07 | 35 | |
| Antimony | 73.501 | 0.315 | 1.0504 | mg/kg | | 48.004 | | | 42.0 | 35 | M_D |
| Cadmium | 110.90 | 0.361 | 1.2025 | mg/kg | | 32.974 | | | 108 | 35 | M_D |
| Selenium | 1.2933 | 0.488 | 1.6282 | mg/kg | | 1.1757 | | | 9.52 | 35 | |
| Chromium | 100.22 | 0.575 | 1.9160 | mg/kg | | 119.75 | | | 17.8 | 35 | |
| **Matrix Spike (BKA0469-MS1)** | | **Source: MKA0090-01** | | | Prepared: 01/29/2025 Analyzed: 02/20/2025 | | | | | | |
| Chromium | 213.00 | 0.661 | 2.2046 | mg/kg | 95.785 | 75.123 | 144 | 75-125 | | | M_MS |
| Barium | 914.14 | 0.404 | 1.3462 | mg/kg | 95.785 | 637.57 | 289 | 75-125 | | | M_MS |
| Silver | 12.349 | 0.0254 | 0.084703 | mg/kg | 9.5785 | 2.7029 | 101 | 75-125 | | | |
| Lead | 990.69 | 0.211 | 0.70421 | mg/kg | 95.785 | 844.33 | 153 | 75-125 | | | M_MS |
| Cadmium | 138.70 | 0.415 | 1.3836 | mg/kg | 95.785 | 24.840 | 119 | 75-125 | | | |
| Selenium | 90.198 | 0.562 | 1.8734 | mg/kg | 95.785 | 0.94275 | 93.2 | 75-125 | | | |
| Arsenic | 140.09 | 0.627 | 2.0895 | mg/kg | 95.785 | 24.572 | 121 | 75-125 | | | |
| Antimony | 203.66 | 0.363 | 1.2085 | mg/kg | 95.785 | 64.626 | 145 | 75-125 | | | M_MS |
| **Matrix Spike (BKA0469-MS2)** | | **Source: MKA0093-01** | | | Prepared: 01/29/2025 Analyzed: 02/20/2025 | | | | | | |
| Cadmium | 166.98 | 0.432 | 1.4393 | mg/kg | 99.641 | 32.974 | 134 | 75-125 | | | M_MS |
| Barium | 814.63 | 0.420 | 1.4004 | mg/kg | 99.641 | 609.86 | 206 | 75-125 | | | M_MS |
| Chromium | 241.81 | 0.688 | 2.2933 | mg/kg | 99.641 | 119.75 | 123 | 75-125 | | | |
| Lead | 1031.1 | 0.220 | 0.73256 | mg/kg | 99.641 | 899.77 | 132 | 75-125 | | | M_MS |
| Arsenic | 139.34 | 0.652 | 2.1736 | mg/kg | 99.641 | 21.067 | 119 | 75-125 | | | |
| Antimony | 226.26 | 0.377 | 1.2572 | mg/kg | 99.641 | 48.004 | 179 | 75-125 | | | M_MS |
| Selenium | 93.374 | 0.585 | 1.9488 | mg/kg | 99.641 | 1.1757 | 92.5 | 75-125 | | | |
| Silver | 12.905 | 0.0264 | 0.088112 | mg/kg | 9.9641 | 3.1637 | 97.8 | 75-125 | | | |



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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 | 02/24/2025 06:47 |

## Total Metals by ICPMS - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BKA0469 - EPA 3051A** | | | | | | | | | | | |
| **Matrix Spike Dup (BKA0469-MSD1)** | | **Source: MKA0090-01** | | | Prepared: 01/29/2025 Analyzed: 02/20/2025 | | | | | | |
| Barium | 866.73 | 0.352 | 1.1746 | mg/kg | 83.570 | 637.57 | 274 | 75-125 | 5.32 | 35 | M_MS |
| Silver | 10.277 | 0.0222 | 0.073901 | mg/kg | 8.3570 | 2.7029 | 90.6 | 75-125 | 18.3 | 35 | |
| Arsenic | 120.65 | 0.547 | 1.8230 | mg/kg | 83.570 | 24.572 | 115 | 75-125 | 14.9 | 35 | |
| Cadmium | 121.35 | 0.362 | 1.2071 | mg/kg | 83.570 | 24.840 | 115 | 75-125 | 13.3 | 35 | |
| Chromium | 180.21 | 0.577 | 1.9234 | mg/kg | 83.570 | 75.123 | 126 | 75-125 | 16.7 | 35 | M_MS |
| Selenium | 76.602 | 0.490 | 1.6345 | mg/kg | 83.570 | 0.94275 | 90.5 | 75-125 | 16.3 | 35 | |
| Lead | 919.11 | 0.184 | 0.61441 | mg/kg | 83.570 | 844.33 | 89.5 | 75-125 | 7.50 | 35 | |
| Antimony | 161.50 | 0.316 | 1.0544 | mg/kg | 83.570 | 64.626 | 116 | 75-125 | 23.1 | 35 | |
| **Matrix Spike Dup (BKA0469-MSD2)** | | **Source: MKA0093-01** | | | Prepared: 01/29/2025 Analyzed: 02/20/2025 | | | | | | |
| Silver | 10.709 | 0.0229 | 0.076259 | mg/kg | 8.6237 | 3.1637 | 87.5 | 75-125 | 18.6 | 35 | |
| Barium | 754.09 | 0.364 | 1.2120 | mg/kg | 86.237 | 609.86 | 167 | 75-125 | 7.72 | 35 | M_MS |
| Cadmium | 221.95 | 0.374 | 1.2457 | mg/kg | 86.237 | 32.974 | 219 | 75-125 | 28.3 | 35 | M_MS |
| Arsenic | 119.42 | 0.564 | 1.8812 | mg/kg | 86.237 | 21.067 | 114 | 75-125 | 15.4 | 35 | |
| Chromium | 230.00 | 0.595 | 1.9848 | mg/kg | 86.237 | 119.75 | 128 | 75-125 | 5.01 | 35 | M_MS |
| Selenium | 80.206 | 0.506 | 1.6866 | mg/kg | 86.237 | 1.1757 | 91.6 | 75-125 | 15.2 | 35 | |
| Lead | 1031.9 | 0.190 | 0.63401 | mg/kg | 86.237 | 899.77 | 153 | 75-125 | 0.0769 | 35 | M_MS |
| Antimony | 179.70 | 0.326 | 1.0880 | mg/kg | 86.237 | 48.004 | 153 | 75-125 | 22.9 | 35 | M_MS |
| **Reference (BKA0469-SRM1)** | | | | | Prepared: 01/29/2025 Analyzed: 02/20/2025 | | | | | | |
| Selenium | 205.01 | 0.467 | 1.5559 | mg/kg | 205.00 | | 100 | 57.4-110 | | | |
| Antimony | 37.250 | 0.301 | 1.0037 | mg/kg | 49.200 | | 75.7 | 10-140 | | | |
| Barium | 629.82 | 0.335 | 1.1181 | mg/kg | 548.00 | | 115 | 62.9-110 | | | |
| Cadmium | 281.78 | 0.345 | 1.1491 | mg/kg | 238.00 | | 118 | 63.5-110 | | | |
| Arsenic | 52.085 | 0.521 | 1.7354 | mg/kg | 45.800 | | 114 | 59.1-110 | | | |
| Chromium | 179.40 | 0.549 | 1.8310 | mg/kg | 143.00 | | 125 | 59.8-111 | | | |
| Silver | 15.348 | 0.0211 | 0.070350 | mg/kg | 24.700 | | 62.1 | 57.3-114 | | | |
| Lead | 105.28 | 0.175 | 0.58488 | mg/kg | 106.00 | | 99.3 | 60.2-110 | | | |



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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 | 02/24/2025 06:47 |

## Total Metals by ICP - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BKA0468 - EPA 3051A** | | | | | | | | | | | |
| **Blank (BKA0468-BLK1)** | | | | | Prepared: 01/29/2025 Analyzed: 02/14/2025 | | | | | | |
| Aluminum | <16.6 | 16.6 | 55.333 | mg/kg | | | | | | | |
| Sodium | <150 | 150 | 500.00 | mg/kg | | | | | | | |
| Magnesium | <200 | 200 | 666.66 | mg/kg | | | | | | | |
| Calcium | <158 | 158 | 526.66 | mg/kg | | | | | | | M_B-07 |
| Potassium | <213 | 213 | 709.99 | mg/kg | | | | | | | |
| Iron | <2.29 | 2.29 | 7.6333 | mg/kg | | | | | | | |
| Zinc | <2.24 | 2.24 | 7.4666 | mg/kg | | | | | | | |
| Boron | <11.9 | 11.9 | 39.666 | mg/kg | | | | | | | |
| **LCS (BKA0468-BS1)** | | | | | Prepared: 01/29/2025 Analyzed: 02/14/2025 | | | | | | |
| Potassium | <213 | 213 | 709.99 | mg/kg | 10000 | | 108 | 80-120 | | | |
| Magnesium | <200 | 200 | 666.66 | mg/kg | 10000 | | 104 | 80-120 | | | |
| Sodium | <150 | 150 | 500.00 | mg/kg | 10000 | | 103 | 80-120 | | | |
| Iron | <2.29 | 2.29 | 7.6333 | mg/kg | 100.00 | | 102 | 80-120 | | | |
| Boron | <11.9 | 11.9 | 39.666 | mg/kg | 100.00 | | 101 | 80-120 | | | |
| Calcium | <158 | 158 | 526.66 | mg/kg | 10000 | | 104 | 80-120 | | | |
| Zinc | <2.24 | 2.24 | 7.4666 | mg/kg | 100.00 | | 103 | 80-120 | | | |
| Aluminum | <16.6 | 16.6 | 55.333 | mg/kg | 100.00 | | 101 | 80-120 | | | |
| **Duplicate (BKA0468-DUP1)** | | | | | **Source: MKA0090-01** | Prepared: 01/29/2025 Analyzed: 02/14/2025 | | | | | |
| Zinc | <43.3 | 43.3 | 144.25 | mg/kg | | <43.3 | | | 1.39 | 20 | |
| Boron | <230 | 230 | 766.35 | mg/kg | | <230 | | | | 20 | |
| Iron | <44.2 | 44.2 | 147.47 | mg/kg | | <44.2 | | | 1.81 | 20 | |
| Sodium | <2900 | 2900 | 9659.9 | mg/kg | | <2900 | | | 1.94 | 20 | |
| Magnesium | <3860 | 3860 | 12880 | mg/kg | | <3860 | | | 0.0802 | 20 | |
| Potassium | 9039.8 | 4120 | 13717 | mg/kg | | 8600.0 | | | 4.99 | 20 | |
| Calcium | <3050 | 3050 | 10175 | mg/kg | | <3050 | | | 2.89 | 20 | |
| Aluminum | <321 | 321 | 1069.0 | mg/kg | | <321 | | | 13.2 | 20 | |



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|---|---|---|
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| 1414 West Hamilton Ave | | **Reported:** |
| Eau Claire WI, 54701 | Project Manager: Brad Giese | 02/24/2025 06:47 |

## Total Metals by ICP - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BKA0468 - EPA 3051A** | | | | | | | | | | | |
| **Duplicate (BKA0468-DUP2)** | | **Source: MKA0093-01** | | | Prepared: 01/29/2025 Analyzed: 02/14/2025 | | | | | | |
| Boron | 236.64 | 198 | 660.44 | mg/kg | | 222.45 | | | 6.18 | 20 | |
| Potassium | 8651.1 | 3550 | 11821 | mg/kg | | 7824.5 | | | 10.0 | 20 | |
| Magnesium | <3330 | 3330 | 11100 | mg/kg | | <3330 | | | 3.06 | 20 | |
| Calcium | <2630 | 2630 | 8768.9 | mg/kg | | <2630 | | | 0.0180 | 20 | |
| Sodium | <2500 | 2500 | 8324.9 | mg/kg | | <2500 | | | 0.721 | 20 | |
| Iron | <38.1 | 38.1 | 127.09 | mg/kg | | <38.1 | | | 0.701 | 20 | |
| Zinc | 3960.2 | 37.3 | 124.32 | mg/kg | | 3853.1 | | | 2.74 | 20 | |
| Aluminum | 34924 | 276 | 921.29 | mg/kg | | 29717 | | | 16.1 | 20 | |
| **Matrix Spike (BKA0468-MS1)** | | **Source: MKA0090-01** | | | Prepared: 01/29/2025 Analyzed: 02/14/2025 | | | | | | |
| Calcium | <3030 | 3030 | 10089 | mg/kg | 9578.5 | <3030 | 113 | 75-125 | | | |
| Iron | <43.9 | 43.9 | 146.23 | mg/kg | 95.785 | <43.9 | NR | 75-125 | | | M_MS |
| Potassium | <4080 | 4080 | 13601 | mg/kg | 9578.5 | 8600.0 | 115 | 75-125 | | | |
| Aluminum | <318 | 318 | 1060.0 | mg/kg | 95.785 | <318 | NR | 75-125 | | | M_MS |
| Magnesium | <3830 | 3830 | 12771 | mg/kg | 9578.5 | <3830 | 106 | 75-125 | | | |
| Sodium | 30512 | 2870 | 9578.4 | mg/kg | 9578.5 | <2870 | 111 | 75-125 | | | |
| Boron | 336.82 | 228 | 759.89 | mg/kg | 95.785 | <228 | 352 | 75-125 | | | M_MS |
| Zinc | <42.9 | 42.9 | 143.04 | mg/kg | 95.785 | <42.9 | 265 | 75-125 | | | M_MS |
| **Matrix Spike (BKA0468-MS2)** | | **Source: MKA0093-01** | | | Prepared: 01/29/2025 Analyzed: 02/14/2025 | | | | | | |
| Zinc | <44.6 | 44.6 | 148.80 | mg/kg | 99.641 | <44.6 | 235 | 75-125 | | | M_MS |
| Magnesium | <3990 | 3990 | 13285 | mg/kg | 9964.1 | <3990 | 106 | 75-125 | | | |
| Sodium | <2990 | 2990 | 9964.0 | mg/kg | 9964.1 | <2990 | 105 | 75-125 | | | |
| Aluminum | <331 | 331 | 1102.7 | mg/kg | 99.641 | <331 | NR | 75-125 | | | M_MS |
| Calcium | <3150 | 3150 | 10495 | mg/kg | 9964.1 | <3150 | 42.5 | 75-125 | | | M_MS |
| Potassium | <4240 | 4240 | 14149 | mg/kg | 9964.1 | 7824.5 | 117 | 75-125 | | | |
| Boron | 356.68 | 237 | 790.48 | mg/kg | 99.641 | <237 | 358 | 75-125 | | | M_MS |
| Iron | <45.6 | 45.6 | 152.12 | mg/kg | 99.641 | <45.6 | NR | 75-125 | | | M_MS |



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| 1414 West Hamilton Ave | | **Reported:** |
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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 BKA0468 - EPA 3051A** | | | | | | | | | | | |
| **Matrix Spike Dup (BKA0468-MSD1)** | | **Source: MKA0090-01** | | | Prepared: 01/29/2025 Analyzed: 02/14/2025 | | | | | | |
| Boron | 308.32 | 199 | 662.98 | mg/kg | 83.570 | 207.75 | 120 | 75-125 | 8.83 | 20 | |
| Calcium | <2640 | 2640 | 8802.6 | mg/kg | 8357.0 | <2640 | 112 | 75-125 | 1.18 | 20 | |
| Aluminum | 28212 | 277 | 924.83 | mg/kg | 83.570 | 30873 | NR | 75-125 | 0.259 | 20 | M_MS |
| Zinc | 3846.9 | 37.4 | 124.80 | mg/kg | 83.570 | 3769.9 | 92.1 | 75-125 | 4.50 | 20 | |
| Iron | <38.3 | 38.3 | 127.58 | mg/kg | 83.570 | <38.3 | NR | 75-125 | 1.41 | 20 | M_MS |
| Potassium | <3560 | 3560 | 11867 | mg/kg | 8357.0 | 8600.0 | 118 | 75-125 | 5.97 | 20 | |
| Sodium | 29067 | 2510 | 8356.9 | mg/kg | 8357.0 | <2510 | 110 | 75-125 | 4.85 | 20 | |
| Magnesium | <3340 | 3340 | 11143 | mg/kg | 8357.0 | <3340 | 107 | 75-125 | 6.35 | 20 | |
| **Matrix Spike Dup (BKA0468-MSD2)** | | **Source: MKA0093-01** | | | Prepared: 01/29/2025 Analyzed: 02/14/2025 | | | | | | |
| Magnesium | <3450 | 3450 | 11498 | mg/kg | 8623.7 | <3450 | 111 | 75-125 | 4.73 | 20 | |
| Calcium | <2730 | 2730 | 9083.5 | mg/kg | 8623.7 | <2730 | 128 | 75-125 | 4.35 | 20 | M_MS |
| Aluminum | 37387 | 286 | 954.34 | mg/kg | 86.237 | 29717 | NR | 75-125 | 28.0 | 20 | M_MS |
| Sodium | 28174 | 2590 | 8623.6 | mg/kg | 8623.7 | <2590 | 113 | 75-125 | 2.66 | 20 | |
| Potassium | <3670 | 3670 | 12245 | mg/kg | 8623.7 | 7824.5 | 123 | 75-125 | 5.56 | 20 | |
| Iron | <39.5 | 39.5 | 131.65 | mg/kg | 86.237 | <39.5 | NR | 75-125 | 0.688 | 20 | M_MS |
| Boron | 337.22 | 205 | 684.14 | mg/kg | 86.237 | 222.45 | 133 | 75-125 | 5.61 | 20 | M_MS |
| Zinc | 5419.1 | 38.6 | 128.78 | mg/kg | 86.237 | 3853.1 | NR | 75-125 | 28.0 | 20 | M_MS |
| **Reference (BKA0468-SRM1)** | | | | | Prepared: 01/29/2025 Analyzed: 02/14/2025 | | | | | | |
| Boron | <9.47 | 9.47 | 31.556 | mg/kg | 84.100 | | 97.3 | 49.5-116 | | | |
| Magnesium | 18184 | 159 | 530.36 | mg/kg | 17900 | | 102 | 65.1-110 | | | |
| Potassium | 4641.0 | 169 | 564.83 | mg/kg | 4640.0 | | 100 | 59.2-117 | | | |
| Sodium | 8673.2 | 119 | 397.77 | mg/kg | 8510.0 | | 102 | 57.4-111 | | | |
| Aluminum | 7644.1 | 132 | 440.20 | mg/kg | 9360.0 | | 81.7 | 50.6-146 | | | |
| Calcium | 8472.6 | 126 | 418.98 | mg/kg | 8330.0 | | 102 | 63.9-110 | | | |
| Iron | <18.2 | 18.2 | 60.726 | mg/kg | 15400 | | 72.6 | 34-146 | | | |
| Zinc | 494.70 | 1.78 | 5.9400 | mg/kg | 488.00 | | 101 | 59.1-110 | | | |



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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 | 02/24/2025 06:47 |

## TCLP Metals - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BKA0223 - EPA 245.1, EPA 7470A** | | | | | | | | | | | |
| **Blank (BKA0223-BLK1)** | | | | | Prepared & Analyzed: 01/15/2025 | | | | | | |
| Mercury | <0.0570 | 0.0570 | 0.19000 | ug/L | | | | | | | |
| **LCS (BKA0223-BS1)** | | | | | Prepared & Analyzed: 01/15/2025 | | | | | | |
| Mercury | 5.2920 | 0.0570 | 0.19000 | ug/L | 6.0000 | | 88.2 | 85-115 | | | |
| **Duplicate (BKA0223-DUP1)** | | **Source: MJL0154-01** | | | Prepared & Analyzed: 01/15/2025 | | | | | | |
| Mercury | <0.0570 | 0.0570 | 0.19000 | ug/L | | <0.0570 | | | | 20 | |
| **Matrix Spike (BKA0223-MS1)** | | **Source: MJL0154-01** | | | Prepared & Analyzed: 01/15/2025 | | | | | | |
| Mercury | 5.4480 | 0.0570 | 0.19000 | ug/L | 6.0000 | <0.0570 | 90.8 | 70-130 | | | |
| **Matrix Spike Dup (BKA0223-MSD1)** | | **Source: MJL0154-01** | | | Prepared & Analyzed: 01/15/2025 | | | | | | |
| Mercury | 5.3258 | 0.0570 | 0.19000 | ug/L | 6.0000 | <0.0570 | 88.8 | 70-130 | 2.27 | 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 | 02/24/2025 06:47 |

## TCLP Metals by ICPMS - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BKA0225 - EPA 200.2, EPA 3005** | | | | | | | | | | | |
| **Blank (BKA0225-BLK1)** | | | | | Prepared: 01/15/2025 Analyzed: 01/16/2025 | | | | | | |
| Silver | <0.434 | 0.434 | 1.4476 | ug/L | | | | | | | |
| Arsenic | <5.62 | 5.62 | 18.742 | ug/L | | | | | | | |
| Barium | 5.1909 | 4.44 | 14.806 | ug/L | | | | | | | |
| Selenium | <7.04 | 7.04 | 23.468 | ug/L | | | | | | | |
| Cadmium | <1.97 | 1.97 | 6.5616 | ug/L | | | | | | | |
| Chromium | <51.4 | 51.4 | 171.19 | ug/L | | | | | | | |
| Lead | <2.04 | 2.04 | 6.8020 | ug/L | | | | | | | |
| **LCS (BKA0225-BS1)** | | | | | Prepared: 01/15/2025 Analyzed: 01/16/2025 | | | | | | |
| Silver | 95.336 | 0.434 | 1.4476 | ug/L | 100.00 | | 95.3 | 80-120 | | | |
| Arsenic | 990.09 | 5.62 | 18.742 | ug/L | 1000.0 | | 99.0 | 80-120 | | | |
| Barium | 991.09 | 4.44 | 14.806 | ug/L | 1000.0 | | 99.1 | 80-120 | | | |
| Cadmium | 997.96 | 1.97 | 6.5616 | ug/L | 1000.0 | | 99.8 | 80-120 | | | |
| Chromium | 951.15 | 51.4 | 171.19 | ug/L | 1000.0 | | 95.1 | 80-120 | | | |
| Lead | 921.94 | 2.04 | 6.8020 | ug/L | 1000.0 | | 92.2 | 80-120 | | | |
| Selenium | <7.04 | 7.04 | 23.468 | ug/L | 1000.0 | | 102 | 80-120 | | | |
| **Duplicate (BKA0225-DUP1)** | | | **Source: MJL0154-01** | | Prepared: 01/15/2025 Analyzed: 01/16/2025 | | | | | | |
| Arsenic | <5.62 | 5.62 | 18.742 | ug/L | | <5.62 | | | | 20 | |
| Silver | <0.434 | 0.434 | 1.4476 | ug/L | | <0.434 | | | | 20 | |
| Selenium | <7.04 | 7.04 | 23.468 | ug/L | | <7.04 | | | | 20 | |
| Chromium | <51.4 | 51.4 | 171.19 | ug/L | | 89.661 | | | 29.3 | 20 | M_D |
| Barium | <4.44 | 4.44 | 14.806 | ug/L | | <4.44 | | | 34.6 | 20 | M_D |
| Lead | 50.130 | 2.04 | 6.8020 | ug/L | | 5.5968 | | | 160 | 20 | M_D |
| Cadmium | 2.0732 | 1.97 | 6.5616 | ug/L | | <1.97 | | | | 20 | |
| **Matrix Spike (BKA0225-MS1)** | | | **Source: MJL0154-01** | | Prepared: 01/15/2025 Analyzed: 01/16/2025 | | | | | | |
| Silver | 93.864 | 0.434 | 1.4476 | ug/L | 100.00 | <0.434 | 93.9 | 75-125 | | | |
| Selenium | <7.04 | 7.04 | 23.468 | ug/L | 1000.0 | <7.04 | 100 | 75-125 | | | |
| Chromium | <51.4 | 51.4 | 171.19 | ug/L | 1000.0 | 89.661 | 96.2 | 75-125 | | | |
| Lead | 911.67 | 2.04 | 6.8020 | ug/L | 1000.0 | 5.5968 | 90.6 | 75-125 | | | |
| Cadmium | 1014.9 | 1.97 | 6.5616 | ug/L | 1000.0 | <1.97 | 101 | 75-125 | | | |
| Barium | <4.44 | 4.44 | 14.806 | ug/L | 1000.0 | <4.44 | 99.1 | 75-125 | | | |
| Arsenic | 991.80 | 5.62 | 18.742 | ug/L | 1000.0 | <5.62 | 99.2 | 75-125 | | | |



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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 | 02/24/2025 06:47 |

## TCLP Metals by ICPMS - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BKA0225 - EPA 200.2, EPA 3005** | | | | | | | | | | | |
| **Matrix Spike Dup (BKA0225-MSD1)** | | **Source: MJL0154-01** | | | Prepared: 01/15/2025 Analyzed: 01/16/2025 | | | | | | |
| Arsenic | <5.62 | 5.62 | 18.742 | ug/L | 1000.0 | <5.62 | 100 | 75-125 | 0.886 | 20 | |
| Cadmium | 1019.2 | 1.97 | 6.5616 | ug/L | 1000.0 | <1.97 | 102 | 75-125 | 0.421 | 20 | |
| Chromium | <51.4 | 51.4 | 171.19 | ug/L | 1000.0 | 89.661 | 95.3 | 75-125 | 0.908 | 20 | |
| Silver | 95.358 | 0.434 | 1.4476 | ug/L | 100.00 | <0.434 | 95.4 | 75-125 | 1.58 | 20 | |
| Lead | 925.07 | 2.04 | 6.8020 | ug/L | 1000.0 | 5.5968 | 91.9 | 75-125 | 1.46 | 20 | |
| Barium | <4.44 | 4.44 | 14.806 | ug/L | 1000.0 | <4.44 | 100 | 75-125 | 0.981 | 20 | |
| Selenium | 995.63 | 7.04 | 23.468 | ug/L | 1000.0 | <7.04 | 99.6 | 75-125 | 0.464 | 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 | 02/24/2025 06:47 |

## Fuel Analysis - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BKB0006 - Fuel Prep** | | | | | | | | | | | |
| **Duplicate (BKB0006-DUP1)** | | **Source: MKA0038-01** | | | Prepared: 02/03/2025 Analyzed: 02/05/2025 | | | | | | |
| Mercury | 0.91499 | | 0.029900 | mg/kg | | 0.97610 | | | 6.46 | 20 | |
| **Duplicate (BKB0006-DUP2)** | | **Source: MKA0196-01** | | | Prepared: 02/03/2025 Analyzed: 02/06/2025 | | | | | | |
| Mercury | 11.524 | | 0.029900 | mg/kg | | 11.379 | | | 1.26 | 20 | |
| **Matrix Spike (BKB0006-MS1)** | | **Source: MKA0038-01** | | | Prepared: 02/03/2025 Analyzed: 02/05/2025 | | | | | | |
| Mercury | 2123.8 | | 0.051568 | ppb | 1546.3 | 565.96 | 101 | 80-120 | | | |
| **Matrix Spike (BKB0006-MS2)** | | **Source: MKA0196-01** | | | Prepared: 02/03/2025 Analyzed: 02/06/2025 | | | | | | |
| Mercury | 7968.6 | | 0.053907 | ppb | 1638.9 | 6311.6 | 101 | 80-120 | | | |
| **Matrix Spike Dup (BKB0006-MSD1)** | | **Source: MKA0038-01** | | | Prepared: 02/03/2025 Analyzed: 02/05/2025 | | | | | | |
| Mercury | 2104.8 | | 0.053652 | ppb | 1629.2 | 543.97 | 95.8 | 80-120 | 0.903 | 20 | |
| **Matrix Spike Dup (BKB0006-MSD2)** | | **Source: MKA0196-01** | | | Prepared: 02/03/2025 Analyzed: 02/06/2025 | | | | | | |
| Mercury | 7573.7 | | 0.054746 | ppb | 1670.2 | 6214.8 | 81.4 | 80-120 | 5.08 | 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 | 02/24/2025 06:47 |

## TCLP Leachate pH - Quality Control

| Analyte | Result | LOD | LOQ | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch BKA0184 - Wet Prep** | | | | | | | | | | | |
| **Blank (BKA0184-BLK1)** | | | | | Prepared: 01/13/2025 Analyzed: 01/15/2025 | | | | | | |
| pH | 4.8600 | | | pH Units | | | | | | | |
| **LCS (BKA0184-BS1)** | | | | | Prepared: 01/13/2025 Analyzed: 01/15/2025 | | | | | | |
| pH | 7.0500 | | | pH Units | 7.0000 | | 101 | 90-110 | | | |
| **LCS (BKA0184-BS2)** | | | | | Prepared: 01/13/2025 Analyzed: 01/15/2025 | | | | | | |
| pH | 7.0700 | | | pH Units | 7.0000 | | 101 | 90-110 | | | |
| **Duplicate (BKA0184-DUP1)** | | **Source: MJL0154-01** | | | Prepared: 01/13/2025 Analyzed: 01/15/2025 | | | | | | |
| pH | 4.9400 | | | pH Units | | 4.9000 | | | 0.813 | 20 | |



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**Minneapolis Testing Laboratory**
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**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 | 02/24/2025 06:47 |

## 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_E | The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate. |
| 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. |



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Nº 302411

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 Ahnen
Phone #/E-mail Address: 608-793-6084
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, total comp | PCBs | Oil Testing: (Comp) | DGA Furans (circle selection(s)) | Fuels: | Asbestos: | TOX | TOC | | | ** Sample Temperature ° C | ** Sample pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | French Island 4Q 2024 Weekly Ash Composite | Week of 12/16/24 | Comp | | | | | | | | ✓ | | | | | | ✓ | ✓ | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: JAhnen | 12/20/24 Date/Time | Received by: # | 12/26/24 1020 Date/Time |
| Relinquished by: | Date/Time | Received by: | Date/Time |
| Relinquished by: | Date/Time | Received by: | Date/Time |

Comments: Fedex

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

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

January 28, 2025

Steve Davis
Xcel Energy, Inc.
1518 Chestnut Ave
Minneapolis, MN 55414

RE: Project: French Island Annual Ash
Pace Project No.: 10720912

Dear Steve Davis:

Enclosed are the analytical results for sample(s) received by the laboratory on January 13, 2025. 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,

Jonathan Baum

Jonathan Baum
jonathan.baum@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: John Kaczmarek, Xcel Energy

**REPORT OF LABORATORY ANALYSIS**

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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.: 10720912

**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
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.: 10720912

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **10720912001** | **MKA0038-01** | Solid | 01/07/25 06:00 | 01/13/25 12:45 |

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

## SAMPLE ANALYTE COUNT

Project: French Island Annual Ash
Pace Project No.: 10720912

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **10720912001** | **MKA0038-01** | EPA 9060A | DW3 | 4 |
| | | ASTM D 2974-13 (2013) | MLF | 1 |

PASI-DU = Pace Analytical Services - Duluth, MN

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

## ANALYTICAL RESULTS

Project: French Island Annual Ash
Pace Project No.: 10720912

**Sample: MKA0038-01** **Lab ID: 10720912001** Collected: 01/07/25 06:00 Received: 01/13/25 12:45 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<br>Pace Analytical Services - Duluth, MN | | | | | | | |
| RPD% | **0.48** | % | | 1 | | 01/24/25 15:31 | | |
| Total Organic Carbon | **13300** | mg/kg | 2570 | 1 | | 01/24/25 15:23 | 7440-44-0 | |
| Total Organic Carbon | **13400** | mg/kg | 2570 | 1 | | 01/24/25 15:31 | 7440-44-0 | |
| Mean Total Organic Carbon | **13400** | mg/kg | 2570 | 1 | | 01/24/25 15:31 | 7440-44-0 | |
| **Dry Weight DU** | Analytical Method: ASTM D 2974-13 (2013)<br>Pace Analytical Services - Duluth, MN | | | | | | | |
| Percent Moisture | **8.7** | % | 0.10 | 1 | | 01/24/25 13:52 | | N2 |

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

## QUALITY CONTROL DATA

Project: French Island Annual Ash
Pace Project No.: 10720912

QC Batch: 989355
QC Batch Method: EPA 9060A
Analysis Method: EPA 9060A
Analysis Description: 9060 TOC Average DU
Laboratory: Pace Analytical Services - Duluth, MN
Associated Lab Samples: 10720912001

METHOD BLANK: 5165689 Matrix: Solid
Associated Lab Samples: 10720912001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | ND | 591 | 01/24/25 15:00 | |

LABORATORY CONTROL SAMPLE: 5165690

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/kg | 6810 | 6360 | 93 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5165691 5165692

| Parameter | Units | 10720912001 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 | 13400 | 27100 | 26800 | 40700 | 40800 | 101 | 102 | 75-125 | 0 | 20 | |

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

## REPORT OF LABORATORY ANALYSIS

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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.: 10720912

QC Batch: 989402
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: 10720912001

SAMPLE DUPLICATE: 5165987

| Parameter | Units | 10721253008 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 9.4 | 9.1 | 3 | 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.**

## REPORT OF LABORATORY ANALYSIS

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

# QUALIFIERS

Project: French Island Annual Ash
Pace Project No.: 10720912

## 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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Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: French Island Annual Ash
Pace Project No.: 10720912

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **10720912001** | **MKA0038-01** | EPA 9060A | 989355 | | |
| **10720912001** | **MKA0038-01** | EPA 9060A | 989357 | | |
| **10720912001** | **MKA0038-01** | ASTM D 2974-13 (2013) | 989402 | | |



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Xcel Energy

| | |
|---|---|
| Minneapolis Testing Laboratory (MTL) | Form: MTL-845a |
| Title: Lab Chain Of Custody (COC) Form | Revision: 1.0 |
| | Revision Date: 12/14/2023 |
| | Client Reference COC No.: |

Minneapolis Testing Laboratory
1518 Chestnut Avenue North Minneapolis, MN 55403
Phone (612) 630-4506

| | |
|---|---|
| Sampler Fields (Shaded) | **Lab Fields |
| Facility/Location: | |
| Project Name: | French Island Annual Ash |
| Project Manager: | Steve Davis |
| Phone/Email Address: | harry.s.davis.III@xcelenergy.com |
| Sampled By: | Brad Giese |
| PO | 4501699517 |

WO#: 10720912
10720912

| Field Sample ID/Location | Collect Date | Collect Time | Matrix | # of Containers for Sample Point | TOC EPA 9060A | O | |
|---|---|---|---|---|---|---|---|
| MKA0038-01 | 1/7/2025 | 0600 am | S | 1 | X | | CA |
| | | | | | | | |
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Sample Matrix: (W) Water, (S) Solid, (SL) Sludge, (O) Oil, (A) Air, (GC) Gas Condensate, (W-O) Oil Wipe, (W-GC) Gas Condensate Wipe, (X) Other

**pH Strip ID/Lot:

Client Comments or Requests:

| | Date: | Time: | | Date: | Time: |
|---|---|---|---|---|---|
| Relinquished By (1): | 1/13/25 | 1245 | Received By (1): Pace | 1-13-25 | 1245 |
| Relinquished By (2): | | | Received By (2): | | |
| Relinquished By (3): | | | Received By (3): | | |

**Lab Receipt

Lab Arrival:
- ☐ Client Delivery
- ☐ UPS
- ☐ USPS
- ☐ FedEx
- ☐ Courier
- ☐ Intercompany Mail

On Ice? ☐ Yes ☐ No

Corrected Temp (°C)

Thermometer ID/SN:

Lab Comments:

# ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

**CLIENT NAME:** Xcel **PROJECT #:** WO# : 10720912

PM: JDB2 Due Date: 01/27/25

CLIENT: XCEL

**COURIER:** ☑ Client ☐ Commercial ☐ FedEx ☐ Pace ☐ SpeeDee ☐ UPS ☐ USPS

**TRACKING NUMBER:** _____ ☐ See Exceptions form 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 Bags ☐ Bubble Wrap ☑ None ☐ Other **Temp Blank:** ☑ YES ☐ NO **Type of Ice:** ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

**Thermometer:** ☐ T1 (0461) ☐ T2 (0436) ☑ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710)

| | |
|---|---|
| **Did Samples Originate in West Virginia:** ☐ YES ☑ NO | **Were All Container Temps taken:** ☐ YES ☐ NO ☑ N/A |
| **Correction Factor:** -0.1 **Cooler Temp Read w/Temp Blank:** 1.5 °C **Cooler Temp Corrected w/Temp Blank:** 1.4 °C | **Average Corrected Temp (no Temp Blank Only):** _____ °C |
| ***NOTE:** Temp should be above freezing to 6°C.* | ☐ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container |
| **USDA Regulated Soil:** ☐ N/A – Water Sample/Other (describe): _____ | **Initials & Date of Person Examining Contents:** MM 1/13/25 |
| Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☑ NO | Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☑ NO |
| **NOTE: 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 | YES | NO | N/A | COMMENT(S) |
|---|---|---|---|---|
| Chain of Custody Present and Filled Out? | ☑ | ☐ | | 1. |
| Chain of Custody Relinquished? | ☑ | ☐ | | 2. |
| Sampler Name and/or Signature on COC? | ☑ | ☐ | ☐ | 3. |
| Samples Arrived within Hold Time? | ☑ | ☐ | | 4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐ No |
| **Short Hold Time Analysis (<72 hr)?** | ☐ | ☑ | | 5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Other: _____ |
| **Rush Turn Around Time Requested?** | ☐ | ☑ | | 6. |
| Sufficient Sample Volume? | ☑ | ☐ | | 7. |
| Correct Containers Used? | ☑ | ☐ | ☐ | 8. |
| – Pace Containers Used? | ☐ | ☑ | | zplc |
| Containers Intact? | ☑ | ☐ | | 9. |
| Field Filtered Volume Received for Dissolved Tests? | ☐ | ☐ | ☑ | 10. Is sediment visible in the dissolved container: ☐ YES ☐ NO |
| Is sufficient information available to reconcile the samples to the COC? **NOTE:** If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☑ Soil ☐ Water ☐ Other | ☑ | ☐ | | **11. If NO, write ID/Date/Time of container below:** ☐ See Exceptions form ENV-FRM-MIN4-0142 |
| All containers needing acid/base preservation have been checked? | ☐ | ☐ | ☑ | 12. Sample #: |
| All containers needing preservation are found to be in compliance with EPA recommendation? ($HNO_3$, $H_2SO_4$, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) | ☐ | ☐ | ☑ | ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ NaOH ☐ Zinc Acetate |
| Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS | ☐ | ☐ | ☑ | Positive for Residual Chlorine: ☐ YES ☐ NO |
| **NOTE:** If adding preservation to the container, **verify with the PM first.** Clients may require adding preservative to the field and equipment blanks when this occurs. | | | | **pH Paper Lot #** |
| | | | | Residual Chlorine / 0-6 Roll / 0-6 Strip / 0-14 Strip |
| | | | | ☐ See Exceptions form ENV-FRM-MIN4-0142 |
| Headspace in Methyl Mercury Container? | ☐ | ☐ | ☑ | 13. |
| Extra labels present on soil VOA or WIDRO containers? | ☐ | ☐ | ☑ | 14. |
| Headspace in VOA Vials (greater than 6mm)? | ☐ | ☐ | ☑ | ☐ See Exceptions form ENV-FRM-MIN4-0140 |
| Trip Blanks Present? | ☐ | ☐ | ☑ | 15. |
| Trip Blank Custody Seals Present? | ☐ | ☐ | ☑ | Pace Trip Blank Lot # (if purchased): _____ |

**CLIENT NOTIFICATION / RESOLUTION** **FIELD DATA REQUIRED:** ☐ YES ☐ NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

**Project Manager Review:** Jonathan Baum **Date:** 01/14/25

***NOTE:** When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).*

**Labeled By:** RMR **Line:** 2

# Intra-Regional Chain of Custody

Pace Analytical®
www.pacelabs.com

**Workorder:** 10720912 **Workorder Name:** French Island Annual Ash **Owner Received Date:** 1/13/2025 **Due Date:** 1/27/2025

| Received at: | Send To Lab: |
|---|---|
| Pace Analytical Minnesota<br>1700 Elm Street<br>Minneapolis, MN 55414<br>Phone (612)607-1700 | Pace Analytical Duluth<br>4730 Oneota St.<br>Duluth, MN 55807<br>Phone (218) 727-6380 |

**Report To:**
Jonathan Baum

ZPLU

| Item | 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 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | MKA0038-01 | PS | 1/7/2025 06:00 | 10720912001 | Solid | 1 | X | X | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| Transfers | Released By | Date/Time | Received By | Date/Time |
|---|---|---|---|---|
| | Nick J/Pace | 1/15/25 0915 | | 1/15/25 1050 |
| | | 1/15/25 1450 | | 01/15/25 14:50 |
| | | | | |
| | | | | |

**Comments**

**Cooler Temperature on Receipt** 1.3 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

* *In 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 30 of 32 MKA0038 Xcel General Report WI FINAL 02 24 2025 0647

# ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

**CLIENT NAME:** MPLS **PROJECT #:** 10720912 *Place LIMS WO Label Here*

**COURIER:** ☐ Client ☐ Commercial ☐ FedEx ☒ Pace ☐ SpeeDee ☐ UPS ☐ USPS

**TRACKING NUMBER:** _____ ☐ See Exceptions form 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 Bags ☒ Bubble Wrap ☐ None ☐ Other **Temp Blank:** ☒ YES ☐ NO **Type of Ice:** ☐ Blue ☐ Dry ☒ Wet ☐ Melted ☐ None

**Thermometer:** ☐ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☒ 01339252 (1710)

| | |
|---|---|
| **Did Samples Originate in West Virginia:** ☐ YES ☒ NO | **Were All Container Temps taken:** ☐ YES ☐ NO ☒ N/A |
| **Correction Factor:** -0.1 **Cooler Temp Read w/Temp Blank:** 1.4 °C **Cooler Temp Corrected w/Temp Blank:** 1.3 °C | **Average Corrected Temp (no Temp Blank Only):** _____ °C |
| ***NOTE:*** *Temp should be above freezing to 6°C.* | ☐ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container |
| **USDA Regulated Soil:** ☒ N/A – Water Sample/Other (describe): _____ | **Initials & Date of Person Examining Contents:** AK 01/15/25 |
| Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☒ NO | Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☒ NO |
| **NOTE: 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** | **YES** | **NO** | **N/A** | **COMMENT(S)** |
|---|---|---|---|---|
| Chain of Custody Present and Filled Out? | ☒ | ☐ | | 1. |
| Chain of Custody Relinquished? | ☒ | ☐ | | 2. |
| Sampler Name and/or Signature on COC? | ☐ | ☐ | ☒ | 3. |
| Samples Arrived within Hold Time? | ☒ | ☐ | | 4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐ No |
| **Short Hold Time Analysis (<72 hr)?** | ☐ | ☒ | | 5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Other: _____ |
| **Rush Turn Around Time Requested?** | ☐ | ☒ | | 6. |
| Sufficient Sample Volume? | ☒ | ☐ | | 7. |
| Correct Containers Used? | ☒ | ☐ | ☐ | 8. |
| – Pace Containers Used? | ☒ | ☐ | | |
| Containers Intact? | ☒ | ☐ | | 9. |
| Field Filtered Volume Received for Dissolved Tests? | ☐ | ☐ | ☒ | 10. Is sediment visible in the dissolved container: ☐ YES ☐ NO |
| Is sufficient information available to reconcile the samples to the COC? **NOTE:** If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☒ Soil ☐ Water ☐ Other | ☒ | ☐ | | 11. **If NO, write ID/Date/Time of container below:** ☐ See Exceptions form ENV-FRM-MIN4-0142 |
| All containers needing acid/base preservation have been checked? | ☐ | ☐ | ☒ | 12. Sample #: |
| All containers needing preservation are found to be in compliance with EPA recommendation? ($HNO_3$, $H_2SO_4$, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) | ☐ | ☐ | ☒ | ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ NaOH ☐ Zinc Acetate |
| Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS | ☐ | ☐ | ☒ | Positive for Residual Chlorine: ☐ YES ☐ NO |
| **NOTE:** If adding preservation to the container, **verify with the PM first.** Clients may require adding preservative to the field and equipment blanks when this occurs. | | | | **pH Paper Lot #** |
| | | | | Residual Chlorine / 0-6 Roll / 0-6 Strip / 0-14 Strip |
| | | | | ☐ See Exceptions form ENV-FRM-MIN4-0142 |
| Headspace in Methyl Mercury Container? | ☐ | ☐ | ☒ | 13. |
| Extra labels present on soil VOA or WIDRO containers? | ☐ | ☐ | ☒ | 14. |
| Headspace in VOA Vials (greater than 6mm)? | ☐ | ☐ | ☒ | ☐ See Exceptions form ENV-FRM-MIN4-0140 |
| Trip Blanks Present? | ☐ | ☐ | ☒ | 15. |
| Trip Blank Custody Seals Present? | ☐ | ☐ | ☒ | Pace Trip Blank Lot # (if purchased): _____ |

**CLIENT NOTIFICATION / RESOLUTION** **FIELD DATA REQUIRED:** ☐ YES ☐ NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

**Project Manager Review:** Jonathan Baum **Date:** 01/15/25

***NOTE:*** *When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).*

**Labeled By:** _____ **Line:** _____

Total Chlorine Total Fluorine

French Island Plant Annual Ash

Date Received 1/14/2025
Date Reported 1/28/2025

| Sample ID | Date Sampled | Sample Type | DryBasis Chlorine mg/Kg | DryBasis Fluorine mg\Kg | AsReceived Chlorine mg/Kg | AsReceived Fluorine mg\Kg | % Total Moisture |
|---|---|---|---|---|---|---|---|
| MKA0038-01 | 1/7/2025 | Ash | 38136 | 132 | 32964 | 114 | 13.56 |

cc
Glen Green
Steve Davis 612.630.4205

Xcel Energy
System Lab Amarillo

# Attachment 2

# Monthly / Annual Fuel and Generation Report

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# FRENCH ISLAND MONTHLY FUEL AND GENERATION REPORT

| 2024 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 | Estimated TIB | TIB 3 YRA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN | 14,090,540 | 7045.30 | - | 226,420 | 113.20 | 8 | 1.6% | - | | 6,932.10 | | 0.0 | 0.0% | 410,280 | 205.10 | 3.0% | 62,920 | 31.50 | 0.5% | 3,389,140 | 1,694.6 | 24.4% | 5,000.90 | 72.14% | 5,244.6 | 922.17 | 7,145 | 1,242.80 | 426 | 9,211 |
| FEB | 13,096,780 | 6548.40 | - | 0 | 0.00 | | 0.0% | - | | 6,548.40 | 0 | 0.0 | 0.0% | 385,180 | 192.60 | 2.9% | 62,960 | 31.50 | 0.5% | 2,266,520 | 1,133.3 | 17.3% | 5,191.00 | 79.27% | 4,758.3 | 942.31 | 7,242 | 1,038.21 | 869 | 9,211 |
| MAR | 6,990,900 | 3495.50 | | 0 | 0.00 | | 0.0% | - | | 3,495.50 | 0 | 0.0 | 0.0% | 230,060 | 115.00 | 3.3% | 30,160 | 15.10 | 0.4% | 2,865,520 | 1,432.8 | 41.0% | 1,932.60 | 55.29% | 1,486.6 | 296.67 | 2,149 | 533.58 | (374) | 9,211 |
| APR | 14,815,260 | 7407.60 | - | | 0.00 | | 0.0% | - | | 7,407.60 | 0 | 0.0 | 0.0% | 374,400 | 187.20 | 2.5% | 61,760 | 30.90 | 0.4% | 3,671,980 | 1,836.0 | 24.8% | 5,353.50 | 72.27% | 4,234.4 | 874.33 | 6,334 | 936.71 | 464 | 9,211 |
| MAY | 16,576,120 | 8288.10 | | | 0.00 | | 0.0% | - | | 8288.1 | 0 | 0.0 | 0.0% | 514,480 | 257.20 | 3.1% | 76,460 | 38.20 | 0.5% | 3,488,200 | 1,744.1 | 21.0% | 6,248.60 | 75.39% | 4,362.0 | 986.83 | 7,026 | 1,163.97 | 778 | 9,211 |
| JUN | 14,170,540 | 7085.30 | | | 0.00 | | 0.0% | - | | 7085.3 | 0 | 0.0 | 0.0% | 388,020 | 194.00 | 2.7% | 62,760 | 31.40 | 0.4% | 3,592,660 | 1,796.3 | 25.4% | 5,063.60 | 71.47% | 4,028.4 | 855 | 6,073 | 1,085.78 | 387 | 9,211 |
| JUL | 16,090,160 | 8045.10 | | 23,640 | 11.80 | 1 | 0.1% | - | | 8033.3 | 0 | 0.0 | 0.0% | 453,300 | 226.70 | 2.8% | 70,100 | 35.10 | 0.4% | 2,690,840 | 1,345.4 | 16.7% | 6,426.10 | 79.99% | 4,708.4 | 934.05 | 6,761 | 1,290.06 | 1,124 | 9,211 |
| AUG | 15,051,440 | 7525.70 | | 236,280 | 118.10 | | 1.6% | - | | 7407.6 | 0 | 0.0 | 0.0% | 420,100 | 210.10 | 2.8% | 70,920 | 35.50 | 0.5% | 2,745,180 | 1,372.6 | 18.5% | 5,789.40 | 78.15% | 3,972.3 | 912 | 6,395 | 1,158.32 | 900 | 9,211 |
| SEP | 14,405,980 | 7203.00 | | 125,280 | 62.60 | 6 | 0.9% | - | | 7140.4 | 0 | 0.0 | 0.0% | 412,600 | 206.30 | 2.9% | 49,100 | 24.60 | 0.3% | 3,281,040 | 1,640.5 | 23.0% | 5,269.00 | 73.79% | 3,233.1 | 778.66 | 5,462 | 968.55 | 556 | 9,211 |
| OCT | 15,259,420 | 7629.70 | - | 202,200 | 101.10 | 11 | 1.3% | - | | 7,528.60 | 0 | 0.0 | 0.0% | 493,900 | 247.00 | 3.3% | 79,900 | 40.00 | 0.5% | 2,195,500 | 1,097.8 | 14.6% | 6,143.80 | 81.61% | 5,020.1 | 980.59 | 7,096 | 1,366.09 | 1,175 | 9,211 |
| NOV | 14,226,260 | 7113.10 | - | 148,580 | 74.30 | | 1.0% | - | | 7038.8 | 0 | 0.0 | 0.0% | 383,020 | 191.50 | 2.7% | 53,740 | 26.90 | 0.4% | 2,465,060 | 1,232.5 | 17.5% | 5,587.90 | 79.39% | 4,770.0 | 891.07 | 6,727 | 1,115.59 | 942 | 9,211 |
| DEC | 14,123,820 | 7061.90 | - | 83,480 | 41.70 | | 0.6% | - | | 7020.2 | 0 | 0.0 | 0.0% | 350,860 | 175.43 | 2.5% | 62,880 | 31.40 | 0.4% | 2,895,720 | 1,447.9 | 20.6% | 5,365.47 | 76.43% | 4,688.5 | 889.75 | 6,564 | 1,291.20 | 732 | 9,211 |
| TOT | 168897220 | 84448.70 | | | 522.80 | 26 | 0.6% | | | 83,925.90 | | - | 0.0% | | 2408.13 | 2.9% | | 372.10 | 0.44% | | 17,773.80 | 21.2% | 63,371.87 | 75.51% | 50,506.78 | 10,263.4 | 74,974 | 13,190.86 | 7,981 | - |

**KEY**

| | |
|---|---|
| Recd | Received |
| Rej | Rejected |
| AWP | Actual Waste Processed |
| Res | Residue |
| TIB | Tons in Bank |
| RG | Raw Garbage |
| O&B | Oversize & Bulky |

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 2024 | 63372 |
| | 48180 |
| | 15192 |

All materials rejected are returned to La Crosse County
All ash is disposed of at the La Crosse County Landfill 13,190.86 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;<br>(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**
**2024**

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **BUFFALO COUNTY (B)** | 72.10 | 79.34 | 50.68 | 82.43 | 47.10 | 41.57 | 47.33 | 52.77 | 49.38 | 55.02 | 48.14 | 39.87 | 665.73 |
| **HOUSTON COUNTY (B)** | 555.58 | 513.16 | 280.72 | 607.90 | 661.09 | 567.66 | 656.34 | 567.12 | 574.06 | 668.41 | 564.70 | 563.69 | 6,780.43 |
| **WABASHA COUNTY** (B) | 128.93 | 175.86 | 74.74 | 128.20 | 135.99 | 144.77 | 115.73 | 131.71 | 115.69 | 275.40 | 100.10 | 256.84 | 1,783.96 |
| **TREMPEALEAU COUNTY (B)** | 402.31 | 397.70 | 192.76 | 458.94 | 515.42 | 448.76 | 500.09 | 448.65 | 405.24 | 474.64 | 401.52 | 369.99 | 5,016.02 |
| **WINONA COUNTY (B)** | 188.73 | 144.13 | 84.92 | 97.40 | 112.32 | 102.39 | 169.12 | 120.72 | 126.07 | 106.55 | 149.16 | 120.07 | 1521.58 |
| **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 | 7.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.66 |
| **MONROE COUNTY (B)** | 144.73 | 135.07 | 99.90 | 179.10 | 179.10 | 190.31 | 259.52 | 363.75 | 171.11 | 143.63 | 151.91 | 110.66 | 2128.79 |
| **VERNON COUNTY (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 AREA, WI (B)** | 173.76 | 174.63 | 176.29 | 178.80 | 233.10 | 209.27 | 284.06 | 268.95 | 263.79 | 263.30 | 220.43 | 258.36 | 2704.74 |
| **FILLMORE COUNTY (B)** | 135.35 | 124.62 | 56.10 | 125.92 | 176.62 | 159.28 | 174.16 | 177.45 | 130.20 | 158.40 | 177.92 | 159.35 | 1755.37 |
| **ALLAMAKEE COUNTY, IA (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 |
| **JACKSON COUNTY, WI (B)** | 58.50 | 39.81 | 24.32 | 41.76 | 61.02 | 54.68 | 54.26 | 56.38 | 57.58 | 56.03 | 53.89 | 47.57 | 605.80 |
| **OUT OF STATE, IL (B)** | 33.26 | 33.38 | 17.65 | 34.24 | 33.91 | 36.31 | 27.88 | 35.77 | 34.72 | 37.45 | 30.6 | 23.61 | 378.78 |

(B) As reported at Xcel

# 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) 1133 George Street W (Kwik Trip #762)
4. Generator City La Crosse
5. Generator State/Zip WI / 54603
6. General Contact Person Kevin Nestingen
   Phone # and email (608) 793-6464, knestingen@kwiktrip.com
7. Technical Contact Person same
   Phone # and email same

---

1. Name of Waste Gasoline Contaminated Soil
2. Process Generating Waste excavation during store rebuild project
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
11. Date of Analysis 12/11/24

---

## 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 Zenke Inc., 87 Main St. #5, La Crescent, MN 55947

4. Bill to Name and Address Kwik Trip, Inc.
   1626 Oak St.
   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 _____/_____ |

## 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 Environmental Compliance Manager

11. Name (Type or print) Kevin D. Nestingen / Kwik Trip, Inc.

12. Date 12/31/24

10. Analytical Laboratory Pace Analytical
11. Date of Analysis 12/11/24

## 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 Zenke Inc., 87 Main St. #5, La Crescent, MN 55947

4. Bill to Name and Address Kwik Trip, Inc.
   1626 Oak St.
   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 | , Dept. Tech. | |

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

December 20, 2024

Nicholas Stingl
Braun Intertec Corporation
2309 Palace Street
La Crosse, WI 54603

RE: Project: B2407124.00 KT 762-TLR
Pace Project No.: 40288839

Dear Nicholas Stingl:

Enclosed are the analytical results for sample(s) received by the laboratory on December 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

cc: Jason Powell, Kwik Trip
Nikki Rhodes, Braun Intertec Corporation



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## CERTIFICATIONS

Project: B2407124.00 KT 762-TLR
Pace Project No.: 40288839

**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: B2407124.00 KT 762-TLR
Pace Project No.: 40288839

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **40288839001** | **D-1 (4')** | Solid | 12/11/24 14:44 | 12/13/24 09:50 |

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## SAMPLE ANALYTE COUNT

Project: B2407124.00 KT 762-TLR
Pace Project No.: 40288839

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **40288839001** | **D-1 (4')** | WI MOD GRO | EMG | 11 |
| | | ASTM D2974-87 | YXH | 1 |

PASI-G = Pace Analytical Services - Green Bay



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## SUMMARY OF DETECTION

Project: B2407124.00 KT 762-TLR
Pace Project No.: 40288839

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **40288839001** | **D-1 (4')** | | | | | |
| WI MOD GRO | Gasoline Range Organics | 2.1J | mg/kg | 2.7 | 12/19/24 11:31 | G- |
| ASTM D2974-87 | Percent Moisture | 6.0 | % | 0.10 | 12/16/24 09:47 | |

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## ANALYTICAL RESULTS

Project: B2407124.00 KT 762-TLR
Pace Project No.: 40288839

**Sample: D-1 (4')** **Lab ID: 40288839001** Collected: 12/11/24 14:44 Received: 12/13/24 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 | **<26.6** | ug/kg | 53.2 | 26.6 | 1 | 12/18/24 09:00 | 12/19/24 11:31 | 71-43-2 | |
| Ethylbenzene | **<26.6** | ug/kg | 53.2 | 26.6 | 1 | 12/18/24 09:00 | 12/19/24 11:31 | 100-41-4 | |
| Gasoline Range Organics | **2.1J** | mg/kg | 2.7 | 1.3 | 1 | 12/18/24 09:00 | 12/19/24 11:31 | | G- |
| Methyl-tert-butyl ether | **<26.6** | ug/kg | 53.2 | 26.6 | 1 | 12/18/24 09:00 | 12/19/24 11:31 | 1634-04-4 | |
| Naphthalene | **<26.6** | ug/kg | 53.2 | 26.6 | 1 | 12/18/24 09:00 | 12/19/24 11:31 | 91-20-3 | |
| Toluene | **<26.6** | ug/kg | 53.2 | 26.6 | 1 | 12/18/24 09:00 | 12/19/24 11:31 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | **<26.6** | ug/kg | 53.2 | 26.6 | 1 | 12/18/24 09:00 | 12/19/24 11:31 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<26.6** | ug/kg | 53.2 | 26.6 | 1 | 12/18/24 09:00 | 12/19/24 11:31 | 108-67-8 | |
| m&p-Xylene | **<53.2** | ug/kg | 106 | 53.2 | 1 | 12/18/24 09:00 | 12/19/24 11:31 | 179601-23-1 | |
| o-Xylene | **<26.6** | ug/kg | 53.2 | 26.6 | 1 | 12/18/24 09:00 | 12/19/24 11:31 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (S) | 101 | % | 80-120 | | 1 | 12/18/24 09:00 | 12/19/24 11:31 | 98-08-8 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **6.0** | % | 0.10 | 0.10 | 1 | | 12/16/24 09:47 | | |

## REPORT OF LABORATORY ANALYSIS

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(920)469-2436

## QUALITY CONTROL DATA

Project: B2407124.00 KT 762-TLR
Pace Project No.: 40288839

QC Batch: 492969
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: 40288839001

METHOD BLANK: 2821783 Matrix: Solid
Associated Lab Samples: 40288839001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ug/kg | <25.0 | 50.0 | 12/19/24 07:58 | |
| 1,3,5-Trimethylbenzene | ug/kg | <25.0 | 50.0 | 12/19/24 07:58 | |
| Benzene | ug/kg | <25.0 | 50.0 | 12/19/24 07:58 | |
| Ethylbenzene | ug/kg | <25.0 | 50.0 | 12/19/24 07:58 | |
| Gasoline Range Organics | mg/kg | <1.2 | 2.5 | 12/19/24 07:58 | |
| m&p-Xylene | ug/kg | <50.0 | 100 | 12/19/24 07:58 | |
| Methyl-tert-butyl ether | ug/kg | <25.0 | 50.0 | 12/19/24 07:58 | |
| Naphthalene | ug/kg | <25.0 | 50.0 | 12/19/24 07:58 | |
| o-Xylene | ug/kg | <25.0 | 50.0 | 12/19/24 07:58 | |
| Toluene | ug/kg | <25.0 | 50.0 | 12/19/24 07:58 | |
| a,a,a-Trifluorotoluene (S) | % | 99 | 80-120 | 12/19/24 07:58 | |

LABORATORY CONTROL SAMPLE & LCSD: 2821784 2821785

| 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 | 981 | 1010 | 98 | 101 | 80-120 | 3 | 20 | |
| 1,3,5-Trimethylbenzene | ug/kg | 1000 | 1000 | 1030 | 100 | 103 | 80-120 | 3 | 20 | |
| Benzene | ug/kg | 1000 | 1030 | 1060 | 103 | 106 | 80-120 | 2 | 20 | |
| Ethylbenzene | ug/kg | 1000 | 1020 | 1040 | 102 | 104 | 80-120 | 2 | 20 | |
| Gasoline Range Organics | mg/kg | 10 | 11.5 | 11.9 | 115 | 119 | 80-120 | 4 | 20 | |
| m&p-Xylene | ug/kg | 2000 | 1990 | 2040 | 100 | 102 | 80-120 | 2 | 20 | |
| Methyl-tert-butyl ether | ug/kg | 1000 | 1020 | 1100 | 102 | 110 | 80-120 | 7 | 20 | |
| Naphthalene | ug/kg | 1000 | 1010 | 1100 | 101 | 110 | 80-120 | 9 | 20 | |
| o-Xylene | ug/kg | 1000 | 994 | 1020 | 99 | 102 | 80-120 | 3 | 20 | |
| Toluene | ug/kg | 1000 | 1030 | 1060 | 103 | 106 | 80-120 | 3 | 20 | |
| a,a,a-Trifluorotoluene (S) | % | | | | 101 | 102 | 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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(920)469-2436

## QUALITY CONTROL DATA

Project: B2407124.00 KT 762-TLR
Pace Project No.: 40288839

QC Batch: 492736
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: 40288839001

SAMPLE DUPLICATE: 2820866

| Parameter | Units | 40288630006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 16.3 | 16.4 | 0 | 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: B2407124.00 KT 762-TLR
Pace Project No.: 40288839

## 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- Early peaks present outside the GRO window.



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Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B2407124.00 KT 762-TLR
Pace Project No.: 40288839

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **40288839001** | **D-1 (4')** | TPH GRO/PVOC WI ext. | 492969 | WI MOD GRO | 492985 |
| **40288839001** | **D-1 (4')** | ASTM D2974-87 | 492736 | | |



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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: 40288839

**ALL SHADED AREAS are for LAB USE ONLY**

| | |
|---|---|
| Company: Braun Intertec | Billing Information: Kevin Nestingen, Kwik Trip, Inc., 1626 Oak St., LaCrosse, WI 54602 |
| Address: 2309 Palace St, LaCrosse, WI 54603 | |
| Report To: Nick Stingl | Email To: nstingl@braunintertec.com |
| Copy To: | Site Collection Info/Address: 1133 W. George St |
| Customer Project Name/Number: KT 762 - TLR / B2407124.00 | State: WI County/City: LaCrosse Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET |
| Phone: 608-781-7277 Email: | Site/Facility ID #: KT #762 Compliance Monitoring? [ ] Yes [ ] No |
| Collected By (print): David Bradshaw | Purchase Order #: MT97502122 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: |

* 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 **: 6 6

** 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:

| 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: GRO |
|---|---|---|---|---|---|---|---|---|---|---|
| D-1 (4') | SL | G1 | 12-11-24 | 14:44 | | | | 3 | X | X |

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:

SCUR 12/13/24

SA

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 #: 2824100

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:

SA 12/13/24

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |
|---|---|---|---|
| David Bradshaw / Braun | 12-12-24 14:00 | | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |
| Fedex | 12/13/24 0915 | | 12/13/24 0915 |
| 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: Braun Intertec

Project # 40288839

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:

| 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 | | | | | | | | | | | | | | | | | | 2 | | | | | 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 |

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#: 40288839

40288839

**Client Name:** Braun Intertec

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

**Tracking #:** 7241 0294 7862

**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 - 129 **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

Person examining contents:
Date: 12/13/24 /Initials: VA

Labeled By Initials: NR

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: | ☒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:** 12/17/2024

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

**Client:**

Kwik Trip, Incorporated
1626 Oak Street
Lacrosse, WI 54603

**Project:**

B2407124.00 (Kwik Trip #762)
Kwik Trip #762
1133 West George Street
La Crosse, WI 54603

## Sample Information

| | | | |
|---|---|---|---|
| **Sample Number:** | 636040 | **Source:** | On Site |
| **Sampling Method:** | Not Provided | **Sampled By:** | Bradshaw, David |
| **Location:** | Not Given | | |
| **Specification:** | For Informational Purposes Only | | |
| **Sample Date:** | 12/12/2024 | **Material:** | Existing Onsite |
| **Received Date:** | 12/12/2024 | **Lab:** | 2309 Palace Street, La Crosse, WI |
| **Tested Date:** | 12/16/2024 | **Tested By:** | Felker, Timothy |

## Laboratory Data

| | | | |
|---|---|---|---|
| **Loss By Washing (%):** | 2 | **Method Used:** | Method A Soak In Water |
| **Maximum Particle Size:** | 75 mm (3 inch) to 4.75 mm (No. 4) | **Soaking Time (min):** | 10 |
| **Soil Classification:** | SP Poorly graded sand | | |

## General

**Results:** The test is for informational purposes.

Timothy Felker 12/17/2024

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 Trane Technology
2. Generator Mailing Address 2600 Losey
   La Crosse, WI 54601
3. Facility Address (site of waste generation) 2600 Losey Blvd Plant 7
4. Generator City LaCrosse
5. Generator State/Zip WI 54601
6. General Contact Person Faith Lovett Wilson
   Phone # and email 6087804312 faith.lovettwilson@trane.com
7. Technical Contact Person Faith Lovett Wilson
   Phone # and email 6087804312 faith.lovettwilson@trane.com

---

1. Name of Waste Construction Soil
2. Process Generating Waste Construction at Plant &
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 X ____ 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 |
|---|---|
| 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 Legend Technical Services
11. Date of Analysis 11.18.2024

## 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 APPROXIMATELY 300 CU. YD

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency_____

3. Hauler Name and Address Ellefson Excavating
   La Crosse, WI 54601

4. Bill to Name and Address Fowler and Hammer
   313 Monitor 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 Bryce Jerke / 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 Faith Lovett Wilson

10. Title Environmental Program Manager

11. Name (Type or print) Faith Lovett Wilson

12. Date 2.6.25

# Chosen Valley Testing, Inc.

Geotechnical Engineering and Testing 1019 2nd Ave SW, Onalaska, WI, Phone (608) 782-5505

December 6, 2024

Craig Frederick
Automation Engineer
Trane La Crosse Operations
2600 Losey Blvd S.
La Crosse, WI 54601

**Summary of Work**
**Trane Plant 7**
**2600 Losey Blvd S.**
**La Crosse, WI 54601**

Dear Mr. Craig Frederick:

Chosen Valley Testing, Inc. (CVT) was contracted by Jim Fowler of Fowler and Hammer, Inc. to conduct a Pre-Construction Environmental Soil Evaluation at Trane Plant 7 in La Crosse, WI. The concrete coring and sampling work was done on November 7th and 8th, 2024. The soil beneath the concrete slab in Bay B was analyzed for volatile organic compounds, petroleum related impacts and metals. Trane La Crosse Operations have plans to add a paint booth system in Bay B through Cells 6-11.

Eight soil samples were taken through Bay B. Hand Auger 1-3 was taken between cell 10-11, and Hand Auger 4-8 was taken between cell 6-8. On November 7, 2024, concrete cores were drilled and measured for the eight soil samples. Then, on November 8, 2024, soil samples were taken with a Hand Auger. The eight samples were collected in single-use plastic bags and screened for organic vapors with a photoionization detector (PID) before being transferred to laboratory-supplied sample containers. A summary of the concrete core heights and the PID screening results of the eight soil samples are summarized in Table 1 below. Refusal was encountered on Hand Auger 1, 3, & 5. A depth of five feet was reached on Hand Auger 1, however, the sand at six feet was too fine to stay in the auger to collect a sample. A depth of two feet was reached on Hand Auger 3. At three feet a column pad was encountered. And a depth of two feet was reached on Hand Auger five, a second column pad was encountered.

**Table 1 – Core Heights and PID Screening Results (inches & ppm)**

| Hand Auger | HA-1 | HA-2 | HA-3 | HA-4 | HA-5 |
|---|---|---|---|---|---|
| Core Heights | 10.75″ | 9.5″ | 10″ | 10.25″ | 7.125″ |
| Boring PID | 5.8 | 7.3 | 5.7 | 6.9 | 5.8 |
| 1′ | 8.7 | 7.8 | 10.0 | 5.3 | 8.0 |
| 2′ | 6 | 9.4 | 6.0 | 6.9 | 7.6 |
| 3′ | 9.6 | 8.3 | Refusal | 4.6 | Refusal |
| 4′ | 8.5 | 10.0 | Refusal | 7.1 | Refusal |
| 5′ | 10.0 | 8.0 | Refusal | | |
| 6′ | Refusal | 4.7 | Refusal | | |
| | | | | | |

| Hand Auger | HA-6 | HA-7 | HA-8 |
|---|---|---|---|
| Core Heights | 10.75″ | 8.75″ | 9.25 |
| Boring PID | 6.5 | 6.2 | 5.4 |
| 1′ | 8.5 | 5.5 | 8.4 |
| 2′ | 9.5 | 7.9 | 9.5 |
| 3′ | 7.6 | 7.5 | 10.7 |
| 4′ | 6.6 | 8.2 | 7.3 |
| | | | |

The eight soil samples were delivered to Legend Technical Services, Inc. on November 11, 2024, and analyzed for diesel range organic compounds (DRO), gasoline range organic compounds (GRO), volatile organic compounds (VOC), and the eight Resource Conservation and Recovery Act (RCRA) regulated metals. The final laboratory analytical report was delivered on November 26, 2024 and is summarized in Table 2 below. The rightmost columns of Table 2 list soil reference values (SRV) and background threshold values (BTV) – values used to estimate human health risk and an estimate of naturally occurring concentrations, respectively – where applicable. Compounds which did not return detectable levels of concentration in any of the eight soil samples are not listed in Table 2; see the attached laboratory analytical report for a full list of analyzed compounds.

**Table 2 – Laboratory Analytical Results (mg/kg)**

| | | **B-1** | **B-2** | **B-3** | **B-4** | **SRV** | **BTV** |
|---|---|---|---|---|---|---|---|
| RCRA | Arsenic | 1.7 | 1.7 | <1.1 | 2 | 1.2 | 9 |
| | Barium | 46 | 37 | 34 | 34 | 41,000 | 210 |
| | Chromium | 0.47 | 6.2 | 8 | 7.8 | 62 | 27 |
| | Lead | 2.3 | 4.2 | 11 | 3 | 460 | |
| VOC | 1,2,4-Trimethylbenzene | *ND* | *ND* | *ND* | *ND* | 87 | |
| | 1,3,5-Trimethylbenzene | *ND* | *ND* | *ND* | *ND* | 180 | |
| | Isopropylbenzene | *ND* | *ND* | *ND* | *ND* | 270 | |
| | Naphthalene | *ND* | *ND* | *ND* | *ND* | 280 | |
| | n-Propylbenzene | *<0.55* | *<0.38* | <0.21 | <0.22 | 260 | |
| | p-Isopropyltoluene | *ND* | *ND* | *ND* | *ND* | | |
| | sec-Butylbenzene | *ND* | *ND* | *ND* | *ND* | 140 | |
| DRO | | <12.4 | <11.9 | <11.3 | <11.3 | | |
| GRO | | 10 | <7.03 | 7.11 | <6.89 | | |

| | | B-5 | B-6 | B-7 | B-8 | SRV | BTV |
|---|---|---|---|---|---|---|---|
| RCRA | Arsenic | 30 | 1.8 | 2.1 | 2.2 | 1.2 | 9 |
| | Barium | 42 | 39 | 39 | 43 | 41,000 | 210 |
| | Chromium | 7.3 | 7 | 8.1 | 9.5 | 62 | 27 |
| | Lead | 53 | 6.8 | 3.4 | 4.3 | 460 | |
| VOC | 1,2,4-Trimethylbenzene | *ND* | *ND* | *ND* | *ND* | 87 | |
| | 1,3,5-Trimethylbenzene | *ND* | *ND* | *ND* | *ND* | 180 | |
| | Isopropylbenzene | *ND* | *ND* | *ND* | *ND* | 270 | |
| | Naphthalene | *ND* | *ND* | *ND* | *ND* | 280 | |
| | n-Propylbenzene | *<0.23* | *<0.23* | <0.23 | <0.26 | 260 | |
| | p-Isopropyltoluene | *ND* | *ND* | *ND* | *ND* | | |
| | sec-Butylbenzene | *ND* | *ND* | *ND* | *ND* | 140 | |
| DRO | | <10.1 | *<11.4* | <12.6 | <12.2 | | |
| GRO | | <6.46 | <6.51 | <6.87 | <7.77 | | |

ND = Not Detectable
SRV Documentation: https://www.pca.state.mn.us/sites/default/files/c-r1-05.pdf
BTV Documentation: https://www.pca.state.mn.us/sites/default/files/c-r1-08.pdf

No soil impacts were encountered in any of the 8 boring locations. Based on the laboratory analytical results summarized in Table 2, there are no exceedances of any applicable standards and no further environmental investigation or remediation is warranted at this time.

There is no indication that the soil beneath Cells 6-11 in Bay B will require special handling or disposal during the planned paint booth construction.

Respectfully submitted,



Allison Erickson
Staff Environmental Technician
Chosen Valley Testing, Inc.
Mobile: 608-729-9481

Attachments:

Appendix A- Analytical Laboratory Results

LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

November 26, 2024

Mark Gretebeck
Chosen Valley Testing
1410 7th Street NW
Rochester, MN 55901

Work Order Number: 2404561
RE: Analytical Services

Enclosed are the results of analyses for samples received by the laboratory on 11/11/24. If you have any questions concerning this report, please feel free to contact me.

Results are not blank corrected unless noted within the report. Additionally, all QC results meet requirements unless noted.

The results in this report apply to the samples as received.

All samples will be retained by Legend Technical Services, Inc., unless consumed in the analysis, at ambient conditions for 30 days from the date of this report and then discarded unless other arrangements are made. All samples were received in acceptable condition unless otherwise noted.

All test results and QC meet requirements of the 2016 NELAC standard.

MDH (NELAP) Accreditation #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC



Bach Pham
Client Manager II/Department Manager
bpham@legend-group.com

LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | | |
|---|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: | 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: | 11/26/24 |

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| HA-1 | 2404561-01 | Solid | 11/08/24 00:00 | 11/11/24 16:23 |
| HA-2 | 2404561-02 | Solid | 11/08/24 00:00 | 11/11/24 16:23 |
| HA-3 | 2404561-03 | Solid | 11/08/24 00:00 | 11/11/24 16:23 |
| HA-4 | 2404561-04 | Solid | 11/08/24 00:00 | 11/11/24 16:23 |
| HA-5 | 2404561-05 | Solid | 11/08/24 00:00 | 11/11/24 16:23 |
| HA-6 | 2404561-06 | Solid | 11/08/24 00:00 | 11/11/24 16:23 |
| HA-7 | 2404561-07 | Solid | 11/08/24 00:00 | 11/11/24 16:23 |
| HA-8 | 2404561-08 | Solid | 11/08/24 00:00 | 11/11/24 16:23 |
| Trip Blank - Solid | 2404561-09 | Methanol | 11/08/24 00:00 | 11/11/24 16:23 |

**Shipping Container Information**

**Default Cooler** Temperature (°C): 2.3

Received on ice: Yes
Temperature blank was present
Received on ice pack: No
Received on melt water: No
Ambient: No
Acceptable (IH/ISO only): No
Custody seals: No

**Case Narrative:**

The DRO and GRO analyses were performed by Eurofins Scientific, Cedar Falls, IA, #019-999-319.



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|---|---|---|---|
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| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## TOTAL METALS ANALYSIS
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-1 (2404561-01) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **Arsenic** | **1.7** | 0.95 | 0.30 | mg/kg dry | 1 | B4K1928 | 11/19/24 | 11/20/24 | EPA 6010D | |
| **Barium** | **46** | 0.95 | 0.043 | mg/kg dry | 1 | " | " | " | " | |
| Cadmium | <0.095 | 0.095 | 0.084 | mg/kg dry | 1 | " | " | " | " | |
| **Chromium** | **6.2** | 0.47 | 0.017 | mg/kg dry | 1 | " | " | " | " | |
| **Lead** | **2.3** | 0.71 | 0.087 | mg/kg dry | 1 | " | " | " | " | |
| Mercury | <0.47 | 0.47 | 0.17 | mg/kg dry | 1 | " | " | " | " | |
| Selenium | <2.4 | 2.4 | 0.46 | mg/kg dry | 1 | " | " | " | " | |
| Silver | <0.47 | 0.47 | 0.020 | mg/kg dry | 1 | " | " | " | " | |
| **HA-2 (2404561-02) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **Arsenic** | **1.7** | 1.1 | 0.34 | mg/kg dry | 1 | B4K1928 | 11/19/24 | 11/20/24 | EPA 6010D | |
| **Barium** | **37** | 1.1 | 0.047 | mg/kg dry | 1 | " | " | " | " | |
| Cadmium | <0.11 | 0.11 | 0.094 | mg/kg dry | 1 | " | " | " | " | |
| **Chromium** | **7.6** | 0.53 | 0.019 | mg/kg dry | 1 | " | " | " | " | |
| **Lead** | **4.2** | 0.79 | 0.097 | mg/kg dry | 1 | " | " | " | " | |
| Mercury | <0.53 | 0.53 | 0.19 | mg/kg dry | 1 | " | " | " | " | |
| Selenium | <2.6 | 2.6 | 0.52 | mg/kg dry | 1 | " | " | " | " | |
| Silver | <0.53 | 0.53 | 0.022 | mg/kg dry | 1 | " | " | " | " | |
| **HA-3 (2404561-03) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Arsenic | <1.1 | 1.1 | 0.35 | mg/kg dry | 1 | B4K1928 | 11/19/24 | 11/20/24 | EPA 6010D | |
| **Barium** | **34** | 1.1 | 0.049 | mg/kg dry | 1 | " | " | " | " | |
| **Cadmium** | **0.32** | 0.11 | 0.097 | mg/kg dry | 1 | " | " | " | " | |
| **Chromium** | **8.0** | 0.54 | 0.020 | mg/kg dry | 1 | " | " | " | " | |
| **Lead** | **11** | 0.82 | 0.10 | mg/kg dry | 1 | " | " | " | " | |
| Mercury | <0.54 | 0.54 | 0.20 | mg/kg dry | 1 | " | " | " | " | |
| Selenium | <2.7 | 2.7 | 0.53 | mg/kg dry | 1 | " | " | " | " | |
| Silver | <0.54 | 0.54 | 0.023 | mg/kg dry | 1 | " | " | " | " | |
| **HA-4 (2404561-04) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **Arsenic** | **2.0** | 0.99 | 0.32 | mg/kg dry | 1 | B4K1928 | 11/19/24 | 11/20/24 | EPA 6010D | |
| **Barium** | **34** | 0.99 | 0.045 | mg/kg dry | 1 | " | " | " | " | |
| Cadmium | <0.099 | 0.099 | 0.088 | mg/kg dry | 1 | " | " | " | " | |
| **Chromium** | **7.8** | 0.50 | 0.018 | mg/kg dry | 1 | " | " | " | " | |
| **Lead** | **3.0** | 0.74 | 0.091 | mg/kg dry | 1 | " | " | " | " | |
| Mercury | <0.50 | 0.50 | 0.18 | mg/kg dry | 1 | " | " | " | " | |
| Selenium | <2.5 | 2.5 | 0.49 | mg/kg dry | 1 | " | " | " | " | |
| Silver | <0.50 | 0.50 | 0.021 | mg/kg dry | 1 | " | " | " | " | |
| **HA-5 (2404561-05) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **Arsenic** | **1.9** | 1.1 | 0.37 | mg/kg dry | 1 | B4K1928 | 11/19/24 | 11/20/24 | EPA 6010D | |



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|---|---|---|---|
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| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## TOTAL METALS ANALYSIS
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-5 (2404561-05) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **Barium** | **30** | 1.1 | 0.052 | mg/kg dry | 1 | B4K1928 | 11/19/24 | 11/20/24 | EPA 6010D | |
| Cadmium | <0.11 | 0.11 | 0.10 | mg/kg dry | 1 | " | " | " | " | |
| **Chromium** | **7.3** | 0.57 | 0.021 | mg/kg dry | 1 | " | " | " | " | |
| **Lead** | **53** | 0.86 | 0.11 | mg/kg dry | 1 | " | " | " | " | |
| Mercury | <0.57 | 0.57 | 0.21 | mg/kg dry | 1 | " | " | " | " | |
| Selenium | <2.9 | 2.9 | 0.56 | mg/kg dry | 1 | " | " | " | " | |
| Silver | <0.57 | 0.57 | 0.024 | mg/kg dry | 1 | " | " | " | " | |
| **HA-6 (2404561-06) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **Arsenic** | **1.8** | 0.96 | 0.31 | mg/kg dry | 1 | B4K1928 | 11/19/24 | 11/20/24 | EPA 6010D | |
| **Barium** | **39** | 0.96 | 0.043 | mg/kg dry | 1 | " | " | " | " | |
| Cadmium | <0.096 | 0.096 | 0.086 | mg/kg dry | 1 | " | " | " | " | |
| **Chromium** | **7.0** | 0.48 | 0.017 | mg/kg dry | 1 | " | " | " | " | |
| **Lead** | **6.8** | 0.72 | 0.089 | mg/kg dry | 1 | " | " | " | " | |
| Mercury | <0.48 | 0.48 | 0.17 | mg/kg dry | 1 | " | " | " | " | |
| Selenium | <2.4 | 2.4 | 0.47 | mg/kg dry | 1 | " | " | " | " | |
| Silver | <0.48 | 0.48 | 0.020 | mg/kg dry | 1 | " | " | " | " | |
| **HA-7 (2404561-07) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **Arsenic** | **2.1** | 0.97 | 0.31 | mg/kg dry | 1 | B4K1928 | 11/19/24 | 11/20/24 | EPA 6010D | |
| **Barium** | **39** | 0.97 | 0.044 | mg/kg dry | 1 | " | " | " | " | |
| Cadmium | <0.097 | 0.097 | 0.087 | mg/kg dry | 1 | " | " | " | " | |
| **Chromium** | **8.1** | 0.49 | 0.018 | mg/kg dry | 1 | " | " | " | " | |
| **Lead** | **3.4** | 0.73 | 0.089 | mg/kg dry | 1 | " | " | " | " | |
| Mercury | <0.49 | 0.49 | 0.18 | mg/kg dry | 1 | " | " | " | " | |
| Selenium | <2.4 | 2.4 | 0.48 | mg/kg dry | 1 | " | " | " | " | |
| Silver | <0.49 | 0.49 | 0.020 | mg/kg dry | 1 | " | " | " | " | |
| **HA-8 (2404561-08) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **Arsenic** | **2.2** | 1.1 | 0.34 | mg/kg dry | 1 | B4K1928 | 11/19/24 | 11/20/24 | EPA 6010D | |
| **Barium** | **43** | 1.1 | 0.048 | mg/kg dry | 1 | " | " | " | " | |
| Cadmium | <0.11 | 0.11 | 0.095 | mg/kg dry | 1 | " | " | " | " | |
| **Chromium** | **9.5** | 0.53 | 0.019 | mg/kg dry | 1 | " | " | " | " | |
| **Lead** | **4.3** | 0.80 | 0.098 | mg/kg dry | 1 | " | " | " | " | |
| Mercury | <0.53 | 0.53 | 0.19 | mg/kg dry | 1 | " | " | " | " | |
| Selenium | <2.7 | 2.7 | 0.52 | mg/kg dry | 1 | " | " | " | " | |
| Silver | <0.53 | 0.53 | 0.022 | mg/kg dry | 1 | " | " | " | " | |



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|---|---|---|---|
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| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## PERCENT SOLIDS
### Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-1 (2404561-01) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **% Solids** | **98** | | | % | 1 | B4K2538 | 11/25/24 | 11/26/24 | % calculation | |
| **HA-2 (2404561-02) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **% Solids** | **95** | | | % | 1 | B4K2538 | 11/25/24 | 11/26/24 | % calculation | |
| **HA-3 (2404561-03) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **% Solids** | **92** | | | % | 1 | B4K2538 | 11/25/24 | 11/26/24 | % calculation | |
| **HA-4 (2404561-04) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **% Solids** | **96** | | | % | 1 | B4K2538 | 11/25/24 | 11/26/24 | % calculation | |
| **HA-5 (2404561-05) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **% Solids** | **87** | | | % | 1 | B4K2538 | 11/25/24 | 11/26/24 | % calculation | |
| **HA-6 (2404561-06) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **% Solids** | **96** | | | % | 1 | B4K2538 | 11/25/24 | 11/26/24 | % calculation | |
| **HA-7 (2404561-07) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **% Solids** | **96** | | | % | 1 | B4K2538 | 11/25/24 | 11/26/24 | % calculation | |
| **HA-8 (2404561-08) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **% Solids** | **94** | | | % | 1 | B4K2538 | 11/25/24 | 11/26/24 | % calculation | |



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|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-1 (2404561-01) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.55 | 0.55 | 0.030 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| 1,1,1-Trichloroethane | <0.55 | 0.55 | 0.028 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | <0.55 | 0.55 | 0.061 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2-Trichloroethane | <0.55 | 0.55 | 0.044 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2-Trichlorotrifluoroethane | <0.55 | 0.55 | 0.050 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloroethane | <0.55 | 0.55 | 0.041 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloroethene | <0.55 | 0.55 | 0.083 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloropropene | <0.55 | 0.55 | 0.14 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichlorobenzene | <1.4 | 1.4 | 0.58 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichloropropane | <0.55 | 0.55 | 0.058 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trichlorobenzene | <1.4 | 1.4 | 0.47 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trimethylbenzene | <0.55 | 0.55 | 0.091 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | <1.4 | 1.4 | 0.14 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | <0.55 | 0.55 | 0.12 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichlorobenzene | <0.55 | 0.55 | 0.17 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloroethane | <0.55 | 0.55 | 0.066 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloropropane | <0.55 | 0.55 | 0.052 | mg/kg dry | 1 | " | " | " | " | |
| 1,3,5-Trimethylbenzene | <0.55 | 0.55 | 0.069 | mg/kg dry | 1 | " | " | " | " | |
| 1,3-Dichlorobenzene | <0.55 | 0.55 | 0.22 | mg/kg dry | 1 | " | " | " | " | |
| 1,3-Dichloropropane | <0.55 | 0.55 | 0.039 | mg/kg dry | 1 | " | " | " | " | |
| 1,4-Dichlorobenzene | <0.55 | 0.55 | 0.26 | mg/kg dry | 1 | " | " | " | " | |
| 2,2-Dichloropropane | <0.55 | 0.55 | 0.033 | mg/kg dry | 1 | " | " | " | " | |
| 2-Butanone | <2.8 | 2.8 | 0.44 | mg/kg dry | 1 | " | " | " | " | |
| 2-Chlorotoluene | <0.55 | 0.55 | 0.11 | mg/kg dry | 1 | " | " | " | " | |
| 4-Chlorotoluene | <0.55 | 0.55 | 0.17 | mg/kg dry | 1 | " | " | " | " | |
| Acetone | <2.8 | 2.8 | 1.2 | mg/kg dry | 1 | " | " | " | " | |
| Allyl chloride | <0.55 | 0.55 | 0.12 | mg/kg dry | 1 | " | " | " | " | |
| Benzene | <0.55 | 0.55 | 0.055 | mg/kg dry | 1 | " | " | " | " | |
| Bromobenzene | <0.55 | 0.55 | 0.15 | mg/kg dry | 1 | " | " | " | " | |
| Bromochloromethane | <0.55 | 0.55 | 0.16 | mg/kg dry | 1 | " | " | " | " | |
| Bromodichloromethane | <0.55 | 0.55 | 0.052 | mg/kg dry | 1 | " | " | " | " | |
| Bromoform | <0.55 | 0.55 | 0.044 | mg/kg dry | 1 | " | " | " | " | |
| Bromomethane | <0.55 | 0.55 | 0.088 | mg/kg dry | 1 | " | " | " | " | |
| Carbon tetrachloride | <0.55 | 0.55 | 0.039 | mg/kg dry | 1 | " | " | " | " | |
| Chlorobenzene | <0.55 | 0.55 | 0.14 | mg/kg dry | 1 | " | " | " | " | |
| Chloroethane | <0.55 | 0.55 | 0.039 | mg/kg dry | 1 | " | " | " | " | |
| Chloroform | <0.55 | 0.55 | 0.16 | mg/kg dry | 1 | " | " | " | " | |
| Chloromethane | <0.55 | 0.55 | 0.094 | mg/kg dry | 1 | " | " | " | " | |
| cis-1,2-Dichloroethene | <0.55 | 0.55 | 0.17 | mg/kg dry | 1 | " | " | " | " | |



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| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-1 (2404561-01) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| cis-1,3-Dichloropropene | <0.55 | 0.55 | 0.12 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| Dibromochloromethane | <0.55 | 0.55 | 0.050 | mg/kg dry | 1 | " | " | " | " | |
| Dibromomethane | <0.55 | 0.55 | 0.14 | mg/kg dry | 1 | " | " | " | " | |
| Dichlorodifluoromethane | <0.55 | 0.55 | 0.097 | mg/kg dry | 1 | " | " | " | " | |
| Dichlorofluoromethane | <0.55 | 0.55 | 0.061 | mg/kg dry | 1 | " | " | " | " | T5 |
| Ethyl ether | <0.55 | 0.55 | 0.058 | mg/kg dry | 1 | " | " | " | " | |
| Ethylbenzene | <0.55 | 0.55 | 0.12 | mg/kg dry | 1 | " | " | " | " | |
| Hexachlorobutadiene | <1.4 | 1.4 | 0.30 | mg/kg dry | 1 | " | " | " | " | |
| Isopropylbenzene | <0.55 | 0.55 | 0.066 | mg/kg dry | 1 | " | " | " | " | |
| m,p-Xylene | <1.1 | 1.1 | 0.21 | mg/kg dry | 1 | " | " | " | " | |
| Methyl isobutyl ketone | <0.55 | 0.55 | 0.097 | mg/kg dry | 1 | " | " | " | " | |
| Methyl tert-butyl ether | <0.55 | 0.55 | 0.036 | mg/kg dry | 1 | " | " | " | " | |
| Methylene chloride | <1.4 | 1.4 | 0.50 | mg/kg dry | 1 | " | " | " | " | |
| Naphthalene | <1.4 | 1.4 | 0.50 | mg/kg dry | 1 | " | " | " | " | |
| n-Butylbenzene | <0.55 | 0.55 | 0.19 | mg/kg dry | 1 | " | " | " | " | |
| n-Propylbenzene | <0.55 | 0.55 | 0.11 | mg/kg dry | 1 | " | " | " | " | |
| o-Xylene | <0.55 | 0.55 | 0.14 | mg/kg dry | 1 | " | " | " | " | |
| p-Isopropyltoluene | <0.55 | 0.55 | 0.11 | mg/kg dry | 1 | " | " | " | " | |
| sec-Butylbenzene | <0.55 | 0.55 | 0.088 | mg/kg dry | 1 | " | " | " | " | |
| Styrene | <0.55 | 0.55 | 0.12 | mg/kg dry | 1 | " | " | " | " | |
| tert-Butylbenzene | <0.55 | 0.55 | 0.066 | mg/kg dry | 1 | " | " | " | " | |
| Tetrachloroethene | <0.55 | 0.55 | 0.085 | mg/kg dry | 1 | " | " | " | " | |
| Tetrahydrofuran | <2.8 | 2.8 | 0.44 | mg/kg dry | 1 | " | " | " | " | |
| Toluene | <0.55 | 0.55 | 0.088 | mg/kg dry | 1 | " | " | " | " | |
| trans-1,2-Dichloroethene | <0.55 | 0.55 | 0.36 | mg/kg dry | 1 | " | " | " | " | |
| trans-1,3-Dichloropropene | <0.55 | 0.55 | 0.13 | mg/kg dry | 1 | " | " | " | " | |
| Trichloroethene | <0.55 | 0.55 | 0.28 | mg/kg dry | 1 | " | " | " | " | |
| Trichlorofluoromethane | <0.55 | 0.55 | 0.050 | mg/kg dry | 1 | " | " | " | " | |
| Vinyl chloride | <0.55 | 0.55 | 0.085 | mg/kg dry | 1 | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | *87.7* | | | *76.4-120 %* | | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | *92.6* | | | *76.2-120 %* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | *87.9* | | | *77.2-120 %* | | " | " | " | " | |
| **HA-2 (2404561-02) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.38 | 0.38 | 0.021 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| 1,1,1-Trichloroethane | <0.38 | 0.38 | 0.019 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | <0.38 | 0.38 | 0.041 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2-Trichloroethane | <0.38 | 0.38 | 0.030 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2-Trichlorotrifluoroethane | <0.38 | 0.38 | 0.034 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloroethane | <0.38 | 0.38 | 0.028 | mg/kg dry | 1 | " | " | " | " | |



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LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-2 (2404561-02) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| 1,1-Dichloroethene | <0.38 | 0.38 | 0.056 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| 1,1-Dichloropropene | <0.38 | 0.38 | 0.094 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichlorobenzene | <0.94 | 0.94 | 0.40 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichloropropane | <0.38 | 0.38 | 0.040 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trichlorobenzene | <0.94 | 0.94 | 0.32 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trimethylbenzene | <0.38 | 0.38 | 0.062 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | <0.94 | 0.94 | 0.096 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | <0.38 | 0.38 | 0.079 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichlorobenzene | <0.38 | 0.38 | 0.12 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloroethane | <0.38 | 0.38 | 0.045 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloropropane | <0.38 | 0.38 | 0.036 | mg/kg dry | 1 | " | " | " | " | |
| 1,3,5-Trimethylbenzene | <0.38 | 0.38 | 0.047 | mg/kg dry | 1 | " | " | " | " | |
| 1,3-Dichlorobenzene | <0.38 | 0.38 | 0.15 | mg/kg dry | 1 | " | " | " | " | |
| 1,3-Dichloropropane | <0.38 | 0.38 | 0.026 | mg/kg dry | 1 | " | " | " | " | |
| 1,4-Dichlorobenzene | <0.38 | 0.38 | 0.18 | mg/kg dry | 1 | " | " | " | " | |
| 2,2-Dichloropropane | <0.38 | 0.38 | 0.023 | mg/kg dry | 1 | " | " | " | " | |
| 2-Butanone | <1.9 | 1.9 | 0.30 | mg/kg dry | 1 | " | " | " | " | |
| 2-Chlorotoluene | <0.38 | 0.38 | 0.073 | mg/kg dry | 1 | " | " | " | " | |
| 4-Chlorotoluene | <0.38 | 0.38 | 0.11 | mg/kg dry | 1 | " | " | " | " | |
| Acetone | <1.9 | 1.9 | 0.85 | mg/kg dry | 1 | " | " | " | " | |
| Allyl chloride | <0.38 | 0.38 | 0.081 | mg/kg dry | 1 | " | " | " | " | |
| Benzene | <0.38 | 0.38 | 0.038 | mg/kg dry | 1 | " | " | " | " | |
| Bromobenzene | <0.38 | 0.38 | 0.10 | mg/kg dry | 1 | " | " | " | " | |
| Bromochloromethane | <0.38 | 0.38 | 0.11 | mg/kg dry | 1 | " | " | " | " | |
| Bromodichloromethane | <0.38 | 0.38 | 0.036 | mg/kg dry | 1 | " | " | " | " | |
| Bromoform | <0.38 | 0.38 | 0.030 | mg/kg dry | 1 | " | " | " | " | |
| Bromomethane | <0.38 | 0.38 | 0.060 | mg/kg dry | 1 | " | " | " | " | |
| Carbon tetrachloride | <0.38 | 0.38 | 0.026 | mg/kg dry | 1 | " | " | " | " | |
| Chlorobenzene | <0.38 | 0.38 | 0.092 | mg/kg dry | 1 | " | " | " | " | |
| Chloroethane | <0.38 | 0.38 | 0.026 | mg/kg dry | 1 | " | " | " | " | |
| Chloroform | <0.38 | 0.38 | 0.11 | mg/kg dry | 1 | " | " | " | " | |
| Chloromethane | <0.38 | 0.38 | 0.064 | mg/kg dry | 1 | " | " | " | " | |
| cis-1,2-Dichloroethene | <0.38 | 0.38 | 0.11 | mg/kg dry | 1 | " | " | " | " | |
| cis-1,3-Dichloropropene | <0.38 | 0.38 | 0.085 | mg/kg dry | 1 | " | " | " | " | |
| Dibromochloromethane | <0.38 | 0.38 | 0.034 | mg/kg dry | 1 | " | " | " | " | |
| Dibromomethane | <0.38 | 0.38 | 0.092 | mg/kg dry | 1 | " | " | " | " | |
| Dichlorodifluoromethane | <0.38 | 0.38 | 0.066 | mg/kg dry | 1 | " | " | " | " | |
| Dichlorofluoromethane | <0.38 | 0.38 | 0.041 | mg/kg dry | 1 | " | " | " | " | T5 |
| Ethyl ether | <0.38 | 0.38 | 0.040 | mg/kg dry | 1 | " | " | " | " | |



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LEGEND Technical Services, Inc.

88 Empire Drive
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Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-2 (2404561-02) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Ethylbenzene | <0.38 | 0.38 | 0.085 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| Hexachlorobutadiene | <0.94 | 0.94 | 0.21 | mg/kg dry | 1 | " | " | " | " | |
| Isopropylbenzene | <0.38 | 0.38 | 0.045 | mg/kg dry | 1 | " | " | " | " | |
| m,p-Xylene | <0.75 | 0.75 | 0.14 | mg/kg dry | 1 | " | " | " | " | |
| Methyl isobutyl ketone | <0.38 | 0.38 | 0.066 | mg/kg dry | 1 | " | " | " | " | |
| Methyl tert-butyl ether | <0.38 | 0.38 | 0.024 | mg/kg dry | 1 | " | " | " | " | |
| Methylene chloride | <0.94 | 0.94 | 0.34 | mg/kg dry | 1 | " | " | " | " | |
| Naphthalene | <0.94 | 0.94 | 0.34 | mg/kg dry | 1 | " | " | " | " | |
| n-Butylbenzene | <0.38 | 0.38 | 0.13 | mg/kg dry | 1 | " | " | " | " | |
| n-Propylbenzene | <0.38 | 0.38 | 0.075 | mg/kg dry | 1 | " | " | " | " | |
| o-Xylene | <0.38 | 0.38 | 0.094 | mg/kg dry | 1 | " | " | " | " | |
| p-Isopropyltoluene | <0.38 | 0.38 | 0.077 | mg/kg dry | 1 | " | " | " | " | |
| sec-Butylbenzene | <0.38 | 0.38 | 0.060 | mg/kg dry | 1 | " | " | " | " | |
| Styrene | <0.38 | 0.38 | 0.079 | mg/kg dry | 1 | " | " | " | " | |
| tert-Butylbenzene | <0.38 | 0.38 | 0.045 | mg/kg dry | 1 | " | " | " | " | |
| Tetrachloroethene | <0.38 | 0.38 | 0.058 | mg/kg dry | 1 | " | " | " | " | |
| Tetrahydrofuran | <1.9 | 1.9 | 0.30 | mg/kg dry | 1 | " | " | " | " | |
| Toluene | <0.38 | 0.38 | 0.060 | mg/kg dry | 1 | " | " | " | " | |
| trans-1,2-Dichloroethene | <0.38 | 0.38 | 0.24 | mg/kg dry | 1 | " | " | " | " | |
| trans-1,3-Dichloropropene | <0.38 | 0.38 | 0.090 | mg/kg dry | 1 | " | " | " | " | |
| Trichloroethene | <0.38 | 0.38 | 0.19 | mg/kg dry | 1 | " | " | " | " | |
| Trichlorofluoromethane | <0.38 | 0.38 | 0.034 | mg/kg dry | 1 | " | " | " | " | |
| Vinyl chloride | <0.38 | 0.38 | 0.058 | mg/kg dry | 1 | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | *89.4* | | | *76.4-120 %* | | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | *87.3* | | | *76.2-120 %* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | *88.6* | | | *77.2-120 %* | | " | " | " | " | |
| **HA-3 (2404561-03) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.21 | 0.21 | 0.011 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| 1,1,1-Trichloroethane | <0.21 | 0.21 | 0.010 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | <0.21 | 0.21 | 0.023 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2-Trichloroethane | <0.21 | 0.21 | 0.016 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2-Trichlorotrifluoroethane | <0.21 | 0.21 | 0.019 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloroethane | <0.21 | 0.21 | 0.015 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloroethene | <0.21 | 0.21 | 0.031 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloropropene | <0.21 | 0.21 | 0.051 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichlorobenzene | <0.51 | 0.51 | 0.22 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichloropropane | <0.21 | 0.21 | 0.022 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trichlorobenzene | <0.51 | 0.51 | 0.17 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trimethylbenzene | <0.21 | 0.21 | 0.034 | mg/kg dry | 1 | " | " | " | " | |



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Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-3 (2404561-03) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | <0.51 | 0.51 | 0.052 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| 1,2-Dibromoethane (EDB) | <0.21 | 0.21 | 0.043 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichlorobenzene | <0.21 | 0.21 | 0.064 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloroethane | <0.21 | 0.21 | 0.025 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloropropane | <0.21 | 0.21 | 0.020 | mg/kg dry | 1 | " | " | " | " | |
| 1,3,5-Trimethylbenzene | <0.21 | 0.21 | 0.026 | mg/kg dry | 1 | " | " | " | " | |
| 1,3-Dichlorobenzene | <0.21 | 0.21 | 0.083 | mg/kg dry | 1 | " | " | " | " | |
| 1,3-Dichloropropane | <0.21 | 0.21 | 0.014 | mg/kg dry | 1 | " | " | " | " | |
| 1,4-Dichlorobenzene | <0.21 | 0.21 | 0.097 | mg/kg dry | 1 | " | " | " | " | |
| 2,2-Dichloropropane | <0.21 | 0.21 | 0.012 | mg/kg dry | 1 | " | " | " | " | |
| 2-Butanone | <1.0 | 1.0 | 0.16 | mg/kg dry | 1 | " | " | " | " | |
| 2-Chlorotoluene | <0.21 | 0.21 | 0.040 | mg/kg dry | 1 | " | " | " | " | |
| 4-Chlorotoluene | <0.21 | 0.21 | 0.062 | mg/kg dry | 1 | " | " | " | " | |
| Acetone | <1.0 | 1.0 | 0.46 | mg/kg dry | 1 | " | " | " | " | M1 |
| Allyl chloride | <0.21 | 0.21 | 0.044 | mg/kg dry | 1 | " | " | " | " | |
| Benzene | <0.21 | 0.21 | 0.021 | mg/kg dry | 1 | " | " | " | " | |
| Bromobenzene | <0.21 | 0.21 | 0.057 | mg/kg dry | 1 | " | " | " | " | |
| Bromochloromethane | <0.21 | 0.21 | 0.061 | mg/kg dry | 1 | " | " | " | " | |
| Bromodichloromethane | <0.21 | 0.21 | 0.020 | mg/kg dry | 1 | " | " | " | " | |
| Bromoform | <0.21 | 0.21 | 0.016 | mg/kg dry | 1 | " | " | " | " | |
| Bromomethane | <0.21 | 0.21 | 0.033 | mg/kg dry | 1 | " | " | " | " | |
| Carbon tetrachloride | <0.21 | 0.21 | 0.014 | mg/kg dry | 1 | " | " | " | " | |
| Chlorobenzene | <0.21 | 0.21 | 0.050 | mg/kg dry | 1 | " | " | " | " | |
| Chloroethane | <0.21 | 0.21 | 0.014 | mg/kg dry | 1 | " | " | " | " | |
| Chloroform | <0.21 | 0.21 | 0.061 | mg/kg dry | 1 | " | " | " | " | |
| Chloromethane | <0.21 | 0.21 | 0.035 | mg/kg dry | 1 | " | " | " | " | |
| cis-1,2-Dichloroethene | <0.21 | 0.21 | 0.063 | mg/kg dry | 1 | " | " | " | " | |
| cis-1,3-Dichloropropene | <0.21 | 0.21 | 0.046 | mg/kg dry | 1 | " | " | " | " | |
| Dibromochloromethane | <0.21 | 0.21 | 0.019 | mg/kg dry | 1 | " | " | " | " | |
| Dibromomethane | <0.21 | 0.21 | 0.050 | mg/kg dry | 1 | " | " | " | " | |
| Dichlorodifluoromethane | <0.21 | 0.21 | 0.036 | mg/kg dry | 1 | " | " | " | " | |
| Dichlorofluoromethane | <0.21 | 0.21 | 0.023 | mg/kg dry | 1 | " | " | " | " | T5 |
| Ethyl ether | <0.21 | 0.21 | 0.022 | mg/kg dry | 1 | " | " | " | " | |
| Ethylbenzene | <0.21 | 0.21 | 0.046 | mg/kg dry | 1 | " | " | " | " | |
| Hexachlorobutadiene | <0.51 | 0.51 | 0.11 | mg/kg dry | 1 | " | " | " | " | |
| Isopropylbenzene | <0.21 | 0.21 | 0.025 | mg/kg dry | 1 | " | " | " | " | |
| m,p-Xylene | <0.41 | 0.41 | 0.079 | mg/kg dry | 1 | " | " | " | " | |
| Methyl isobutyl ketone | <0.21 | 0.21 | 0.036 | mg/kg dry | 1 | " | " | " | " | |
| Methyl tert-butyl ether | <0.21 | 0.21 | 0.013 | mg/kg dry | 1 | " | " | " | " | |



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LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-3 (2404561-03) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Methylene chloride | <0.51 | 0.51 | 0.19 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| Naphthalene | <0.51 | 0.51 | 0.19 | mg/kg dry | 1 | " | " | " | " | |
| n-Butylbenzene | <0.21 | 0.21 | 0.070 | mg/kg dry | 1 | " | " | " | " | |
| n-Propylbenzene | <0.21 | 0.21 | 0.041 | mg/kg dry | 1 | " | " | " | " | |
| o-Xylene | <0.21 | 0.21 | 0.051 | mg/kg dry | 1 | " | " | " | " | |
| p-Isopropyltoluene | <0.21 | 0.21 | 0.042 | mg/kg dry | 1 | " | " | " | " | |
| sec-Butylbenzene | <0.21 | 0.21 | 0.033 | mg/kg dry | 1 | " | " | " | " | |
| Styrene | <0.21 | 0.21 | 0.043 | mg/kg dry | 1 | " | " | " | " | |
| tert-Butylbenzene | <0.21 | 0.21 | 0.025 | mg/kg dry | 1 | " | " | " | " | |
| Tetrachloroethene | <0.21 | 0.21 | 0.032 | mg/kg dry | 1 | " | " | " | " | |
| Tetrahydrofuran | <1.0 | 1.0 | 0.16 | mg/kg dry | 1 | " | " | " | " | |
| Toluene | <0.21 | 0.21 | 0.033 | mg/kg dry | 1 | " | " | " | " | |
| trans-1,2-Dichloroethene | <0.21 | 0.21 | 0.13 | mg/kg dry | 1 | " | " | " | " | |
| trans-1,3-Dichloropropene | <0.21 | 0.21 | 0.049 | mg/kg dry | 1 | " | " | " | " | |
| Trichloroethene | <0.21 | 0.21 | 0.10 | mg/kg dry | 1 | " | " | " | " | |
| Trichlorofluoromethane | <0.21 | 0.21 | 0.019 | mg/kg dry | 1 | " | " | " | " | |
| Vinyl chloride | <0.21 | 0.21 | 0.032 | mg/kg dry | 1 | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | *86.1* | | | *76.4-120 %* | | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | *90.8* | | | *76.2-120 %* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | *87.1* | | | *77.2-120 %* | | " | " | " | " | |
| **HA-4 (2404561-04) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.22 | 0.22 | 0.012 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| 1,1,1-Trichloroethane | <0.22 | 0.22 | 0.011 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | <0.22 | 0.22 | 0.024 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2-Trichloroethane | <0.22 | 0.22 | 0.018 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2-Trichlorotrifluoroethane | <0.22 | 0.22 | 0.020 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloroethane | <0.22 | 0.22 | 0.017 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloroethene | <0.22 | 0.22 | 0.033 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloropropene | <0.22 | 0.22 | 0.055 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichlorobenzene | <0.55 | 0.55 | 0.23 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichloropropane | <0.22 | 0.22 | 0.023 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trichlorobenzene | <0.55 | 0.55 | 0.19 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trimethylbenzene | <0.22 | 0.22 | 0.037 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | <0.55 | 0.55 | 0.056 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | <0.22 | 0.22 | 0.046 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichlorobenzene | <0.22 | 0.22 | 0.069 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloroethane | <0.22 | 0.22 | 0.027 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloropropane | <0.22 | 0.22 | 0.021 | mg/kg dry | 1 | " | " | " | " | |
| 1,3,5-Trimethylbenzene | <0.22 | 0.22 | 0.028 | mg/kg dry | 1 | " | " | " | " | |



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LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-4 (2404561-04) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| 1,3-Dichlorobenzene | <0.22 | 0.22 | 0.090 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| 1,3-Dichloropropane | <0.22 | 0.22 | 0.015 | mg/kg dry | 1 | " | " | " | " | |
| 1,4-Dichlorobenzene | <0.22 | 0.22 | 0.10 | mg/kg dry | 1 | " | " | " | " | |
| 2,2-Dichloropropane | <0.22 | 0.22 | 0.013 | mg/kg dry | 1 | " | " | " | " | |
| 2-Butanone | <1.1 | 1.1 | 0.18 | mg/kg dry | 1 | " | " | " | " | |
| 2-Chlorotoluene | <0.22 | 0.22 | 0.043 | mg/kg dry | 1 | " | " | " | " | |
| 4-Chlorotoluene | <0.22 | 0.22 | 0.066 | mg/kg dry | 1 | " | " | " | " | |
| Acetone | <1.1 | 1.1 | 0.50 | mg/kg dry | 1 | " | " | " | " | |
| Allyl chloride | <0.22 | 0.22 | 0.048 | mg/kg dry | 1 | " | " | " | " | |
| Benzene | <0.22 | 0.22 | 0.022 | mg/kg dry | 1 | " | " | " | " | |
| Bromobenzene | <0.22 | 0.22 | 0.061 | mg/kg dry | 1 | " | " | " | " | |
| Bromochloromethane | <0.22 | 0.22 | 0.065 | mg/kg dry | 1 | " | " | " | " | |
| Bromodichloromethane | <0.22 | 0.22 | 0.021 | mg/kg dry | 1 | " | " | " | " | |
| Bromoform | <0.22 | 0.22 | 0.018 | mg/kg dry | 1 | " | " | " | " | |
| Bromomethane | <0.22 | 0.22 | 0.035 | mg/kg dry | 1 | " | " | " | " | |
| Carbon tetrachloride | <0.22 | 0.22 | 0.015 | mg/kg dry | 1 | " | " | " | " | |
| Chlorobenzene | <0.22 | 0.22 | 0.054 | mg/kg dry | 1 | " | " | " | " | |
| Chloroethane | <0.22 | 0.22 | 0.015 | mg/kg dry | 1 | " | " | " | " | |
| Chloroform | <0.22 | 0.22 | 0.065 | mg/kg dry | 1 | " | " | " | " | |
| Chloromethane | <0.22 | 0.22 | 0.038 | mg/kg dry | 1 | " | " | " | " | |
| cis-1,2-Dichloroethene | <0.22 | 0.22 | 0.068 | mg/kg dry | 1 | " | " | " | " | |
| cis-1,3-Dichloropropene | <0.22 | 0.22 | 0.050 | mg/kg dry | 1 | " | " | " | " | |
| Dibromochloromethane | <0.22 | 0.22 | 0.020 | mg/kg dry | 1 | " | " | " | " | |
| Dibromomethane | <0.22 | 0.22 | 0.054 | mg/kg dry | 1 | " | " | " | " | |
| Dichlorodifluoromethane | <0.22 | 0.22 | 0.039 | mg/kg dry | 1 | " | " | " | " | |
| Dichlorofluoromethane | <0.22 | 0.22 | 0.024 | mg/kg dry | 1 | " | " | " | " | T5 |
| Ethyl ether | <0.22 | 0.22 | 0.023 | mg/kg dry | 1 | " | " | " | " | |
| Ethylbenzene | <0.22 | 0.22 | 0.050 | mg/kg dry | 1 | " | " | " | " | |
| Hexachlorobutadiene | <0.55 | 0.55 | 0.12 | mg/kg dry | 1 | " | " | " | " | |
| Isopropylbenzene | <0.22 | 0.22 | 0.027 | mg/kg dry | 1 | " | " | " | " | |
| m,p-Xylene | <0.44 | 0.44 | 0.085 | mg/kg dry | 1 | " | " | " | " | |
| Methyl isobutyl ketone | <0.22 | 0.22 | 0.039 | mg/kg dry | 1 | " | " | " | " | |
| Methyl tert-butyl ether | <0.22 | 0.22 | 0.014 | mg/kg dry | 1 | " | " | " | " | |
| Methylene chloride | <0.55 | 0.55 | 0.20 | mg/kg dry | 1 | " | " | " | " | |
| Naphthalene | <0.55 | 0.55 | 0.20 | mg/kg dry | 1 | " | " | " | " | |
| n-Butylbenzene | <0.22 | 0.22 | 0.075 | mg/kg dry | 1 | " | " | " | " | |
| n-Propylbenzene | <0.22 | 0.22 | 0.044 | mg/kg dry | 1 | " | " | " | " | |
| o-Xylene | <0.22 | 0.22 | 0.055 | mg/kg dry | 1 | " | " | " | " | |
| p-Isopropyltoluene | <0.22 | 0.22 | 0.045 | mg/kg dry | 1 | " | " | " | " | |



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| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-4 (2404561-04) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| sec-Butylbenzene | <0.22 | 0.22 | 0.035 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| Styrene | <0.22 | 0.22 | 0.046 | mg/kg dry | 1 | " | " | " | " | |
| tert-Butylbenzene | <0.22 | 0.22 | 0.027 | mg/kg dry | 1 | " | " | " | " | |
| Tetrachloroethene | <0.22 | 0.22 | 0.034 | mg/kg dry | 1 | " | " | " | " | |
| Tetrahydrofuran | <1.1 | 1.1 | 0.18 | mg/kg dry | 1 | " | " | " | " | |
| Toluene | <0.22 | 0.22 | 0.035 | mg/kg dry | 1 | " | " | " | " | |
| trans-1,2-Dichloroethene | <0.22 | 0.22 | 0.14 | mg/kg dry | 1 | " | " | " | " | |
| trans-1,3-Dichloropropene | <0.22 | 0.22 | 0.053 | mg/kg dry | 1 | " | " | " | " | |
| Trichloroethene | <0.22 | 0.22 | 0.11 | mg/kg dry | 1 | " | " | " | " | |
| Trichlorofluoromethane | <0.22 | 0.22 | 0.020 | mg/kg dry | 1 | " | " | " | " | |
| Vinyl chloride | <0.22 | 0.22 | 0.034 | mg/kg dry | 1 | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | *87.4* | | | *76.4-120 %* | | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | *91.1* | | | *76.2-120 %* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | *85.0* | | | *77.2-120 %* | | " | " | " | " | |
| **HA-5 (2404561-05) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.23 | 0.23 | 0.013 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| 1,1,1-Trichloroethane | <0.23 | 0.23 | 0.011 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | <0.23 | 0.23 | 0.025 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2-Trichloroethane | <0.23 | 0.23 | 0.018 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2-Trichlorotrifluoroethane | <0.23 | 0.23 | 0.021 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloroethane | <0.23 | 0.23 | 0.017 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloroethene | <0.23 | 0.23 | 0.034 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloropropene | <0.23 | 0.23 | 0.057 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichlorobenzene | <0.57 | 0.57 | 0.24 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichloropropane | <0.23 | 0.23 | 0.024 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trichlorobenzene | <0.57 | 0.57 | 0.20 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trimethylbenzene | <0.23 | 0.23 | 0.038 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | <0.57 | 0.57 | 0.059 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | <0.23 | 0.23 | 0.048 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichlorobenzene | <0.23 | 0.23 | 0.071 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloroethane | <0.23 | 0.23 | 0.028 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloropropane | <0.23 | 0.23 | 0.022 | mg/kg dry | 1 | " | " | " | " | |
| 1,3,5-Trimethylbenzene | <0.23 | 0.23 | 0.029 | mg/kg dry | 1 | " | " | " | " | |
| 1,3-Dichlorobenzene | <0.23 | 0.23 | 0.093 | mg/kg dry | 1 | " | " | " | " | |
| 1,3-Dichloropropane | <0.23 | 0.23 | 0.016 | mg/kg dry | 1 | " | " | " | " | |
| 1,4-Dichlorobenzene | <0.23 | 0.23 | 0.11 | mg/kg dry | 1 | " | " | " | " | |
| 2,2-Dichloropropane | <0.23 | 0.23 | 0.014 | mg/kg dry | 1 | " | " | " | " | |
| 2-Butanone | <1.1 | 1.1 | 0.18 | mg/kg dry | 1 | " | " | " | " | |
| 2-Chlorotoluene | <0.23 | 0.23 | 0.045 | mg/kg dry | 1 | " | " | " | " | |



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Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-5 (2404561-05) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| 4-Chlorotoluene | <0.23 | 0.23 | 0.069 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| Acetone | <1.1 | 1.1 | 0.52 | mg/kg dry | 1 | " | " | " | " | |
| Allyl chloride | <0.23 | 0.23 | 0.049 | mg/kg dry | 1 | " | " | " | " | |
| Benzene | <0.23 | 0.23 | 0.023 | mg/kg dry | 1 | " | " | " | " | |
| Bromobenzene | <0.23 | 0.23 | 0.063 | mg/kg dry | 1 | " | " | " | " | |
| Bromochloromethane | <0.23 | 0.23 | 0.068 | mg/kg dry | 1 | " | " | " | " | |
| Bromodichloromethane | <0.23 | 0.23 | 0.022 | mg/kg dry | 1 | " | " | " | " | |
| Bromoform | <0.23 | 0.23 | 0.018 | mg/kg dry | 1 | " | " | " | " | |
| Bromomethane | <0.23 | 0.23 | 0.037 | mg/kg dry | 1 | " | " | " | " | |
| Carbon tetrachloride | <0.23 | 0.23 | 0.016 | mg/kg dry | 1 | " | " | " | " | |
| Chlorobenzene | <0.23 | 0.23 | 0.056 | mg/kg dry | 1 | " | " | " | " | |
| Chloroethane | <0.23 | 0.23 | 0.016 | mg/kg dry | 1 | " | " | " | " | |
| Chloroform | <0.23 | 0.23 | 0.068 | mg/kg dry | 1 | " | " | " | " | |
| Chloromethane | <0.23 | 0.23 | 0.039 | mg/kg dry | 1 | " | " | " | " | |
| cis-1,2-Dichloroethene | <0.23 | 0.23 | 0.070 | mg/kg dry | 1 | " | " | " | " | |
| cis-1,3-Dichloropropene | <0.23 | 0.23 | 0.052 | mg/kg dry | 1 | " | " | " | " | |
| Dibromochloromethane | <0.23 | 0.23 | 0.021 | mg/kg dry | 1 | " | " | " | " | |
| Dibromomethane | <0.23 | 0.23 | 0.056 | mg/kg dry | 1 | " | " | " | " | |
| Dichlorodifluoromethane | <0.23 | 0.23 | 0.040 | mg/kg dry | 1 | " | " | " | " | |
| Dichlorofluoromethane | <0.23 | 0.23 | 0.025 | mg/kg dry | 1 | " | " | " | " | T5 |
| Ethyl ether | <0.23 | 0.23 | 0.024 | mg/kg dry | 1 | " | " | " | " | |
| Ethylbenzene | <0.23 | 0.23 | 0.052 | mg/kg dry | 1 | " | " | " | " | |
| Hexachlorobutadiene | <0.57 | 0.57 | 0.13 | mg/kg dry | 1 | " | " | " | " | |
| Isopropylbenzene | <0.23 | 0.23 | 0.028 | mg/kg dry | 1 | " | " | " | " | |
| m,p-Xylene | <0.46 | 0.46 | 0.089 | mg/kg dry | 1 | " | " | " | " | |
| Methyl isobutyl ketone | <0.23 | 0.23 | 0.040 | mg/kg dry | 1 | " | " | " | " | |
| Methyl tert-butyl ether | <0.23 | 0.23 | 0.015 | mg/kg dry | 1 | " | " | " | " | |
| Methylene chloride | <0.57 | 0.57 | 0.21 | mg/kg dry | 1 | " | " | " | " | |
| Naphthalene | <0.57 | 0.57 | 0.21 | mg/kg dry | 1 | " | " | " | " | |
| n-Butylbenzene | <0.23 | 0.23 | 0.078 | mg/kg dry | 1 | " | " | " | " | |
| n-Propylbenzene | <0.23 | 0.23 | 0.046 | mg/kg dry | 1 | " | " | " | " | |
| o-Xylene | <0.23 | 0.23 | 0.057 | mg/kg dry | 1 | " | " | " | " | |
| p-Isopropyltoluene | <0.23 | 0.23 | 0.047 | mg/kg dry | 1 | " | " | " | " | |
| sec-Butylbenzene | <0.23 | 0.23 | 0.037 | mg/kg dry | 1 | " | " | " | " | |
| Styrene | <0.23 | 0.23 | 0.048 | mg/kg dry | 1 | " | " | " | " | |
| tert-Butylbenzene | <0.23 | 0.23 | 0.028 | mg/kg dry | 1 | " | " | " | " | |
| Tetrachloroethene | <0.23 | 0.23 | 0.036 | mg/kg dry | 1 | " | " | " | " | |
| Tetrahydrofuran | <1.1 | 1.1 | 0.18 | mg/kg dry | 1 | " | " | " | " | |
| Toluene | <0.23 | 0.23 | 0.037 | mg/kg dry | 1 | " | " | " | " | |



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St Paul, MN 55103
Tel: 651-642-1150

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|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-5 (2404561-05) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| trans-1,2-Dichloroethene | <0.23 | 0.23 | 0.15 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| trans-1,3-Dichloropropene | <0.23 | 0.23 | 0.055 | mg/kg dry | 1 | " | " | " | " | |
| Trichloroethene | <0.23 | 0.23 | 0.11 | mg/kg dry | 1 | " | " | " | " | |
| Trichlorofluoromethane | <0.23 | 0.23 | 0.021 | mg/kg dry | 1 | " | " | " | " | |
| Vinyl chloride | <0.23 | 0.23 | 0.036 | mg/kg dry | 1 | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | *85.3* | | | *76.4-120 %* | | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | *92.6* | | | *76.2-120 %* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | *86.2* | | | *77.2-120 %* | | " | " | " | " | |
| **HA-6 (2404561-06) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.23 | 0.23 | 0.013 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| 1,1,1-Trichloroethane | <0.23 | 0.23 | 0.012 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | <0.23 | 0.23 | 0.025 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2-Trichloroethane | <0.23 | 0.23 | 0.019 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2-Trichlorotrifluoroethane | <0.23 | 0.23 | 0.021 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloroethane | <0.23 | 0.23 | 0.017 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloroethene | <0.23 | 0.23 | 0.035 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloropropene | <0.23 | 0.23 | 0.058 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichlorobenzene | <0.58 | 0.58 | 0.24 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichloropropane | <0.23 | 0.23 | 0.024 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trichlorobenzene | <0.58 | 0.58 | 0.20 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trimethylbenzene | <0.23 | 0.23 | 0.038 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | <0.58 | 0.58 | 0.059 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | <0.23 | 0.23 | 0.049 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichlorobenzene | <0.23 | 0.23 | 0.072 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloroethane | <0.23 | 0.23 | 0.028 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloropropane | <0.23 | 0.23 | 0.022 | mg/kg dry | 1 | " | " | " | " | |
| 1,3,5-Trimethylbenzene | <0.23 | 0.23 | 0.029 | mg/kg dry | 1 | " | " | " | " | |
| 1,3-Dichlorobenzene | <0.23 | 0.23 | 0.094 | mg/kg dry | 1 | " | " | " | " | |
| 1,3-Dichloropropane | <0.23 | 0.23 | 0.016 | mg/kg dry | 1 | " | " | " | " | |
| 1,4-Dichlorobenzene | <0.23 | 0.23 | 0.11 | mg/kg dry | 1 | " | " | " | " | |
| 2,2-Dichloropropane | <0.23 | 0.23 | 0.014 | mg/kg dry | 1 | " | " | " | " | |
| 2-Butanone | <1.2 | 1.2 | 0.19 | mg/kg dry | 1 | " | " | " | " | |
| 2-Chlorotoluene | <0.23 | 0.23 | 0.045 | mg/kg dry | 1 | " | " | " | " | |
| 4-Chlorotoluene | <0.23 | 0.23 | 0.069 | mg/kg dry | 1 | " | " | " | " | |
| Acetone | <1.2 | 1.2 | 0.52 | mg/kg dry | 1 | " | " | " | " | |
| Allyl chloride | <0.23 | 0.23 | 0.050 | mg/kg dry | 1 | " | " | " | " | |
| Benzene | <0.23 | 0.23 | 0.023 | mg/kg dry | 1 | " | " | " | " | |
| Bromobenzene | <0.23 | 0.23 | 0.064 | mg/kg dry | 1 | " | " | " | " | |
| Bromochloromethane | <0.23 | 0.23 | 0.068 | mg/kg dry | 1 | " | " | " | " | |



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|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-6 (2404561-06) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Bromodichloromethane | <0.23 | 0.23 | 0.022 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| Bromoform | <0.23 | 0.23 | 0.019 | mg/kg dry | 1 | " | " | " | " | |
| Bromomethane | <0.23 | 0.23 | 0.037 | mg/kg dry | 1 | " | " | " | " | |
| Carbon tetrachloride | <0.23 | 0.23 | 0.016 | mg/kg dry | 1 | " | " | " | " | |
| Chlorobenzene | <0.23 | 0.23 | 0.057 | mg/kg dry | 1 | " | " | " | " | |
| Chloroethane | <0.23 | 0.23 | 0.016 | mg/kg dry | 1 | " | " | " | " | |
| Chloroform | <0.23 | 0.23 | 0.068 | mg/kg dry | 1 | " | " | " | " | |
| Chloromethane | <0.23 | 0.23 | 0.039 | mg/kg dry | 1 | " | " | " | " | |
| cis-1,2-Dichloroethene | <0.23 | 0.23 | 0.071 | mg/kg dry | 1 | " | " | " | " | |
| cis-1,3-Dichloropropene | <0.23 | 0.23 | 0.052 | mg/kg dry | 1 | " | " | " | " | |
| Dibromochloromethane | <0.23 | 0.23 | 0.021 | mg/kg dry | 1 | " | " | " | " | |
| Dibromomethane | <0.23 | 0.23 | 0.057 | mg/kg dry | 1 | " | " | " | " | |
| Dichlorodifluoromethane | <0.23 | 0.23 | 0.041 | mg/kg dry | 1 | " | " | " | " | |
| Dichlorofluoromethane | <0.23 | 0.23 | 0.025 | mg/kg dry | 1 | " | " | " | " | T5 |
| Ethyl ether | <0.23 | 0.23 | 0.024 | mg/kg dry | 1 | " | " | " | " | |
| Ethylbenzene | <0.23 | 0.23 | 0.052 | mg/kg dry | 1 | " | " | " | " | |
| Hexachlorobutadiene | <0.58 | 0.58 | 0.13 | mg/kg dry | 1 | " | " | " | " | |
| Isopropylbenzene | <0.23 | 0.23 | 0.028 | mg/kg dry | 1 | " | " | " | " | |
| m,p-Xylene | <0.46 | 0.46 | 0.089 | mg/kg dry | 1 | " | " | " | " | |
| Methyl isobutyl ketone | <0.23 | 0.23 | 0.041 | mg/kg dry | 1 | " | " | " | " | |
| Methyl tert-butyl ether | <0.23 | 0.23 | 0.015 | mg/kg dry | 1 | " | " | " | " | |
| Methylene chloride | <0.58 | 0.58 | 0.21 | mg/kg dry | 1 | " | " | " | " | |
| Naphthalene | <0.58 | 0.58 | 0.21 | mg/kg dry | 1 | " | " | " | " | |
| n-Butylbenzene | <0.23 | 0.23 | 0.079 | mg/kg dry | 1 | " | " | " | " | |
| n-Propylbenzene | <0.23 | 0.23 | 0.046 | mg/kg dry | 1 | " | " | " | " | |
| o-Xylene | <0.23 | 0.23 | 0.058 | mg/kg dry | 1 | " | " | " | " | |
| p-Isopropyltoluene | <0.23 | 0.23 | 0.047 | mg/kg dry | 1 | " | " | " | " | |
| sec-Butylbenzene | <0.23 | 0.23 | 0.037 | mg/kg dry | 1 | " | " | " | " | |
| Styrene | <0.23 | 0.23 | 0.049 | mg/kg dry | 1 | " | " | " | " | |
| tert-Butylbenzene | <0.23 | 0.23 | 0.028 | mg/kg dry | 1 | " | " | " | " | |
| Tetrachloroethene | <0.23 | 0.23 | 0.036 | mg/kg dry | 1 | " | " | " | " | |
| Tetrahydrofuran | <1.2 | 1.2 | 0.19 | mg/kg dry | 1 | " | " | " | " | |
| Toluene | <0.23 | 0.23 | 0.037 | mg/kg dry | 1 | " | " | " | " | |
| trans-1,2-Dichloroethene | <0.23 | 0.23 | 0.15 | mg/kg dry | 1 | " | " | " | " | |
| trans-1,3-Dichloropropene | <0.23 | 0.23 | 0.056 | mg/kg dry | 1 | " | " | " | " | |
| Trichloroethene | <0.23 | 0.23 | 0.12 | mg/kg dry | 1 | " | " | " | " | |
| Trichlorofluoromethane | <0.23 | 0.23 | 0.021 | mg/kg dry | 1 | " | " | " | " | |
| Vinyl chloride | <0.23 | 0.23 | 0.036 | mg/kg dry | 1 | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | *83.1* | | | *76.4-120 %* | | " | " | " | " | |



*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.*

LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-6 (2404561-06) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *92.5* | | | *76.2-120 %* | | *B4K1846* | *11/15/24* | *11/15/24* | *EPA 8260D* | |
| *Surrogate: Toluene-d8* | *85.9* | | | *77.2-120 %* | | *"* | *"* | *"* | *"* | |
| **HA-7 (2404561-07) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.23 | 0.23 | 0.012 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| 1,1,1-Trichloroethane | <0.23 | 0.23 | 0.011 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | <0.23 | 0.23 | 0.025 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2-Trichloroethane | <0.23 | 0.23 | 0.018 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2-Trichlorotrifluoroethane | <0.23 | 0.23 | 0.020 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloroethane | <0.23 | 0.23 | 0.017 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloroethene | <0.23 | 0.23 | 0.034 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloropropene | <0.23 | 0.23 | 0.057 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichlorobenzene | <0.57 | 0.57 | 0.24 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichloropropane | <0.23 | 0.23 | 0.024 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trichlorobenzene | <0.57 | 0.57 | 0.19 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trimethylbenzene | <0.23 | 0.23 | 0.037 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | <0.57 | 0.57 | 0.058 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | <0.23 | 0.23 | 0.048 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichlorobenzene | <0.23 | 0.23 | 0.070 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloroethane | <0.23 | 0.23 | 0.027 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloropropane | <0.23 | 0.23 | 0.022 | mg/kg dry | 1 | " | " | " | " | |
| 1,3,5-Trimethylbenzene | <0.23 | 0.23 | 0.028 | mg/kg dry | 1 | " | " | " | " | |
| 1,3-Dichlorobenzene | <0.23 | 0.23 | 0.092 | mg/kg dry | 1 | " | " | " | " | |
| 1,3-Dichloropropane | <0.23 | 0.23 | 0.016 | mg/kg dry | 1 | " | " | " | " | |
| 1,4-Dichlorobenzene | <0.23 | 0.23 | 0.11 | mg/kg dry | 1 | " | " | " | " | |
| 2,2-Dichloropropane | <0.23 | 0.23 | 0.014 | mg/kg dry | 1 | " | " | " | " | |
| 2-Butanone | <1.1 | 1.1 | 0.18 | mg/kg dry | 1 | " | " | " | " | |
| 2-Chlorotoluene | <0.23 | 0.23 | 0.044 | mg/kg dry | 1 | " | " | " | " | |
| 4-Chlorotoluene | <0.23 | 0.23 | 0.068 | mg/kg dry | 1 | " | " | " | " | |
| Acetone | <1.1 | 1.1 | 0.51 | mg/kg dry | 1 | " | " | " | " | |
| Allyl chloride | <0.23 | 0.23 | 0.049 | mg/kg dry | 1 | " | " | " | " | |
| Benzene | <0.23 | 0.23 | 0.023 | mg/kg dry | 1 | " | " | " | " | |
| Bromobenzene | <0.23 | 0.23 | 0.062 | mg/kg dry | 1 | " | " | " | " | |
| Bromochloromethane | <0.23 | 0.23 | 0.067 | mg/kg dry | 1 | " | " | " | " | |
| Bromodichloromethane | <0.23 | 0.23 | 0.022 | mg/kg dry | 1 | " | " | " | " | |
| Bromoform | <0.23 | 0.23 | 0.018 | mg/kg dry | 1 | " | " | " | " | |
| Bromomethane | <0.23 | 0.23 | 0.036 | mg/kg dry | 1 | " | " | " | " | |
| Carbon tetrachloride | <0.23 | 0.23 | 0.016 | mg/kg dry | 1 | " | " | " | " | |
| Chlorobenzene | <0.23 | 0.23 | 0.056 | mg/kg dry | 1 | " | " | " | " | |
| Chloroethane | <0.23 | 0.23 | 0.016 | mg/kg dry | 1 | " | " | " | " | |



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LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-7 (2404561-07) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Chloroform | <0.23 | 0.23 | 0.067 | mg/kg dry | 1 | B4K1846 | 11/15/24 | 11/15/24 | EPA 8260D | |
| Chloromethane | <0.23 | 0.23 | 0.039 | mg/kg dry | 1 | " | " | " | " | |
| cis-1,2-Dichloroethene | <0.23 | 0.23 | 0.069 | mg/kg dry | 1 | " | " | " | " | |
| cis-1,3-Dichloropropene | <0.23 | 0.23 | 0.051 | mg/kg dry | 1 | " | " | " | " | |
| Dibromochloromethane | <0.23 | 0.23 | 0.020 | mg/kg dry | 1 | " | " | " | " | |
| Dibromomethane | <0.23 | 0.23 | 0.056 | mg/kg dry | 1 | " | " | " | " | |
| Dichlorodifluoromethane | <0.23 | 0.23 | 0.040 | mg/kg dry | 1 | " | " | " | " | |
| Dichlorofluoromethane | <0.23 | 0.23 | 0.025 | mg/kg dry | 1 | " | " | " | " | T5 |
| Ethyl ether | <0.23 | 0.23 | 0.024 | mg/kg dry | 1 | " | " | " | " | |
| Ethylbenzene | <0.23 | 0.23 | 0.051 | mg/kg dry | 1 | " | " | " | " | |
| Hexachlorobutadiene | <0.57 | 0.57 | 0.12 | mg/kg dry | 1 | " | " | " | " | |
| Isopropylbenzene | <0.23 | 0.23 | 0.027 | mg/kg dry | 1 | " | " | " | " | |
| m,p-Xylene | <0.45 | 0.45 | 0.087 | mg/kg dry | 1 | " | " | " | " | |
| Methyl isobutyl ketone | <0.23 | 0.23 | 0.040 | mg/kg dry | 1 | " | " | " | " | |
| Methyl tert-butyl ether | <0.23 | 0.23 | 0.015 | mg/kg dry | 1 | " | " | " | " | |
| Methylene chloride | <0.57 | 0.57 | 0.20 | mg/kg dry | 1 | " | " | " | " | |
| Naphthalene | <0.57 | 0.57 | 0.20 | mg/kg dry | 1 | " | " | " | " | |
| n-Butylbenzene | <0.23 | 0.23 | 0.077 | mg/kg dry | 1 | " | " | " | " | |
| n-Propylbenzene | <0.23 | 0.23 | 0.045 | mg/kg dry | 1 | " | " | " | " | |
| o-Xylene | <0.23 | 0.23 | 0.057 | mg/kg dry | 1 | " | " | " | " | |
| p-Isopropyltoluene | <0.23 | 0.23 | 0.046 | mg/kg dry | 1 | " | " | " | " | |
| sec-Butylbenzene | <0.23 | 0.23 | 0.036 | mg/kg dry | 1 | " | " | " | " | |
| Styrene | <0.23 | 0.23 | 0.048 | mg/kg dry | 1 | " | " | " | " | |
| tert-Butylbenzene | <0.23 | 0.23 | 0.027 | mg/kg dry | 1 | " | " | " | " | |
| Tetrachloroethene | <0.23 | 0.23 | 0.035 | mg/kg dry | 1 | " | " | " | " | |
| Tetrahydrofuran | <1.1 | 1.1 | 0.18 | mg/kg dry | 1 | " | " | " | " | |
| Toluene | <0.23 | 0.23 | 0.036 | mg/kg dry | 1 | " | " | " | " | |
| trans-1,2-Dichloroethene | <0.23 | 0.23 | 0.15 | mg/kg dry | 1 | " | " | " | " | |
| trans-1,3-Dichloropropene | <0.23 | 0.23 | 0.054 | mg/kg dry | 1 | " | " | " | " | |
| Trichloroethene | <0.23 | 0.23 | 0.11 | mg/kg dry | 1 | " | " | " | " | |
| Trichlorofluoromethane | <0.23 | 0.23 | 0.020 | mg/kg dry | 1 | " | " | " | " | |
| Vinyl chloride | <0.23 | 0.23 | 0.035 | mg/kg dry | 1 | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | *83.1* | | | *76.4-120 %* | | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | *92.1* | | | *76.2-120 %* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | *86.0* | | | *77.2-120 %* | | " | " | " | " | |
| **HA-8 (2404561-08) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.26 | 0.26 | 0.014 | mg/kg dry | 1 | B4K1847 | 11/18/24 | 11/18/24 | EPA 8260D | |
| 1,1,1-Trichloroethane | <0.26 | 0.26 | 0.013 | mg/kg dry | 1 | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | <0.26 | 0.26 | 0.029 | mg/kg dry | 1 | " | " | " | " | |



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LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-8 (2404561-08) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| 1,1,2-Trichloroethane | <0.26 | 0.26 | 0.021 | mg/kg dry | 1 | B4K1847 | 11/18/24 | 11/18/24 | EPA 8260D | |
| 1,1,2-Trichlorotrifluoroethane | <0.26 | 0.26 | 0.023 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloroethane | <0.26 | 0.26 | 0.019 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloroethene | <0.26 | 0.26 | 0.039 | mg/kg dry | 1 | " | " | " | " | |
| 1,1-Dichloropropene | <0.26 | 0.26 | 0.065 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichlorobenzene | <0.65 | 0.65 | 0.27 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,3-Trichloropropane | <0.26 | 0.26 | 0.027 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trichlorobenzene | <0.65 | 0.65 | 0.22 | mg/kg dry | 1 | " | " | " | " | |
| 1,2,4-Trimethylbenzene | <0.26 | 0.26 | 0.043 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | <0.65 | 0.65 | 0.066 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | <0.26 | 0.26 | 0.054 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichlorobenzene | <0.26 | 0.26 | 0.080 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloroethane | <0.26 | 0.26 | 0.031 | mg/kg dry | 1 | " | " | " | " | |
| 1,2-Dichloropropane | <0.26 | 0.26 | 0.025 | mg/kg dry | 1 | " | " | " | " | |
| 1,3,5-Trimethylbenzene | <0.26 | 0.26 | 0.032 | mg/kg dry | 1 | " | " | " | " | |
| 1,3-Dichlorobenzene | <0.26 | 0.26 | 0.10 | mg/kg dry | 1 | " | " | " | " | |
| 1,3-Dichloropropane | <0.26 | 0.26 | 0.018 | mg/kg dry | 1 | " | " | " | " | |
| 1,4-Dichlorobenzene | <0.26 | 0.26 | 0.12 | mg/kg dry | 1 | " | " | " | " | |
| 2,2-Dichloropropane | <0.26 | 0.26 | 0.016 | mg/kg dry | 1 | " | " | " | " | |
| 2-Butanone | <1.3 | 1.3 | 0.21 | mg/kg dry | 1 | " | " | " | " | |
| 2-Chlorotoluene | <0.26 | 0.26 | 0.051 | mg/kg dry | 1 | " | " | " | " | |
| 4-Chlorotoluene | <0.26 | 0.26 | 0.078 | mg/kg dry | 1 | " | " | " | " | |
| Acetone | <1.3 | 1.3 | 0.58 | mg/kg dry | 1 | " | " | " | " | |
| Allyl chloride | <0.26 | 0.26 | 0.056 | mg/kg dry | 1 | " | " | " | " | |
| Benzene | <0.26 | 0.26 | 0.026 | mg/kg dry | 1 | " | " | " | " | |
| Bromobenzene | <0.26 | 0.26 | 0.071 | mg/kg dry | 1 | " | " | " | " | |
| Bromochloromethane | <0.26 | 0.26 | 0.076 | mg/kg dry | 1 | " | " | " | " | |
| Bromodichloromethane | <0.26 | 0.26 | 0.025 | mg/kg dry | 1 | " | " | " | " | |
| Bromoform | <0.26 | 0.26 | 0.021 | mg/kg dry | 1 | " | " | " | " | |
| Bromomethane | <0.26 | 0.26 | 0.041 | mg/kg dry | 1 | " | " | " | " | |
| Carbon tetrachloride | <0.26 | 0.26 | 0.018 | mg/kg dry | 1 | " | " | " | " | |
| Chlorobenzene | <0.26 | 0.26 | 0.063 | mg/kg dry | 1 | " | " | " | " | |
| Chloroethane | <0.26 | 0.26 | 0.018 | mg/kg dry | 1 | " | " | " | " | |
| Chloroform | <0.26 | 0.26 | 0.076 | mg/kg dry | 1 | " | " | " | " | |
| Chloromethane | <0.26 | 0.26 | 0.044 | mg/kg dry | 1 | " | " | " | " | |
| cis-1,2-Dichloroethene | <0.26 | 0.26 | 0.079 | mg/kg dry | 1 | " | " | " | " | |
| cis-1,3-Dichloropropene | <0.26 | 0.26 | 0.058 | mg/kg dry | 1 | " | " | " | " | |
| Dibromochloromethane | <0.26 | 0.26 | 0.023 | mg/kg dry | 1 | " | " | " | " | |
| Dibromomethane | <0.26 | 0.26 | 0.063 | mg/kg dry | 1 | " | " | " | " | |



*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.*

LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-8 (2404561-08) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Dichlorodifluoromethane | <0.26 | 0.26 | 0.045 | mg/kg dry | 1 | B4K1847 | 11/18/24 | 11/18/24 | EPA 8260D | |
| Dichlorofluoromethane | <0.26 | 0.26 | 0.029 | mg/kg dry | 1 | " | " | " | " | T5 |
| Ethyl ether | <0.26 | 0.26 | 0.027 | mg/kg dry | 1 | " | " | " | " | |
| Ethylbenzene | <0.26 | 0.26 | 0.058 | mg/kg dry | 1 | " | " | " | " | |
| Hexachlorobutadiene | <0.65 | 0.65 | 0.14 | mg/kg dry | 1 | " | " | " | " | |
| Isopropylbenzene | <0.26 | 0.26 | 0.031 | mg/kg dry | 1 | " | " | " | " | |
| m,p-Xylene | <0.52 | 0.52 | 0.10 | mg/kg dry | 1 | " | " | " | " | |
| Methyl isobutyl ketone | <0.26 | 0.26 | 0.045 | mg/kg dry | 1 | " | " | " | " | |
| Methyl tert-butyl ether | <0.26 | 0.26 | 0.017 | mg/kg dry | 1 | " | " | " | " | |
| Methylene chloride | <0.65 | 0.65 | 0.23 | mg/kg dry | 1 | " | " | " | " | |
| Naphthalene | <0.65 | 0.65 | 0.23 | mg/kg dry | 1 | " | " | " | " | |
| n-Butylbenzene | <0.26 | 0.26 | 0.088 | mg/kg dry | 1 | " | " | " | " | |
| n-Propylbenzene | <0.26 | 0.26 | 0.052 | mg/kg dry | 1 | " | " | " | " | |
| o-Xylene | <0.26 | 0.26 | 0.065 | mg/kg dry | 1 | " | " | " | " | |
| p-Isopropyltoluene | <0.26 | 0.26 | 0.053 | mg/kg dry | 1 | " | " | " | " | |
| sec-Butylbenzene | <0.26 | 0.26 | 0.041 | mg/kg dry | 1 | " | " | " | " | |
| Styrene | <0.26 | 0.26 | 0.054 | mg/kg dry | 1 | " | " | " | " | |
| tert-Butylbenzene | <0.26 | 0.26 | 0.031 | mg/kg dry | 1 | " | " | " | " | |
| Tetrachloroethene | <0.26 | 0.26 | 0.040 | mg/kg dry | 1 | " | " | " | " | |
| Tetrahydrofuran | <1.3 | 1.3 | 0.21 | mg/kg dry | 1 | " | " | " | " | |
| Toluene | <0.26 | 0.26 | 0.041 | mg/kg dry | 1 | " | " | " | " | |
| trans-1,2-Dichloroethene | <0.26 | 0.26 | 0.17 | mg/kg dry | 1 | " | " | " | " | |
| trans-1,3-Dichloropropene | <0.26 | 0.26 | 0.062 | mg/kg dry | 1 | " | " | " | " | |
| Trichloroethene | <0.26 | 0.26 | 0.13 | mg/kg dry | 1 | " | " | " | " | |
| Trichlorofluoromethane | <0.26 | 0.26 | 0.023 | mg/kg dry | 1 | " | " | " | " | |
| Vinyl chloride | <0.26 | 0.26 | 0.040 | mg/kg dry | 1 | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | *87.1* | | | *76.4-120 %* | | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | *94.8* | | | *76.2-120 %* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | *87.1* | | | *77.2-120 %* | | " | " | " | " | |
| **Trip Blank - Solid (2404561-09) Methanol Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.20 | 0.20 | 0.011 | mg/kg wet | 1 | B4K1847 | 11/18/24 | 11/18/24 | EPA 8260D | |
| 1,1,1-Trichloroethane | <0.20 | 0.20 | 0.010 | mg/kg wet | 1 | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | <0.20 | 0.20 | 0.022 | mg/kg wet | 1 | " | " | " | " | |
| 1,1,2-Trichloroethane | <0.20 | 0.20 | 0.016 | mg/kg wet | 1 | " | " | " | " | |
| 1,1,2-Trichlorotrifluoroethane | <0.20 | 0.20 | 0.018 | mg/kg wet | 1 | " | " | " | " | |
| 1,1-Dichloroethane | <0.20 | 0.20 | 0.015 | mg/kg wet | 1 | " | " | " | " | |
| 1,1-Dichloroethene | <0.20 | 0.20 | 0.030 | mg/kg wet | 1 | " | " | " | " | |
| 1,1-Dichloropropene | <0.20 | 0.20 | 0.050 | mg/kg wet | 1 | " | " | " | " | |
| 1,2,3-Trichlorobenzene | <0.50 | 0.50 | 0.21 | mg/kg wet | 1 | " | " | " | " | |



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LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Trip Blank - Solid (2404561-09) Methanol** | **Sampled: 11/08/24 00:00** | | **Received: 11/11/24 16:23** | | | | | | | |
| 1,2,3-Trichloropropane | <0.20 | 0.20 | 0.021 | mg/kg wet | 1 | B4K1847 | 11/18/24 | 11/18/24 | EPA 8260D | |
| 1,2,4-Trichlorobenzene | <0.50 | 0.50 | 0.17 | mg/kg wet | 1 | " | " | " | " | |
| 1,2,4-Trimethylbenzene | <0.20 | 0.20 | 0.033 | mg/kg wet | 1 | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | <0.50 | 0.50 | 0.051 | mg/kg wet | 1 | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | <0.20 | 0.20 | 0.042 | mg/kg wet | 1 | " | " | " | " | |
| 1,2-Dichlorobenzene | <0.20 | 0.20 | 0.062 | mg/kg wet | 1 | " | " | " | " | |
| 1,2-Dichloroethane | <0.20 | 0.20 | 0.024 | mg/kg wet | 1 | " | " | " | " | |
| 1,2-Dichloropropane | <0.20 | 0.20 | 0.019 | mg/kg wet | 1 | " | " | " | " | |
| 1,3,5-Trimethylbenzene | <0.20 | 0.20 | 0.025 | mg/kg wet | 1 | " | " | " | " | |
| 1,3-Dichlorobenzene | <0.20 | 0.20 | 0.081 | mg/kg wet | 1 | " | " | " | " | |
| 1,3-Dichloropropane | <0.20 | 0.20 | 0.014 | mg/kg wet | 1 | " | " | " | " | |
| 1,4-Dichlorobenzene | <0.20 | 0.20 | 0.094 | mg/kg wet | 1 | " | " | " | " | |
| 2,2-Dichloropropane | <0.20 | 0.20 | 0.012 | mg/kg wet | 1 | " | " | " | " | |
| 2-Butanone | <1.0 | 1.0 | 0.16 | mg/kg wet | 1 | " | " | " | " | |
| 2-Chlorotoluene | <0.20 | 0.20 | 0.039 | mg/kg wet | 1 | " | " | " | " | |
| 4-Chlorotoluene | <0.20 | 0.20 | 0.060 | mg/kg wet | 1 | " | " | " | " | |
| Acetone | <1.0 | 1.0 | 0.45 | mg/kg wet | 1 | " | " | " | " | |
| Allyl chloride | <0.20 | 0.20 | 0.043 | mg/kg wet | 1 | " | " | " | " | |
| Benzene | <0.20 | 0.20 | 0.020 | mg/kg wet | 1 | " | " | " | " | |
| Bromobenzene | <0.20 | 0.20 | 0.055 | mg/kg wet | 1 | " | " | " | " | |
| Bromochloromethane | <0.20 | 0.20 | 0.059 | mg/kg wet | 1 | " | " | " | " | |
| Bromodichloromethane | <0.20 | 0.20 | 0.019 | mg/kg wet | 1 | " | " | " | " | |
| Bromoform | <0.20 | 0.20 | 0.016 | mg/kg wet | 1 | " | " | " | " | |
| Bromomethane | <0.20 | 0.20 | 0.032 | mg/kg wet | 1 | " | " | " | " | |
| Carbon tetrachloride | <0.20 | 0.20 | 0.014 | mg/kg wet | 1 | " | " | " | " | |
| Chlorobenzene | <0.20 | 0.20 | 0.049 | mg/kg wet | 1 | " | " | " | " | |
| Chloroethane | <0.20 | 0.20 | 0.014 | mg/kg wet | 1 | " | " | " | " | |
| Chloroform | <0.20 | 0.20 | 0.059 | mg/kg wet | 1 | " | " | " | " | |
| Chloromethane | <0.20 | 0.20 | 0.034 | mg/kg wet | 1 | " | " | " | " | |
| cis-1,2-Dichloroethene | <0.20 | 0.20 | 0.061 | mg/kg wet | 1 | " | " | " | " | |
| cis-1,3-Dichloropropene | <0.20 | 0.20 | 0.045 | mg/kg wet | 1 | " | " | " | " | |
| Dibromochloromethane | <0.20 | 0.20 | 0.018 | mg/kg wet | 1 | " | " | " | " | |
| Dibromomethane | <0.20 | 0.20 | 0.049 | mg/kg wet | 1 | " | " | " | " | |
| Dichlorodifluoromethane | <0.20 | 0.20 | 0.035 | mg/kg wet | 1 | " | " | " | " | |
| Dichlorofluoromethane | <0.20 | 0.20 | 0.022 | mg/kg wet | 1 | " | " | " | " | T5 |
| Ethyl ether | <0.20 | 0.20 | 0.021 | mg/kg wet | 1 | " | " | " | " | |
| Ethylbenzene | <0.20 | 0.20 | 0.045 | mg/kg wet | 1 | " | " | " | " | |
| Hexachlorobutadiene | <0.50 | 0.50 | 0.11 | mg/kg wet | 1 | " | " | " | " | |
| Isopropylbenzene | <0.20 | 0.20 | 0.024 | mg/kg wet | 1 | " | " | " | " | |



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Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D

## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Trip Blank - Solid (2404561-09) Methanol** | **Sampled: 11/08/24 00:00** | | **Received: 11/11/24 16:23** | | | | | | | |
| m,p-Xylene | <0.40 | 0.40 | 0.077 | mg/kg wet | 1 | B4K1847 | 11/18/24 | 11/18/24 | EPA 8260D | |
| Methyl isobutyl ketone | <0.20 | 0.20 | 0.035 | mg/kg wet | 1 | " | " | " | " | |
| Methyl tert-butyl ether | <0.20 | 0.20 | 0.013 | mg/kg wet | 1 | " | " | " | " | |
| Methylene chloride | <0.50 | 0.50 | 0.18 | mg/kg wet | 1 | " | " | " | " | |
| Naphthalene | <0.50 | 0.50 | 0.18 | mg/kg wet | 1 | " | " | " | " | |
| n-Butylbenzene | <0.20 | 0.20 | 0.068 | mg/kg wet | 1 | " | " | " | " | |
| n-Propylbenzene | <0.20 | 0.20 | 0.040 | mg/kg wet | 1 | " | " | " | " | |
| o-Xylene | <0.20 | 0.20 | 0.050 | mg/kg wet | 1 | " | " | " | " | |
| p-Isopropyltoluene | <0.20 | 0.20 | 0.041 | mg/kg wet | 1 | " | " | " | " | |
| sec-Butylbenzene | <0.20 | 0.20 | 0.032 | mg/kg wet | 1 | " | " | " | " | |
| Styrene | <0.20 | 0.20 | 0.042 | mg/kg wet | 1 | " | " | " | " | |
| tert-Butylbenzene | <0.20 | 0.20 | 0.024 | mg/kg wet | 1 | " | " | " | " | |
| Tetrachloroethene | <0.20 | 0.20 | 0.031 | mg/kg wet | 1 | " | " | " | " | |
| Tetrahydrofuran | <1.0 | 1.0 | 0.16 | mg/kg wet | 1 | " | " | " | " | |
| Toluene | <0.20 | 0.20 | 0.032 | mg/kg wet | 1 | " | " | " | " | |
| trans-1,2-Dichloroethene | <0.20 | 0.20 | 0.13 | mg/kg wet | 1 | " | " | " | " | |
| trans-1,3-Dichloropropene | <0.20 | 0.20 | 0.048 | mg/kg wet | 1 | " | " | " | " | |
| Trichloroethene | <0.20 | 0.20 | 0.10 | mg/kg wet | 1 | " | " | " | " | |
| Trichlorofluoromethane | <0.20 | 0.20 | 0.018 | mg/kg wet | 1 | " | " | " | " | |
| Vinyl chloride | <0.20 | 0.20 | 0.031 | mg/kg wet | 1 | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | *82.7* | | | *76.4-120 %* | | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | *98.3* | | | *76.2-120 %* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | *85.4* | | | *77.2-120 %* | | " | " | " | " | |



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| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## WI-GRO
## Eurofins Cedar Falls

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-1 (2404561-01) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Wisconsin GRO | <12.4 | 12.4 | 6.33 | mg/Kg dry | 1 | 440350 | 11/20/24 | 11/22/24 | WI_GRO Wisconsin - Gasoline Range Organics (GC) | *+, *1 |
| *Surrogate: 4-Bromofluorobenzene (Surr)* | *114* | | | *80-120 %* | | " | " | " | " | |
| **HA-2 (2404561-02) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Wisconsin GRO | <11.9 | 11.9 | 6.07 | mg/Kg dry | 1 | 440350 | 11/20/24 | 11/22/24 | WI_GRO Wisconsin - Gasoline Range Organics (GC) | *+, *1 |
| *Surrogate: 4-Bromofluorobenzene (Surr)* | *119* | | | *80-120 %* | | " | " | " | " | |
| **HA-3 (2404561-03) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Wisconsin GRO | <11.3 | 11.3 | 5.76 | mg/Kg dry | 1 | 440350 | 11/20/24 | 11/22/24 | WI_GRO Wisconsin - Gasoline Range Organics (GC) | *+, *1 |
| *Surrogate: 4-Bromofluorobenzene (Surr)* | *115* | | | *80-120 %* | | " | " | " | " | |
| **HA-4 (2404561-04) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Wisconsin GRO | <11.3 | 11.3 | 5.77 | mg/Kg dry | 1 | 440350 | 11/20/24 | 11/22/24 | WI_GRO Wisconsin - Gasoline Range Organics (GC) | *+, *1 |
| *Surrogate: 4-Bromofluorobenzene (Surr)* | *119* | | | *80-120 %* | | " | " | " | " | |
| **HA-5 (2404561-05) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Wisconsin GRO | <10.1 | 10.1 | 5.13 | mg/Kg dry | 1 | 440350 | 11/20/24 | 11/22/24 | WI_GRO Wisconsin - Gasoline Range Organics (GC) | *+, *1 |
| *Surrogate: 4-Bromofluorobenzene (Surr)* | *114* | | | *80-120 %* | | " | " | " | " | |
| **HA-6 (2404561-06) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Wisconsin GRO | <11.4 | 11.4 | 5.84 | mg/Kg dry | 1 | 440350 | 11/20/24 | 11/22/24 | WI_GRO Wisconsin - Gasoline Range Organics (GC) | *+, *1 |
| *Surrogate: 4-Bromofluorobenzene (Surr)* | *116* | | | *80-120 %* | | " | " | " | " | |
| **HA-7 (2404561-07) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Wisconsin GRO | <12.6 | 12.6 | 6.42 | mg/Kg dry | 1 | 440350 | 11/20/24 | 11/22/24 | WI_GRO Wisconsin - Gasoline Range Organics (GC) | *+, *1 |
| *Surrogate: 4-Bromofluorobenzene (Surr)* | *115* | | | *80-120 %* | | " | " | " | " | |
| **HA-8 (2404561-08) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |



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Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## WI-GRO
## Eurofins Cedar Falls

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-8 (2404561-08) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Wisconsin GRO | <12.2 | 12.2 | 6.24 | mg/Kg dry | 1 | 440350 | 11/20/24 | 11/22/24 | WI_GRO Wisconsin - Gasoline Range Organics (GC) | *+, *1 |
| *Surrogate: 4-Bromofluorobenzene (Surr)* | *118* | | | *80-120 %* | | " | " | " | " | |
| **Trip Blank - Solid (2404561-09) Methanol Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Wisconsin GRO | <10.0 | 10.0 | 5.10 | mg/Kg | 1 | 440350 | 11/20/24 | 11/22/24 | WI_GRO Wisconsin - Gasoline Range Organics (GC) | *+, *1 |
| *Surrogate: 4-Bromofluorobenzene (Surr)* | *118* | | | *80-120 %* | | " | " | " | " | |



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|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## WI-DRO
## Eurofins Cedar Falls

| Analyte | Result | RL | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **HA-1 (2404561-01) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **Diesel Range Organics (DRO)** | **10.0** | 3.47 | 2.13 | mg/Kg dry | 1 | 439840 | 11/15/24 | 11/18/24 | WI_DRO Wisconsin - Diesel Range Organics (GC) | |
| **HA-2 (2404561-02) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Diesel Range Organics (DRO) | <7.03 | 7.03 | 4.32 | mg/Kg dry | 1 | 439840 | 11/15/24 | 11/18/24 | WI_DRO Wisconsin - Diesel Range Organics (GC) | |
| **HA-3 (2404561-03) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| **Diesel Range Organics (DRO)** | **7.11** | 5.77 | 3.54 | mg/Kg dry | 1 | 439840 | 11/15/24 | 11/18/24 | WI_DRO Wisconsin - Diesel Range Organics (GC) | |
| **HA-4 (2404561-04) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Diesel Range Organics (DRO) | <6.89 | 6.89 | 4.23 | mg/Kg dry | 1 | 439840 | 11/15/24 | 11/18/24 | WI_DRO Wisconsin - Diesel Range Organics (GC) | |
| **HA-5 (2404561-05) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Diesel Range Organics (DRO) | <6.46 | 6.46 | 3.97 | mg/Kg dry | 1 | 439840 | 11/15/24 | 11/18/24 | WI_DRO Wisconsin - Diesel Range Organics (GC) | |
| **HA-6 (2404561-06) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Diesel Range Organics (DRO) | <6.51 | 6.51 | 4.00 | mg/Kg dry | 1 | 439840 | 11/15/24 | 11/18/24 | WI_DRO Wisconsin - Diesel Range Organics (GC) | |
| **HA-7 (2404561-07) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Diesel Range Organics (DRO) | <6.87 | 6.87 | 4.22 | mg/Kg dry | 1 | 439840 | 11/15/24 | 11/18/24 | WI_DRO Wisconsin - Diesel Range Organics (GC) | |
| **HA-8 (2404561-08) Solid Sampled: 11/08/24 00:00 Received: 11/11/24 16:23** | | | | | | | | | | |
| Diesel Range Organics (DRO) | <7.77 | 7.77 | 4.77 | mg/Kg dry | 1 | 439840 | 11/15/24 | 11/18/24 | WI_DRO Wisconsin - Diesel Range Organics (GC) | |



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| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## TOTAL METALS ANALYSIS - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1928 - EPA 3050B (M)** | | | | | | | | | | | |
| **Blank (B4K1928-BLK1)** | | | | | Prepared: 11/19/24 Analyzed: 11/20/24 | | | | | | |
| Arsenic | < 0.94 | 0.94 | 0.30 | mg/kg wet | | | | | | | |
| Barium | < 0.94 | 0.94 | 0.042 | mg/kg wet | | | | | | | |
| Cadmium | < 0.094 | 0.094 | 0.084 | mg/kg wet | | | | | | | |
| Chromium | < 0.47 | 0.47 | 0.017 | mg/kg wet | | | | | | | |
| Lead | < 0.71 | 0.71 | 0.087 | mg/kg wet | | | | | | | |
| Mercury | < 0.47 | 0.47 | 0.17 | mg/kg wet | | | | | | | |
| Selenium | < 2.4 | 2.4 | 0.46 | mg/kg wet | | | | | | | |
| Silver | < 0.47 | 0.47 | 0.020 | mg/kg wet | | | | | | | |
| **LCS (B4K1928-BS1)** | | | | | Prepared: 11/19/24 Analyzed: 11/20/24 | | | | | | |
| Arsenic | 40.6 | 1.0 | 0.32 | mg/kg wet | 39.2 | <1.0 | 104 | 80-120 | | | |
| Barium | 41.8 | 1.0 | 0.045 | mg/kg wet | 39.2 | <1.0 | 107 | 80-120 | | | |
| Cadmium | 41.8 | 0.10 | 0.089 | mg/kg wet | 39.2 | <0.10 | 107 | 80-120 | | | |
| Chromium | 41.6 | 0.50 | 0.018 | mg/kg wet | 39.2 | <0.50 | 106 | 80-120 | | | |
| Lead | 42.1 | 0.75 | 0.092 | mg/kg wet | 39.2 | <0.75 | 107 | 80-120 | | | |
| Mercury | 12.9 | 0.50 | 0.18 | mg/kg wet | 12.3 | <0.50 | 105 | 80-120 | | | |
| Selenium | 38.8 | 2.5 | 0.49 | mg/kg wet | 39.2 | <2.5 | 99.1 | 80-120 | | | |
| Silver | 4.08 | 0.50 | 0.021 | mg/kg wet | 3.92 | <0.50 | 104 | 80-120 | | | |
| **LCS Dup (B4K1928-BSD1)** | | | | | Prepared: 11/19/24 Analyzed: 11/20/24 | | | | | | |
| Arsenic | 40.7 | 1.0 | 0.32 | mg/kg wet | 39.0 | <1.0 | 104 | 80-120 | 0.213 | 20 | |
| Barium | 42.0 | 1.0 | 0.045 | mg/kg wet | 39.0 | <1.0 | 108 | 80-120 | 0.472 | 20 | |
| Cadmium | 42.0 | 0.10 | 0.089 | mg/kg wet | 39.0 | <0.10 | 108 | 80-120 | 0.473 | 20 | |
| Chromium | 42.0 | 0.50 | 0.018 | mg/kg wet | 39.0 | <0.50 | 108 | 80-120 | 0.861 | 20 | |
| Lead | 42.3 | 0.75 | 0.092 | mg/kg wet | 39.0 | <0.75 | 109 | 80-120 | 0.640 | 20 | |
| Mercury | 12.9 | 0.50 | 0.18 | mg/kg wet | 12.2 | <0.50 | 106 | 80-120 | 0.0343 | 20 | |
| Selenium | 38.6 | 2.5 | 0.49 | mg/kg wet | 39.0 | <2.5 | 99.0 | 80-120 | 0.501 | 20 | |
| Silver | 4.08 | 0.50 | 0.021 | mg/kg wet | 3.90 | <0.50 | 105 | 80-120 | 0.149 | 20 | |
| **Matrix Spike (B4K1928-MS1)** | | **Source: 2404561-08** | | | Prepared: 11/19/24 Analyzed: 11/20/24 | | | | | | |
| Arsenic | 43.9 | 1.1 | 0.34 | mg/kg dry | 42.0 | 2.20 | 99.3 | 75-125 | | | |
| Barium | 89.1 | 1.1 | 0.048 | mg/kg dry | 42.0 | 43.3 | 109 | 75-125 | | | |
| Cadmium | 42.3 | 0.11 | 0.095 | mg/kg dry | 42.0 | <0.11 | 101 | 75-125 | | | |
| Chromium | 53.8 | 0.53 | 0.019 | mg/kg dry | 42.0 | 9.47 | 106 | 75-125 | | | |
| Lead | 47.7 | 0.80 | 0.098 | mg/kg dry | 42.0 | 4.28 | 104 | 75-125 | | | |
| Mercury | 12.9 | 0.53 | 0.19 | mg/kg dry | 13.1 | <0.53 | 97.9 | 75-125 | | | |
| Selenium | 39.3 | 2.7 | 0.52 | mg/kg dry | 42.0 | <2.7 | 93.6 | 75-125 | | | |
| Silver | 4.29 | 0.53 | 0.022 | mg/kg dry | 4.20 | <0.53 | 102 | 75-125 | | | |
| **Matrix Spike Dup (B4K1928-MSD1)** | | **Source: 2404561-08** | | | Prepared: 11/19/24 Analyzed: 11/20/24 | | | | | | |
| Arsenic | 41.3 | 0.99 | 0.32 | mg/kg dry | 39.4 | 2.20 | 99.3 | 75-125 | 5.90 | 20 | |
| Barium | 98.0 | 0.99 | 0.044 | mg/kg dry | 39.4 | 43.3 | 139 | 75-125 | 9.45 | 20 | M1 |



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LEGEND Technical Services, Inc.

88 Empire Drive
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| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## TOTAL METALS ANALYSIS - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1928 - EPA 3050B (M)** | | | | | | | | | | | |
| **Matrix Spike Dup (B4K1928-MSD1)** | | **Source: 2404561-08** | | | Prepared: 11/19/24 Analyzed: 11/20/24 | | | | | | |
| Cadmium | 39.6 | 0.099 | 0.088 | mg/kg dry | 39.4 | <0.099 | 100 | 75-125 | 6.68 | 20 | |
| Chromium | 50.0 | 0.49 | 0.018 | mg/kg dry | 39.4 | 9.47 | 103 | 75-125 | 7.34 | 20 | |
| Lead | 45.1 | 0.74 | 0.091 | mg/kg dry | 39.4 | 4.28 | 103 | 75-125 | 5.79 | 20 | |
| Mercury | 12.0 | 0.49 | 0.18 | mg/kg dry | 12.4 | <0.49 | 97.2 | 75-125 | 6.92 | 20 | |
| Selenium | 37.8 | 2.5 | 0.48 | mg/kg dry | 39.4 | <2.5 | 95.8 | 75-125 | 3.91 | 20 | |
| Silver | 4.04 | 0.49 | 0.021 | mg/kg dry | 3.94 | <0.49 | 102 | 75-125 | 5.98 | 20 | |



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| | | | | |
|---|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: | 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: | 11/26/24 |

## PERCENT SOLIDS - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K2538 - General Preparation** | | | | | | | | | | | |
| **Duplicate (B4K2538-DUP1)** | | **Source: 2404561-01** | | | Prepared: 11/25/24 Analyzed: 11/26/24 | | | | | | |
| % Solids | 98.0 | | | % | | 98.0 | | | 0.00 | 20 | |



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| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1846 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **Blank (B4K1846-BLK1)** | | | | | Prepared & Analyzed: 11/15/24 | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 0.20 | 0.20 | 0.011 | mg/kg wet | | | | | | | |
| 1,1,1-Trichloroethane | < 0.20 | 0.20 | 0.010 | mg/kg wet | | | | | | | |
| 1,1,2,2-Tetrachloroethane | < 0.20 | 0.20 | 0.022 | mg/kg wet | | | | | | | |
| 1,1,2-Trichloroethane | < 0.20 | 0.20 | 0.016 | mg/kg wet | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | < 0.20 | 0.20 | 0.018 | mg/kg wet | | | | | | | |
| 1,1-Dichloroethane | < 0.20 | 0.20 | 0.015 | mg/kg wet | | | | | | | |
| 1,1-Dichloroethene | < 0.20 | 0.20 | 0.030 | mg/kg wet | | | | | | | |
| 1,1-Dichloropropene | < 0.20 | 0.20 | 0.050 | mg/kg wet | | | | | | | |
| 1,2,3-Trichlorobenzene | < 0.50 | 0.50 | 0.21 | mg/kg wet | | | | | | | |
| 1,2,3-Trichloropropane | < 0.20 | 0.20 | 0.021 | mg/kg wet | | | | | | | |
| 1,2,4-Trichlorobenzene | < 0.50 | 0.50 | 0.17 | mg/kg wet | | | | | | | |
| 1,2,4-Trimethylbenzene | < 0.20 | 0.20 | 0.033 | mg/kg wet | | | | | | | |
| 1,2-Dibromo-3-chloropropane | < 0.50 | 0.50 | 0.051 | mg/kg wet | | | | | | | |
| 1,2-Dibromoethane (EDB) | < 0.20 | 0.20 | 0.042 | mg/kg wet | | | | | | | |
| 1,2-Dichlorobenzene | < 0.20 | 0.20 | 0.062 | mg/kg wet | | | | | | | |
| 1,2-Dichloroethane | < 0.20 | 0.20 | 0.024 | mg/kg wet | | | | | | | |
| 1,2-Dichloropropane | < 0.20 | 0.20 | 0.019 | mg/kg wet | | | | | | | |
| 1,3,5-Trimethylbenzene | < 0.20 | 0.20 | 0.025 | mg/kg wet | | | | | | | |
| 1,3-Dichlorobenzene | < 0.20 | 0.20 | 0.081 | mg/kg wet | | | | | | | |
| 1,3-Dichloropropane | < 0.20 | 0.20 | 0.014 | mg/kg wet | | | | | | | |
| 1,4-Dichlorobenzene | < 0.20 | 0.20 | 0.094 | mg/kg wet | | | | | | | |
| 2,2-Dichloropropane | < 0.20 | 0.20 | 0.012 | mg/kg wet | | | | | | | |
| 2-Butanone | < 1.0 | 1.0 | 0.16 | mg/kg wet | | | | | | | |
| 2-Chlorotoluene | < 0.20 | 0.20 | 0.039 | mg/kg wet | | | | | | | |
| 4-Chlorotoluene | < 0.20 | 0.20 | 0.060 | mg/kg wet | | | | | | | |
| Acetone | < 1.0 | 1.0 | 0.45 | mg/kg wet | | | | | | | |
| Allyl chloride | < 0.20 | 0.20 | 0.043 | mg/kg wet | | | | | | | |
| Benzene | < 0.20 | 0.20 | 0.020 | mg/kg wet | | | | | | | |
| Bromobenzene | < 0.20 | 0.20 | 0.055 | mg/kg wet | | | | | | | |
| Bromochloromethane | < 0.20 | 0.20 | 0.059 | mg/kg wet | | | | | | | |
| Bromodichloromethane | < 0.20 | 0.20 | 0.019 | mg/kg wet | | | | | | | |
| Bromoform | < 0.20 | 0.20 | 0.016 | mg/kg wet | | | | | | | |
| Bromomethane | < 0.20 | 0.20 | 0.032 | mg/kg wet | | | | | | | |
| Carbon tetrachloride | < 0.20 | 0.20 | 0.014 | mg/kg wet | | | | | | | |
| Chlorobenzene | < 0.20 | 0.20 | 0.049 | mg/kg wet | | | | | | | |
| Chloroethane | < 0.20 | 0.20 | 0.014 | mg/kg wet | | | | | | | |
| Chloroform | < 0.20 | 0.20 | 0.059 | mg/kg wet | | | | | | | |
| Chloromethane | < 0.20 | 0.20 | 0.034 | mg/kg wet | | | | | | | |
| cis-1,2-Dichloroethene | < 0.20 | 0.20 | 0.061 | mg/kg wet | | | | | | | |



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| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1846 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **Blank (B4K1846-BLK1)** | | | | | Prepared & Analyzed: 11/15/24 | | | | | | |
| cis-1,3-Dichloropropene | < 0.20 | 0.20 | 0.045 | mg/kg wet | | | | | | | |
| Dibromochloromethane | < 0.20 | 0.20 | 0.018 | mg/kg wet | | | | | | | |
| Dibromomethane | < 0.20 | 0.20 | 0.049 | mg/kg wet | | | | | | | |
| Dichlorodifluoromethane | < 0.20 | 0.20 | 0.035 | mg/kg wet | | | | | | | |
| Dichlorofluoromethane | < 0.20 | 0.20 | 0.022 | mg/kg wet | | | | | | | |
| Ethyl ether | < 0.20 | 0.20 | 0.021 | mg/kg wet | | | | | | | |
| Ethylbenzene | < 0.20 | 0.20 | 0.045 | mg/kg wet | | | | | | | |
| Hexachlorobutadiene | < 0.50 | 0.50 | 0.11 | mg/kg wet | | | | | | | |
| Isopropylbenzene | < 0.20 | 0.20 | 0.024 | mg/kg wet | | | | | | | |
| m,p-Xylene | < 0.40 | 0.40 | 0.077 | mg/kg wet | | | | | | | |
| Methyl isobutyl ketone | < 0.20 | 0.20 | 0.035 | mg/kg wet | | | | | | | |
| Methyl tert-butyl ether | < 0.20 | 0.20 | 0.013 | mg/kg wet | | | | | | | |
| Methylene chloride | < 0.50 | 0.50 | 0.18 | mg/kg wet | | | | | | | |
| Naphthalene | < 0.50 | 0.50 | 0.18 | mg/kg wet | | | | | | | |
| n-Butylbenzene | < 0.20 | 0.20 | 0.068 | mg/kg wet | | | | | | | |
| n-Propylbenzene | < 0.20 | 0.20 | 0.040 | mg/kg wet | | | | | | | |
| o-Xylene | < 0.20 | 0.20 | 0.050 | mg/kg wet | | | | | | | |
| p-Isopropyltoluene | < 0.20 | 0.20 | 0.041 | mg/kg wet | | | | | | | |
| sec-Butylbenzene | < 0.20 | 0.20 | 0.032 | mg/kg wet | | | | | | | |
| Styrene | < 0.20 | 0.20 | 0.042 | mg/kg wet | | | | | | | |
| tert-Butylbenzene | < 0.20 | 0.20 | 0.024 | mg/kg wet | | | | | | | |
| Tetrachloroethene | < 0.20 | 0.20 | 0.031 | mg/kg wet | | | | | | | |
| Tetrahydrofuran | < 1.0 | 1.0 | 0.16 | mg/kg wet | | | | | | | |
| Toluene | < 0.20 | 0.20 | 0.032 | mg/kg wet | | | | | | | |
| trans-1,2-Dichloroethene | < 0.20 | 0.20 | 0.13 | mg/kg wet | | | | | | | |
| trans-1,3-Dichloropropene | < 0.20 | 0.20 | 0.048 | mg/kg wet | | | | | | | |
| Trichloroethene | < 0.20 | 0.20 | 0.10 | mg/kg wet | | | | | | | |
| Trichlorofluoromethane | < 0.20 | 0.20 | 0.018 | mg/kg wet | | | | | | | |
| Vinyl chloride | < 0.20 | 0.20 | 0.031 | mg/kg wet | | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *45.7* | | | *ug/L* | *50.8* | | *89.9* | *76.4-120* | | | |
| *Surrogate: Dibromofluoromethane* | *46.6* | | | *ug/L* | *50.8* | | *91.8* | *76.2-120* | | | |
| *Surrogate: Toluene-d8* | *45.5* | | | *ug/L* | *50.8* | | *89.5* | *77.2-120* | | | |
| **LCS (B4K1846-BS1)** | | | | | Prepared & Analyzed: 11/15/24 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 43.6 | | | ug/L | 47.0 | | 92.8 | 80-120 | | | |
| 1,1,1-Trichloroethane | 45.4 | | | ug/L | 47.0 | | 96.7 | 78.2-125 | | | |
| 1,1,2,2-Tetrachloroethane | 43.7 | | | ug/L | 47.0 | | 92.9 | 80-120 | | | |
| 1,1,2-Trichloroethane | 45.8 | | | ug/L | 47.0 | | 97.4 | 80-120 | | | |
| 1,1,2-Trichlorotrifluoroethane | 44.1 | | | ug/L | 47.0 | | 93.9 | 75.3-125 | | | |
| 1,1-Dichloroethane | 42.7 | | | ug/L | 47.0 | | 90.9 | 80-120 | | | |



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| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1846 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **LCS (B4K1846-BS1)** | | | | | Prepared & Analyzed: 11/15/24 | | | | | | |
| 1,1-Dichloroethene | 43.5 | | | ug/L | 47.0 | | 92.6 | 75.7-125 | | | |
| 1,1-Dichloropropene | 42.6 | | | ug/L | 47.0 | | 90.7 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 50.0 | | | ug/L | 47.0 | | 106 | 75-125 | | | |
| 1,2,3-Trichloropropane | 43.6 | | | ug/L | 47.0 | | 92.8 | 80-120 | | | |
| 1,2,4-Trichlorobenzene | 50.1 | | | ug/L | 47.0 | | 107 | 75-125 | | | |
| 1,2,4-Trimethylbenzene | 43.5 | | | ug/L | 47.0 | | 92.7 | 80-120 | | | |
| 1,2-Dibromo-3-chloropropane | 48.8 | | | ug/L | 47.0 | | 104 | 75-128 | | | |
| 1,2-Dibromoethane (EDB) | 43.5 | | | ug/L | 47.0 | | 92.5 | 80-120 | | | |
| 1,2-Dichlorobenzene | 48.9 | | | ug/L | 47.0 | | 104 | 75-125 | | | |
| 1,2-Dichloroethane | 46.3 | | | ug/L | 47.0 | | 98.4 | 75.9-125 | | | |
| 1,2-Dichloropropane | 44.3 | | | ug/L | 47.0 | | 94.4 | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 42.7 | | | ug/L | 47.0 | | 90.9 | 80-120 | | | |
| 1,3-Dichlorobenzene | 42.5 | | | ug/L | 47.0 | | 90.5 | 75-125 | | | |
| 1,3-Dichloropropane | 47.0 | | | ug/L | 47.0 | | 99.9 | 80-120 | | | |
| 1,4-Dichlorobenzene | 42.3 | | | ug/L | 47.0 | | 90.1 | 75-125 | | | |
| 2,2-Dichloropropane | 51.4 | | | ug/L | 47.0 | | 109 | 70-137 | | | |
| 2-Butanone | 55.7 | | | ug/L | 47.0 | | 118 | 75-125 | | | |
| 2-Chlorotoluene | 41.9 | | | ug/L | 47.0 | | 89.1 | 80-120 | | | |
| 4-Chlorotoluene | 41.4 | | | ug/L | 47.0 | | 88.1 | 80-120 | | | |
| Acetone | 57.8 | | | ug/L | 47.0 | | 123 | 75-125 | | | |
| Allyl chloride | 43.0 | | | ug/L | 47.0 | | 91.6 | 75-124 | | | |
| Benzene | 43.8 | | | ug/L | 47.0 | | 93.3 | 80-120 | | | |
| Bromobenzene | 41.5 | | | ug/L | 47.0 | | 88.3 | 80-120 | | | |
| Bromochloromethane | 44.0 | | | ug/L | 47.0 | | 93.7 | 80-120 | | | |
| Bromodichloromethane | 45.7 | | | ug/L | 47.0 | | 97.3 | 80-121 | | | |
| Bromoform | 42.4 | | | ug/L | 47.0 | | 90.2 | 80-125 | | | |
| Bromomethane | 44.6 | | | ug/L | 47.0 | | 94.8 | 70-130 | | | |
| Carbon tetrachloride | 45.3 | | | ug/L | 47.0 | | 96.4 | 78.4-125 | | | |
| Chlorobenzene | 43.4 | | | ug/L | 47.0 | | 92.3 | 80-120 | | | |
| Chloroethane | 42.2 | | | ug/L | 47.0 | | 89.9 | 72.4-125 | | | |
| Chloroform | 42.8 | | | ug/L | 47.0 | | 91.1 | 80-120 | | | |
| Chloromethane | 45.7 | | | ug/L | 47.0 | | 97.2 | 70-127 | | | |
| cis-1,2-Dichloroethene | 40.2 | | | ug/L | 47.0 | | 85.5 | 80-120 | | | |
| cis-1,3-Dichloropropene | 46.8 | | | ug/L | 47.0 | | 99.6 | 80-120 | | | |
| Dibromochloromethane | 44.6 | | | ug/L | 47.0 | | 95.0 | 80-121 | | | |
| Dibromomethane | 46.8 | | | ug/L | 47.0 | | 99.6 | 80-120 | | | |
| Dichlorodifluoromethane | 51.0 | | | ug/L | 47.0 | | 109 | 70-130 | | | |
| Dichlorofluoromethane | 45.3 | | | ug/L | 47.0 | | 96.3 | 73.3-130 | | | |
| Ethyl ether | 43.0 | | | ug/L | 47.0 | | 91.4 | 77.8-125 | | | |



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Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1846 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **LCS (B4K1846-BS1)** | | | | | Prepared & Analyzed: 11/15/24 | | | | | | |
| Ethylbenzene | 44.5 | | | ug/L | 47.0 | | 94.6 | 80-120 | | | |
| Hexachlorobutadiene | 46.3 | | | ug/L | 47.0 | | 98.6 | 75-125 | | | |
| Isopropylbenzene | 43.6 | | | ug/L | 47.0 | | 92.7 | 80-120 | | | |
| m,p-Xylene | 87.8 | | | ug/L | 94.1 | | 93.3 | 80-120 | | | |
| Methyl isobutyl ketone | 56.2 | | | ug/L | 47.0 | | 120 | 80-120 | | | |
| Methyl tert-butyl ether | 47.2 | | | ug/L | 47.0 | | 100 | 80-120 | | | |
| Methylene chloride | 41.7 | | | ug/L | 47.0 | | 88.8 | 77.1-120 | | | |
| Naphthalene | 51.1 | | | ug/L | 47.0 | | 109 | 75-125 | | | |
| n-Butylbenzene | 48.8 | | | ug/L | 47.0 | | 104 | 75-125 | | | |
| n-Propylbenzene | 42.5 | | | ug/L | 47.0 | | 90.4 | 80-120 | | | |
| o-Xylene | 43.5 | | | ug/L | 47.0 | | 92.5 | 80-120 | | | |
| p-Isopropyltoluene | 44.3 | | | ug/L | 47.0 | | 94.2 | 75-125 | | | |
| sec-Butylbenzene | 42.7 | | | ug/L | 47.0 | | 90.9 | 80-120 | | | |
| Styrene | 42.9 | | | ug/L | 47.0 | | 91.3 | 80-120 | | | |
| tert-Butylbenzene | 42.5 | | | ug/L | 47.0 | | 90.3 | 80-120 | | | |
| Tetrachloroethene | 44.5 | | | ug/L | 47.0 | | 94.6 | 80-120 | | | |
| Tetrahydrofuran | 51.2 | | | ug/L | 47.0 | | 109 | 75-125 | | | |
| Toluene | 45.4 | | | ug/L | 47.0 | | 96.6 | 80-120 | | | |
| trans-1,2-Dichloroethene | 42.5 | | | ug/L | 47.0 | | 90.5 | 78.2-120 | | | |
| trans-1,3-Dichloropropene | 47.6 | | | ug/L | 47.0 | | 101 | 80-120 | | | |
| Trichloroethene | 43.2 | | | ug/L | 47.0 | | 91.8 | 80-120 | | | |
| Trichlorofluoromethane | 45.3 | | | ug/L | 47.0 | | 96.5 | 70-130 | | | |
| Vinyl chloride | 47.3 | | | ug/L | 47.0 | | 101 | 70-128 | | | |
| *Surrogate: 4-Bromofluorobenzene* | *43.7* | | | *ug/L* | *50.8* | | *86.0* | *76.4-120* | | | |
| *Surrogate: Dibromofluoromethane* | *45.0* | | | *ug/L* | *50.8* | | *88.6* | *76.2-120* | | | |
| *Surrogate: Toluene-d8* | *47.1* | | | *ug/L* | *50.8* | | *92.7* | *77.2-120* | | | |
| **Matrix Spike (B4K1846-MS1)** | | **Source: 2404561-03** | | | Prepared & Analyzed: 11/15/24 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 48.3 | | | ug/L | 47.0 | 0.00 | 103 | 80-122 | | | |
| 1,1,1-Trichloroethane | 48.0 | | | ug/L | 47.0 | 0.00 | 102 | 75.9-125 | | | |
| 1,1,2,2-Tetrachloroethane | 42.3 | | | ug/L | 47.0 | 0.00 | 89.9 | 79.4-120 | | | |
| 1,1,2-Trichloroethane | 44.6 | | | ug/L | 47.0 | 0.00 | 94.9 | 80-120 | | | |
| 1,1,2-Trichlorotrifluoroethane | 48.0 | | | ug/L | 47.0 | 0.00 | 102 | 77.3-125 | | | |
| 1,1-Dichloroethane | 44.9 | | | ug/L | 47.0 | 0.00 | 95.6 | 80-120 | | | |
| 1,1-Dichloroethene | 47.4 | | | ug/L | 47.0 | 0.00 | 101 | 75-125 | | | |
| 1,1-Dichloropropene | 45.6 | | | ug/L | 47.0 | 0.00 | 97.0 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 51.4 | | | ug/L | 47.0 | 0.00 | 109 | 70-125 | | | |
| 1,2,3-Trichloropropane | 40.5 | | | ug/L | 47.0 | 0.00 | 86.1 | 78.5-120 | | | |
| 1,2,4-Trichlorobenzene | 53.3 | | | ug/L | 47.0 | 0.00 | 113 | 70-125 | | | |
| 1,2,4-Trimethylbenzene | 45.7 | | | ug/L | 47.0 | 0.00 | 97.2 | 80-123 | | | |



*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.*

LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1846 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **Matrix Spike (B4K1846-MS1)** | **Source: 2404561-03** | | | | Prepared & Analyzed: 11/15/24 | | | | | | |
| 1,2-Dibromo-3-chloropropane | 52.0 | | | ug/L | 47.0 | 0.00 | 111 | 75-125 | | | |
| 1,2-Dibromoethane (EDB) | 43.0 | | | ug/L | 47.0 | 0.00 | 91.5 | 78.9-120 | | | |
| 1,2-Dichlorobenzene | 50.6 | | | ug/L | 47.0 | 0.00 | 108 | 75-125 | | | |
| 1,2-Dichloroethane | 49.4 | | | ug/L | 47.0 | 0.00 | 105 | 75-125 | | | |
| 1,2-Dichloropropane | 46.1 | | | ug/L | 47.0 | 0.00 | 98.0 | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 44.6 | | | ug/L | 47.0 | 0.00 | 94.8 | 80-121 | | | |
| 1,3-Dichlorobenzene | 44.2 | | | ug/L | 47.0 | 0.00 | 94.1 | 75-125 | | | |
| 1,3-Dichloropropane | 46.1 | | | ug/L | 47.0 | 0.00 | 98.1 | 80-120 | | | |
| 1,4-Dichlorobenzene | 43.4 | | | ug/L | 47.0 | 0.00 | 92.4 | 75-125 | | | |
| 2,2-Dichloropropane | 54.0 | | | ug/L | 47.0 | 0.00 | 115 | 69.4-140 | | | |
| 2-Butanone | 58.1 | | | ug/L | 47.0 | 0.00 | 124 | 75-125 | | | |
| 2-Chlorotoluene | 42.3 | | | ug/L | 47.0 | 0.00 | 90.1 | 80-120 | | | |
| 4-Chlorotoluene | 42.2 | | | ug/L | 47.0 | 0.00 | 89.8 | 79.5-120 | | | |
| Acetone | 64.3 | | | ug/L | 47.0 | 0.00 | 137 | 75-125 | | | M1 |
| Allyl chloride | 46.1 | | | ug/L | 47.0 | 0.00 | 98.2 | 75-124 | | | |
| Benzene | 46.6 | | | ug/L | 47.0 | 0.00 | 99.2 | 80-120 | | | |
| Bromobenzene | 41.1 | | | ug/L | 47.0 | 0.00 | 87.4 | 79.2-120 | | | |
| Bromochloromethane | 46.1 | | | ug/L | 47.0 | 0.00 | 98.1 | 77.9-120 | | | |
| Bromodichloromethane | 47.1 | | | ug/L | 47.0 | 0.00 | 100 | 80-121 | | | |
| Bromoform | 43.5 | | | ug/L | 47.0 | 0.00 | 92.6 | 80-125 | | | |
| Bromomethane | 46.7 | | | ug/L | 47.0 | 0.00 | 99.3 | 70-129 | | | |
| Carbon tetrachloride | 47.7 | | | ug/L | 47.0 | 0.00 | 102 | 77.1-125 | | | |
| Chlorobenzene | 44.6 | | | ug/L | 47.0 | 0.00 | 94.8 | 78.5-120 | | | |
| Chloroethane | 45.0 | | | ug/L | 47.0 | 0.00 | 95.8 | 70-125 | | | |
| Chloroform | 45.6 | | | ug/L | 47.0 | 0.00 | 97.0 | 80-121 | | | |
| Chloromethane | 48.2 | | | ug/L | 47.0 | 0.00 | 102 | 70-128 | | | |
| cis-1,2-Dichloroethene | 44.1 | | | ug/L | 47.0 | 0.00 | 93.8 | 80-120 | | | |
| cis-1,3-Dichloropropene | 47.4 | | | ug/L | 47.0 | 0.00 | 101 | 80-120 | | | |
| Dibromochloromethane | 44.4 | | | ug/L | 47.0 | 0.00 | 94.5 | 80-124 | | | |
| Dibromomethane | 46.7 | | | ug/L | 47.0 | 0.00 | 99.3 | 80-120 | | | |
| Dichlorodifluoromethane | 54.0 | | | ug/L | 47.0 | 0.00 | 115 | 70-130 | | | |
| Dichlorofluoromethane | 49.7 | | | ug/L | 47.0 | 0.00 | 106 | 71.1-130 | | | |
| Ethyl ether | 45.8 | | | ug/L | 47.0 | 0.00 | 97.3 | 76.5-125 | | | |
| Ethylbenzene | 45.3 | | | ug/L | 47.0 | 0.00 | 96.5 | 80-121 | | | |
| Hexachlorobutadiene | 47.0 | | | ug/L | 47.0 | 0.00 | 100 | 75-125 | | | |
| Isopropylbenzene | 45.0 | | | ug/L | 47.0 | 0.00 | 95.6 | 80-120 | | | |
| m,p-Xylene | 90.3 | | | ug/L | 94.1 | 0.00 | 95.9 | 80-120 | | | |
| Methyl isobutyl ketone | 54.5 | | | ug/L | 47.0 | 0.00 | 116 | 79.8-120 | | | |
| Methyl tert-butyl ether | 49.7 | | | ug/L | 47.0 | 0.00 | 106 | 80-121 | | | |



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LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1846 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **Matrix Spike (B4K1846-MS1)** | **Source: 2404561-03** | | | | Prepared & Analyzed: 11/15/24 | | | | | | |
| Methylene chloride | 44.7 | | | ug/L | 47.0 | 0.403 | 94.3 | 76.1-120 | | | |
| Naphthalene | 53.3 | | | ug/L | 47.0 | 0.00 | 113 | 70-125 | | | |
| n-Butylbenzene | 51.8 | | | ug/L | 47.0 | 0.00 | 110 | 75-125 | | | |
| n-Propylbenzene | 42.4 | | | ug/L | 47.0 | 0.00 | 90.3 | 80-120 | | | |
| o-Xylene | 45.1 | | | ug/L | 47.0 | 0.00 | 95.9 | 80-120 | | | |
| p-Isopropyltoluene | 46.1 | | | ug/L | 47.0 | 0.00 | 98.0 | 75-125 | | | |
| sec-Butylbenzene | 44.5 | | | ug/L | 47.0 | 0.00 | 94.8 | 80-120 | | | |
| Styrene | 43.1 | | | ug/L | 47.0 | 0.00 | 91.7 | 80-120 | | | |
| tert-Butylbenzene | 45.0 | | | ug/L | 47.0 | 0.00 | 95.7 | 80-120 | | | |
| Tetrachloroethene | 45.0 | | | ug/L | 47.0 | 0.00 | 95.6 | 80-120 | | | |
| Tetrahydrofuran | 51.5 | | | ug/L | 47.0 | 0.00 | 110 | 75-122 | | | |
| Toluene | 45.9 | | | ug/L | 47.0 | 0.00 | 97.6 | 80-120 | | | |
| trans-1,2-Dichloroethene | 45.9 | | | ug/L | 47.0 | 0.00 | 97.8 | 77.3-120 | | | |
| trans-1,3-Dichloropropene | 46.0 | | | ug/L | 47.0 | 0.00 | 98.0 | 80-120 | | | |
| Trichloroethene | 45.5 | | | ug/L | 47.0 | 0.00 | 96.8 | 80-120 | | | |
| Trichlorofluoromethane | 48.7 | | | ug/L | 47.0 | 0.00 | 104 | 70-130 | | | |
| Vinyl chloride | 50.3 | | | ug/L | 47.0 | 0.00 | 107 | 70-130 | | | |
| *Surrogate: 4-Bromofluorobenzene* | *42.4* | | | *ug/L* | *50.8* | | *83.5* | *76.4-120* | | | |
| *Surrogate: Dibromofluoromethane* | *46.9* | | | *ug/L* | *50.8* | | *92.3* | *76.2-120* | | | |
| *Surrogate: Toluene-d8* | *46.5* | | | *ug/L* | *50.8* | | *91.5* | *77.2-120* | | | |
| **Matrix Spike Dup (B4K1846-MSD1)** | **Source: 2404561-03** | | | | Prepared & Analyzed: 11/15/24 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 47.8 | | | ug/L | 47.0 | 0.00 | 102 | 80-122 | 0.965 | 20 | |
| 1,1,1-Trichloroethane | 47.0 | | | ug/L | 47.0 | 0.00 | 100 | 75.9-125 | 1.99 | 20 | |
| 1,1,2,2-Tetrachloroethane | 41.5 | | | ug/L | 47.0 | 0.00 | 88.3 | 79.4-120 | 1.86 | 20 | |
| 1,1,2-Trichloroethane | 44.0 | | | ug/L | 47.0 | 0.00 | 93.7 | 80-120 | 1.35 | 20 | |
| 1,1,2-Trichlorotrifluoroethane | 46.3 | | | ug/L | 47.0 | 0.00 | 98.6 | 77.3-125 | 3.51 | 20 | |
| 1,1-Dichloroethane | 43.8 | | | ug/L | 47.0 | 0.00 | 93.2 | 80-120 | 2.54 | 20 | |
| 1,1-Dichloroethene | 44.5 | | | ug/L | 47.0 | 0.00 | 94.6 | 75-125 | 6.50 | 20 | |
| 1,1-Dichloropropene | 44.1 | | | ug/L | 47.0 | 0.00 | 93.7 | 80-120 | 3.43 | 20 | |
| 1,2,3-Trichlorobenzene | 51.6 | | | ug/L | 47.0 | 0.00 | 110 | 70-125 | 0.443 | 21.1 | |
| 1,2,3-Trichloropropane | 39.8 | | | ug/L | 47.0 | 0.00 | 84.6 | 78.5-120 | 1.76 | 20 | |
| 1,2,4-Trichlorobenzene | 52.3 | | | ug/L | 47.0 | 0.00 | 111 | 70-125 | 1.83 | 20 | |
| 1,2,4-Trimethylbenzene | 44.2 | | | ug/L | 47.0 | 0.00 | 94.1 | 80-123 | 3.28 | 20 | |
| 1,2-Dibromo-3-chloropropane | 48.8 | | | ug/L | 47.0 | 0.00 | 104 | 75-125 | 6.39 | 20 | |
| 1,2-Dibromoethane (EDB) | 42.2 | | | ug/L | 47.0 | 0.00 | 89.8 | 78.9-120 | 1.97 | 20 | |
| 1,2-Dichlorobenzene | 49.6 | | | ug/L | 47.0 | 0.00 | 106 | 75-125 | 1.94 | 20 | |
| 1,2-Dichloroethane | 48.1 | | | ug/L | 47.0 | 0.00 | 102 | 75-125 | 2.53 | 20 | |
| 1,2-Dichloropropane | 44.4 | | | ug/L | 47.0 | 0.00 | 94.4 | 80-120 | 3.76 | 20 | |
| 1,3,5-Trimethylbenzene | 43.7 | | | ug/L | 47.0 | 0.00 | 92.9 | 80-121 | 2.08 | 20 | |



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St Paul, MN 55103
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| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1846 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **Matrix Spike Dup (B4K1846-MSD1)** | **Source: 2404561-03** | | | | Prepared & Analyzed: 11/15/24 | | | | | | |
| 1,3-Dichlorobenzene | 43.7 | | | ug/L | 47.0 | 0.00 | 93.0 | 75-125 | 1.18 | 20 | |
| 1,3-Dichloropropane | 46.5 | | | ug/L | 47.0 | 0.00 | 98.9 | 80-120 | 0.790 | 20 | |
| 1,4-Dichlorobenzene | 42.8 | | | ug/L | 47.0 | 0.00 | 91.2 | 75-125 | 1.33 | 20 | |
| 2,2-Dichloropropane | 50.3 | | | ug/L | 47.0 | 0.00 | 107 | 69.4-140 | 7.09 | 20 | |
| 2-Butanone | 55.6 | | | ug/L | 47.0 | 0.00 | 118 | 75-125 | 4.36 | 20 | |
| 2-Chlorotoluene | 42.2 | | | ug/L | 47.0 | 0.00 | 89.7 | 80-120 | 0.404 | 20 | |
| 4-Chlorotoluene | 41.9 | | | ug/L | 47.0 | 0.00 | 89.2 | 79.5-120 | 0.640 | 20 | |
| Acetone | 53.9 | | | ug/L | 47.0 | 0.00 | 115 | 75-125 | 17.5 | 25 | |
| Allyl chloride | 44.0 | | | ug/L | 47.0 | 0.00 | 93.7 | 75-124 | 4.66 | 20 | |
| Benzene | 44.9 | | | ug/L | 47.0 | 0.00 | 95.5 | 80-120 | 3.75 | 20 | |
| Bromobenzene | 40.1 | | | ug/L | 47.0 | 0.00 | 85.3 | 79.2-120 | 2.40 | 20 | |
| Bromochloromethane | 44.8 | | | ug/L | 47.0 | 0.00 | 95.3 | 77.9-120 | 2.86 | 20 | |
| Bromodichloromethane | 45.3 | | | ug/L | 47.0 | 0.00 | 96.3 | 80-121 | 3.93 | 20 | |
| Bromoform | 44.2 | | | ug/L | 47.0 | 0.00 | 94.0 | 80-125 | 1.51 | 20 | |
| Bromomethane | 42.8 | | | ug/L | 47.0 | 0.00 | 91.1 | 70-129 | 8.63 | 20.3 | |
| Carbon tetrachloride | 46.1 | | | ug/L | 47.0 | 0.00 | 98.2 | 77.1-125 | 3.41 | 20 | |
| Chlorobenzene | 44.1 | | | ug/L | 47.0 | 0.00 | 93.9 | 78.5-120 | 0.915 | 20 | |
| Chloroethane | 43.5 | | | ug/L | 47.0 | 0.00 | 92.5 | 70-125 | 3.51 | 20 | |
| Chloroform | 43.7 | | | ug/L | 47.0 | 0.00 | 93.0 | 80-121 | 4.16 | 20 | |
| Chloromethane | 46.6 | | | ug/L | 47.0 | 0.00 | 99.1 | 70-128 | 3.30 | 20 | |
| cis-1,2-Dichloroethene | 42.3 | | | ug/L | 47.0 | 0.00 | 90.0 | 80-120 | 4.19 | 20 | |
| cis-1,3-Dichloropropene | 47.6 | | | ug/L | 47.0 | 0.00 | 101 | 80-120 | 0.463 | 20 | |
| Dibromochloromethane | 44.9 | | | ug/L | 47.0 | 0.00 | 95.6 | 80-124 | 1.15 | 20 | |
| Dibromomethane | 45.2 | | | ug/L | 47.0 | 0.00 | 96.3 | 80-120 | 3.11 | 20 | |
| Dichlorodifluoromethane | 52.0 | | | ug/L | 47.0 | 0.00 | 111 | 70-130 | 3.74 | 20 | |
| Dichlorofluoromethane | 47.0 | | | ug/L | 47.0 | 0.00 | 99.9 | 71.1-130 | 5.55 | 20 | |
| Ethyl ether | 43.6 | | | ug/L | 47.0 | 0.00 | 92.8 | 76.5-125 | 4.78 | 20 | |
| Ethylbenzene | 45.0 | | | ug/L | 47.0 | 0.00 | 95.8 | 80-121 | 0.693 | 20 | |
| Hexachlorobutadiene | 47.1 | | | ug/L | 47.0 | 0.00 | 100 | 75-125 | 0.0761 | 20 | |
| Isopropylbenzene | 43.7 | | | ug/L | 47.0 | 0.00 | 92.9 | 80-120 | 2.89 | 20 | |
| m,p-Xylene | 89.7 | | | ug/L | 94.1 | 0.00 | 95.4 | 80-120 | 0.590 | 20 | |
| Methyl isobutyl ketone | 54.2 | | | ug/L | 47.0 | 0.00 | 115 | 79.8-120 | 0.425 | 20 | |
| Methyl tert-butyl ether | 47.9 | | | ug/L | 47.0 | 0.00 | 102 | 80-121 | 3.76 | 20 | |
| Methylene chloride | 43.1 | | | ug/L | 47.0 | 0.403 | 90.8 | 76.1-120 | 3.65 | 20 | |
| Naphthalene | 50.6 | | | ug/L | 47.0 | 0.00 | 108 | 70-125 | 5.28 | 20.2 | |
| n-Butylbenzene | 49.4 | | | ug/L | 47.0 | 0.00 | 105 | 75-125 | 4.59 | 20 | |
| n-Propylbenzene | 42.4 | | | ug/L | 47.0 | 0.00 | 90.2 | 80-120 | 0.0948 | 20 | |
| o-Xylene | 45.2 | | | ug/L | 47.0 | 0.00 | 96.1 | 80-120 | 0.221 | 20 | |
| p-Isopropyltoluene | 45.2 | | | ug/L | 47.0 | 0.00 | 96.1 | 75-125 | 1.96 | 20 | |



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|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1846 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **Matrix Spike Dup (B4K1846-MSD1)** | | **Source: 2404561-03** | | | Prepared & Analyzed: 11/15/24 | | | | | | |
| sec-Butylbenzene | 43.6 | | | ug/L | 47.0 | 0.00 | 92.8 | 80-120 | 2.08 | 20 | |
| Styrene | 43.8 | | | ug/L | 47.0 | 0.00 | 93.3 | 80-120 | 1.76 | 20 | |
| tert-Butylbenzene | 43.9 | | | ug/L | 47.0 | 0.00 | 93.4 | 80-120 | 2.43 | 20 | |
| Tetrachloroethene | 46.1 | | | ug/L | 47.0 | 0.00 | 98.1 | 80-120 | 2.54 | 20 | |
| Tetrahydrofuran | 51.5 | | | ug/L | 47.0 | 0.00 | 109 | 75-122 | 0.0169 | 20 | |
| Toluene | 45.7 | | | ug/L | 47.0 | 0.00 | 97.2 | 80-120 | 0.392 | 20 | |
| trans-1,2-Dichloroethene | 43.5 | | | ug/L | 47.0 | 0.00 | 92.5 | 77.3-120 | 5.54 | 20 | |
| trans-1,3-Dichloropropene | 45.3 | | | ug/L | 47.0 | 0.00 | 96.5 | 80-120 | 1.54 | 20 | |
| Trichloroethene | 45.5 | | | ug/L | 47.0 | 0.00 | 96.8 | 80-120 | 0.00878 | 20 | |
| Trichlorofluoromethane | 48.3 | | | ug/L | 47.0 | 0.00 | 103 | 70-130 | 0.927 | 20 | |
| Vinyl chloride | 49.0 | | | ug/L | 47.0 | 0.00 | 104 | 70-130 | 2.64 | 20 | |
| *Surrogate: 4-Bromofluorobenzene* | *41.8* | | | *ug/L* | *50.8* | | *82.3* | *76.4-120* | | | |
| *Surrogate: Dibromofluoromethane* | *45.1* | | | *ug/L* | *50.8* | | *88.7* | *76.2-120* | | | |
| *Surrogate: Toluene-d8* | *45.6* | | | *ug/L* | *50.8* | | *89.9* | *77.2-120* | | | |
| **Batch B4K1847 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **Blank (B4K1847-BLK1)** | | | | | Prepared & Analyzed: 11/18/24 | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 0.20 | 0.20 | 0.011 | mg/kg wet | | | | | | | |
| 1,1,1-Trichloroethane | < 0.20 | 0.20 | 0.010 | mg/kg wet | | | | | | | |
| 1,1,2,2-Tetrachloroethane | < 0.20 | 0.20 | 0.022 | mg/kg wet | | | | | | | |
| 1,1,2-Trichloroethane | < 0.20 | 0.20 | 0.016 | mg/kg wet | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | < 0.20 | 0.20 | 0.018 | mg/kg wet | | | | | | | |
| 1,1-Dichloroethane | < 0.20 | 0.20 | 0.015 | mg/kg wet | | | | | | | |
| 1,1-Dichloroethene | < 0.20 | 0.20 | 0.030 | mg/kg wet | | | | | | | |
| 1,1-Dichloropropene | < 0.20 | 0.20 | 0.050 | mg/kg wet | | | | | | | |
| 1,2,3-Trichlorobenzene | < 0.50 | 0.50 | 0.21 | mg/kg wet | | | | | | | |
| 1,2,3-Trichloropropane | < 0.20 | 0.20 | 0.021 | mg/kg wet | | | | | | | |
| 1,2,4-Trichlorobenzene | < 0.50 | 0.50 | 0.17 | mg/kg wet | | | | | | | |
| 1,2,4-Trimethylbenzene | < 0.20 | 0.20 | 0.033 | mg/kg wet | | | | | | | |
| 1,2-Dibromo-3-chloropropane | < 0.50 | 0.50 | 0.051 | mg/kg wet | | | | | | | |
| 1,2-Dibromoethane (EDB) | < 0.20 | 0.20 | 0.042 | mg/kg wet | | | | | | | |
| 1,2-Dichlorobenzene | < 0.20 | 0.20 | 0.062 | mg/kg wet | | | | | | | |
| 1,2-Dichloroethane | < 0.20 | 0.20 | 0.024 | mg/kg wet | | | | | | | |
| 1,2-Dichloropropane | < 0.20 | 0.20 | 0.019 | mg/kg wet | | | | | | | |
| 1,3,5-Trimethylbenzene | < 0.20 | 0.20 | 0.025 | mg/kg wet | | | | | | | |
| 1,3-Dichlorobenzene | < 0.20 | 0.20 | 0.081 | mg/kg wet | | | | | | | |
| 1,3-Dichloropropane | < 0.20 | 0.20 | 0.014 | mg/kg wet | | | | | | | |
| 1,4-Dichlorobenzene | < 0.20 | 0.20 | 0.094 | mg/kg wet | | | | | | | |
| 2,2-Dichloropropane | < 0.20 | 0.20 | 0.012 | mg/kg wet | | | | | | | |
| 2-Butanone | < 1.0 | 1.0 | 0.16 | mg/kg wet | | | | | | | |



*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.*

LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1847 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **Blank (B4K1847-BLK1)** | | | | | Prepared & Analyzed: 11/18/24 | | | | | | |
| 2-Chlorotoluene | < 0.20 | 0.20 | 0.039 | mg/kg wet | | | | | | | |
| 4-Chlorotoluene | < 0.20 | 0.20 | 0.060 | mg/kg wet | | | | | | | |
| Acetone | < 1.0 | 1.0 | 0.45 | mg/kg wet | | | | | | | |
| Allyl chloride | < 0.20 | 0.20 | 0.043 | mg/kg wet | | | | | | | |
| Benzene | < 0.20 | 0.20 | 0.020 | mg/kg wet | | | | | | | |
| Bromobenzene | < 0.20 | 0.20 | 0.055 | mg/kg wet | | | | | | | |
| Bromochloromethane | < 0.20 | 0.20 | 0.059 | mg/kg wet | | | | | | | |
| Bromodichloromethane | < 0.20 | 0.20 | 0.019 | mg/kg wet | | | | | | | |
| Bromoform | < 0.20 | 0.20 | 0.016 | mg/kg wet | | | | | | | |
| Bromomethane | < 0.20 | 0.20 | 0.032 | mg/kg wet | | | | | | | |
| Carbon tetrachloride | < 0.20 | 0.20 | 0.014 | mg/kg wet | | | | | | | |
| Chlorobenzene | < 0.20 | 0.20 | 0.049 | mg/kg wet | | | | | | | |
| Chloroethane | < 0.20 | 0.20 | 0.014 | mg/kg wet | | | | | | | |
| Chloroform | < 0.20 | 0.20 | 0.059 | mg/kg wet | | | | | | | |
| Chloromethane | < 0.20 | 0.20 | 0.034 | mg/kg wet | | | | | | | |
| cis-1,2-Dichloroethene | < 0.20 | 0.20 | 0.061 | mg/kg wet | | | | | | | |
| cis-1,3-Dichloropropene | < 0.20 | 0.20 | 0.045 | mg/kg wet | | | | | | | |
| Dibromochloromethane | < 0.20 | 0.20 | 0.018 | mg/kg wet | | | | | | | |
| Dibromomethane | < 0.20 | 0.20 | 0.049 | mg/kg wet | | | | | | | |
| Dichlorodifluoromethane | < 0.20 | 0.20 | 0.035 | mg/kg wet | | | | | | | |
| Dichlorofluoromethane | < 0.20 | 0.20 | 0.022 | mg/kg wet | | | | | | | |
| Ethyl ether | < 0.20 | 0.20 | 0.021 | mg/kg wet | | | | | | | |
| Ethylbenzene | < 0.20 | 0.20 | 0.045 | mg/kg wet | | | | | | | |
| Hexachlorobutadiene | < 0.50 | 0.50 | 0.11 | mg/kg wet | | | | | | | |
| Isopropylbenzene | < 0.20 | 0.20 | 0.024 | mg/kg wet | | | | | | | |
| m,p-Xylene | < 0.40 | 0.40 | 0.077 | mg/kg wet | | | | | | | |
| Methyl isobutyl ketone | < 0.20 | 0.20 | 0.035 | mg/kg wet | | | | | | | |
| Methyl tert-butyl ether | < 0.20 | 0.20 | 0.013 | mg/kg wet | | | | | | | |
| Methylene chloride | < 0.50 | 0.50 | 0.18 | mg/kg wet | | | | | | | |
| Naphthalene | < 0.50 | 0.50 | 0.18 | mg/kg wet | | | | | | | |
| n-Butylbenzene | < 0.20 | 0.20 | 0.068 | mg/kg wet | | | | | | | |
| n-Propylbenzene | < 0.20 | 0.20 | 0.040 | mg/kg wet | | | | | | | |
| o-Xylene | < 0.20 | 0.20 | 0.050 | mg/kg wet | | | | | | | |
| p-Isopropyltoluene | < 0.20 | 0.20 | 0.041 | mg/kg wet | | | | | | | |
| sec-Butylbenzene | < 0.20 | 0.20 | 0.032 | mg/kg wet | | | | | | | |
| Styrene | < 0.20 | 0.20 | 0.042 | mg/kg wet | | | | | | | |
| tert-Butylbenzene | < 0.20 | 0.20 | 0.024 | mg/kg wet | | | | | | | |
| Tetrachloroethene | < 0.20 | 0.20 | 0.031 | mg/kg wet | | | | | | | |
| Tetrahydrofuran | < 1.0 | 1.0 | 0.16 | mg/kg wet | | | | | | | |



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LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1847 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **Blank (B4K1847-BLK1)** | | | | | Prepared & Analyzed: 11/18/24 | | | | | | |
| Toluene | < 0.20 | 0.20 | 0.032 | mg/kg wet | | | | | | | |
| trans-1,2-Dichloroethene | < 0.20 | 0.20 | 0.13 | mg/kg wet | | | | | | | |
| trans-1,3-Dichloropropene | < 0.20 | 0.20 | 0.048 | mg/kg wet | | | | | | | |
| Trichloroethene | < 0.20 | 0.20 | 0.10 | mg/kg wet | | | | | | | |
| Trichlorofluoromethane | < 0.20 | 0.20 | 0.018 | mg/kg wet | | | | | | | |
| Vinyl chloride | < 0.20 | 0.20 | 0.031 | mg/kg wet | | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *44.6* | | | *ug/L* | *50.8* | | *87.8* | *76.4-120* | | | |
| *Surrogate: Dibromofluoromethane* | *47.4* | | | *ug/L* | *50.8* | | *93.3* | *76.2-120* | | | |
| *Surrogate: Toluene-d8* | *43.1* | | | *ug/L* | *50.8* | | *84.9* | *77.2-120* | | | |
| **LCS (B4K1847-BS1)** | | | | | Prepared & Analyzed: 11/18/24 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 46.8 | | | ug/L | 47.0 | | 99.7 | 80-120 | | | |
| 1,1,1-Trichloroethane | 45.0 | | | ug/L | 47.0 | | 95.7 | 78.2-125 | | | |
| 1,1,2,2-Tetrachloroethane | 42.3 | | | ug/L | 47.0 | | 89.9 | 80-120 | | | |
| 1,1,2-Trichloroethane | 42.8 | | | ug/L | 47.0 | | 91.0 | 80-120 | | | |
| 1,1,2-Trichlorotrifluoroethane | 45.2 | | | ug/L | 47.0 | | 96.2 | 75.3-125 | | | |
| 1,1-Dichloroethane | 42.7 | | | ug/L | 47.0 | | 90.8 | 80-120 | | | |
| 1,1-Dichloroethene | 43.3 | | | ug/L | 47.0 | | 92.2 | 75.7-125 | | | |
| 1,1-Dichloropropene | 42.8 | | | ug/L | 47.0 | | 91.1 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 45.2 | | | ug/L | 47.0 | | 96.1 | 75-125 | | | |
| 1,2,3-Trichloropropane | 41.5 | | | ug/L | 47.0 | | 88.4 | 80-120 | | | |
| 1,2,4-Trichlorobenzene | 46.8 | | | ug/L | 47.0 | | 99.5 | 75-125 | | | |
| 1,2,4-Trimethylbenzene | 42.3 | | | ug/L | 47.0 | | 90.0 | 80-120 | | | |
| 1,2-Dibromo-3-chloropropane | 48.0 | | | ug/L | 47.0 | | 102 | 75-128 | | | |
| 1,2-Dibromoethane (EDB) | 42.3 | | | ug/L | 47.0 | | 89.9 | 80-120 | | | |
| 1,2-Dichlorobenzene | 47.8 | | | ug/L | 47.0 | | 102 | 75-125 | | | |
| 1,2-Dichloroethane | 47.2 | | | ug/L | 47.0 | | 100 | 75.9-125 | | | |
| 1,2-Dichloropropane | 43.8 | | | ug/L | 47.0 | | 93.1 | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 42.0 | | | ug/L | 47.0 | | 89.4 | 80-120 | | | |
| 1,3-Dichlorobenzene | 43.4 | | | ug/L | 47.0 | | 92.3 | 75-125 | | | |
| 1,3-Dichloropropane | 44.7 | | | ug/L | 47.0 | | 95.0 | 80-120 | | | |
| 1,4-Dichlorobenzene | 42.3 | | | ug/L | 47.0 | | 89.9 | 75-125 | | | |
| 2,2-Dichloropropane | 52.4 | | | ug/L | 47.0 | | 112 | 70-137 | | | |
| 2-Butanone | 45.3 | | | ug/L | 47.0 | | 96.4 | 75-125 | | | |
| 2-Chlorotoluene | 42.1 | | | ug/L | 47.0 | | 89.5 | 80-120 | | | |
| 4-Chlorotoluene | 41.3 | | | ug/L | 47.0 | | 88.0 | 80-120 | | | |
| Acetone | 44.5 | | | ug/L | 47.0 | | 94.7 | 75-125 | | | |
| Allyl chloride | 43.2 | | | ug/L | 47.0 | | 92.0 | 75-124 | | | |
| Benzene | 44.1 | | | ug/L | 47.0 | | 93.9 | 80-120 | | | |
| Bromobenzene | 41.4 | | | ug/L | 47.0 | | 88.1 | 80-120 | | | |



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Tel: 651-642-1150

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|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1847 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **LCS (B4K1847-BS1)** | | | | | Prepared & Analyzed: 11/18/24 | | | | | | |
| Bromochloromethane | 44.8 | | | ug/L | 47.0 | | 95.2 | 80-120 | | | |
| Bromodichloromethane | 45.8 | | | ug/L | 47.0 | | 97.5 | 80-121 | | | |
| Bromoform | 44.6 | | | ug/L | 47.0 | | 94.9 | 80-125 | | | |
| Bromomethane | 42.0 | | | ug/L | 47.0 | | 89.3 | 70-130 | | | |
| Carbon tetrachloride | 47.3 | | | ug/L | 47.0 | | 101 | 78.4-125 | | | |
| Chlorobenzene | 42.6 | | | ug/L | 47.0 | | 90.6 | 80-120 | | | |
| Chloroethane | 43.4 | | | ug/L | 47.0 | | 92.4 | 72.4-125 | | | |
| Chloroform | 43.6 | | | ug/L | 47.0 | | 92.8 | 80-120 | | | |
| Chloromethane | 44.6 | | | ug/L | 47.0 | | 94.9 | 70-127 | | | |
| cis-1,2-Dichloroethene | 43.0 | | | ug/L | 47.0 | | 91.4 | 80-120 | | | |
| cis-1,3-Dichloropropene | 44.4 | | | ug/L | 47.0 | | 94.4 | 80-120 | | | |
| Dibromochloromethane | 44.1 | | | ug/L | 47.0 | | 93.8 | 80-121 | | | |
| Dibromomethane | 46.4 | | | ug/L | 47.0 | | 98.6 | 80-120 | | | |
| Dichlorodifluoromethane | 50.1 | | | ug/L | 47.0 | | 107 | 70-130 | | | |
| Dichlorofluoromethane | 47.3 | | | ug/L | 47.0 | | 101 | 73.3-130 | | | |
| Ethyl ether | 44.1 | | | ug/L | 47.0 | | 93.7 | 77.8-125 | | | |
| Ethylbenzene | 43.6 | | | ug/L | 47.0 | | 92.7 | 80-120 | | | |
| Hexachlorobutadiene | 37.7 | | | ug/L | 47.0 | | 80.2 | 75-125 | | | |
| Isopropylbenzene | 42.8 | | | ug/L | 47.0 | | 91.0 | 80-120 | | | |
| m,p-Xylene | 87.5 | | | ug/L | 94.1 | | 93.0 | 80-120 | | | |
| Methyl isobutyl ketone | 48.3 | | | ug/L | 47.0 | | 103 | 80-120 | | | |
| Methyl tert-butyl ether | 47.6 | | | ug/L | 47.0 | | 101 | 80-120 | | | |
| Methylene chloride | 43.4 | | | ug/L | 47.0 | | 92.3 | 77.1-120 | | | |
| Naphthalene | 48.7 | | | ug/L | 47.0 | | 104 | 75-125 | | | |
| n-Butylbenzene | 43.2 | | | ug/L | 47.0 | | 91.9 | 75-125 | | | |
| n-Propylbenzene | 41.1 | | | ug/L | 47.0 | | 87.5 | 80-120 | | | |
| o-Xylene | 44.4 | | | ug/L | 47.0 | | 94.5 | 80-120 | | | |
| p-Isopropyltoluene | 41.1 | | | ug/L | 47.0 | | 87.5 | 75-125 | | | |
| sec-Butylbenzene | 39.3 | | | ug/L | 47.0 | | 83.6 | 80-120 | | | |
| Styrene | 42.7 | | | ug/L | 47.0 | | 90.9 | 80-120 | | | |
| tert-Butylbenzene | 41.6 | | | ug/L | 47.0 | | 88.6 | 80-120 | | | |
| Tetrachloroethene | 43.0 | | | ug/L | 47.0 | | 91.5 | 80-120 | | | |
| Tetrahydrofuran | 44.9 | | | ug/L | 47.0 | | 95.5 | 75-125 | | | |
| Toluene | 43.0 | | | ug/L | 47.0 | | 91.6 | 80-120 | | | |
| trans-1,2-Dichloroethene | 43.1 | | | ug/L | 47.0 | | 91.6 | 78.2-120 | | | |
| trans-1,3-Dichloropropene | 43.4 | | | ug/L | 47.0 | | 92.3 | 80-120 | | | |
| Trichloroethene | 43.1 | | | ug/L | 47.0 | | 91.8 | 80-120 | | | |
| Trichlorofluoromethane | 45.8 | | | ug/L | 47.0 | | 97.5 | 70-130 | | | |
| Vinyl chloride | 46.4 | | | ug/L | 47.0 | | 98.6 | 70-128 | | | |



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|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1847 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **LCS (B4K1847-BS1)** | | | | | Prepared & Analyzed: 11/18/24 | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *43.0* | | | *ug/L* | *50.8* | | *84.7* | *76.4-120* | | | |
| *Surrogate: Dibromofluoromethane* | *45.3* | | | *ug/L* | *50.8* | | *89.1* | *76.2-120* | | | |
| *Surrogate: Toluene-d8* | *43.4* | | | *ug/L* | *50.8* | | *85.5* | *77.2-120* | | | |
| **Matrix Spike (B4K1847-MS1)** | | **Source: 2404561-08** | | | Prepared & Analyzed: 11/18/24 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 47.2 | | | ug/L | 47.0 | 0.00 | 100 | 80-122 | | | |
| 1,1,1-Trichloroethane | 48.5 | | | ug/L | 47.0 | 0.00 | 103 | 75.9-125 | | | |
| 1,1,2,2-Tetrachloroethane | 40.7 | | | ug/L | 47.0 | 0.00 | 86.5 | 79.4-120 | | | |
| 1,1,2-Trichloroethane | 43.3 | | | ug/L | 47.0 | 0.00 | 92.0 | 80-120 | | | |
| 1,1,2-Trichlorotrifluoroethane | 48.1 | | | ug/L | 47.0 | 0.00 | 102 | 77.3-125 | | | |
| 1,1-Dichloroethane | 46.7 | | | ug/L | 47.0 | 0.00 | 99.4 | 80-120 | | | |
| 1,1-Dichloroethene | 45.6 | | | ug/L | 47.0 | 0.00 | 97.0 | 75-125 | | | |
| 1,1-Dichloropropene | 45.3 | | | ug/L | 47.0 | 0.00 | 96.5 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 45.6 | | | ug/L | 47.0 | 0.00 | 97.1 | 70-125 | | | |
| 1,2,3-Trichloropropane | 39.8 | | | ug/L | 47.0 | 0.00 | 84.6 | 78.5-120 | | | |
| 1,2,4-Trichlorobenzene | 46.3 | | | ug/L | 47.0 | 0.00 | 98.5 | 70-125 | | | |
| 1,2,4-Trimethylbenzene | 43.4 | | | ug/L | 47.0 | 0.00 | 92.3 | 80-123 | | | |
| 1,2-Dibromo-3-chloropropane | 46.8 | | | ug/L | 47.0 | 0.00 | 99.7 | 75-125 | | | |
| 1,2-Dibromoethane (EDB) | 42.2 | | | ug/L | 47.0 | 0.00 | 89.8 | 78.9-120 | | | |
| 1,2-Dichlorobenzene | 47.5 | | | ug/L | 47.0 | 0.00 | 101 | 75-125 | | | |
| 1,2-Dichloroethane | 49.4 | | | ug/L | 47.0 | 0.00 | 105 | 75-125 | | | |
| 1,2-Dichloropropane | 45.8 | | | ug/L | 47.0 | 0.00 | 97.5 | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 43.3 | | | ug/L | 47.0 | 0.00 | 92.1 | 80-121 | | | |
| 1,3-Dichlorobenzene | 42.8 | | | ug/L | 47.0 | 0.00 | 91.0 | 75-125 | | | |
| 1,3-Dichloropropane | 44.1 | | | ug/L | 47.0 | 0.00 | 93.9 | 80-120 | | | |
| 1,4-Dichlorobenzene | 42.5 | | | ug/L | 47.0 | 0.00 | 90.4 | 75-125 | | | |
| 2,2-Dichloropropane | 54.5 | | | ug/L | 47.0 | 0.00 | 116 | 69.4-140 | | | |
| 2-Butanone | 47.7 | | | ug/L | 47.0 | 0.00 | 101 | 75-125 | | | |
| 2-Chlorotoluene | 41.9 | | | ug/L | 47.0 | 0.00 | 89.2 | 80-120 | | | |
| 4-Chlorotoluene | 41.4 | | | ug/L | 47.0 | 0.00 | 88.1 | 79.5-120 | | | |
| Acetone | 53.0 | | | ug/L | 47.0 | 1.58 | 109 | 75-125 | | | |
| Allyl chloride | 46.1 | | | ug/L | 47.0 | 0.00 | 98.2 | 75-124 | | | |
| Benzene | 46.2 | | | ug/L | 47.0 | 0.00 | 98.3 | 80-120 | | | |
| Bromobenzene | 40.6 | | | ug/L | 47.0 | 0.00 | 86.4 | 79.2-120 | | | |
| Bromochloromethane | 47.2 | | | ug/L | 47.0 | 0.00 | 100 | 77.9-120 | | | |
| Bromodichloromethane | 46.3 | | | ug/L | 47.0 | 0.00 | 98.6 | 80-121 | | | |
| Bromoform | 42.6 | | | ug/L | 47.0 | 0.00 | 90.6 | 80-125 | | | |
| Bromomethane | 44.9 | | | ug/L | 47.0 | 0.00 | 95.6 | 70-129 | | | |
| Carbon tetrachloride | 48.9 | | | ug/L | 47.0 | 0.00 | 104 | 77.1-125 | | | |
| Chlorobenzene | 44.4 | | | ug/L | 47.0 | 0.00 | 94.5 | 78.5-120 | | | |



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| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1847 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **Matrix Spike (B4K1847-MS1)** | **Source: 2404561-08** | | | | Prepared & Analyzed: 11/18/24 | | | | | | |
| Chloroethane | 44.1 | | | ug/L | 47.0 | 0.00 | 93.8 | 70-125 | | | |
| Chloroform | 46.1 | | | ug/L | 47.0 | 0.00 | 98.1 | 80-121 | | | |
| Chloromethane | 45.8 | | | ug/L | 47.0 | 0.00 | 97.5 | 70-128 | | | |
| cis-1,2-Dichloroethene | 45.8 | | | ug/L | 47.0 | 0.00 | 97.3 | 80-120 | | | |
| cis-1,3-Dichloropropene | 46.4 | | | ug/L | 47.0 | 0.00 | 98.7 | 80-120 | | | |
| Dibromochloromethane | 43.8 | | | ug/L | 47.0 | 0.00 | 93.2 | 80-124 | | | |
| Dibromomethane | 46.2 | | | ug/L | 47.0 | 0.00 | 98.3 | 80-120 | | | |
| Dichlorodifluoromethane | 52.7 | | | ug/L | 47.0 | 0.00 | 112 | 70-130 | | | |
| Dichlorofluoromethane | 48.9 | | | ug/L | 47.0 | 0.00 | 104 | 71.1-130 | | | |
| Ethyl ether | 46.0 | | | ug/L | 47.0 | 0.00 | 97.9 | 76.5-125 | | | |
| Ethylbenzene | 44.6 | | | ug/L | 47.0 | 0.00 | 94.9 | 80-121 | | | |
| Hexachlorobutadiene | 40.9 | | | ug/L | 47.0 | 0.00 | 87.1 | 75-125 | | | |
| Isopropylbenzene | 43.9 | | | ug/L | 47.0 | 0.00 | 93.5 | 80-120 | | | |
| m,p-Xylene | 90.3 | | | ug/L | 94.1 | 0.00 | 95.9 | 80-120 | | | |
| Methyl isobutyl ketone | 50.6 | | | ug/L | 47.0 | 0.00 | 108 | 79.8-120 | | | |
| Methyl tert-butyl ether | 49.5 | | | ug/L | 47.0 | 0.00 | 105 | 80-121 | | | |
| Methylene chloride | 44.8 | | | ug/L | 47.0 | 0.602 | 94.1 | 76.1-120 | | | |
| Naphthalene | 46.9 | | | ug/L | 47.0 | 0.00 | 99.8 | 70-125 | | | |
| n-Butylbenzene | 48.0 | | | ug/L | 47.0 | 0.00 | 102 | 75-125 | | | |
| n-Propylbenzene | 42.3 | | | ug/L | 47.0 | 0.00 | 90.0 | 80-120 | | | |
| o-Xylene | 45.0 | | | ug/L | 47.0 | 0.00 | 95.7 | 80-120 | | | |
| p-Isopropyltoluene | 43.8 | | | ug/L | 47.0 | 0.00 | 93.2 | 75-125 | | | |
| sec-Butylbenzene | 42.1 | | | ug/L | 47.0 | 0.00 | 89.6 | 80-120 | | | |
| Styrene | 43.5 | | | ug/L | 47.0 | 0.00 | 92.6 | 80-120 | | | |
| tert-Butylbenzene | 43.7 | | | ug/L | 47.0 | 0.00 | 93.0 | 80-120 | | | |
| Tetrachloroethene | 43.9 | | | ug/L | 47.0 | 0.00 | 93.4 | 80-120 | | | |
| Tetrahydrofuran | 44.9 | | | ug/L | 47.0 | 0.00 | 95.6 | 75-122 | | | |
| Toluene | 46.0 | | | ug/L | 47.0 | 0.00 | 98.0 | 80-120 | | | |
| trans-1,2-Dichloroethene | 45.2 | | | ug/L | 47.0 | 0.00 | 96.1 | 77.3-120 | | | |
| trans-1,3-Dichloropropene | 43.2 | | | ug/L | 47.0 | 0.00 | 91.9 | 80-120 | | | |
| Trichloroethene | 44.8 | | | ug/L | 47.0 | 0.00 | 95.2 | 80-120 | | | |
| Trichlorofluoromethane | 47.4 | | | ug/L | 47.0 | 0.00 | 101 | 70-130 | | | |
| Vinyl chloride | 49.0 | | | ug/L | 47.0 | 0.00 | 104 | 70-130 | | | |
| *Surrogate: 4-Bromofluorobenzene* | *42.5* | | | *ug/L* | *50.8* | | *83.7* | *76.4-120* | | | |
| *Surrogate: Dibromofluoromethane* | *48.6* | | | *ug/L* | *50.8* | | *95.7* | *76.2-120* | | | |
| *Surrogate: Toluene-d8* | *46.0* | | | *ug/L* | *50.8* | | *90.6* | *77.2-120* | | | |
| **Matrix Spike Dup (B4K1847-MSD1)** | **Source: 2404561-08** | | | | Prepared & Analyzed: 11/18/24 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 50.7 | | | ug/L | 47.0 | 0.00 | 108 | 80-122 | 7.19 | 20 | |
| 1,1,1-Trichloroethane | 50.3 | | | ug/L | 47.0 | 0.00 | 107 | 75.9-125 | 3.62 | 20 | |



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LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1847 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **Matrix Spike Dup (B4K1847-MSD1)** | **Source: 2404561-08** | | | | Prepared & Analyzed: 11/18/24 | | | | | | |
| 1,1,2,2-Tetrachloroethane | 44.1 | | | ug/L | 47.0 | 0.00 | 93.9 | 79.4-120 | 8.18 | 20 | |
| 1,1,2-Trichloroethane | 44.5 | | | ug/L | 47.0 | 0.00 | 94.8 | 80-120 | 2.93 | 20 | |
| 1,1,2-Trichlorotrifluoroethane | 50.3 | | | ug/L | 47.0 | 0.00 | 107 | 77.3-125 | 4.50 | 20 | |
| 1,1-Dichloroethane | 47.3 | | | ug/L | 47.0 | 0.00 | 101 | 80-120 | 1.21 | 20 | |
| 1,1-Dichloroethene | 47.2 | | | ug/L | 47.0 | 0.00 | 101 | 75-125 | 3.52 | 20 | |
| 1,1-Dichloropropene | 47.0 | | | ug/L | 47.0 | 0.00 | 99.9 | 80-120 | 3.49 | 20 | |
| 1,2,3-Trichlorobenzene | 48.9 | | | ug/L | 47.0 | 0.00 | 104 | 70-125 | 7.05 | 21.1 | |
| 1,2,3-Trichloropropane | 42.6 | | | ug/L | 47.0 | 0.00 | 90.5 | 78.5-120 | 6.79 | 20 | |
| 1,2,4-Trichlorobenzene | 49.7 | | | ug/L | 47.0 | 0.00 | 106 | 70-125 | 7.07 | 20 | |
| 1,2,4-Trimethylbenzene | 46.3 | | | ug/L | 47.0 | 0.00 | 98.5 | 80-123 | 6.46 | 20 | |
| 1,2-Dibromo-3-chloropropane | 48.3 | | | ug/L | 47.0 | 0.00 | 103 | 75-125 | 3.10 | 20 | |
| 1,2-Dibromoethane (EDB) | 43.7 | | | ug/L | 47.0 | 0.00 | 92.9 | 78.9-120 | 3.38 | 20 | |
| 1,2-Dichlorobenzene | 51.2 | | | ug/L | 47.0 | 0.00 | 109 | 75-125 | 7.52 | 20 | |
| 1,2-Dichloroethane | 48.7 | | | ug/L | 47.0 | 0.00 | 104 | 75-125 | 1.44 | 20 | |
| 1,2-Dichloropropane | 46.6 | | | ug/L | 47.0 | 0.00 | 99.2 | 80-120 | 1.68 | 20 | |
| 1,3,5-Trimethylbenzene | 46.1 | | | ug/L | 47.0 | 0.00 | 98.0 | 80-121 | 6.18 | 20 | |
| 1,3-Dichlorobenzene | 46.2 | | | ug/L | 47.0 | 0.00 | 98.2 | 75-125 | 7.61 | 20 | |
| 1,3-Dichloropropane | 46.8 | | | ug/L | 47.0 | 0.00 | 99.7 | 80-120 | 5.96 | 20 | |
| 1,4-Dichlorobenzene | 45.3 | | | ug/L | 47.0 | 0.00 | 96.5 | 75-125 | 6.52 | 20 | |
| 2,2-Dichloropropane | 54.6 | | | ug/L | 47.0 | 0.00 | 116 | 69.4-140 | 0.250 | 20 | |
| 2-Butanone | 47.1 | | | ug/L | 47.0 | 0.00 | 100 | 75-125 | 1.23 | 20 | |
| 2-Chlorotoluene | 45.0 | | | ug/L | 47.0 | 0.00 | 95.8 | 80-120 | 7.13 | 20 | |
| 4-Chlorotoluene | 44.5 | | | ug/L | 47.0 | 0.00 | 94.7 | 79.5-120 | 7.13 | 20 | |
| Acetone | 47.1 | | | ug/L | 47.0 | 1.58 | 96.9 | 75-125 | 11.8 | 25 | |
| Allyl chloride | 47.5 | | | ug/L | 47.0 | 0.00 | 101 | 75-124 | 2.86 | 20 | |
| Benzene | 46.6 | | | ug/L | 47.0 | 0.00 | 99.2 | 80-120 | 0.983 | 20 | |
| Bromobenzene | 44.0 | | | ug/L | 47.0 | 0.00 | 93.7 | 79.2-120 | 8.14 | 20 | |
| Bromochloromethane | 48.2 | | | ug/L | 47.0 | 0.00 | 103 | 77.9-120 | 2.18 | 20 | |
| Bromodichloromethane | 47.9 | | | ug/L | 47.0 | 0.00 | 102 | 80-121 | 3.40 | 20 | |
| Bromoform | 45.5 | | | ug/L | 47.0 | 0.00 | 96.8 | 80-125 | 6.58 | 20 | |
| Bromomethane | 46.4 | | | ug/L | 47.0 | 0.00 | 98.7 | 70-129 | 3.19 | 20.3 | |
| Carbon tetrachloride | 51.2 | | | ug/L | 47.0 | 0.00 | 109 | 77.1-125 | 4.54 | 20 | |
| Chlorobenzene | 46.0 | | | ug/L | 47.0 | 0.00 | 97.8 | 78.5-120 | 3.50 | 20 | |
| Chloroethane | 45.9 | | | ug/L | 47.0 | 0.00 | 97.6 | 70-125 | 3.92 | 20 | |
| Chloroform | 48.3 | | | ug/L | 47.0 | 0.00 | 103 | 80-121 | 4.60 | 20 | |
| Chloromethane | 49.0 | | | ug/L | 47.0 | 0.00 | 104 | 70-128 | 6.77 | 20 | |
| cis-1,2-Dichloroethene | 47.5 | | | ug/L | 47.0 | 0.00 | 101 | 80-120 | 3.67 | 20 | |
| cis-1,3-Dichloropropene | 46.9 | | | ug/L | 47.0 | 0.00 | 99.8 | 80-120 | 1.13 | 20 | |
| Dibromochloromethane | 46.5 | | | ug/L | 47.0 | 0.00 | 98.9 | 80-124 | 5.94 | 20 | |



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LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## VOC 8260D - Quality Control
## Legend Technical Services, Inc.

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B4K1847 - EPA 5035A Soil (Purge and Trap)** | | | | | | | | | | | |
| **Matrix Spike Dup (B4K1847-MSD1)** | **Source: 2404561-08** | | | | Prepared & Analyzed: 11/18/24 | | | | | | |
| Dibromomethane | 48.0 | | | ug/L | 47.0 | 0.00 | 102 | 80-120 | 3.85 | 20 | |
| Dichlorodifluoromethane | 54.2 | | | ug/L | 47.0 | 0.00 | 115 | 70-130 | 2.72 | 20 | |
| Dichlorofluoromethane | 50.0 | | | ug/L | 47.0 | 0.00 | 106 | 71.1-130 | 2.14 | 20 | |
| Ethyl ether | 47.0 | | | ug/L | 47.0 | 0.00 | 100 | 76.5-125 | 2.13 | 20 | |
| Ethylbenzene | 47.3 | | | ug/L | 47.0 | 0.00 | 101 | 80-121 | 5.81 | 20 | |
| Hexachlorobutadiene | 44.3 | | | ug/L | 47.0 | 0.00 | 94.3 | 75-125 | 7.89 | 20 | |
| Isopropylbenzene | 46.7 | | | ug/L | 47.0 | 0.00 | 99.3 | 80-120 | 6.04 | 20 | |
| m,p-Xylene | 95.6 | | | ug/L | 94.1 | 0.00 | 102 | 80-120 | 5.74 | 20 | |
| Methyl isobutyl ketone | 51.9 | | | ug/L | 47.0 | 0.00 | 110 | 79.8-120 | 2.56 | 20 | |
| Methyl tert-butyl ether | 50.9 | | | ug/L | 47.0 | 0.00 | 108 | 80-121 | 2.91 | 20 | |
| Methylene chloride | 46.4 | | | ug/L | 47.0 | 0.602 | 97.5 | 76.1-120 | 3.47 | 20 | |
| Naphthalene | 50.6 | | | ug/L | 47.0 | 0.00 | 108 | 70-125 | 7.62 | 20.2 | |
| n-Butylbenzene | 51.2 | | | ug/L | 47.0 | 0.00 | 109 | 75-125 | 6.53 | 20 | |
| n-Propylbenzene | 45.0 | | | ug/L | 47.0 | 0.00 | 95.8 | 80-120 | 6.25 | 20 | |
| o-Xylene | 47.8 | | | ug/L | 47.0 | 0.00 | 102 | 80-120 | 6.04 | 20 | |
| p-Isopropyltoluene | 46.6 | | | ug/L | 47.0 | 0.00 | 99.1 | 75-125 | 6.12 | 20 | |
| sec-Butylbenzene | 45.1 | | | ug/L | 47.0 | 0.00 | 95.9 | 80-120 | 6.79 | 20 | |
| Styrene | 45.5 | | | ug/L | 47.0 | 0.00 | 96.9 | 80-120 | 4.53 | 20 | |
| tert-Butylbenzene | 46.3 | | | ug/L | 47.0 | 0.00 | 98.5 | 80-120 | 5.72 | 20 | |
| Tetrachloroethene | 45.4 | | | ug/L | 47.0 | 0.00 | 96.6 | 80-120 | 3.34 | 20 | |
| Tetrahydrofuran | 48.1 | | | ug/L | 47.0 | 0.00 | 102 | 75-122 | 6.85 | 20 | |
| Toluene | 47.3 | | | ug/L | 47.0 | 0.00 | 101 | 80-120 | 2.77 | 20 | |
| trans-1,2-Dichloroethene | 47.6 | | | ug/L | 47.0 | 0.00 | 101 | 77.3-120 | 5.25 | 20 | |
| trans-1,3-Dichloropropene | 45.7 | | | ug/L | 47.0 | 0.00 | 97.2 | 80-120 | 5.55 | 20 | |
| Trichloroethene | 46.2 | | | ug/L | 47.0 | 0.00 | 98.2 | 80-120 | 3.07 | 20 | |
| Trichlorofluoromethane | 49.9 | | | ug/L | 47.0 | 0.00 | 106 | 70-130 | 5.21 | 20 | |
| Vinyl chloride | 51.3 | | | ug/L | 47.0 | 0.00 | 109 | 70-130 | 4.57 | 20 | |
| *Surrogate: 4-Bromofluorobenzene* | *43.1* | | | *ug/L* | *50.8* | | *84.8* | *76.4-120* | | | |
| *Surrogate: Dibromofluoromethane* | *47.8* | | | *ug/L* | *50.8* | | *94.2* | *76.2-120* | | | |
| *Surrogate: Toluene-d8* | *45.7* | | | *ug/L* | *50.8* | | *90.0* | *77.2-120* | | | |



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LEGEND Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | |
|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: 11/26/24 |

## WI-GRO - Quality Control
## Eurofins Cedar Falls

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 440350 - 5035FM_Calc** | | | | | | | | | | | |
| **LCS (LCS 310-440350/2-A)** | | | | | Prepared: 11/20/24 Analyzed: 11/22/24 | | | | | | |
| Wisconsin GRO | 18.69 | 9.41 | 4.80 | mg/Kg | 18.8 | <9.41 | 99 | 80-120 | | | |
| *Surrogate: 4-Bromofluorobenzene (Surr)* | *1.008* | | | *mg/Kg* | *0.941* | | *107* | *80-120* | | | |
| **LCSD (LCSD 310-440350/23-A)** | | | | | Prepared: 11/20/24 Analyzed: 11/22/24 | | | | | | |
| Wisconsin GRO | 25.94 | 9.43 | 4.81 | mg/Kg | 18.9 | <9.43 | 138 | 80-120 | 32 | 20 | *+, *1 |
| *Surrogate: 4-Bromofluorobenzene (Surr)* | *1.015* | | | *mg/Kg* | *0.943* | | *108* | *80-120* | | | |
| **MB (MB 310-440350/1-A)** | | | | | Prepared: 11/20/24 Analyzed: 11/22/24 | | | | | | |
| Wisconsin GRO | <9.43 | 9.43 | 4.81 | mg/Kg | | <9.43 | | - | | | |
| *Surrogate: 4-Bromofluorobenzene (Surr)* | *1.077* | | | *mg/Kg* | *0.943* | | *114* | *80-120* | | | |



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88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150

| | | | | |
|---|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: | 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: | 11/26/24 |

## WI-DRO - Quality Control
## Eurofins Cedar Falls

| Analyte | Result | RL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | %RPD | %RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 439840 - WI_DRO_S_Prep** | | | | | | | | | | | |
| **LCS (LCS 310-439840/2-A)** | | | | | Prepared: 11/15/24 Analyzed: 11/18/24 | | | | | | |
| Diesel Range Organics (DRO) | 80.98 | 6.82 | 4.19 | mg/Kg | 97.4 | <6.82 | 83 | 70-120 | | | |
| **LCSD (LCSD 310-439840/3-A)** | | | | | Prepared: 11/15/24 Analyzed: 11/18/24 | | | | | | |
| Diesel Range Organics (DRO) | 98.07 | 6.79 | 4.17 | mg/Kg | 97.0 | <6.79 | 101 | 70-120 | 19 | 20 | |
| **MB (MB 310-439840/1-A)** | | | | | Prepared: 11/15/24 Analyzed: 11/18/24 | | | | | | |
| Diesel Range Organics (DRO) | <6.85 | 6.85 | 4.21 | mg/Kg | | <6.85 | | - | | | |



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| | | | | |
|---|---|---|---|---|
| Chosen Valley Testing | Project: | Analytical Services | | |
| 1410 7th Street NW | Project Number: | 6-24539.24ENV, Trane Building 7 | Work Order #: | 2404561 |
| Rochester, MN 55901 | Project Manager: | Mark Gretebeck | Date Reported: | 11/26/24 |

## Notes and Definitions

| | |
|---|---|
| *1 | LCS/LCSD RPD exceeds control limits. |
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| T5 | Laboratory not licensed for this parameter. |
| M1 | Matrix spike recovery was high, the associated blank spike recovery was acceptable. |
| N5 | The minimum reporting limit verification check did not meet the method acceptance limit. |
| < | Less than value listed |
| dry | Sample results reported on a dry weight basis |
| NA | Not applicable. The %RPD is not calculated from values less than the reporting limit. |
| MDL | Method Detection Limit; Equivalent to the method LOD (Limit of Detection) |
| RL | Reporting Limit |
| RPD | Relative Percent Difference |
| LCS | Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB) |
| MS | Matrix Spike = Laboratory Fortified Matrix (LFM) |



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**LEGEND TECHNICAL SERVICES, INC**
88 Empire Drive, St. Paul, MN 55103 - Telephone: 651-642-1150, Fax: 651-642-1239
**CHAIN-OF-CUSTODY RECORD**

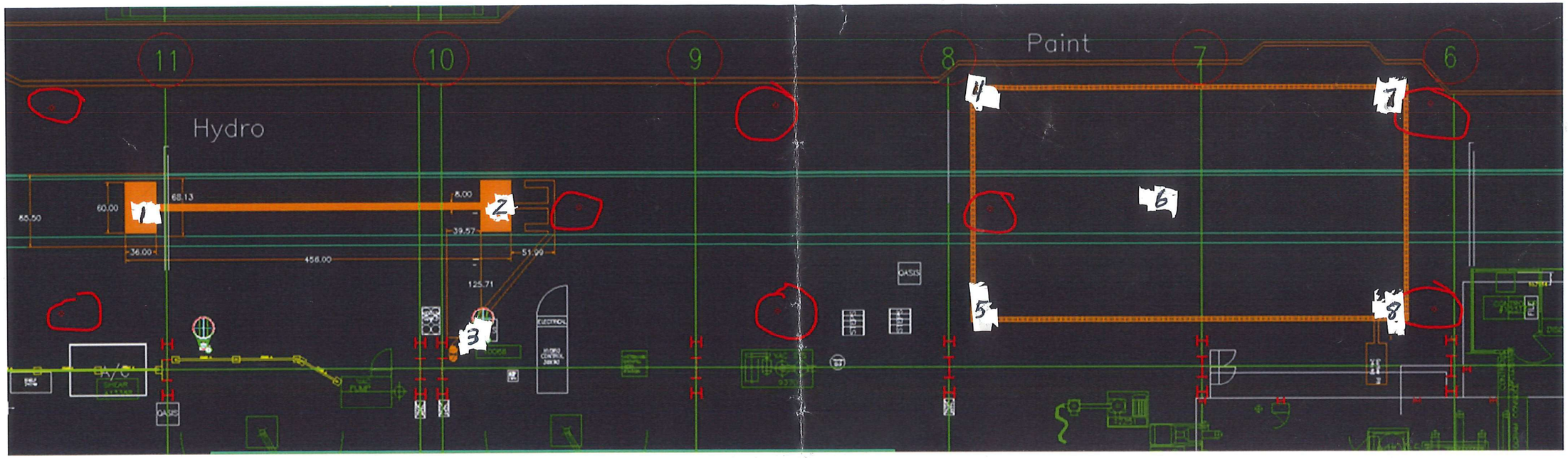
| | | |
|---|---|---|
| Client Name: Chosen Valley Testing | Bill To: Chosen Valley Testing | LEGEND Project#: 2424561 |
| Address: 1019 2nd Ave SW Onalaska, WI 54650 | Address: 1019 2nd Ave SW Onalaska, WI 54650 | Turn Around Time: ☒ Normal ☐ RUSH |
| Attn: | PO #: | Requested Due Date: |
| Phone: 608-782-5505 | E-mail: mgretebecu@chosenvalleytesting.com aericuson@ChosenValleyTesting.com | Condition Received: ☐ Received at 2.3 °C ☐ Temp. from unpreserved sample ☐ Received on ice ☐ No temp. blank ☐ Received on ice pack ☐ Received on melt water ☐ Received ambient ☐ Acceptable (IH/ISO only) ☐ Custody Seals |
| Project Name: Trane Building 7 | Project#: 6-24539.24 ENV | COC/Sample Comments: |

| Item No. | Sample Name | Grab | Comp. | Collection Date | Collection Time | Sample Matrix | Lab ID No. | Number of Containers | VOC | GRO | DRO | RCRA Metals | | | Major Sample Components (5 greatest, including hazardous) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ANALYSIS | | | | | | | |
| 1 | HA-1 | X | | 11/8/24 | | S | | | X | X | X | X | | | |
| 2 | HA-2 | X | | 11/8/24 | | S | | | X | X | X | X | | | |
| 3 | HA-3 | X | | 11/8/24 | | S | | | X | X | X | X | | | |
| 4 | HA-4 | X | | 11/8/24 | | S | | | X | X | X | X | | | |
| 5 | HA-5 | X | | 11/8/24 | | S | | | X | X | X | X | | | |
| 6 | HA-6 | X | | 11/8/24 | | S | | | X | X | X | X | | | |
| 7 | HA-7 | X | | 11/8/24 | | S | | | X | X | X | X | | | |
| 8 | HA-8 | X | | 11/8/24 | | S | | | X | X | X | X | | | |
| 9 | 2 Blanks SM 11/11/24 | | | | | | | | X | X | | | | | |
| 10 | | | | | | | | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Sample Collector (please print): Allison Ericuson | Relinquished By: | Date: | Time: | Accepted by: | Date: 11/11/24 Time: 4:23 |
| Comments: | Relinquished By: | Date: | Time: | Received by Lab: | Date: Time: |

**PLEASE REVIEW TERMS AND CONDITIONS ON BACK BEFORE SIGNING**

Form LAB-268.5 (12/14) White Copy – Original Accompanies Shipment to Lab Yellow Copy – Lab Pink Copy – Customer or Field Copy




1, 2 & 3 = 6'

4-8 = 4'

PID on all borings

VOC
GRO
DRO
RCRA Metals

~~HA-1~~ ⇒ ~~HA-8~~

Lab Sample @ Highest PID or @ ½' from Bottom of boring

[ Jim Fowler
Cell
608-792-6848 ]

[ DANE CONTACT
Craig Fredrick ]

C-24539.24 ENV

# Sieve Analysis of Fine & Coarse Aggregates

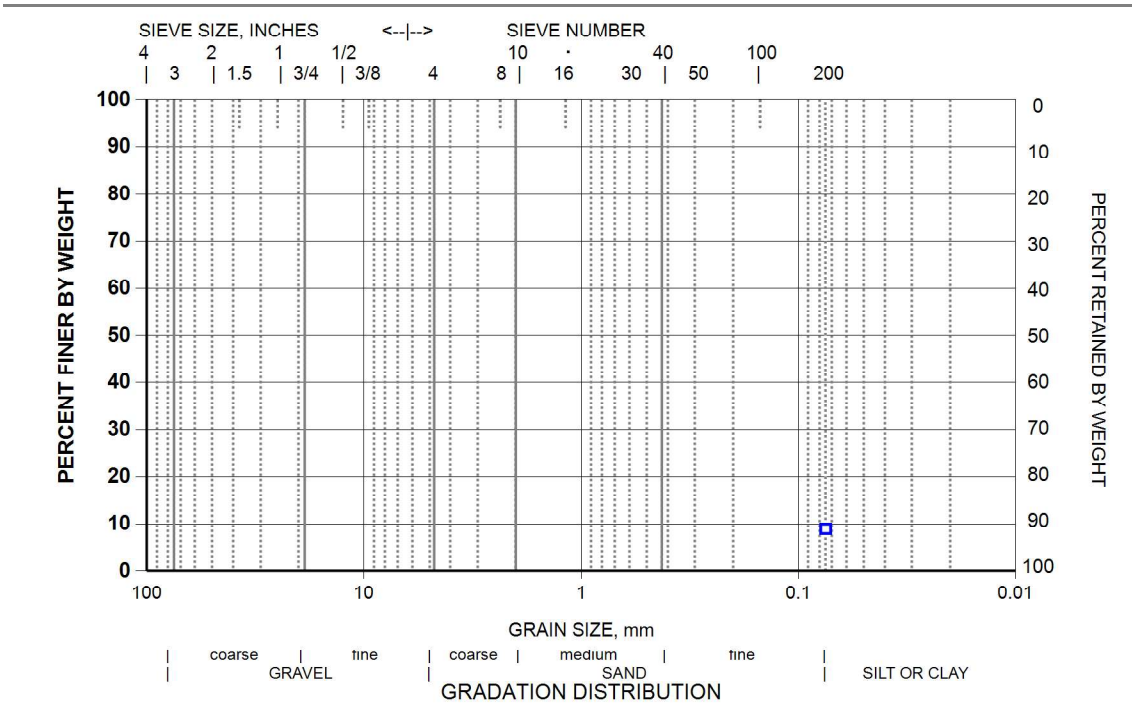
**Sieve Analysis & Material Finer than No. 200 Sieve by Washing**
**ASTM C136, C117**


1410 7th St. NW
Rochester, MN 55901
Phone: 507-281-0968
Fax: 507-289-2523
chosenvalleytesting.com
rochester@cvtesting.com


**PROJECT NO:** 6-24539
**PROJECT:** Paint Booth Addition - Trane Plant 7
La Crosse, WI
**REPORT NO:** 1-0

SAMPLE ID: 1
SAMPLE SOURCE: Hand Auger Boring Composite
SAMPLE DESCRIPTION: Silty Sand
NOTES:

DATE RECEIVED: 2024-11-08
DATE TESTED: 2025-01-13
TESTED BY: GG



GRADATION DISTRIBUTION

## TEST DATA

**Original Wt. (g):** 1039.6 **Wt. After 200 Wash (g):** 947.3 **Wt. Wash (g):** 92.3 **% Error:** 0.0

| SIZE | WT RETAINED, g | PERCENT RETAINED | FINENESS MODULUS | PERCENT PASSING | LIMITS |
|---|---|---|---|---|---|
| **No. 200** | 947.3 | 91.1 | | **8.9** | |

Approved: *Kraig McCoy*
TOTAL FM: N/A

# La Crosse County Landfill
# Application for Special Waste Disposal

## PART A: WASTE GENERATOR INFORMATION

1. Generator Name Katobeno LLC
2. Generator Mailing Address 220 Wickfield Dr, Mankato, MN 56001
3. Facility Address (site of waste generation) I-90 WB, MP264 - 265
4. Generator City New Hartford Township
5. Generator State/Zip MN / 55925
6. General Contact Person Jeremy Caulfield
   Phone # and email 612-619-1385 / jcaulfield@wcec.com
7. Technical Contact Person Jeremy Caulfield
   Phone # and email 612-619-1385 / jcaulfield@wcec.com

---

1. Name of Waste Petroleum Contaminated Soil
2. Process Generating Waste Roadside crash
3. Waste Color Brown/ Black
4. Waste Odor _____None Petroleum 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) _____ None _____<140F _____140-199F X____>200
9. a. Waste Composition:

| | Range |
|---|---|
| Petroleum Contaminated Soils | 97 to 99 % |
| Petroleum- Impacted Absorbents | 1 to 3 % |
| | _____ 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
11. Date of Analysis 3/7/25

## 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 100 yards

   ☑ One-time Disposal
   ☐ On-going Disposal

   Frequency One week

3. Hauler Name and Address WCEC
   5005 Boone Ave N
   New Hope, MN 55428

4. Bill to Name and Address WCEC
   5005 Boone Ave N
   New Hope, MN 55428

**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 / | | |

## 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 Jeremy Caulfield

10. Title Response Manager

11. Name (Type or print) Jeremy Caulfield

12. Date 03/20/2025

eurofins | Environment Testing



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Jaret Johnson
West Central Environmental Consultants
14 Green River Road
PO BOX 594
Morris, Minnesota 56267-0594

Generated 3/19/2025 3:14:35 PM

## JOB DESCRIPTION

I-90 W La Crescent Diesel Relese

## JOB NUMBER

310-301637-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.



myEOL

## Job Notes

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

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

## Authorization



Generated
3/19/2025 3:14:35 PM

Authorized for release by
Zach Bindert, Senior Project Manager
Zach.Bindert@et.eurofinsus.com
(319)595-2016

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**Job Narrative**
**310-301637-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

**Receipt**
The sample was received on 3/7/2025 1:20 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C.

**GC/MS VOA**
Method 8260D: The following sample was provided to the laboratory with a significantly lower initial weight than that required by the reference method: 03052025 Disposal (310-301637-1).

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-448664 recovered above the upper control limit for Tetrahydrofuran (22.8%D). The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated sample is impacted: (CCV 310-448664/3).

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

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

**Metals**
Method 6010D - TCLP: The continuing calibration verification (CCV) associated with batch 310-448936 recovered above the upper control limit for Arsenic, Selenium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

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

# Sample Summary

Client: West Central Environmental Consultants
Project/Site: I-90 W La Crescent Diesel Relese

Job ID: 310-301637-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 310-301637-1 | 03052025 Disposal | Solid | 03/05/25 21:30 | 03/07/25 13:20 |

# Detection Summary

Client: West Central Environmental Consultants
Project/Site: I-90 W La Crescent Diesel Relese

Job ID: 310-301637-1

## Client Sample ID: 03052025 Disposal

## Lab Sample ID: 310-301637-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.834 | | 0.286 | | mg/Kg | 1 | ☼ | 8260D | Total/NA |
| Xylenes, Total | 0.437 | | 0.430 | | mg/Kg | 1 | ☼ | 8260D | Total/NA |
| Diesel Range Organics [C10-C28] | 288 | | 20.9 | | mg/Kg | 2 | ☼ | WI-DRO | Total/NA |
| Barium | 0.904 | | 0.200 | | mg/L | 1 | | 6010D | TCLP |

This Detection Summary does not include radiochemical test results.

Client: West Central Environmental Consultants
Project/Site: I-90 W La Crescent Diesel Relese

Job ID: 310-301637-1

**Client Sample ID: 03052025 Disposal**
**Date Collected: 03/05/25 21:30**
**Date Received: 03/07/25 13:20**

**Lab Sample ID: 310-301637-1**
**Matrix: Solid**
**Percent Solids: 63.7**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | <1.43 | | 1.43 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Allyl chloride | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Benzene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Bromobenzene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Bromochloromethane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Bromodichloromethane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Bromoform | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Bromomethane | <1.43 | | 1.43 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 2-Butanone (MEK) | <2.15 | | 2.15 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Carbon tetrachloride | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Chlorobenzene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Chlorodibromomethane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Chloroethane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Chloroform | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Chloromethane | <0.716 | | 0.716 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 2-Chlorotoluene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 4-Chlorotoluene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| cis-1,2-Dichloroethene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| cis-1,3-Dichloropropene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,2-Dibromoethane (EDB) | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Dibromomethane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,2-Dichlorobenzene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,3-Dichlorobenzene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,4-Dichlorobenzene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Dichlorodifluoromethane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,1-Dichloroethane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,2-Dichloroethane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,1-Dichloroethene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Dichlorofluoromethane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,2-Dichloropropane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,3-Dichloropropane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 2,2-Dichloropropane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,1-Dichloropropene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Diethyl ether | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Ethylbenzene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Hexachlorobutadiene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Isopropylbenzene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Methylene Chloride | <0.716 | | 0.716 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Methyl tert-butyl ether | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Naphthalene | <0.716 | | 0.716 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| n-Butylbenzene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| N-Propylbenzene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 4-Isopropyltoluene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| sec-Butylbenzene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Styrene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| tert-Butylbenzene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |

**Client Sample ID: 03052025 Disposal**
**Lab Sample ID: 310-301637-1**
**Date Collected: 03/05/25 21:30**
**Matrix: Solid**
**Date Received: 03/07/25 13:20**
**Percent Solids: 63.7**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Tetrachloroethene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Tetrahydrofuran | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Toluene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| trans-1,2-Dichloroethene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| trans-1,3-Dichloropropene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,2,3-Trichlorobenzene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,2,4-Trichlorobenzene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,1,1-Trichloroethane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,1,2-Trichloroethane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Trichloroethene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Trichlorofluoromethane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,2,3-Trichloropropane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,1,2-Trichlorotrifluoroethane | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| **1,2,4-Trimethylbenzene** | **0.834** | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| 1,3,5-Trimethylbenzene | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| Vinyl chloride | <0.286 | | 0.286 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |
| **Xylenes, Total** | **0.437** | | 0.430 | | mg/Kg | ☼ | 03/12/25 08:00 | 03/12/25 23:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | *03/12/25 08:00* | *03/12/25 23:59* | *1* |
| *Dibromofluoromethane (Surr)* | *102* | | *80 - 120* | *03/12/25 08:00* | *03/12/25 23:59* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* | *03/12/25 08:00* | *03/12/25 23:59* | *1* |

### Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **288** | | 20.9 | | mg/Kg | ☼ | 03/11/25 12:47 | 03/18/25 10:54 | 2 |

### Method: SW846 6010D - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.100 | ^+ | 0.100 | | mg/L | | 03/13/25 09:15 | 03/13/25 17:18 | 1 |
| **Barium** | **0.904** | | 0.200 | | mg/L | | 03/13/25 09:15 | 03/13/25 17:18 | 1 |
| Cadmium | <0.0200 | | 0.0200 | | mg/L | | 03/13/25 09:15 | 03/13/25 17:18 | 1 |
| Chromium | <0.0200 | | 0.0200 | | mg/L | | 03/13/25 09:15 | 03/13/25 17:18 | 1 |
| Lead | <0.100 | | 0.100 | | mg/L | | 03/13/25 09:15 | 03/13/25 17:18 | 1 |
| Selenium | <0.100 | ^+ | 0.100 | | mg/L | | 03/13/25 09:15 | 03/13/25 17:18 | 1 |
| Silver | <0.0500 | | 0.0500 | | mg/L | | 03/13/25 09:15 | 03/13/25 17:18 | 1 |

### Method: SW846 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00200 | | 0.00200 | | mg/L | | 03/13/25 09:53 | 03/14/25 11:31 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture (EPA Moisture)** | **36.3** | | 0.1 | | % | | | 03/10/25 10:55 | 1 |
| **Percent Solids (EPA Moisture)** | **63.7** | | 0.1 | | % | | | 03/10/25 10:55 | 1 |

# Definitions/Glossary

Client: West Central Environmental Consultants
Job ID: 310-301637-1
Project/Site: I-90 W La Crescent Diesel Relese

## Qualifiers

### Metals

| Qualifier | Qualifier Description |
|---|---|
| ^+ | Continuing Calibration Verification (CCV) is outside acceptance limits, high biased. |
| F1 | MS and/or MSD recovery exceeds control limits. |

## 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 |

# Surrogate Summary

Client: West Central Environmental Consultants
Project/Site: I-90 W La Crescent Diesel Relese

Job ID: 310-301637-1

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

**Matrix: Solid**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | BFB | DBFM | TOL | | | | | |
| Lab Sample ID | Client Sample ID | (80-120) | (80-120) | (80-120) | | | | | |
| 310-301631-E-1-C MS | Matrix Spike | 99 | 111 | 97 | | | | | |
| 310-301631-E-1-D MSD | Matrix Spike Duplicate | 97 | 113 | 99 | | | | | |
| 310-301637-1 | 03052025 Disposal | 94 | 102 | 97 | | | | | |
| LCS 310-448661/2-A | Lab Control Sample | 95 | 111 | 97 | | | | | |
| MB 310-448661/1-A | Method Blank | 98 | 110 | 100 | | | | | |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

**Lab Sample ID: MB 310-448661/1-A**
**Matrix: Solid**
**Analysis Batch: 448664**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 448661**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | <0.490 | | 0.490 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Allyl chloride | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Benzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Bromobenzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Bromochloromethane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Bromodichloromethane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Bromoform | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Bromomethane | <0.490 | | 0.490 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 2-Butanone (MEK) | <0.736 | | 0.736 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Carbon tetrachloride | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Chlorobenzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Chlorodibromomethane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Chloroethane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Chloroform | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Chloromethane | <0.245 | | 0.245 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 2-Chlorotoluene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 4-Chlorotoluene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| cis-1,2-Dichloroethene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| cis-1,3-Dichloropropene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,2-Dibromoethane (EDB) | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Dibromomethane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,2-Dichlorobenzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,3-Dichlorobenzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,4-Dichlorobenzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Dichlorodifluoromethane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,1-Dichloroethane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,2-Dichloroethane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,1-Dichloroethene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Dichlorofluoromethane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,2-Dichloropropane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,3-Dichloropropane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 2,2-Dichloropropane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,1-Dichloropropene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Diethyl ether | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Ethylbenzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Hexachlorobutadiene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Isopropylbenzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Methylene Chloride | <0.245 | | 0.245 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Methyl tert-butyl ether | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Naphthalene | <0.245 | | 0.245 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| n-Butylbenzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| N-Propylbenzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 4-Isopropyltoluene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| sec-Butylbenzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Styrene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| tert-Butylbenzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |

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

**Lab Sample ID: MB 310-448661/1-A**
**Matrix: Solid**
**Analysis Batch: 448664**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 448661**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Tetrachloroethene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Tetrahydrofuran | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Toluene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| trans-1,2-Dichloroethene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| trans-1,3-Dichloropropene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,2,3-Trichlorobenzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,2,4-Trichlorobenzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,1,1-Trichloroethane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,1,2-Trichloroethane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Trichloroethene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Trichlorofluoromethane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,2,3-Trichloropropane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,1,2-Trichlorotrifluoroethane | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,2,4-Trimethylbenzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| 1,3,5-Trimethylbenzene | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Vinyl chloride | <0.0981 | | 0.0981 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |
| Xylenes, Total | <0.147 | | 0.147 | | mg/Kg | | 03/12/25 08:00 | 03/12/25 19:46 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | *03/12/25 08:00* | *03/12/25 19:46* | *1* |
| *Dibromofluoromethane (Surr)* | *110* | | *80 - 120* | *03/12/25 08:00* | *03/12/25 19:46* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | *03/12/25 08:00* | *03/12/25 19:46* | *1* |

**Lab Sample ID: LCS 310-448661/2-A**
**Matrix: Solid**
**Analysis Batch: 448664**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 448661**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Acetone | 1.91 | 2.371 | | mg/Kg | | 124 | 50 - 150 |
| Allyl chloride | 0.953 | 1.047 | | mg/Kg | | 110 | 50 - 150 |
| Benzene | 0.953 | 0.9901 | | mg/Kg | | 104 | 80 - 127 |
| Bromobenzene | 0.953 | 1.023 | | mg/Kg | | 107 | 80 - 129 |
| Bromochloromethane | 0.953 | 1.036 | | mg/Kg | | 109 | 79 - 141 |
| Bromodichloromethane | 0.953 | 1.026 | | mg/Kg | | 108 | 72 - 126 |
| Bromoform | 0.953 | 1.010 | | mg/Kg | | 106 | 56 - 140 |
| 2-Butanone (MEK) | 1.91 | 2.264 | | mg/Kg | | 119 | 50 - 150 |
| Carbon tetrachloride | 0.953 | 1.079 | | mg/Kg | | 113 | 74 - 134 |
| Chlorobenzene | 0.953 | 1.017 | | mg/Kg | | 107 | 80 - 123 |
| Chlorodibromomethane | 0.953 | 1.005 | | mg/Kg | | 105 | 70 - 127 |
| Chloroform | 0.953 | 1.075 | | mg/Kg | | 113 | 78 - 128 |
| 2-Chlorotoluene | 0.953 | 1.047 | | mg/Kg | | 110 | 80 - 123 |
| 4-Chlorotoluene | 0.953 | 1.027 | | mg/Kg | | 108 | 79 - 122 |
| cis-1,2-Dichloroethene | 0.953 | 1.053 | | mg/Kg | | 110 | 80 - 131 |
| cis-1,3-Dichloropropene | 0.953 | 1.033 | | mg/Kg | | 108 | 77 - 127 |
| 1,2-Dibromo-3-Chloropropane | 0.953 | 1.087 | | mg/Kg | | 114 | 50 - 150 |
| 1,2-Dibromoethane (EDB) | 0.953 | 1.003 | | mg/Kg | | 105 | 80 - 126 |

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

**Lab Sample ID: LCS 310-448661/2-A**
**Matrix: Solid**
**Analysis Batch: 448664**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 448661**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Dibromomethane | 0.953 | 1.008 | | mg/Kg | | 106 | 78 - 133 |
| 1,2-Dichlorobenzene | 0.953 | 1.045 | | mg/Kg | | 110 | 80 - 123 |
| 1,3-Dichlorobenzene | 0.953 | 1.032 | | mg/Kg | | 108 | 80 - 124 |
| 1,4-Dichlorobenzene | 0.953 | 1.045 | | mg/Kg | | 110 | 79 - 122 |
| 1,1-Dichloroethane | 0.953 | 1.088 | | mg/Kg | | 114 | 75 - 133 |
| 1,2-Dichloroethane | 0.953 | 1.073 | | mg/Kg | | 113 | 74 - 135 |
| 1,1-Dichloroethene | 0.953 | 1.068 | | mg/Kg | | 112 | 72 - 136 |
| 1,2-Dichloropropane | 0.953 | 1.068 | | mg/Kg | | 112 | 80 - 130 |
| 1,3-Dichloropropane | 0.953 | 1.057 | | mg/Kg | | 111 | 79 - 130 |
| 2,2-Dichloropropane | 0.953 | 0.9700 | | mg/Kg | | 102 | 50 - 150 |
| 1,1-Dichloropropene | 0.953 | 1.080 | | mg/Kg | | 113 | 80 - 131 |
| Diethyl ether | 0.953 | 1.106 | | mg/Kg | | 116 | 71 - 139 |
| Ethylbenzene | 0.953 | 1.028 | | mg/Kg | | 108 | 80 - 123 |
| Hexachlorobutadiene | 0.953 | 1.092 | | mg/Kg | | 115 | 50 - 150 |
| Isopropylbenzene | 0.953 | 1.026 | | mg/Kg | | 108 | 80 - 125 |
| Methylene Chloride | 0.953 | 1.034 | | mg/Kg | | 109 | 50 - 150 |
| 4-Methyl-2-pentanone (MIBK) | 1.91 | 2.097 | | mg/Kg | | 110 | 67 - 136 |
| Methyl tert-butyl ether | 0.953 | 1.045 | | mg/Kg | | 110 | 72 - 136 |
| Naphthalene | 0.953 | 1.026 | | mg/Kg | | 108 | 50 - 150 |
| n-Butylbenzene | 0.953 | 1.096 | | mg/Kg | | 115 | 71 - 127 |
| N-Propylbenzene | 0.953 | 1.035 | | mg/Kg | | 109 | 79 - 125 |
| 4-Isopropyltoluene | 0.953 | 1.041 | | mg/Kg | | 109 | 76 - 125 |
| sec-Butylbenzene | 0.953 | 1.070 | | mg/Kg | | 112 | 76 - 125 |
| Styrene | 0.953 | 1.003 | | mg/Kg | | 105 | 79 - 124 |
| tert-Butylbenzene | 0.953 | 1.051 | | mg/Kg | | 110 | 78 - 124 |
| 1,1,1,2-Tetrachloroethane | 0.953 | 1.019 | | mg/Kg | | 107 | 78 - 127 |
| 1,1,2,2-Tetrachloroethane | 0.953 | 1.094 | | mg/Kg | | 115 | 74 - 131 |
| Tetrachloroethene | 0.953 | 1.039 | | mg/Kg | | 109 | 80 - 134 |
| Tetrahydrofuran | 1.91 | 2.296 | | mg/Kg | | 120 | 65 - 141 |
| Toluene | 0.953 | 1.016 | | mg/Kg | | 107 | 78 - 126 |
| trans-1,2-Dichloroethene | 0.953 | 1.026 | | mg/Kg | | 108 | 75 - 134 |
| trans-1,3-Dichloropropene | 0.953 | 1.052 | | mg/Kg | | 110 | 74 - 125 |
| 1,2,3-Trichlorobenzene | 0.953 | 1.044 | | mg/Kg | | 109 | 50 - 150 |
| 1,2,4-Trichlorobenzene | 0.953 | 0.9760 | | mg/Kg | | 102 | 74 - 130 |
| 1,1,1-Trichloroethane | 0.953 | 1.079 | | mg/Kg | | 113 | 77 - 134 |
| 1,1,2-Trichloroethane | 0.953 | 1.031 | | mg/Kg | | 108 | 80 - 127 |
| Trichloroethene | 0.953 | 1.060 | | mg/Kg | | 111 | 80 - 130 |
| 1,2,3-Trichloropropane | 0.953 | 1.032 | | mg/Kg | | 108 | 75 - 134 |
| 1,1,2-Trichlorotrifluoroethane | 0.953 | 1.248 | | mg/Kg | | 131 | 66 - 150 |
| 1,2,4-Trimethylbenzene | 0.953 | 1.058 | | mg/Kg | | 111 | 73 - 130 |
| 1,3,5-Trimethylbenzene | 0.953 | 1.049 | | mg/Kg | | 110 | 76 - 124 |
| Xylenes, Total | 1.91 | 2.078 | | mg/Kg | | 109 | 80 - 125 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *95* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *111* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* |

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

**Lab Sample ID: 310-301631-E-1-C MS**
**Matrix: Solid**
**Analysis Batch: 448664**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 448661**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | <1.19 | | 2.04 | 1.858 | | mg/Kg | ☼ | 91 | 13 - 150 |
| Allyl chloride | <0.237 | | 1.02 | 0.8407 | | mg/Kg | ☼ | 82 | 19 - 150 |
| Benzene | <0.237 | | 1.02 | 0.7846 | | mg/Kg | ☼ | 77 | 27 - 150 |
| Bromobenzene | <0.237 | | 1.02 | 0.8316 | | mg/Kg | ☼ | 82 | 30 - 150 |
| Bromochloromethane | <0.237 | | 1.02 | 0.8090 | | mg/Kg | ☼ | 79 | 31 - 150 |
| Bromodichloromethane | <0.237 | | 1.02 | 0.8003 | | mg/Kg | ☼ | 79 | 20 - 150 |
| Bromoform | <0.237 | | 1.02 | 0.7726 | | mg/Kg | ☼ | 76 | 18 - 150 |
| 2-Butanone (MEK) | <1.78 | | 2.04 | 1.753 | | mg/Kg | ☼ | 86 | 23 - 150 |
| Carbon tetrachloride | <0.237 | | 1.02 | 0.8869 | | mg/Kg | ☼ | 87 | 23 - 150 |
| Chlorobenzene | <0.237 | | 1.02 | 0.7928 | | mg/Kg | ☼ | 78 | 32 - 150 |
| Chlorodibromomethane | <0.237 | | 1.02 | 0.7904 | | mg/Kg | ☼ | 78 | 24 - 145 |
| Chloroform | <0.237 | | 1.02 | 0.8800 | | mg/Kg | ☼ | 78 | 28 - 150 |
| 2-Chlorotoluene | <0.237 | | 1.02 | 0.7992 | | mg/Kg | ☼ | 78 | 22 - 150 |
| 4-Chlorotoluene | <0.237 | | 1.02 | 0.7975 | | mg/Kg | ☼ | 78 | 19 - 150 |
| cis-1,2-Dichloroethene | <0.237 | | 1.02 | 0.8344 | | mg/Kg | ☼ | 82 | 31 - 150 |
| cis-1,3-Dichloropropene | <0.237 | | 1.02 | 0.7797 | | mg/Kg | ☼ | 76 | 27 - 146 |
| 1,2-Dibromo-3-Chloropropane | <0.237 | | 1.02 | 0.7943 | | mg/Kg | ☼ | 78 | 16 - 150 |
| 1,2-Dibromoethane (EDB) | <0.237 | | 1.02 | 0.8145 | | mg/Kg | ☼ | 80 | 31 - 150 |
| Dibromomethane | <0.237 | | 1.02 | 0.8648 | | mg/Kg | ☼ | 85 | 30 - 150 |
| 1,2-Dichlorobenzene | <0.237 | | 1.02 | 0.8208 | | mg/Kg | ☼ | 81 | 28 - 150 |
| 1,3-Dichlorobenzene | <0.237 | | 1.02 | 0.7852 | | mg/Kg | ☼ | 77 | 29 - 150 |
| 1,4-Dichlorobenzene | <0.237 | | 1.02 | 0.8257 | | mg/Kg | ☼ | 81 | 29 - 150 |
| 1,1-Dichloroethane | <0.237 | | 1.02 | 0.8458 | | mg/Kg | ☼ | 83 | 27 - 150 |
| 1,2-Dichloroethane | <0.237 | | 1.02 | 0.8685 | | mg/Kg | ☼ | 85 | 27 - 150 |
| 1,1-Dichloroethene | <0.237 | | 1.02 | 0.8911 | | mg/Kg | ☼ | 87 | 20 - 150 |
| 1,2-Dichloropropane | <0.237 | | 1.02 | 0.8399 | | mg/Kg | ☼ | 82 | 32 - 150 |
| 1,3-Dichloropropane | <0.237 | | 1.02 | 0.8564 | | mg/Kg | ☼ | 84 | 31 - 150 |
| 2,2-Dichloropropane | <0.237 | | 1.02 | 0.7083 | | mg/Kg | ☼ | 69 | 10 - 150 |
| 1,1-Dichloropropene | <0.237 | | 1.02 | 0.8767 | | mg/Kg | ☼ | 86 | 31 - 150 |
| Diethyl ether | <0.237 | | 1.02 | 0.8379 | | mg/Kg | ☼ | 82 | 21 - 150 |
| Ethylbenzene | <0.237 | | 1.02 | 0.8189 | | mg/Kg | ☼ | 80 | 20 - 150 |
| Hexachlorobutadiene | <0.237 | | 1.02 | 0.8385 | | mg/Kg | ☼ | 72 | 11 - 150 |
| Isopropylbenzene | <0.237 | | 1.02 | 0.8143 | | mg/Kg | ☼ | 80 | 25 - 150 |
| Methylene Chloride | <0.593 | | 1.02 | 0.8433 | | mg/Kg | ☼ | 83 | 17 - 150 |
| 4-Methyl-2-pentanone (MIBK) | <0.237 | | 2.04 | 1.659 | | mg/Kg | ☼ | 81 | 21 - 150 |
| Methyl tert-butyl ether | <0.237 | | 1.02 | 0.8174 | | mg/Kg | ☼ | 80 | 22 - 150 |
| Naphthalene | <0.593 | | 1.02 | 0.8223 | | mg/Kg | ☼ | 81 | 10 - 150 |
| n-Butylbenzene | <0.237 | | 1.02 | 0.8313 | | mg/Kg | ☼ | 75 | 10 - 150 |
| N-Propylbenzene | <0.237 | | 1.02 | 0.8268 | | mg/Kg | ☼ | 81 | 16 - 150 |
| 4-Isopropyltoluene | <0.237 | | 1.02 | 0.8241 | | mg/Kg | ☼ | 81 | 19 - 150 |
| sec-Butylbenzene | <0.237 | | 1.02 | 0.8213 | | mg/Kg | ☼ | 81 | 21 - 150 |
| Styrene | <0.237 | | 1.02 | 0.8008 | | mg/Kg | ☼ | 79 | 27 - 150 |
| tert-Butylbenzene | <0.237 | | 1.02 | 0.8372 | | mg/Kg | ☼ | 82 | 28 - 150 |
| 1,1,1,2-Tetrachloroethane | <0.237 | | 1.02 | 0.7938 | | mg/Kg | ☼ | 78 | 28 - 150 |
| 1,1,2,2-Tetrachloroethane | <0.237 | | 1.02 | 0.8091 | | mg/Kg | ☼ | 79 | 19 - 150 |
| Tetrachloroethene | <0.237 | | 1.02 | 0.8253 | | mg/Kg | ☼ | 81 | 31 - 150 |
| Tetrahydrofuran | <0.237 | | 2.04 | 1.947 | | mg/Kg | ☼ | 95 | 22 - 150 |
| Toluene | <0.237 | | 1.02 | 0.7944 | | mg/Kg | ☼ | 78 | 24 - 150 |

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

**Lab Sample ID: 310-301631-E-1-C MS**
**Matrix: Solid**
**Analysis Batch: 448664**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 448661**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | <0.237 | | 1.02 | 0.8754 | | mg/Kg | ☼ | 86 | 25 - 150 |
| trans-1,3-Dichloropropene | <0.237 | | 1.02 | 0.7950 | | mg/Kg | ☼ | 78 | 25 - 145 |
| 1,2,3-Trichlorobenzene | <0.237 | | 1.02 | 0.7962 | | mg/Kg | ☼ | 69 | 19 - 150 |
| 1,2,4-Trichlorobenzene | <0.237 | | 1.02 | 0.7759 | | mg/Kg | ☼ | 68 | 21 - 150 |
| 1,1,1-Trichloroethane | <0.237 | | 1.02 | 0.8586 | | mg/Kg | ☼ | 84 | 29 - 150 |
| 1,1,2-Trichloroethane | <0.237 | | 1.02 | 0.8343 | | mg/Kg | ☼ | 82 | 25 - 150 |
| Trichloroethene | <0.237 | | 1.02 | 0.8773 | | mg/Kg | ☼ | 86 | 33 - 150 |
| 1,2,3-Trichloropropane | <0.237 | | 1.02 | 0.8999 | | mg/Kg | ☼ | 88 | 24 - 150 |
| 1,1,2-Trichlorotrifluoroethane | <0.237 | | 1.02 | 1.031 | | mg/Kg | ☼ | 101 | 19 - 150 |
| 1,2,4-Trimethylbenzene | <0.237 | | 1.02 | 0.8084 | | mg/Kg | ☼ | 79 | 10 - 150 |
| 1,3,5-Trimethylbenzene | <0.237 | | 1.02 | 0.8168 | | mg/Kg | ☼ | 80 | 17 - 150 |
| Xylenes, Total | <0.356 | | 2.04 | 1.584 | | mg/Kg | ☼ | 78 | 18 - 150 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *111* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* |

**Lab Sample ID: 310-301631-E-1-D MSD**
**Matrix: Solid**
**Analysis Batch: 448664**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 448661**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | <1.19 | | 2.10 | 2.197 | | mg/Kg | ☼ | 104 | 13 - 150 | 17 | 40 |
| Allyl chloride | <0.237 | | 1.05 | 0.8756 | | mg/Kg | ☼ | 83 | 19 - 150 | 4 | 40 |
| Benzene | <0.237 | | 1.05 | 0.9382 | | mg/Kg | ☼ | 89 | 27 - 150 | 18 | 40 |
| Bromobenzene | <0.237 | | 1.05 | 0.9982 | | mg/Kg | ☼ | 95 | 30 - 150 | 18 | 40 |
| Bromochloromethane | <0.237 | | 1.05 | 0.9528 | | mg/Kg | ☼ | 91 | 31 - 150 | 16 | 40 |
| Bromodichloromethane | <0.237 | | 1.05 | 0.9503 | | mg/Kg | ☼ | 90 | 20 - 150 | 17 | 40 |
| Bromoform | <0.237 | | 1.05 | 0.9056 | | mg/Kg | ☼ | 86 | 18 - 150 | 16 | 40 |
| 2-Butanone (MEK) | <1.78 | | 2.10 | 2.122 | | mg/Kg | ☼ | 101 | 23 - 150 | 19 | 40 |
| Carbon tetrachloride | <0.237 | | 1.05 | 1.066 | | mg/Kg | ☼ | 101 | 23 - 150 | 18 | 40 |
| Chlorobenzene | <0.237 | | 1.05 | 0.9603 | | mg/Kg | ☼ | 91 | 32 - 150 | 19 | 40 |
| Chlorodibromomethane | <0.237 | | 1.05 | 0.9781 | | mg/Kg | ☼ | 93 | 24 - 145 | 21 | 40 |
| Chloroform | <0.237 | | 1.05 | 1.043 | | mg/Kg | ☼ | 91 | 28 - 150 | 17 | 40 |
| 2-Chlorotoluene | <0.237 | | 1.05 | 0.9854 | | mg/Kg | ☼ | 94 | 22 - 150 | 21 | 40 |
| 4-Chlorotoluene | <0.237 | | 1.05 | 0.9335 | | mg/Kg | ☼ | 89 | 19 - 150 | 16 | 40 |
| cis-1,2-Dichloroethene | <0.237 | | 1.05 | 1.023 | | mg/Kg | ☼ | 97 | 31 - 150 | 20 | 40 |
| cis-1,3-Dichloropropene | <0.237 | | 1.05 | 0.9657 | | mg/Kg | ☼ | 92 | 27 - 146 | 21 | 40 |
| 1,2-Dibromo-3-Chloropropane | <0.237 | | 1.05 | 0.9393 | | mg/Kg | ☼ | 89 | 16 - 150 | 17 | 40 |
| 1,2-Dibromoethane (EDB) | <0.237 | | 1.05 | 0.9769 | | mg/Kg | ☼ | 93 | 31 - 150 | 18 | 40 |
| Dibromomethane | <0.237 | | 1.05 | 0.9959 | | mg/Kg | ☼ | 95 | 30 - 150 | 14 | 40 |
| 1,2-Dichlorobenzene | <0.237 | | 1.05 | 1.009 | | mg/Kg | ☼ | 96 | 28 - 150 | 21 | 40 |
| 1,3-Dichlorobenzene | <0.237 | | 1.05 | 1.031 | | mg/Kg | ☼ | 98 | 29 - 150 | 27 | 40 |
| 1,4-Dichlorobenzene | <0.237 | | 1.05 | 1.037 | | mg/Kg | ☼ | 99 | 29 - 150 | 23 | 40 |
| 1,1-Dichloroethane | <0.237 | | 1.05 | 1.022 | | mg/Kg | ☼ | 97 | 27 - 150 | 19 | 40 |
| 1,2-Dichloroethane | <0.237 | | 1.05 | 1.045 | | mg/Kg | ☼ | 99 | 27 - 150 | 18 | 40 |
| 1,1-Dichloroethene | <0.237 | | 1.05 | 1.067 | | mg/Kg | ☼ | 101 | 20 - 150 | 18 | 40 |

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

**Lab Sample ID: 310-301631-E-1-D MSD**
**Matrix: Solid**
**Analysis Batch: 448664**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 448661**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | <0.237 | | 1.05 | 1.052 | | mg/Kg | ☼ | 100 | 32 - 150 | 22 | 40 |
| 1,3-Dichloropropane | <0.237 | | 1.05 | 1.029 | | mg/Kg | ☼ | 98 | 31 - 150 | 18 | 40 |
| 2,2-Dichloropropane | <0.237 | | 1.05 | 0.8531 | | mg/Kg | ☼ | 81 | 10 - 150 | 19 | 40 |
| 1,1-Dichloropropene | <0.237 | | 1.05 | 1.043 | | mg/Kg | ☼ | 99 | 31 - 150 | 17 | 40 |
| Diethyl ether | <0.237 | | 1.05 | 0.9619 | | mg/Kg | ☼ | 91 | 21 - 150 | 14 | 40 |
| Ethylbenzene | <0.237 | | 1.05 | 0.9848 | | mg/Kg | ☼ | 94 | 20 - 150 | 18 | 40 |
| Hexachlorobutadiene | <0.237 | | 1.05 | 1.059 | | mg/Kg | ☼ | 91 | 11 - 150 | 23 | 40 |
| Isopropylbenzene | <0.237 | | 1.05 | 1.000 | | mg/Kg | ☼ | 95 | 25 - 150 | 20 | 40 |
| Methylene Chloride | <0.593 | | 1.05 | 0.9697 | | mg/Kg | ☼ | 92 | 17 - 150 | 14 | 40 |
| 4-Methyl-2-pentanone (MIBK) | <0.237 | | 2.10 | 1.916 | | mg/Kg | ☼ | 91 | 21 - 150 | 14 | 40 |
| Methyl tert-butyl ether | <0.237 | | 1.05 | 0.9968 | | mg/Kg | ☼ | 95 | 22 - 150 | 20 | 40 |
| Naphthalene | <0.593 | | 1.05 | 1.006 | | mg/Kg | ☼ | 96 | 10 - 150 | 20 | 40 |
| n-Butylbenzene | <0.237 | | 1.05 | 1.037 | | mg/Kg | ☼ | 92 | 10 - 150 | 22 | 40 |
| N-Propylbenzene | <0.237 | | 1.05 | 0.9863 | | mg/Kg | ☼ | 94 | 16 - 150 | 18 | 40 |
| 4-Isopropyltoluene | <0.237 | | 1.05 | 1.021 | | mg/Kg | ☼ | 97 | 19 - 150 | 21 | 40 |
| sec-Butylbenzene | <0.237 | | 1.05 | 1.049 | | mg/Kg | ☼ | 100 | 21 - 150 | 24 | 40 |
| Styrene | <0.237 | | 1.05 | 0.9744 | | mg/Kg | ☼ | 93 | 27 - 150 | 20 | 40 |
| tert-Butylbenzene | <0.237 | | 1.05 | 1.029 | | mg/Kg | ☼ | 98 | 28 - 150 | 21 | 40 |
| 1,1,1,2-Tetrachloroethane | <0.237 | | 1.05 | 0.9443 | | mg/Kg | ☼ | 90 | 28 - 150 | 17 | 40 |
| 1,1,2,2-Tetrachloroethane | <0.237 | | 1.05 | 0.9832 | | mg/Kg | ☼ | 94 | 19 - 150 | 19 | 40 |
| Tetrachloroethene | <0.237 | | 1.05 | 0.9983 | | mg/Kg | ☼ | 95 | 31 - 150 | 19 | 40 |
| Tetrahydrofuran | <0.237 | | 2.10 | 1.975 | | mg/Kg | ☼ | 94 | 22 - 150 | 1 | 40 |
| Toluene | <0.237 | | 1.05 | 0.9723 | | mg/Kg | ☼ | 92 | 24 - 150 | 20 | 40 |
| trans-1,2-Dichloroethene | <0.237 | | 1.05 | 0.9925 | | mg/Kg | ☼ | 94 | 25 - 150 | 13 | 40 |
| trans-1,3-Dichloropropene | <0.237 | | 1.05 | 1.002 | | mg/Kg | ☼ | 95 | 25 - 145 | 23 | 40 |
| 1,2,3-Trichlorobenzene | <0.237 | | 1.05 | 1.031 | | mg/Kg | ☼ | 90 | 19 - 150 | 26 | 40 |
| 1,2,4-Trichlorobenzene | <0.237 | | 1.05 | 0.9824 | | mg/Kg | ☼ | 85 | 21 - 150 | 23 | 40 |
| 1,1,1-Trichloroethane | <0.237 | | 1.05 | 1.001 | | mg/Kg | ☼ | 95 | 29 - 150 | 15 | 40 |
| 1,1,2-Trichloroethane | <0.237 | | 1.05 | 0.9767 | | mg/Kg | ☼ | 93 | 25 - 150 | 16 | 40 |
| Trichloroethene | <0.237 | | 1.05 | 1.038 | | mg/Kg | ☼ | 99 | 33 - 150 | 17 | 40 |
| 1,2,3-Trichloropropane | <0.237 | | 1.05 | 0.9935 | | mg/Kg | ☼ | 94 | 24 - 150 | 10 | 40 |
| 1,1,2-Trichlorotrifluoroethane | <0.237 | | 1.05 | 1.149 | | mg/Kg | ☼ | 109 | 19 - 150 | 11 | 40 |
| 1,2,4-Trimethylbenzene | <0.237 | | 1.05 | 1.030 | | mg/Kg | ☼ | 98 | 10 - 150 | 24 | 40 |
| 1,3,5-Trimethylbenzene | <0.237 | | 1.05 | 1.047 | | mg/Kg | ☼ | 100 | 17 - 150 | 25 | 40 |
| Xylenes, Total | <0.356 | | 2.10 | 1.961 | | mg/Kg | ☼ | 93 | 18 - 150 | 21 | 40 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *113* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* |

## Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

**Lab Sample ID: MB 310-448609/1-A**
**Matrix: Solid**
**Analysis Batch: 448999**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 448609**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | <6.93 | | 6.93 | | mg/Kg | | 03/11/25 12:47 | 03/17/25 13:51 | 1 |

## Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

**Lab Sample ID: LCS 310-448609/2-A**
**Matrix: Solid**
**Analysis Batch: 448999**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 448609**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 98.2 | 86.34 | | mg/Kg | | 88 | 70 - 120 |

**Lab Sample ID: LCSD 310-448609/3-A**
**Matrix: Solid**
**Analysis Batch: 448999**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 448609**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 98.8 | 88.18 | | mg/Kg | | 89 | 70 - 120 | 2 | 20 |

## Method: 6010D - Metals (ICP)

**Lab Sample ID: LB 310-448738/1-B**
**Matrix: Solid**
**Analysis Batch: 448936**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 448777**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.100 | | 0.100 | | mg/L | | 03/13/25 09:15 | 03/13/25 16:39 | 1 |
| Barium | <0.200 | | 0.200 | | mg/L | | 03/13/25 09:15 | 03/13/25 16:39 | 1 |
| Cadmium | <0.0200 | | 0.0200 | | mg/L | | 03/13/25 09:15 | 03/13/25 16:39 | 1 |
| Chromium | <0.0200 | | 0.0200 | | mg/L | | 03/13/25 09:15 | 03/13/25 16:39 | 1 |
| Lead | <0.100 | | 0.100 | | mg/L | | 03/13/25 09:15 | 03/13/25 16:39 | 1 |
| Selenium | <0.100 | | 0.100 | | mg/L | | 03/13/25 09:15 | 03/13/25 16:39 | 1 |
| Silver | <0.0500 | | 0.0500 | | mg/L | | 03/13/25 09:15 | 03/13/25 16:39 | 1 |

**Lab Sample ID: LCS 310-448738/2-B**
**Matrix: Solid**
**Analysis Batch: 448936**

**Client Sample ID: Lab Control Sample**
**Prep Type: TCLP**
**Prep Batch: 448777**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 4.00 | 4.364 | | mg/L | | 109 | 80 - 120 |
| Barium | 2.00 | 2.095 | | mg/L | | 105 | 80 - 120 |
| Cadmium | 2.00 | 1.989 | | mg/L | | 99 | 80 - 120 |
| Chromium | 2.00 | 2.013 | | mg/L | | 101 | 80 - 120 |
| Lead | 4.00 | 3.876 | | mg/L | | 97 | 80 - 120 |
| Selenium | 8.00 | 8.533 | | mg/L | | 107 | 80 - 120 |
| Silver | 2.00 | 2.022 | | mg/L | | 101 | 80 - 120 |

**Lab Sample ID: 310-301561-C-1-C MS**
**Matrix: Solid**
**Analysis Batch: 448936**

**Client Sample ID: Matrix Spike**
**Prep Type: TCLP**
**Prep Batch: 448777**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.100 | ^+ | 4.00 | 4.284 | ^+ | mg/L | | 107 | 75 - 125 |
| Barium | 0.634 | | 2.00 | 2.649 | | mg/L | | 101 | 75 - 125 |
| Cadmium | <0.0200 | | 2.00 | 1.887 | | mg/L | | 94 | 75 - 125 |
| Chromium | <0.0200 | | 2.00 | 1.946 | | mg/L | | 97 | 75 - 125 |
| Lead | <0.100 | | 4.00 | 3.665 | | mg/L | | 92 | 75 - 125 |
| Selenium | <0.100 | ^+ | 8.00 | 8.367 | ^+ | mg/L | | 105 | 75 - 125 |

## Method: 6010D - Metals (ICP) (Continued)

**Lab Sample ID: 310-301561-C-1-C MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: TCLP**
**Analysis Batch: 448936** — **Prep Batch: 448777**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Silver | <0.0500 | | 2.00 | 1.517 | | mg/L | | 76 | 75 - 125 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: LB 310-448738/1-E** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: TCLP**
**Analysis Batch: 448945** — **Prep Batch: 448789**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00200 | | 0.00200 | | mg/L | | 03/13/25 09:53 | 03/14/25 10:59 | 1 |

**Lab Sample ID: LCS 310-448738/2-D** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: TCLP**
**Analysis Batch: 448945** — **Prep Batch: 448789**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.0167 | 0.01673 | | mg/L | | 100 | 80 - 120 |

**Lab Sample ID: 310-301610-A-1-D MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: TCLP**
**Analysis Batch: 448945** — **Prep Batch: 448789**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.0109 | F1 | 0.0167 | 0.02145 | F1 | mg/L | | 63 | 80 - 120 |

## Method: Moisture - Percent Moisture

**Lab Sample ID: 310-301631-B-1 DU** — **Client Sample ID: Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 448471**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 6.0 | | 6.0 | | % | | 0.9 | 40 |
| Percent Solids | 94.0 | | 94.0 | | % | | 0.06 | 16 |

## GC/MS VOA

### Prep Batch: 448661

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-301637-1 | 03052025 Disposal | Total/NA | Solid | 5035 | |
| MB 310-448661/1-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 310-448661/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| 310-301631-E-1-C MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 310-301631-E-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

### Analysis Batch: 448664

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-301637-1 | 03052025 Disposal | Total/NA | Solid | 8260D | 448661 |
| MB 310-448661/1-A | Method Blank | Total/NA | Solid | 8260D | 448661 |
| LCS 310-448661/2-A | Lab Control Sample | Total/NA | Solid | 8260D | 448661 |
| 310-301631-E-1-C MS | Matrix Spike | Total/NA | Solid | 8260D | 448661 |
| 310-301631-E-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8260D | 448661 |

## GC Semi VOA

### Prep Batch: 448609

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-301637-1 | 03052025 Disposal | Total/NA | Solid | WI DRO PREP | |
| MB 310-448609/1-A | Method Blank | Total/NA | Solid | WI DRO PREP | |
| LCS 310-448609/2-A | Lab Control Sample | Total/NA | Solid | WI DRO PREP | |
| LCSD 310-448609/3-A | Lab Control Sample Dup | Total/NA | Solid | WI DRO PREP | |

### Analysis Batch: 448999

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 310-448609/1-A | Method Blank | Total/NA | Solid | WI-DRO | 448609 |
| LCS 310-448609/2-A | Lab Control Sample | Total/NA | Solid | WI-DRO | 448609 |
| LCSD 310-448609/3-A | Lab Control Sample Dup | Total/NA | Solid | WI-DRO | 448609 |

### Analysis Batch: 449137

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-301637-1 | 03052025 Disposal | Total/NA | Solid | WI-DRO | 448609 |

## Metals

### Leach Batch: 448738

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-301637-1 | 03052025 Disposal | TCLP | Solid | 1311 | |
| LB 310-448738/1-B | Method Blank | TCLP | Solid | 1311 | |
| LB 310-448738/1-E | Method Blank | TCLP | Solid | 1311 | |
| LCS 310-448738/2-B | Lab Control Sample | TCLP | Solid | 1311 | |
| LCS 310-448738/2-D | Lab Control Sample | TCLP | Solid | 1311 | |
| 310-301561-C-1-C MS | Matrix Spike | TCLP | Solid | 1311 | |
| 310-301610-A-1-D MS | Matrix Spike | TCLP | Solid | 1311 | |

### Prep Batch: 448777

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-301637-1 | 03052025 Disposal | TCLP | Solid | 3010A | 448738 |
| LB 310-448738/1-B | Method Blank | TCLP | Solid | 3010A | 448738 |
| LCS 310-448738/2-B | Lab Control Sample | TCLP | Solid | 3010A | 448738 |
| 310-301561-C-1-C MS | Matrix Spike | TCLP | Solid | 3010A | 448738 |

## Metals

### Prep Batch: 448789

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-301637-1 | 03052025 Disposal | TCLP | Solid | 7470A | 448738 |
| LB 310-448738/1-E | Method Blank | TCLP | Solid | 7470A | 448738 |
| LCS 310-448738/2-D | Lab Control Sample | TCLP | Solid | 7470A | 448738 |
| 310-301610-A-1-D MS | Matrix Spike | TCLP | Solid | 7470A | 448738 |

### Analysis Batch: 448936

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-301637-1 | 03052025 Disposal | TCLP | Solid | 6010D | 448777 |
| LB 310-448738/1-B | Method Blank | TCLP | Solid | 6010D | 448777 |
| LCS 310-448738/2-B | Lab Control Sample | TCLP | Solid | 6010D | 448777 |
| 310-301561-C-1-C MS | Matrix Spike | TCLP | Solid | 6010D | 448777 |

### Analysis Batch: 448945

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-301637-1 | 03052025 Disposal | TCLP | Solid | 7470A | 448789 |
| LB 310-448738/1-E | Method Blank | TCLP | Solid | 7470A | 448789 |
| LCS 310-448738/2-D | Lab Control Sample | TCLP | Solid | 7470A | 448789 |
| 310-301610-A-1-D MS | Matrix Spike | TCLP | Solid | 7470A | 448789 |

## General Chemistry

### Analysis Batch: 448471

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-301637-1 | 03052025 Disposal | Total/NA | Solid | Moisture | |
| 310-301631-B-1 DU | Duplicate | Total/NA | Solid | Moisture | |

# Lab Chronicle

Client: West Central Environmental Consultants
Job ID: 310-301637-1
Project/Site: I-90 W La Crescent Diesel Relese

## Client Sample ID: 03052025 Disposal
**Lab Sample ID: 310-301637-1**
**Date Collected: 03/05/25 21:30**
**Matrix: Solid**
**Date Received: 03/07/25 13:20**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| TCLP | Leach | 1311 | | | 448738 | U8FK | EET CF | 03/12/25 15:30 - 03/13/25 07:30 [1] |
| TCLP | Prep | 3010A | | | 448777 | QTZ5 | EET CF | 03/13/25 09:15 |
| TCLP | Analysis | 6010D | | 1 | 448936 | ZRI4 | EET CF | 03/13/25 17:18 |
| TCLP | Leach | 1311 | | | 448738 | U8FK | EET CF | 03/12/25 15:30 - 03/13/25 07:30 [1] |
| TCLP | Prep | 7470A | | | 448789 | F5MW | EET CF | 03/13/25 09:53 |
| TCLP | Analysis | 7470A | | 1 | 448945 | F5MW | EET CF | 03/14/25 11:31 |
| Total/NA | Analysis | Moisture | | 1 | 448471 | W9YR | EET CF | 03/10/25 10:55 |

## Client Sample ID: 03052025 Disposal
**Lab Sample ID: 310-301637-1**
**Date Collected: 03/05/25 21:30**
**Matrix: Solid**
**Date Received: 03/07/25 13:20**
**Percent Solids: 63.7**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 448661 | MZR8 | EET CF | 03/12/25 08:00 |
| Total/NA | Analysis | 8260D | | 1 | 448664 | WSE8 | EET CF | 03/12/25 23:59 |
| Total/NA | Prep | WI DRO PREP | | | 448609 | BDJ4 | EET CF | 03/11/25 12:47 |
| Total/NA | Analysis | WI-DRO | | 2 | 449137 | C3AA | EET CF | 03/18/25 10:54 |

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

**Laboratory References:**

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

# Accreditation/Certification Summary

Client: West Central Environmental Consultants
Job ID: 310-301637-1
Project/Site: I-90 W La Crescent Diesel Relese

## Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Minnesota | NELAP | 019-999-319 | 12-31-25 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 8260D | 5035 | Solid | Dichlorofluoromethane |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

# Method Summary

Client: West Central Environmental Consultants
Project/Site: I-90 W La Crescent Diesel Relese

Job ID: 310-301637-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260D | Volatile Organic Compounds by GC/MS | SW846 | EET CF |
| WI-DRO | Wisconsin - Diesel Range Organics (GC) | WI-DRO | EET CF |
| 6010D | Metals (ICP) | SW846 | EET CF |
| 7470A | Mercury (CVAA) | SW846 | EET CF |
| Moisture | Percent Moisture | EPA | EET CF |
| 1311 | TCLP Extraction | SW846 | EET CF |
| 3010A | Preparation, Total Metals | SW846 | EET CF |
| 5035 | Closed System Purge and Trap | SW846 | EET CF |
| 7470A | Preparation, Mercury | SW846 | EET CF |
| WI DRO PREP | Wisconsin Extraction (Diesel Range Organics) | WI-DRO | EET CF |

**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:**

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

eurofins | Environment Testing America

310-301637 Chain of Custody

# Cooler/Sample Receipt and Temperature Log Form

**Client Information**

Client: UCC

City/State: CITY New Hope | STATE MN | Project:

**Receipt Information**

Date/Time Received: DATE 3/7/25 | TIME 1320 | Received By: JB

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

**Condition of Cooler/Containers**

| | | | |
|---|---|---|---|
| Sample(s) received in Cooler? | ☒ Yes | ☐ No | *If yes:* Cooler ID: |
| Multiple Coolers? | ☐ Yes | ☒ No | *If yes:* Cooler # _____ of _____ |
| Cooler Custody Seals Present? No | ☒ Yes | ☐ No | *If yes:* Cooler custody seals intact? ☒ Yes ☐ No |
| Sample Custody Seals Present? No | ☐ Yes | ☒ No | *If yes:* Sample custody seals intact? ☐ Yes ☐ No |
| Trip Blank Present? | ☐ Yes | ☒ No | *If yes:* Which VOA samples are in cooler? ↓ |

**Temperature Record**

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: P | Correction Factor (°C): 0

**• Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.0 | Corrected Temp (°C): 1.0

**• Sample Container Temperature**

| | CONTAINER 1 | CONTAINER 2 |
|---|---|---|
| Container(s) used: | | |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |

**Exceptions Noted**

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

**Additional Comments**

**Eurofins Cedar Falls**
3019 Venture Way

Cedar Falls, IA 50613
phone 319.277.2401 fax 319.277.2425

# Chain of Custody Record

eurofins Environment Testing America

Eurofins Minneapolis SC

**Regulatory Program:** ☐ DW ☐ NPDES ☐ RCRA ☐ Other

**Eurofins Environment Testing America**

| Client Contact | Project Manager: Jaret Johnson | Site Contact: | Date: 3/6/2025 | COC No |
|---|---|---|---|---|
| WCEC | Email jjohnson@wcec.com | Lab Contact: | Carrier: | 1 of 1 COCs |
| 5005 Boone Ave N | Tel/Fax:320-287-3365 | | | TALS Project # |
| New Hope, MN 55428 | **Analysis Turnaround Time** | | | Sampler: Jaret Johnson |
| Phone 763-315-4818 | ☐ CALENDAR DAYS ☐ WORKING DAYS | | | **For Lab Use Only:** |
| FAX | TAT if different from Below STANDARD TAT | | | Walk-in Client: |
| Project Name I-90 W La Crescent Diesel Relese | ☑ 2 weeks | | | Lab Sampling |
| Site | ☐ 1 week | | | |
| P O # | ☐ 2 days | | | Job / SDG No |
| | ☐ 1 day | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Filtered Sample (Y/N) | Perform MS/MSD (Y/N) | DRO | TCLP Metals | VOCs | %Moisture | Sample Specific Notes. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 03052025 Disposal | 3/5/2025 | 2130 | C | SL | 4 | N | N | X | X | X | X | |

**Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other** _____

**Possible Hazard Identification:**
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

**Special Instructions/QC Requirements & Comments: C.C. jcaulfield@wcec.com**

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ | Therm ID No _____

| | | | | | | |
|---|---|---|---|---|---|---|
| Relinquished by | Company: WCEC | Date/Time | Received by | Company: Eurofins | Date/Time: 3-6 1105 | |
| Relinquished by | Company: Eurofins | Date/Time: 3-6 1720 | Received by | Company | Date/Time | |
| Relinquished by | Company | Date/Time | Received in Laboratory by | Company | Date/Time: 3-7-25 1320 | |

Page 25 of 26

3/19/2025

# Login Sample Receipt Checklist

Client: West Central Environmental Consultants

Job Number: 310-301637-1

**Login Number: 301637**

**List Number: 1**

**Creator: Hirsch, Preston**

**List Source: Eurofins Cedar Falls**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| 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 | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# La Crosse County Landfill
# Application for Special Waste Disposal

## PART A: WASTE GENERATOR INFORMATION

1. Generator Name Trane Technologies- Plant 4
2. Generator Mailing Address 2600 Losey Blvd.
3. Facility Address (site of waste generation) 2411 East Ave. S Plant 4
4. Generator City LaCrosse
5. Generator State/Zip WI 54601
6. General Contact Person Faith Lovett-Wilson
   Phone # and email faith.lovettwilson@trane.com (608) 780-4312
7. Technical Contact Person Faith Lovett-Wilson
   Phone # and email faith.lovettwilson@trane.com (608) 780-4312

---

1. Name of Waste Soil
2. Process Generating Waste soil disturbance for footings for various machines due to remodeling of the plant
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____ 4.1-7.0X__ 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 |
|---|---|
| Sandy Soil | 99.5 to 100 % |
| | ____ to ____ % |
| | ____ to ____ % |
| | ____ to ____ % |
| | ____ to ____ % |

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

10. Analytical Laboratory Pace
11. Date of Analysis 3.18.2025

## PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

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

## PART C: TRANSPORTATION INFORMATION

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

2. Waste Quantity/Units 20 yard dumpsters for soil excavated in plant

   ☐ One-time Disposal
   ☑ On-going Disposal

   Frequency now through the end of 2025

3. Hauler Name and Address ellefson excavating
   2312 South Avenue
   La Crosse, WI 54601

4. Bill to Name and Address Ellefson excavating
   2312 South Avenue
   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.

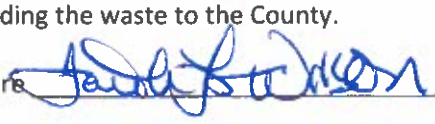
4. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4, 5-TP (Silvex).

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 Environmental Program Manager

11. Name (Type or print) Faith Lovett-Wilson

12. Date 3.31.2025

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

March 26, 2025

Jim Ziska
Arcadis U.S., Inc.
331 2nd Avenue S.
Suite 600C
Minneapolis, MN 55401

RE: Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

Dear Jim Ziska:

Enclosed are the analytical results for sample(s) received by the laboratory on March 18, 2025. 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
- 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



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

# CERTIFICATIONS

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

**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

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

## SAMPLE SUMMARY

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| 10727753001 | PLANT4-IDW-01-03182025 | Solid | 03/18/25 11:15 | 03/18/25 16:40 |
| 10727753002 | PLANT4-IDW-02-03182025 | Solid | 03/18/25 12:00 | 03/18/25 16:40 |



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Minneapolis, MN 55414
(612)607-1700

## SAMPLE ANALYTE COUNT

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| 10727753001 | PLANT4-IDW-01-03182025 | EPA 8082A | BLM | 10 | PASI-G |
| | | WI MOD DRO | CAH | 1 | PASI-G |
| | | WI MOD GRO | NJ1 | 2 | PASI-M |
| | | EPA 6010D | DM | 7 | PASI-M |
| | | EPA 7470A | LMW | 1 | PASI-M |
| | | ASTM D2974 | JDL | 1 | PASI-M |
| | | EPA 8270E | RJN | 16 | PASI-G |
| | | EPA 8260D | MK4 | 14 | PASI-M |
| | | EPA 1010 | HML | 1 | PASI-G |
| | | EPA 9045D | KEO | 1 | PASI-M |
| | | ASTM D6913 | SRG | 14 | PASI-G |
| 10727753002 | PLANT4-IDW-02-03182025 | EPA 8082A | BLM | 10 | PASI-G |
| | | WI MOD DRO | CAH | 1 | PASI-G |
| | | WI MOD GRO | NJ1 | 2 | PASI-M |
| | | EPA 6010D | DM | 7 | PASI-M |
| | | EPA 7470A | LMW | 1 | PASI-M |
| | | ASTM D2974 | JDL | 1 | PASI-M |
| | | EPA 8270E | RJN | 16 | PASI-G |
| | | EPA 8260D | MK4 | 14 | PASI-M |
| | | EPA 1010 | HML | 1 | PASI-G |
| | | EPA 9045D | KEO | 1 | PASI-M |
| | | ASTM D6913 | SRG | 14 | PASI-G |

PASI-G = Pace Analytical Services - Green Bay
PASI-M = Pace Analytical Services - Minneapolis



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

# ANALYTICAL RESULTS

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

**Sample: PLANT4-IDW-01-03182025** **Lab ID: 10727753001** Collected: 03/18/25 11:15 Received: 03/18/25 16:40 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 |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB-1016 (Aroclor 1016) | ND | ug/kg | 51.5 | 15.7 | 1 | 03/21/25 14:48 | 03/21/25 21:49 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | ND | ug/kg | 51.5 | 15.7 | 1 | 03/21/25 14:48 | 03/21/25 21:49 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | ND | ug/kg | 51.5 | 15.7 | 1 | 03/21/25 14:48 | 03/21/25 21:49 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | ND | ug/kg | 51.5 | 15.7 | 1 | 03/21/25 14:48 | 03/21/25 21:49 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | ND | ug/kg | 51.5 | 15.7 | 1 | 03/21/25 14:48 | 03/21/25 21:49 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | ND | ug/kg | 51.5 | 15.7 | 1 | 03/21/25 14:48 | 03/21/25 21:49 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | ND | ug/kg | 51.5 | 15.7 | 1 | 03/21/25 14:48 | 03/21/25 21:49 | 11096-82-5 | |
| PCB, Total | ND | ug/kg | 51.5 | 15.7 | 1 | 03/21/25 14:48 | 03/21/25 21:49 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 87 | % | 65-120 | | 1 | 03/21/25 14:48 | 03/21/25 21:49 | 877-09-8 | |
| Decachlorobiphenyl (S) | 74 | % | 55-120 | | 1 | 03/21/25 14:48 | 03/21/25 21:49 | 2051-24-3 | |
| **WIDRO GCS** | Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Diesel Range Organics | **10.6** | mg/kg | 3.6 | 1.1 | 1 | 03/21/25 07:34 | 03/24/25 08:30 | | DC |
| **WIGRO GCV** | Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Gasoline Range Organics | ND | mg/kg | 10.5 | 1.9 | 1 | 03/20/25 07:32 | 03/20/25 21:27 | | |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (S) | 117 | %. | 80-200 | | 1 | 03/20/25 07:32 | 03/20/25 21:27 | 98-08-8 | |
| **6010D MET ICP, TCLP MICRO** | Analytical Method: EPA 6010D Preparation Method: EPA 3015A<br>Leachate Method/Date: EPA 1311; 03/20/25 14:02<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Arsenic | ND | mg/L | 0.20 | 0.021 | 1 | 03/21/25 08:10 | 03/21/25 14:27 | 7440-38-2 | |
| Barium | **0.26** | mg/L | 0.10 | 0.019 | 1 | 03/21/25 08:10 | 03/21/25 14:27 | 7440-39-3 | |
| Cadmium | ND | mg/L | 0.030 | 0.0026 | 1 | 03/21/25 08:10 | 03/21/25 14:27 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.10 | 0.0063 | 1 | 03/21/25 08:10 | 03/21/25 14:27 | 7440-47-3 | |
| Lead | ND | mg/L | 0.10 | 0.044 | 1 | 03/21/25 08:10 | 03/21/25 14:27 | 7439-92-1 | |
| Selenium | ND | mg/L | 0.20 | 0.039 | 1 | 03/21/25 08:10 | 03/21/25 14:27 | 7782-49-2 | |
| Silver | ND | mg/L | 0.10 | 0.0041 | 1 | 03/21/25 08:10 | 03/21/25 14:27 | 7440-22-4 | |
| **7470A Mercury, TCLP** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Leachate Method/Date: EPA 1311; 03/20/25 14:02<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Mercury | ND | ug/L | 0.60 | 0.29 | 1 | 03/21/25 08:13 | 03/25/25 12:34 | 7439-97-6 | |
| **Dry Weight / %M by ASTM D2974** | Analytical Method: ASTM D2974<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Percent Moisture | **3.2** | % | 0.10 | 0.10 | 1 | | 03/20/25 10:54 | | N2 |

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(612)607-1700

## ANALYTICAL RESULTS

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

**Sample: PLANT4-IDW-01-03182025** **Lab ID: 10727753001** Collected: 03/18/25 11:15 Received: 03/18/25 16:40 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 |
|---|---|---|---|---|---|---|---|---|---|
| **8270E MSSV TCLP Sep Funnel** | Analytical Method: EPA 8270E Preparation Method: EPA 3510<br>Leachate Method/Date: EPA 1311; 03/24/25 15:32<br>Pace Analytical Services - Green Bay | | | | | | | | |
| 1,4-Dichlorobenzene | ND | ug/L | 50.0 | 17.8 | 1 | 03/25/25 10:18 | 03/25/25 15:08 | 106-46-7 | |
| 2,4-Dinitrotoluene | ND | ug/L | 50.0 | 11.9 | 1 | 03/25/25 10:18 | 03/25/25 15:08 | 121-14-2 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 50.0 | 16.4 | 1 | 03/25/25 10:18 | 03/25/25 15:08 | 87-68-3 | |
| Hexachlorobenzene | ND | ug/L | 50.0 | 25.2 | 1 | 03/25/25 10:18 | 03/25/25 15:08 | 118-74-1 | |
| Hexachloroethane | ND | ug/L | 50.0 | 15.1 | 1 | 03/25/25 10:18 | 03/25/25 15:08 | 67-72-1 | |
| 2-Methylphenol(o-Cresol) | ND | ug/L | 50.0 | 7.7 | 1 | 03/25/25 10:18 | 03/25/25 15:08 | 95-48-7 | |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/L | 50.0 | 6.0 | 1 | 03/25/25 10:18 | 03/25/25 15:08 | | |
| Nitrobenzene | ND | ug/L | 50.0 | 15.7 | 1 | 03/25/25 10:18 | 03/25/25 15:08 | 98-95-3 | |
| Pentachlorophenol | ND | ug/L | 50.0 | 16.3 | 1 | 03/25/25 10:18 | 03/25/25 15:08 | 87-86-5 | |
| Pyridine | ND | ug/L | 100 | 73.0 | 1 | 03/25/25 10:18 | 03/25/25 15:08 | 110-86-1 | L2 |
| 2,4,5-Trichlorophenol | ND | ug/L | 50.0 | 18.2 | 1 | 03/25/25 10:18 | 03/25/25 15:08 | 95-95-4 | |
| 2,4,6-Trichlorophenol | ND | ug/L | 50.0 | 20.0 | 1 | 03/25/25 10:18 | 03/25/25 15:08 | 88-06-2 | |
| ***Surrogates*** | | | | | | | | | |
| Nitrobenzene-d5 (S) | 85 | % | 41-134 | | 1 | 03/25/25 10:18 | 03/25/25 15:08 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 78 | % | 25-130 | | 1 | 03/25/25 10:18 | 03/25/25 15:08 | 321-60-8 | |
| 2,4,6-Tribromophenol (S) | 92 | % | 10-163 | | 1 | 03/25/25 10:18 | 03/25/25 15:08 | 118-79-6 | |
| Phenol-d6 (S) | 35 | % | 10-130 | | 1 | 03/25/25 10:18 | 03/25/25 15:08 | 13127-88-3 | |
| **8260D MSV TCLP** | Analytical Method: EPA 8260D Leachate Method/Date: EPA 1311; 03/21/25 12:38<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Benzene | ND | ug/L | 25.0 | 2.6 | 1 | | 03/24/25 15:43 | 71-43-2 | |
| 2-Butanone (MEK) | ND | ug/L | 250 | 27.2 | 1 | | 03/24/25 15:43 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 25.0 | 3.4 | 1 | | 03/24/25 15:43 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 25.0 | 3.3 | 1 | | 03/24/25 15:43 | 108-90-7 | |
| Chloroform | ND | ug/L | 25.0 | 5.8 | 1 | | 03/24/25 15:43 | 67-66-3 | |
| 1,4-Dichlorobenzene | ND | ug/L | 25.0 | 3.7 | 1 | | 03/24/25 15:43 | 106-46-7 | |
| 1,2-Dichloroethane | ND | ug/L | 25.0 | 4.2 | 1 | | 03/24/25 15:43 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 25.0 | 3.3 | 1 | | 03/24/25 15:43 | 75-35-4 | |
| Tetrachloroethene | ND | ug/L | 25.0 | 2.6 | 1 | | 03/24/25 15:43 | 127-18-4 | |
| Trichloroethene | ND | ug/L | 25.0 | 3.0 | 1 | | 03/24/25 15:43 | 79-01-6 | |
| Vinyl chloride | ND | ug/L | 25.0 | 1.2 | 1 | | 03/24/25 15:43 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 101 | %. | 75-125 | | 1 | | 03/24/25 15:43 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 97 | %. | 75-125 | | 1 | | 03/24/25 15:43 | 460-00-4 | |
| Toluene-d8 (S) | 102 | %. | 75-125 | | 1 | | 03/24/25 15:43 | 2037-26-5 | |
| **1010 Flashpoint,Closed Cup** | Analytical Method: EPA 1010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Flashpoint | **>200** | deg F | | | 1 | | 03/25/25 14:07 | | 1M |
| **9045D pH** | Analytical Method: EPA 9045D<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | **8.8** | Std. Units | 0.10 | 0.10 | 1 | | 03/26/25 10:42 | | |

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## ANALYTICAL RESULTS

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

**Sample: PLANT4-IDW-01-03182025** **Lab ID: 10727753001** Collected: 03/18/25 11:15 Received: 03/18/25 16:40 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 D6913 Grain Size** | Analytical Method: ASTM D6913<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Sieve 3.0" | **100.0** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve 2.0" | **100.0** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve 1.5" | **100.0** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve 1.0" | **100.0** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve 0.75" | **100.0** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve 0.375" | **99.5** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #4 | **97.5** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #10 | **96.2** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #20 | **95.2** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #40 | **76.9** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #60 | **38.2** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #100 | **9.2** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #140 | **4.8** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #200 | **3.6** | % | | | 1 | | 03/20/25 17:46 | | |

**Sample: PLANT4-IDW-02-03182025** **Lab ID: 10727753002** Collected: 03/18/25 12:00 Received: 03/18/25 16:40 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 |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB-1016 (Aroclor 1016) | ND | ug/kg | 52.0 | 15.8 | 1 | 03/21/25 14:48 | 03/22/25 00:37 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | ND | ug/kg | 52.0 | 15.8 | 1 | 03/21/25 14:48 | 03/22/25 00:37 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | ND | ug/kg | 52.0 | 15.8 | 1 | 03/21/25 14:48 | 03/22/25 00:37 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | ND | ug/kg | 52.0 | 15.8 | 1 | 03/21/25 14:48 | 03/22/25 00:37 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | ND | ug/kg | 52.0 | 15.8 | 1 | 03/21/25 14:48 | 03/22/25 00:37 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | ND | ug/kg | 52.0 | 15.8 | 1 | 03/21/25 14:48 | 03/22/25 00:37 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | ND | ug/kg | 52.0 | 15.8 | 1 | 03/21/25 14:48 | 03/22/25 00:37 | 11096-82-5 | |
| PCB, Total | ND | ug/kg | 52.0 | 15.8 | 1 | 03/21/25 14:48 | 03/22/25 00:37 | 1336-36-3 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 84 | % | 65-120 | | 1 | 03/21/25 14:48 | 03/22/25 00:37 | 877-09-8 | |
| Decachlorobiphenyl (S) | 71 | % | 55-120 | | 1 | 03/21/25 14:48 | 03/22/25 00:37 | 2051-24-3 | |
| **WIDRO GCS** | Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Diesel Range Organics | **4.5** | mg/kg | 3.3 | 0.99 | 1 | 03/21/25 07:34 | 03/24/25 10:20 | | DC |
| **WIGRO GCV** | Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Gasoline Range Organics | ND | mg/kg | 11.0 | 2.0 | 1 | 03/20/25 07:32 | 03/20/25 21:46 | | |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (S) | 115 | %. | 80-200 | | 1 | 03/20/25 07:32 | 03/20/25 21:46 | 98-08-8 | |

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# ANALYTICAL RESULTS

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

**Sample: PLANT4-IDW-02-03182025** **Lab ID: 10727753002** Collected: 03/18/25 12:00 Received: 03/18/25 16:40 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 MICRO** | Analytical Method: EPA 6010D Preparation Method: EPA 3015A<br>Leachate Method/Date: EPA 1311; 03/20/25 14:02<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Arsenic | ND | mg/L | 0.20 | 0.021 | 1 | 03/21/25 08:10 | 03/21/25 14:35 | 7440-38-2 | |
| Barium | **0.26** | mg/L | 0.10 | 0.019 | 1 | 03/21/25 08:10 | 03/21/25 14:35 | 7440-39-3 | |
| Cadmium | ND | mg/L | 0.030 | 0.0026 | 1 | 03/21/25 08:10 | 03/21/25 14:35 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.10 | 0.0063 | 1 | 03/21/25 08:10 | 03/21/25 14:35 | 7440-47-3 | |
| Lead | ND | mg/L | 0.10 | 0.044 | 1 | 03/21/25 08:10 | 03/21/25 14:35 | 7439-92-1 | |
| Selenium | ND | mg/L | 0.20 | 0.039 | 1 | 03/21/25 08:10 | 03/21/25 14:35 | 7782-49-2 | |
| Silver | ND | mg/L | 0.10 | 0.0041 | 1 | 03/21/25 08:10 | 03/21/25 14:35 | 7440-22-4 | |
| **7470A Mercury, TCLP** | Analytical Method: EPA 7470A Preparation Method: EPA 7470A<br>Leachate Method/Date: EPA 1311; 03/20/25 14:02<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Mercury | ND | ug/L | 0.60 | 0.29 | 1 | 03/21/25 08:13 | 03/25/25 12:38 | 7439-97-6 | |
| **Dry Weight / %M by ASTM D2974** | Analytical Method: ASTM D2974<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Percent Moisture | **3.6** | % | 0.10 | 0.10 | 1 | | 03/20/25 10:55 | | N2 |
| **8270E MSSV TCLP Sep Funnel** | Analytical Method: EPA 8270E Preparation Method: EPA 3510<br>Leachate Method/Date: EPA 1311; 03/24/25 15:32<br>Pace Analytical Services - Green Bay | | | | | | | | |
| 1,4-Dichlorobenzene | ND | ug/L | 50.0 | 17.8 | 1 | 03/25/25 10:18 | 03/25/25 15:31 | 106-46-7 | |
| 2,4-Dinitrotoluene | ND | ug/L | 50.0 | 11.9 | 1 | 03/25/25 10:18 | 03/25/25 15:31 | 121-14-2 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 50.0 | 16.4 | 1 | 03/25/25 10:18 | 03/25/25 15:31 | 87-68-3 | |
| Hexachlorobenzene | ND | ug/L | 50.0 | 25.2 | 1 | 03/25/25 10:18 | 03/25/25 15:31 | 118-74-1 | |
| Hexachloroethane | ND | ug/L | 50.0 | 15.1 | 1 | 03/25/25 10:18 | 03/25/25 15:31 | 67-72-1 | |
| 2-Methylphenol(o-Cresol) | ND | ug/L | 50.0 | 7.7 | 1 | 03/25/25 10:18 | 03/25/25 15:31 | 95-48-7 | |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/L | 50.0 | 6.0 | 1 | 03/25/25 10:18 | 03/25/25 15:31 | | |
| Nitrobenzene | ND | ug/L | 50.0 | 15.7 | 1 | 03/25/25 10:18 | 03/25/25 15:31 | 98-95-3 | |
| Pentachlorophenol | ND | ug/L | 50.0 | 16.3 | 1 | 03/25/25 10:18 | 03/25/25 15:31 | 87-86-5 | |
| Pyridine | ND | ug/L | 100 | 73.0 | 1 | 03/25/25 10:18 | 03/25/25 15:31 | 110-86-1 | L2 |
| 2,4,5-Trichlorophenol | ND | ug/L | 50.0 | 18.2 | 1 | 03/25/25 10:18 | 03/25/25 15:31 | 95-95-4 | |
| 2,4,6-Trichlorophenol | ND | ug/L | 50.0 | 20.0 | 1 | 03/25/25 10:18 | 03/25/25 15:31 | 88-06-2 | |
| ***Surrogates*** | | | | | | | | | |
| Nitrobenzene-d5 (S) | 89 | % | 41-134 | | 1 | 03/25/25 10:18 | 03/25/25 15:31 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 86 | % | 25-130 | | 1 | 03/25/25 10:18 | 03/25/25 15:31 | 321-60-8 | |
| 2,4,6-Tribromophenol (S) | 99 | % | 10-163 | | 1 | 03/25/25 10:18 | 03/25/25 15:31 | 118-79-6 | |
| Phenol-d6 (S) | 35 | % | 10-130 | | 1 | 03/25/25 10:18 | 03/25/25 15:31 | 13127-88-3 | |
| **8260D MSV TCLP** | Analytical Method: EPA 8260D Leachate Method/Date: EPA 1311; 03/21/25 12:38<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Benzene | ND | ug/L | 25.0 | 2.6 | 1 | | 03/24/25 15:59 | 71-43-2 | |
| 2-Butanone (MEK) | ND | ug/L | 250 | 27.2 | 1 | | 03/24/25 15:59 | 78-93-3 | |

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## ANALYTICAL RESULTS

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

**Sample: PLANT4-IDW-02-03182025** **Lab ID: 10727753002** Collected: 03/18/25 12:00 Received: 03/18/25 16:40 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 |
|---|---|---|---|---|---|---|---|---|---|
| **8260D MSV TCLP** | Analytical Method: EPA 8260D Leachate Method/Date: EPA 1311; 03/21/25 12:38<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Carbon tetrachloride | ND | ug/L | 25.0 | 3.4 | 1 | | 03/24/25 15:59 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 25.0 | 3.3 | 1 | | 03/24/25 15:59 | 108-90-7 | |
| Chloroform | ND | ug/L | 25.0 | 5.8 | 1 | | 03/24/25 15:59 | 67-66-3 | |
| 1,4-Dichlorobenzene | ND | ug/L | 25.0 | 3.7 | 1 | | 03/24/25 15:59 | 106-46-7 | |
| 1,2-Dichloroethane | ND | ug/L | 25.0 | 4.2 | 1 | | 03/24/25 15:59 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 25.0 | 3.3 | 1 | | 03/24/25 15:59 | 75-35-4 | |
| Tetrachloroethene | ND | ug/L | 25.0 | 2.6 | 1 | | 03/24/25 15:59 | 127-18-4 | |
| Trichloroethene | ND | ug/L | 25.0 | 3.0 | 1 | | 03/24/25 15:59 | 79-01-6 | |
| Vinyl chloride | ND | ug/L | 25.0 | 1.2 | 1 | | 03/24/25 15:59 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 102 | %. | 75-125 | | 1 | | 03/24/25 15:59 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 98 | %. | 75-125 | | 1 | | 03/24/25 15:59 | 460-00-4 | |
| Toluene-d8 (S) | 102 | %. | 75-125 | | 1 | | 03/24/25 15:59 | 2037-26-5 | |
| **1010 Flashpoint,Closed Cup** | Analytical Method: EPA 1010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Flashpoint | **>200** | deg F | | | 1 | | 03/25/25 14:35 | | 1M |
| **9045D pH** | Analytical Method: EPA 9045D<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| pH at 25 Degrees C | **9.2** | Std. Units | 0.10 | 0.10 | 1 | | 03/26/25 10:44 | | |
| **ASTM D6913 Grain Size** | Analytical Method: ASTM D6913<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Sieve 3.0" | **100.0** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve 2.0" | **100.0** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve 1.5" | **100.0** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve 1.0" | **100.0** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve 0.75" | **100.0** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve 0.375" | **99.2** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #4 | **97.8** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #10 | **97.0** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #20 | **96.3** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #40 | **81.4** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #60 | **44.5** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #100 | **9.8** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #140 | **4.5** | % | | | 1 | | 03/20/25 17:46 | | |
| Sieve #200 | **3.2** | % | | | 1 | | 03/20/25 17:46 | | |

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## QUALITY CONTROL DATA

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

QC Batch: 997375
QC Batch Method: EPA 5030 Medium Soil
Analysis Method: WI MOD GRO
Analysis Description: WIGRO Solid GCV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10727753001, 10727753002

METHOD BLANK: 5203685 Matrix: Solid
Associated Lab Samples: 10727753001, 10727753002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Gasoline Range Organics | mg/kg | ND | 10.0 | 03/20/25 20:11 | |
| a,a,a-Trifluorotoluene (S) | %. | 116 | 80-200 | 03/20/25 20:11 | |

LABORATORY CONTROL SAMPLE & LCSD: 5203686 5203687

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | mg/kg | 50 | 44.3 | 43.4 | 89 | 87 | 80-120 | 2 | 20 | |
| a,a,a-Trifluorotoluene (S) | %. | | | | 122 | 122 | 80-200 | | | |

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## QUALITY CONTROL DATA

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

QC Batch: 997598
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470A Mercury TCLP
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10727753001, 10727753002

METHOD BLANK: 5204654 Matrix: Water
Associated Lab Samples: 10727753001, 10727753002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | ND | 0.60 | 03/25/25 12:31 | |

METHOD BLANK: 5204068 Matrix: Water
Associated Lab Samples: 10727753001, 10727753002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | ND | 0.60 | 03/25/25 12:57 | |

LABORATORY CONTROL SAMPLE: 5204655

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 15 | 15.4 | 103 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5204656 5204657

| Parameter | Units | 10727753001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | ND | 15 | 15 | 15.7 | 15.3 | 104 | 102 | 80-120 | 3 | 20 | |

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## QUALITY CONTROL DATA

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

QC Batch: 997599
QC Batch Method: EPA 3015A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET ICP, TCLP MICRO
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10727753001, 10727753002

METHOD BLANK: 5204658 Matrix: Water
Associated Lab Samples: 10727753001, 10727753002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 0.20 | 03/21/25 14:17 | |
| Barium | mg/L | ND | 0.10 | 03/21/25 14:17 | |
| Cadmium | mg/L | ND | 0.030 | 03/21/25 14:17 | |
| Chromium | mg/L | ND | 0.10 | 03/21/25 14:17 | |
| Lead | mg/L | ND | 0.10 | 03/21/25 14:17 | |
| Selenium | mg/L | ND | 0.20 | 03/21/25 14:17 | |
| Silver | mg/L | ND | 0.10 | 03/21/25 14:17 | |

METHOD BLANK: 5204068 Matrix: Water
Associated Lab Samples: 10727753001, 10727753002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 0.20 | 03/21/25 14:20 | |
| Barium | mg/L | ND | 0.10 | 03/21/25 14:20 | |
| Cadmium | mg/L | ND | 0.030 | 03/21/25 14:20 | |
| Chromium | mg/L | ND | 0.10 | 03/21/25 14:20 | |
| Lead | mg/L | ND | 0.10 | 03/21/25 14:20 | |
| Selenium | mg/L | ND | 0.20 | 03/21/25 14:20 | |
| Silver | mg/L | ND | 0.10 | 03/21/25 14:20 | |

LABORATORY CONTROL SAMPLE: 5204659

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/L | 5 | 4.9 | 98 | 80-120 | |
| Barium | mg/L | 5 | 5.0 | 100 | 80-120 | |
| Cadmium | mg/L | 5 | 5.0 | 101 | 80-120 | |
| Chromium | mg/L | 5 | 4.9 | 98 | 80-120 | |
| Lead | mg/L | 5 | 4.9 | 98 | 80-120 | |
| Selenium | mg/L | 5 | 4.9 | 98 | 80-120 | |
| Silver | mg/L | 2.5 | 2.4 | 96 | 80-120 | |

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## QUALITY CONTROL DATA

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5204660 5204661

| Parameter | Units | 10727753001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | mg/L | ND | 5 | 5 | 5.0 | 5.0 | 99 | 100 | 75-125 | 0 | 20 | |
| Barium | mg/L | 0.26 | 5 | 5 | 5.2 | 5.3 | 100 | 100 | 75-125 | 1 | 20 | |
| Cadmium | mg/L | ND | 5 | 5 | 5.0 | 5.0 | 100 | 100 | 75-125 | 1 | 20 | |
| Chromium | mg/L | ND | 5 | 5 | 4.9 | 5.0 | 99 | 99 | 75-125 | 1 | 20 | |
| Lead | mg/L | ND | 5 | 5 | 4.9 | 4.9 | 98 | 98 | 75-125 | 1 | 20 | |
| Selenium | mg/L | ND | 5 | 5 | 5.0 | 4.9 | 99 | 99 | 75-125 | 1 | 20 | |
| Silver | mg/L | ND | 2.5 | 2.5 | 2.4 | 2.4 | 97 | 98 | 75-125 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

QC Batch: 997136
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10727753001, 10727753002

SAMPLE DUPLICATE: 5202678

| Parameter | Units | 10727671001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 15.9 | 15.5 | 2 | 30 | N2 |

SAMPLE DUPLICATE: 5202679

| Parameter | Units | 10727759001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 16.5 | 17.3 | 5 | 30 | N2 |

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## QUALITY CONTROL DATA

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

QC Batch: 997953
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV TCLP
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10727753001, 10727753002

METHOD BLANK: 5206474 Matrix: Water
Associated Lab Samples: 10727753001, 10727753002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| 1,2-Dichloroethane | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| 1,4-Dichlorobenzene | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| 2-Butanone (MEK) | ug/L | ND | 250 | 03/24/25 15:27 | |
| Benzene | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| Carbon tetrachloride | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| Chlorobenzene | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| Chloroform | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| Tetrachloroethene | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| Trichloroethene | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| Vinyl chloride | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| 1,2-Dichlorobenzene-d4 (S) | %. | 101 | 75-125 | 03/24/25 15:27 | |
| 4-Bromofluorobenzene (S) | %. | 101 | 75-125 | 03/24/25 15:27 | |
| Toluene-d8 (S) | %. | 102 | 75-125 | 03/24/25 15:27 | |

METHOD BLANK: 5204662 Matrix: Solid
Associated Lab Samples: 10727753001, 10727753002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| 1,2-Dichloroethane | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| 1,4-Dichlorobenzene | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| 2-Butanone (MEK) | ug/L | ND | 250 | 03/24/25 15:27 | |
| Benzene | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| Carbon tetrachloride | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| Chlorobenzene | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| Chloroform | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| Tetrachloroethene | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| Trichloroethene | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| Vinyl chloride | ug/L | ND | 25.0 | 03/24/25 15:27 | |
| 1,2-Dichlorobenzene-d4 (S) | %. | 101 | 75-125 | 03/24/25 15:27 | |
| 4-Bromofluorobenzene (S) | %. | 101 | 75-125 | 03/24/25 15:27 | |
| Toluene-d8 (S) | %. | 102 | 75-125 | 03/24/25 15:27 | |

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## QUALITY CONTROL DATA

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

LABORATORY CONTROL SAMPLE: 5206475

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ug/L | 500 | 561 | 112 | 75-125 | |
| 1,2-Dichloroethane | ug/L | 500 | 574 | 115 | 73-125 | |
| 1,4-Dichlorobenzene | ug/L | 500 | 583 | 117 | 75-125 | |
| 2-Butanone (MEK) | ug/L | 2500 | 3080 | 123 | 70-131 | |
| Benzene | ug/L | 500 | 560 | 112 | 75-125 | |
| Carbon tetrachloride | ug/L | 500 | 561 | 112 | 75-125 | |
| Chlorobenzene | ug/L | 500 | 570 | 114 | 75-125 | |
| Chloroform | ug/L | 500 | 568 | 114 | 75-125 | |
| Tetrachloroethene | ug/L | 500 | 568 | 114 | 75-125 | |
| Trichloroethene | ug/L | 500 | 579 | 116 | 68-140 | |
| Vinyl chloride | ug/L | 500 | 494 | 99 | 75-128 | |
| 1,2-Dichlorobenzene-d4 (S) | %. | | | 102 | 75-125 | |
| 4-Bromofluorobenzene (S) | %. | | | 101 | 75-125 | |
| Toluene-d8 (S) | %. | | | 98 | 75-125 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5206476 5206477

| Parameter | Units | 10728146001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ug/L | ND | 500 | 500 | 526 | 570 | 105 | 114 | 38-150 | 8 | 30 | |
| 1,2-Dichloroethane | ug/L | ND | 500 | 500 | 547 | 570 | 109 | 114 | 69-130 | 4 | 30 | |
| 1,4-Dichlorobenzene | ug/L | ND | 500 | 500 | 554 | 575 | 111 | 115 | 67-125 | 4 | 30 | |
| 2-Butanone (MEK) | ug/L | ND | 2500 | 2500 | 2950 | 2920 | 118 | 117 | 62-136 | 1 | 30 | |
| Benzene | ug/L | ND | 500 | 500 | 534 | 560 | 107 | 112 | 72-125 | 5 | 30 | |
| Carbon tetrachloride | ug/L | ND | 500 | 500 | 521 | 570 | 104 | 114 | 70-130 | 9 | 30 | |
| Chlorobenzene | ug/L | ND | 500 | 500 | 540 | 560 | 108 | 112 | 72-125 | 4 | 30 | |
| Chloroform | ug/L | ND | 500 | 500 | 540 | 571 | 108 | 114 | 69-125 | 6 | 30 | |
| Tetrachloroethene | ug/L | ND | 500 | 500 | 524 | 551 | 105 | 110 | 73-125 | 5 | 30 | |
| Trichloroethene | ug/L | ND | 500 | 500 | 534 | 562 | 107 | 112 | 30-150 | 5 | 30 | |
| Vinyl chloride | ug/L | ND | 500 | 500 | 486 | 534 | 97 | 107 | 44-149 | 9 | 30 | |
| 1,2-Dichlorobenzene-d4 (S) | %. | | | | | | 99 | 100 | 75-125 | | | |
| 4-Bromofluorobenzene (S) | %. | | | | | | 99 | 99 | 75-125 | | | |
| Toluene-d8 (S) | %. | | | | | | 98 | 98 | 75-125 | | | |

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## QUALITY CONTROL DATA

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

QC Batch: 499989
QC Batch Method: EPA 3541
Analysis Method: EPA 8082A
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 10727753001, 10727753002

METHOD BLANK: 2856023 Matrix: Solid
Associated Lab Samples: 10727753001, 10727753002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | ND | 50.0 | 03/21/25 18:37 | |
| PCB-1221 (Aroclor 1221) | ug/kg | ND | 50.0 | 03/21/25 18:37 | |
| PCB-1232 (Aroclor 1232) | ug/kg | ND | 50.0 | 03/21/25 18:37 | |
| PCB-1242 (Aroclor 1242) | ug/kg | ND | 50.0 | 03/21/25 18:37 | |
| PCB-1248 (Aroclor 1248) | ug/kg | ND | 50.0 | 03/21/25 18:37 | |
| PCB-1254 (Aroclor 1254) | ug/kg | ND | 50.0 | 03/21/25 18:37 | |
| PCB-1260 (Aroclor 1260) | ug/kg | ND | 50.0 | 03/21/25 18:37 | |
| Decachlorobiphenyl (S) | % | 86 | 55-120 | 03/21/25 18:37 | |
| Tetrachloro-m-xylene (S) | % | 95 | 65-120 | 03/21/25 18:37 | |

LABORATORY CONTROL SAMPLE: 2856024

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | | ND | | | |
| PCB-1221 (Aroclor 1221) | ug/kg | | ND | | | |
| PCB-1232 (Aroclor 1232) | ug/kg | | ND | | | |
| PCB-1242 (Aroclor 1242) | ug/kg | | ND | | | |
| PCB-1248 (Aroclor 1248) | ug/kg | | ND | | | |
| PCB-1254 (Aroclor 1254) | ug/kg | | ND | | | |
| PCB-1260 (Aroclor 1260) | ug/kg | 500 | 366 | 73 | 68-120 | |
| Decachlorobiphenyl (S) | % | | | 71 | 55-120 | |
| Tetrachloro-m-xylene (S) | % | | | 76 | 65-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2856025 2856026

| Parameter | Units | 10727753001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | ND | | | ND | ND | | | | | 20 | |
| PCB-1221 (Aroclor 1221) | ug/kg | ND | | | ND | ND | | | | | 20 | |
| PCB-1232 (Aroclor 1232) | ug/kg | ND | | | ND | ND | | | | | 20 | |
| PCB-1242 (Aroclor 1242) | ug/kg | ND | | | ND | ND | | | | | 20 | |
| PCB-1248 (Aroclor 1248) | ug/kg | ND | | | ND | ND | | | | | 20 | |
| PCB-1254 (Aroclor 1254) | ug/kg | ND | | | ND | ND | | | | | 20 | |
| PCB-1260 (Aroclor 1260) | ug/kg | ND | 514 | 515 | 390 | 378 | 76 | 73 | 45-126 | 3 | 20 | |
| Decachlorobiphenyl (S) | % | | | | | | 73 | 69 | 55-120 | | | |
| Tetrachloro-m-xylene (S) | % | | | | | | 85 | 83 | 65-120 | | | |

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## QUALITY CONTROL DATA

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

QC Batch: 500189
QC Batch Method: EPA 3510
Analysis Method: EPA 8270E
Analysis Description: 8270E TCLP MSSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 10727753001, 10727753002

METHOD BLANK: 2856870 Matrix: Water
Associated Lab Samples: 10727753001, 10727753002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ug/L | ND | 10.0 | 03/25/25 14:23 | |
| 2,4,5-Trichlorophenol | ug/L | ND | 10.0 | 03/25/25 14:23 | |
| 2,4,6-Trichlorophenol | ug/L | ND | 10.0 | 03/25/25 14:23 | |
| 2,4-Dinitrotoluene | ug/L | ND | 10.0 | 03/25/25 14:23 | |
| 2-Methylphenol(o-Cresol) | ug/L | ND | 10.0 | 03/25/25 14:23 | |
| 3&4-Methylphenol(m&p Cresol) | ug/L | ND | 10.0 | 03/25/25 14:23 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 10.0 | 03/25/25 14:23 | |
| Hexachlorobenzene | ug/L | ND | 10.0 | 03/25/25 14:23 | |
| Hexachloroethane | ug/L | ND | 10.0 | 03/25/25 14:23 | |
| Nitrobenzene | ug/L | ND | 10.0 | 03/25/25 14:23 | |
| Pentachlorophenol | ug/L | ND | 10.0 | 03/25/25 14:23 | |
| Pyridine | ug/L | ND | 20.0 | 03/25/25 14:23 | |
| 2,4,6-Tribromophenol (S) | % | 102 | 10-163 | 03/25/25 14:23 | |
| 2-Fluorobiphenyl (S) | % | 79 | 25-130 | 03/25/25 14:23 | |
| Nitrobenzene-d5 (S) | % | 89 | 41-134 | 03/25/25 14:23 | |
| Phenol-d6 (S) | % | 35 | 10-130 | 03/25/25 14:23 | |

METHOD BLANK: 2856713 Matrix: Water
Associated Lab Samples: 10727753001, 10727753002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ug/L | ND | 50.0 | 03/25/25 16:38 | |
| 2,4,5-Trichlorophenol | ug/L | ND | 50.0 | 03/25/25 16:38 | |
| 2,4,6-Trichlorophenol | ug/L | ND | 50.0 | 03/25/25 16:38 | |
| 2,4-Dinitrotoluene | ug/L | ND | 50.0 | 03/25/25 16:38 | |
| 2-Methylphenol(o-Cresol) | ug/L | ND | 50.0 | 03/25/25 16:38 | |
| 3&4-Methylphenol(m&p Cresol) | ug/L | ND | 50.0 | 03/25/25 16:38 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 50.0 | 03/25/25 16:38 | |
| Hexachlorobenzene | ug/L | ND | 50.0 | 03/25/25 16:38 | |
| Hexachloroethane | ug/L | ND | 50.0 | 03/25/25 16:38 | |
| Nitrobenzene | ug/L | ND | 50.0 | 03/25/25 16:38 | |
| Pentachlorophenol | ug/L | ND | 50.0 | 03/25/25 16:38 | |
| Pyridine | ug/L | ND | 100 | 03/25/25 16:38 | |
| 2,4,6-Tribromophenol (S) | % | 94 | 10-163 | 03/25/25 16:38 | |
| 2-Fluorobiphenyl (S) | % | 83 | 25-130 | 03/25/25 16:38 | |
| Nitrobenzene-d5 (S) | % | 84 | 41-134 | 03/25/25 16:38 | |
| Phenol-d6 (S) | % | 31 | 10-130 | 03/25/25 16:38 | |

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## QUALITY CONTROL DATA

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

LABORATORY CONTROL SAMPLE: 2856871

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ug/L | 50 | 39.0 | 78 | 22-130 | |
| 2,4,5-Trichlorophenol | ug/L | 50 | 45.7 | 91 | 59-130 | |
| 2,4,6-Trichlorophenol | ug/L | 50 | 44.1 | 88 | 58-130 | |
| 2,4-Dinitrotoluene | ug/L | 50 | 44.2 | 88 | 70-130 | |
| 2-Methylphenol(o-Cresol) | ug/L | 50 | 38.4 | 77 | 42-130 | |
| 3&4-Methylphenol(m&p Cresol) | ug/L | 50 | 34.3 | 69 | 36-130 | |
| Hexachloro-1,3-butadiene | ug/L | 50 | 37.7 | 75 | 10-130 | |
| Hexachlorobenzene | ug/L | 50 | 48.9 | 98 | 70-142 | |
| Hexachloroethane | ug/L | 50 | 35.4 | 71 | 10-130 | |
| Nitrobenzene | ug/L | 50 | 48.2 | 96 | 66-130 | |
| Pentachlorophenol | ug/L | 50 | 40.1 | 80 | 51-130 | |
| Pyridine | ug/L | 50 | 15.8J | 32 | 34-130 | L2 |
| 2,4,6-Tribromophenol (S) | % | | | 96 | 10-163 | |
| 2-Fluorobiphenyl (S) | % | | | 81 | 25-130 | |
| Nitrobenzene-d5 (S) | % | | | 87 | 41-134 | |
| Phenol-d6 (S) | % | | | 36 | 10-130 | |

MATRIX SPIKE SAMPLE: 2856872

| Parameter | Units | 40292639001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ug/L | <0.018 mg/L | 250 | 203 | 81 | 22-130 | |
| 2,4,5-Trichlorophenol | ug/L | <0.018 mg/L | 250 | 224 | 90 | 10-131 | |
| 2,4,6-Trichlorophenol | ug/L | <0.020 mg/L | 250 | 228 | 91 | 10-130 | |
| 2,4-Dinitrotoluene | ug/L | <0.012 mg/L | 250 | 234 | 94 | 48-130 | |
| 2-Methylphenol(o-Cresol) | ug/L | <0.0077 mg/L | 250 | 194 | 77 | 36-130 | |
| 3&4-Methylphenol(m&p Cresol) | ug/L | <0.0060 mg/L | 250 | 186 | 74 | 20-130 | |
| Hexachloro-1,3-butadiene | ug/L | <0.016 mg/L | 250 | 195 | 78 | 10-130 | |
| Hexachlorobenzene | ug/L | <0.025 mg/L | 250 | 248 | 99 | 51-142 | |
| Hexachloroethane | ug/L | <0.015 mg/L | 250 | 186 | 74 | 10-130 | |
| Nitrobenzene | ug/L | <0.016 mg/L | 250 | 256 | 102 | 50-132 | |
| Pentachlorophenol | ug/L | <0.016 mg/L | 250 | 207 | 83 | 10-137 | |
| Pyridine | ug/L | <0.073 mg/L | 250 | 114 | 46 | 17-130 | |
| 2,4,6-Tribromophenol (S) | % | | | | 101 | 10-163 | |
| 2-Fluorobiphenyl (S) | % | | | | 85 | 25-130 | |
| Nitrobenzene-d5 (S) | % | | | | 91 | 41-134 | |
| Phenol-d6 (S) | % | | | | 40 | 10-130 | |

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

## QUALITY CONTROL DATA

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

QC Batch: 499919
QC Batch Method: WI MOD DRO
Analysis Method: WI MOD DRO
Analysis Description: WIDRO GCS
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 10727753001, 10727753002

METHOD BLANK: 2855492 Matrix: Solid
Associated Lab Samples: 10727753001, 10727753002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Diesel Range Organics | mg/kg | ND | 4.4 | 03/24/25 08:03 | |

LABORATORY CONTROL SAMPLE & LCSD: 2855493 2855494

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics | mg/kg | 40 | 34.4 | 41.0 | 86 | 103 | 70-120 | 18 | 20 | |

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## QUALITY CONTROL DATA

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

QC Batch: 500179
QC Batch Method: EPA 1010
Analysis Method: EPA 1010
Analysis Description: 1010 Flash Point, Closed Cup
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 10727753001, 10727753002

LABORATORY CONTROL SAMPLE: 2856843

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Flashpoint | deg F | | 83 | | | |

SAMPLE DUPLICATE: 2857113

| Parameter | Units | 10727650001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Flashpoint | deg F | >200 | >200 | | | 1M |

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Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

QC Batch: 998316
QC Batch Method: EPA 9045D
Analysis Method: EPA 9045D
Analysis Description: 9045D pH
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10727753001, 10727753002

LABORATORY CONTROL SAMPLE: 5208036

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| pH at 25 Degrees C | Std. Units | 5 | 5.0 | 100 | 98-102 | |

SAMPLE DUPLICATE: 5208037

| Parameter | Units | 10727753002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| pH at 25 Degrees C | Std. Units | 9.2 | 9.2 | 1 | 3 | |

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Minneapolis, MN 55414
(612)607-1700

# QUALIFIERS

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

## 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.

## BATCH QUALIFIERS

Batch: 499891

[1] coarse and fines sieved 3/21/25; assisted by AXH

Batch: 997404

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

## ANALYTE QUALIFIERS

| | |
|---|---|
| 1M | Use of method EPA 1010A for flash point analysis on solid samples is for informational purposes only. It is the user's responsibility to verify the acceptance of this data for intended use. |
| DC | Chromatographic pattern inconsistent with typical Diesel Fuel. |
| L2 | Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low. |
| 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. |



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Minneapolis, MN 55414
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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 30265951 Trane Plant 4
Pace Project No.: 10727753

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| 10727753001 | PLANT4-IDW-01-03182025 | EPA 3541 | 499989 | EPA 8082A | 500008 |
| 10727753002 | PLANT4-IDW-02-03182025 | EPA 3541 | 499989 | EPA 8082A | 500008 |
| 10727753001 | PLANT4-IDW-01-03182025 | WI MOD DRO | 499919 | WI MOD DRO | 499981 |
| 10727753002 | PLANT4-IDW-02-03182025 | WI MOD DRO | 499919 | WI MOD DRO | 499981 |
| 10727753001 | PLANT4-IDW-01-03182025 | EPA 5030 Medium Soil | 997375 | WI MOD GRO | 997404 |
| 10727753002 | PLANT4-IDW-02-03182025 | EPA 5030 Medium Soil | 997375 | WI MOD GRO | 997404 |
| 10727753001 | PLANT4-IDW-01-03182025 | EPA 3015A | 997599 | EPA 6010D | 997711 |
| 10727753002 | PLANT4-IDW-02-03182025 | EPA 3015A | 997599 | EPA 6010D | 997711 |
| 10727753001 | PLANT4-IDW-01-03182025 | EPA 7470A | 997598 | EPA 7470A | 998051 |
| 10727753002 | PLANT4-IDW-02-03182025 | EPA 7470A | 997598 | EPA 7470A | 998051 |
| 10727753001 | PLANT4-IDW-01-03182025 | ASTM D2974 | 997136 | | |
| 10727753002 | PLANT4-IDW-02-03182025 | ASTM D2974 | 997136 | | |
| 10727753001 | PLANT4-IDW-01-03182025 | EPA 3510 | 500189 | EPA 8270E | 500220 |
| 10727753002 | PLANT4-IDW-02-03182025 | EPA 3510 | 500189 | EPA 8270E | 500220 |
| 10727753001 | PLANT4-IDW-01-03182025 | EPA 8260D | 997953 | | |
| 10727753002 | PLANT4-IDW-02-03182025 | EPA 8260D | 997953 | | |
| 10727753001 | PLANT4-IDW-01-03182025 | EPA 1010 | 500179 | | |
| 10727753002 | PLANT4-IDW-02-03182025 | EPA 1010 | 500179 | | |
| 10727753001 | PLANT4-IDW-01-03182025 | EPA 9045D | 998316 | | |
| 10727753002 | PLANT4-IDW-02-03182025 | EPA 9045D | 998316 | | |
| 10727753001 | PLANT4-IDW-01-03182025 | ASTM D6913 | 499891 | | |
| 10727753002 | PLANT4-IDW-02-03182025 | ASTM D6913 | 499891 | | |



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Pace® Location Requested (City/State):

# CHAIN-OF-CUSTODY Analytical Request Document

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

**WO# : 10727753**

10727753

| | |
|---|---|
| Company Name: Arcadis | Contact/Report To: Jim Ziska |
| Street Address: 331 2nd Avenue S Suite 600C Minneapolis, MN 55401 | Phone #: 815-302-9052 |
| | E-Mail: james.ziska@arcadis.com |
| | Cc E-Mail: |
| Customer Project #: 30205951 | Invoice to: Accts payable |
| Project Name: Trane Plant 4 | Invoice E-mail: invoices_US@arcadis.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): La Crosse County / WI |
| Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other | Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No |
| | Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day Other 5 day. Date Results Requested: |
| | DW PWSID # or WW Permit # as applicable: Field Filtered (if applicable) [ ] Yes [X] No. Analysis: |

Specify Container Size **: 6

Identify Container Preservative Type***: 1 1 10 1 1 1 1

(1) 500mL, (2) 250mL, (3) 125mL, (4) 100mL, (5) 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 | TCLP Metal /Svoc/Voc | DRO by WI-DRO | GRO by WI-GRO | PCB / pH | Grainsize | Flashpoint | Moisture / Dry weight | Sample Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PLANT4-IDW-01-03182025 | SS | G | | | 3/18/25 | 1115 | 10 | | | X | X | X | X | X | X | X | 001 |
| PLANT4-IDW-02-03182025 | SS | G | | | ↓ | 1200 | 10 | | | X | X | X | X | X | X | X | 002 |

Lab Use Only: Proj. Mgr: / AcctNum / Client ID: / Table #: / Profile / Template: / Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample:

Additional Instructions from Pace®:

Collected By: Printed Name: Kate Blanock. Signature: Kate Blanock

Customer Remarks / Special Conditions / Possible Hazards:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C): | Corrected Temp. (°C): | [ ] On Ice |
|---|---|---|---|---|---|
| 1 | T13 | -0.1 | 2.1 | 2.0 | Y |

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Tracking Number: |
|---|---|---|---|---|
| Kate Blanock / Arcadis | 3/18/25 1640 | [illegible] / Pace | 3-18-25 1640 | |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | Delivered by: [ ] In-Person [ ] Courier |
| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: | [ ] 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-MIN4-0150 v19_Sample Condition Upon Receipt

Person Examining & Date: LOJ 3/18/25 PROJECT #: **WO#: 10727753**

PM: BN2 Due Date: 04/02/25
CLIENT: ARCADIS

Client Name: Arcadis

Custody Seal Present: ☐ YES ☒ NO Seals Intact: ☐ YES ☒ NO

Tracking Number: ☐ See Exceptions form ENV-FRM-MIN4-0142.

Courier: ☒ Client ☐ Commercial ☐ FedEx ☐ Pace Courier/Field ☐ SpeeDee ☐ UPS ☐ USPS

Packing Material: ☒ Bubble Bags ☒ Bubble Wrap ☐ None ☐ Other: Biological Tissue Frozen: ☐ YES ☒ NO

Thermometer: ☐ T1 (0461) ☐ T2 (0431) ☒ T3 (0459) ☐ T4 (0402) ☐ T5 (0187) ☐ T6 (0396) ☐ T7 (0377) ☐ T8 (0775) ☐ T9 (0428) ☐ 01339252 (0710)

Type of Ice: ☐ Blue ☐ Dry ☒ Wet ☐ Melted ☐ None

Temp Blank: ☒ YES ☐ NO

*NOTE: Temp should be ≤ 6°C, but above freezing.*

Read Temp w/Temp Blank: 2.1 °C
Correction Factor: -0.1
Corrected Temp w/Temp Blank: 2.0 °C

Did Samples Originate in West Virginia: ☐ YES ☒ NO (list temps on exception)
Were All Container Temps Taken: ☐ YES ☐ NO ☒ N/A
Average Corrected Temp (No Temp Blank Only):
☐ See Exceptions form ENV-FRM-MIN4-0142. ☐ 1 Container

USDA Regulated Soil: ☐ N/A – Water Sample/Other (describe): Soil

Did Samples originate from one of the following states (check maps): ☐ YES ☒ NO
Circle State: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, VA

Are samples from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☒ NO

*NOTE: 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 | YES | NO | N/A | COMMENT(S) |
|---|---|---|---|---|
| Chain of Custody Present and Filled Out? (i.e., Analysis/ID/Date/Time) | ☒ | ☐ | | 1. |
| Chain of Custody Relinquished? | ☒ | ☐ | | 2. |
| Sampler Name and/or Signature on COC? | ☒ | ☐ | ☐ | 3. |
| Samples Arrived within Hold Time? If Fecal: ☐ <8 hrs ☐ >8 hr but <24 hr ☐ >24 hr | ☒ | ☐ | | 4. |
| Short Hold Time Analysis (<72 hr)? | ☐ | ☒ | | 5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Turbidity ☐ Other: |
| Rush Turn Around Time Requested? | ☒ | ☐ | | 6. ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☒ 5 Day Due Date: |
| Sufficient Sample Volume? (If NO, list approximate volume in section 7.) | ☒ | ☐ | | 7. |
| Correct Containers Used? – Pace Containers Used? | ☒ ☒ | ☐ ☐ | ☐ | 8. SI, 2:2JTFU, 4JGFU, 1DWC, 1LGEPLB, 2VG9M |
| Containers Intact? | ☒ | ☐ | | 9. |
| Field Filtered Volume Received for Dissolved Tests? | ☐ | ☐ | ☒ | 10. Is sediment visible in the dissolved container: ☐ YES ☐ NO |
| ID/Date/Time Match? (If NO, fill out section 11.) Matrix: ☐ Oil ☒ Soil ☐ Water ☐ Other | ☒ | ☐ | ☐ | 11. ☐ See Exceptions form ENV-FRM-MIN4-0142 |
| All containers needing acid/base preservation have been checked? | ☐ | ☐ | ☒ | 12. |

Sample #:
☐ HNO3 ☐ H2SO4 LOJ 3/18/25 ☐ NaOH ☐ Zinc Acetate

pH Paper Lot #:
☐ Residual Chlorine ☐ 0-6 Roll ☐ 0-6 Strip ☐ 0-14 Strip

Positive for Residual Chlorine (NaOH containers only): ☐ YES ☐ NO

| | | | | |
|---|---|---|---|---|
| Preserved containers in compliance with EPA recommendations? (HNO3, H2SO4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) | ☐ | ☐ | ☒ | ☐ See Exceptions form ENV-FRM-MIN4-0142 |
| EXCECTIONS (water only): VOA, Coliform, TOC/DOC, Oil & Grease, Phenols, DRO/8015, Dioxins, and PFAS | ☐ | ☐ | ☒ | |
| Extra labels present on soil VOA or WIDRO containers? (soil only) | ☒ | ☐ | ☒ | 13. LOJ 3/18/25 |
| Headspace in Methyl Mercury Container? | ☐ | ☐ | ☒ | 14. |
| Headspace in VOA Vials (greater than 6mm)? | ☐ | ☐ | ☒ | ☐ See Exceptions form ENV-FRM-MIN4-0140 |
| Trip Blanks Present? LOJ 3/18/25 | ☐ | ☒ | ☒ | 15. |
| Trip Blank Custody Seals Present? | ☐ | ☐ | ☒ | Pace Trip Blank Lot # (if purchased): |

CLIENT NOTIFICATION / RESOLUTION:

Labeled By: LOJ Line: 3

Person Contacted & Date/Time: PM Review & Date: Bryan Nguyen 03/19/25

*NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office.*

40292523

# Internal Transfer Chain of Custody

Pace

☐ Rush Multiplier____X
☒ Samples Pre-Logged into eCOC

**State Of Origin:** WI
**Cert. Needed:** ☒ Yes ☐ No

**Workorder:** 10727753 **Workorder Name:** 30265951 Trane Plant 4

**Owner Received Date:** 3/18/2025 **Results Requested By:** 3/26/2025

| Report To | Subcontract To |
|---|---|
| Bryan Nguyen<br>Pace Analytical Minnesota<br>1700 Elm Street<br>Minneapolis, MN 55414<br>Phone 612-656-2286 | Pace Analytical Green Bay<br>1241 Bellevue Street<br>Suite 9<br>Green Bay, WI 54302<br>Phone (920)469-2436 |

(2) JGFU / (1) ZPLU / (2) JTFU

| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Preserved Containers: Unpreserved | | | | | | Flashpoint | Grain Size (P200 sieve) | PCB | TCLP SVOC | WI-DRO | | | | | | | | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PLANT4-IDW-01-03182025 | PS | 3/18/2025 11:15 | 10727753001 | Solid | 5 | | | | | | X | X | X | X | X | | | | | | | | 001 |
| 2 | PLANT4-IDW-02-03182025 | PS | 3/18/2025 12:00 | 10727753002 | Solid | 5 | | | | | | X | X | X | X | X | | | | | | | | 002 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |

| Transfers | Released By | Date/Time | Received By | Date/Time |
|---|---|---|---|---|
| 1 | [illegible] 3/19/25 | 16:00 | | |
| 2 | Fed Ex | 3/20/25 1255 | [illegible] PACE | 3/20/25 1255 |
| 3 | | | | |

**Comments**

**Cooler Temperature on Receipt** 0.0 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In 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.*

Client Name: Pace MN

## Sample Preservation Receipt Form

Project # 40292523

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:

| 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 | | | | | | | | | | | | | | | | | | | | 4 | | | | | 1 | | | | | | | | | | 2.5 / 5 |
| 002 | | | | | | | | | | | | | | | | | | | | 4 | | | | | 1 | | | | | | | | | | 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 |

MCH 3/20/25

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)

Project #:

WO# : 40292523

40292523

**Client Name:** Pace MN

**Courier:** ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Purple Mountain ☐ Client ☐ Pace Other:

**Tracking #:** 4243 5578 5620

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

**Cooler Temperature** Uncorr: /Corr:

**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: 3/20/25 Initials: MCH

**Labeled By Initials:** MA

| | | |
|---|---|---|
| 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. IRWO MCH 3/20/25 |
| 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 ☐

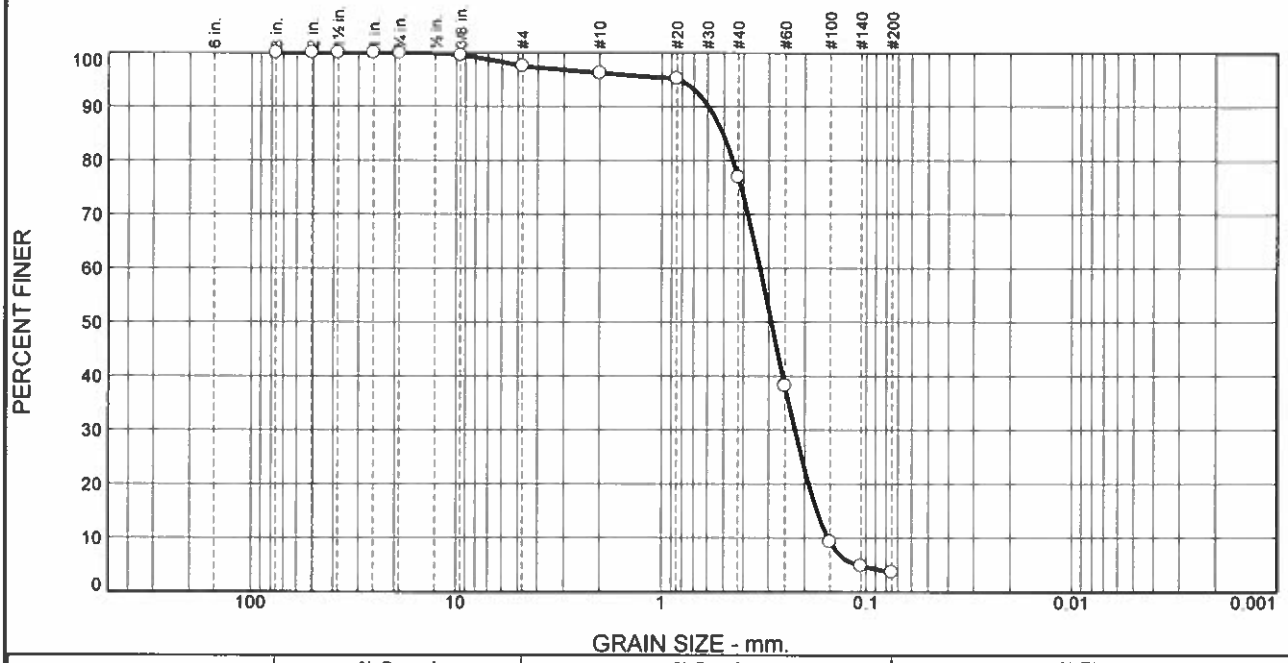
Person Contacted: Date/Time:

Comments/ Resolution:

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

Page 2 of 2

# Particle Size Distribution Report




| % +3" | % Gravel | | % Sand | | | % Fines | |
|---|---|---|---|---|---|---|---|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 2.5 | 1.3 | 19.3 | 73.3 | 3.6 | |

**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" | 99.5 | | |
| #4 | 97.5 | | |
| #10 | 96.2 | | |
| #20 | 95.2 | | |
| #40 | 76.9 | | |
| #60 | 38.2 | | |
| #100 | 9.2 | | |
| #140 | 4.8 | | |
| #200 | 3.6 | | |

* (no specification provided)

**Material Description**

Manual description: somewhat moist, loose, sand; rocks
Geosystems description: poorly graded sand

**Atterberg Limits (ASTM D 4318)**

PL= NP LL= NV PI= NP

**Classification**

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

**Coefficients**

$D_{90}$= 0.5938 $D_{85}$= 0.5051 $D_{60}$= 0.3307
$D_{50}$= 0.2908 $D_{30}$= 0.2234 $D_{15}$= 0.1739
$D_{10}$= 0.1537 $C_u$= 2.15 $C_c$= 0.98

**Remarks**

Batch 57691, HBN 499891; coarse and fines sieved 3/21/25; assisted by AXH

**Date Received:** 3/20/25 **Date Tested:** 3/21/25

**Tested By:** Sam Gellerup

**Checked By:** Brandy Mahoney

**Title:** Scientist

**Location:** PLANT4-IDW-01-03182025
**Sample Number:** 10727753-001

**Date Sampled:** 3/18/25

**Pace Analytical Services, Inc.**

**Green Bay, WI**

**Client:**
**Project:**

**Project No:** 10727753 **Figure**

## GRAIN SIZE DISTRIBUTION TEST DATA

3/21/2025

**Project Number:** 10727753
**Location:** PLANT4-IDW-01-03182025
**Sample Number:** 10727753-001
**Material Description:** Manual description: somewhat moist, loose, sand; rocks
Geosystems description: poorly graded sand
**Sample Date:** 3/18/25
**Date Received:** 3/20/25 **PL:** NP **LL:** NV **PI:** NP
**USCS Classification:** SP **AASHTO Classification:** A-3
**Grain Size Test Method:** D6913 mod - Sieve Only
**Testing Remarks:** Batch 57691, HBN 499891; coarse and fines sieved 3/21/25; assisted by AXH
**Tested By:** Sam Gellerup **Test Date:** 3/21/25
**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 |
|---|---|---|---|---|---|
| 896.23 | 547.90 | 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" | 1.63 | 0.00 | 99.5 |
| | | #4 | 7.10 | 0.00 | 97.5 |
| | | #10 | 4.42 | 0.00 | 96.2 |
| | | #20 | 3.61 | 0.00 | 95.2 |
| | | #40 | 63.55 | 0.00 | 76.9 |
| | | #60 | 134.83 | 0.00 | 38.2 |
| | | #100 | 100.98 | 0.00 | 9.2 |
| | | #140 | 15.39 | 0.00 | 4.8 |
| | | #200 | 4.20 | 0.00 | 3.6 |

### Fractional Components

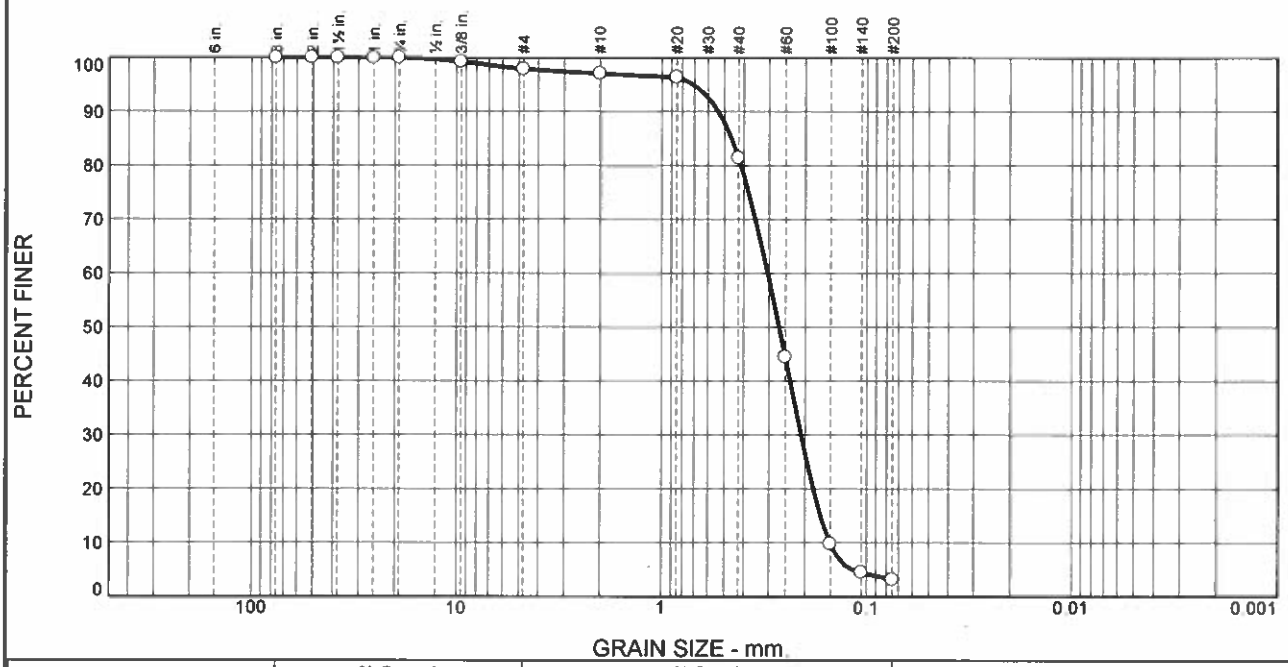
| Cobbles | Gravel | | | Sand | | | | Fines | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Coarse | Fine | Total | Coarse | Medium | Fine | Total | Silt | Clay | Total |
| 0.0 | 0.0 | 2.5 | 2.5 | 1.3 | 19.3 | 73.3 | 93.9 | | | 3.6 |

| $D_5$ | $D_{10}$ | $D_{15}$ | $D_{20}$ | $D_{30}$ | $D_{40}$ | $D_{50}$ | $D_{60}$ | $D_{80}$ | $D_{85}$ | $D_{90}$ | $D_{95}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.1104 | 0.1537 | 0.1739 | 0.1911 | 0.2234 | 0.2558 | 0.2908 | 0.3307 | 0.4504 | 0.5051 | 0.5938 | 0.8291 |

| Fineness Modulus | $C_u$ | $C_c$ |
|---|---|---|
| 1.59 | 2.15 | 0.98 |

Pace Analytical Services, Inc.

# Particle Size Distribution Report




| % +3" | % Gravel | | % Sand | | | % Fines | |
|---|---|---|---|---|---|---|---|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 2.2 | 0.8 | 15.6 | 78.2 | 3.2 | |

**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" | 99.2 | | |
| #4 | 97.8 | | |
| #10 | 97.0 | | |
| #20 | 96.3 | | |
| #40 | 81.4 | | |
| #60 | 44.5 | | |
| #100 | 9.8 | | |
| #140 | 4.5 | | |
| #200 | 3.2 | | |

* (no specification provided)

**Material Description**

Manual description: somewhat moist, loose, sand; rocks
Geosystems description: poorly graded sand

**Atterberg Limits (ASTM D 4318)**

PL= NP LL= NV PI= NP

**Classification**

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

**Coefficients**

$D_{90}$= 0.5350 $D_{85}$= 0.4609 $D_{60}$= 0.3042
$D_{50}$= 0.2677 $D_{30}$= 0.2090 $D_{15}$= 0.1678
$D_{10}$= 0.1510 $C_u$= 2.01 $C_c$= 0.95

**Remarks**

Batch 57691, HBN 499891; coarse and fines sieved 3/21/25; assisted by AXH

**Date Received:** 3/20/25 **Date Tested:** 3/21/25

**Tested By:** Sam Gellerup

**Checked By:** Brandy Mahoney

**Title:** Scientist

**Location:** PLANT4-IDW-02-03182025
**Sample Number:** 10727753-002

**Date Sampled:** 3/18/25

**Pace Analytical Services, Inc.**

**Green Bay, WI**

**Client:**
**Project:**

**Project No:** 10727753 **Figure**

## GRAIN SIZE DISTRIBUTION TEST DATA

3/21/2025

**Project Number:** 10727753
**Location:** PLANT4-IDW-02-03182025
**Sample Number:** 10727753-002
**Material Description:** Manual description: somewhat moist, loose, sand; rocks
Geosystems description: poorly graded sand
**Sample Date:** 3/18/25
**Date Received:** 3/20/25 **PL:** NP **LL:** NV **PI:** NP
**USCS Classification:** SP **AASHTO Classification:** A-3
**Grain Size Test Method:** D6913 mod - Sieve Only
**Testing Remarks:** Batch 57691, HBN 499891; coarse and fines sieved 3/21/25; assisted by AXH
**Tested By:** Sam Gellerup **Test Date:** 3/21/25
**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 |
|---|---|---|---|---|---|
| 919.43 | 558.92 | 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" | 2.73 | 0.00 | 99.2 |
| | | #4 | 5.03 | 0.00 | 97.8 |
| | | #10 | 2.95 | 0.00 | 97.0 |
| | | #20 | 2.53 | 0.00 | 96.3 |
| | | #40 | 53.88 | 0.00 | 81.4 |
| | | #60 | 133.08 | 0.00 | 44.5 |
| | | #100 | 125.13 | 0.00 | 9.8 |
| | | #140 | 18.99 | 0.00 | 4.5 |
| | | #200 | 4.83 | 0.00 | 3.2 |

### Fractional Components

| Cobbles | Gravel | | | Sand | | | | Fines | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Coarse | Fine | Total | Coarse | Medium | Fine | Total | Silt | Clay | Total |
| 0.0 | 0.0 | 2.2 | 2.2 | 0.8 | 15.6 | 78.2 | 94.6 | | | 3.2 |

| $D_5$ | $D_{10}$ | $D_{15}$ | $D_{20}$ | $D_{30}$ | $D_{40}$ | $D_{50}$ | $D_{60}$ | $D_{80}$ | $D_{85}$ | $D_{90}$ | $D_{95}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.1172 | 0.1510 | 0.1678 | 0.1821 | 0.2090 | 0.2367 | 0.2677 | 0.3042 | 0.4135 | 0.4609 | 0.5350 | 0.7081 |

| Fineness Modulus | $C_u$ | $C_c$ |
|---|---|---|
| 1.48 | 2.01 | 0.95 |

Pace Analytical Services, Inc.

# 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) 160 E 6th Street (Kwik Trip #754)
4. Generator City St Charles
5. Generator State/Zip MN 55972
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
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 5/23/2025

## 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 Rd
   West Salem, WI 54669

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 Jerke / 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 Jason Powell

10. Title Environmental Project Manager

11. Name (Type or print) Jason T. Powell/Kwik Trip, Inc.

12. Date 5/28/2025

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

May 23, 2025

Kevin Nestingen
Kwik Trip
1813 Kramer St
La Crosse, WI 54603

RE: Project: KT #754
Pace Project No.: 40295563

Dear Kevin Nestingen:

Enclosed are the analytical results for sample(s) received by the laboratory on May 22, 2025. 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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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: KT #754
Pace Project No.: 40295563

**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 #754
Pace Project No.: 40295563

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **40295563001** | **LF-1** | Solid | 05/21/25 13:00 | 05/22/25 09:00 |

**REPORT OF LABORATORY ANALYSIS**

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

## SAMPLE ANALYTE COUNT

Project: KT #754
Pace Project No.: 40295563

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **40295563001** | **LF-1** | WI MOD GRO | KHB | 1 |
| | | EPA 8260 | ALD | 13 |
| | | ASTM D2974-87 | IRA | 1 |

PASI-G = Pace Analytical Services - Green Bay

## 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: KT #754
Pace Project No.: 40295563

**Sample: LF-1** **Lab ID: 40295563001** Collected: 05/21/25 13:00 Received: 05/22/25 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 | 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 | | | | | | | | |
| Gasoline Range Organics | **54.0** | mg/kg | 5.9 | 2.9 | 2 | 05/22/25 10:00 | 05/22/25 14:33 | | G+ |
| **8260 MSV Med Level Short List** | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **177** | ug/kg | 28.5 | 16.9 | 1 | 05/22/25 14:00 | 05/22/25 17:10 | 71-43-2 | |
| Ethylbenzene | **957** | ug/kg | 71.2 | 16.9 | 1 | 05/22/25 14:00 | 05/22/25 17:10 | 100-41-4 | |
| Methyl-tert-butyl ether | **<20.9** | ug/kg | 71.2 | 20.9 | 1 | 05/22/25 14:00 | 05/22/25 17:10 | 1634-04-4 | |
| Naphthalene | **791** | ug/kg | 356 | 29.9 | 1 | 05/22/25 14:00 | 05/22/25 17:10 | 91-20-3 | |
| Toluene | **2980** | ug/kg | 71.2 | 17.9 | 1 | 05/22/25 14:00 | 05/22/25 17:10 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | **2790** | ug/kg | 71.2 | 21.2 | 1 | 05/22/25 14:00 | 05/22/25 17:10 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **1310** | ug/kg | 71.2 | 22.9 | 1 | 05/22/25 14:00 | 05/22/25 17:10 | 108-67-8 | |
| Xylene (Total) | **5930** | ug/kg | 214 | 51.4 | 1 | 05/22/25 14:00 | 05/22/25 17:10 | 1330-20-7 | |
| m&p-Xylene | **4030** | ug/kg | 142 | 30.0 | 1 | 05/22/25 14:00 | 05/22/25 17:10 | 179601-23-1 | |
| o-Xylene | **1900** | ug/kg | 71.2 | 21.4 | 1 | 05/22/25 14:00 | 05/22/25 17:10 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 119 | % | 56-189 | | 1 | 05/22/25 14:00 | 05/22/25 17:10 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 113 | % | 58-188 | | 1 | 05/22/25 14:00 | 05/22/25 17:10 | 460-00-4 | |
| Toluene-d8 (S) | 120 | % | 70-172 | | 1 | 05/22/25 14:00 | 05/22/25 17:10 | 2037-26-5 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **14.8** | % | 0.10 | 0.10 | 1 | | 05/22/25 12:55 | | |

## 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 #754
Pace Project No.: 40295563

QC Batch: 505522
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: 40295563001

METHOD BLANK: 2885404 Matrix: Solid
Associated Lab Samples: 40295563001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | mg/kg | <1.2 | 2.5 | 1.2 | 05/22/25 11:11 | |
| a,a,a-Trifluorotoluene (S) | % | 101 | 80-120 | | 05/22/25 11:11 | |

LABORATORY CONTROL SAMPLE & LCSD: 2885405 2885406

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | mg/kg | 10 | 9.6 | 11.1 | 96 | 111 | 80-120 | 15 | 20 | |
| a,a,a-Trifluorotoluene (S) | % | | | | 101 | 100 | 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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Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: KT #754
Pace Project No.: 40295563

QC Batch: 505607
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: 40295563001

METHOD BLANK: 2885757 Matrix: Solid
Associated Lab Samples: 40295563001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ug/kg | <14.9 | 50.0 | 14.9 | 05/22/25 16:31 | |
| 1,3,5-Trimethylbenzene | ug/kg | <16.1 | 50.0 | 16.1 | 05/22/25 16:31 | |
| Benzene | ug/kg | <11.9 | 20.0 | 11.9 | 05/22/25 16:31 | |
| Ethylbenzene | ug/kg | <11.9 | 50.0 | 11.9 | 05/22/25 16:31 | |
| m&p-Xylene | ug/kg | <21.1 | 100 | 21.1 | 05/22/25 16:31 | |
| Methyl-tert-butyl ether | ug/kg | <14.7 | 50.0 | 14.7 | 05/22/25 16:31 | |
| Naphthalene | ug/kg | <21.0 | 250 | 21.0 | 05/22/25 16:31 | |
| o-Xylene | ug/kg | <15.0 | 50.0 | 15.0 | 05/22/25 16:31 | |
| Toluene | ug/kg | <12.6 | 50.0 | 12.6 | 05/22/25 16:31 | |
| Xylene (Total) | ug/kg | <36.1 | 150 | 36.1 | 05/22/25 16:31 | |
| 1,2-Dichlorobenzene-d4 (S) | % | 98 | 56-189 | | 05/22/25 16:31 | |
| 4-Bromofluorobenzene (S) | % | 95 | 58-188 | | 05/22/25 16:31 | |
| Toluene-d8 (S) | % | 102 | 70-172 | | 05/22/25 16:31 | |

LABORATORY CONTROL SAMPLE: 2885758

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Benzene | ug/kg | 2500 | 2770 | 111 | 70-130 | |
| Ethylbenzene | ug/kg | 2500 | 2710 | 108 | 70-130 | |
| m&p-Xylene | ug/kg | 5000 | 5320 | 106 | 70-130 | |
| Methyl-tert-butyl ether | ug/kg | 2500 | 2460 | 99 | 70-130 | |
| o-Xylene | ug/kg | 2500 | 2580 | 103 | 70-130 | |
| Toluene | ug/kg | 2500 | 2700 | 108 | 70-130 | |
| Xylene (Total) | ug/kg | 7500 | 7900 | 105 | 70-130 | |
| 1,2-Dichlorobenzene-d4 (S) | % | | | 108 | 56-189 | |
| 4-Bromofluorobenzene (S) | % | | | 106 | 58-188 | |
| Toluene-d8 (S) | % | | | 109 | 70-172 | |

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

## QUALITY CONTROL DATA

Project: KT #754
Pace Project No.: 40295563

QC Batch: 505581
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: 40295563001

SAMPLE DUPLICATE: 2885652

| Parameter | Units | 40295492001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 7.8 | 7.4 | 6 | 10 | |

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

# QUALIFIERS

Project: KT #754
Pace Project No.: 40295563

## 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

| | |
|---|---|
| G+ | Late peaks present outside the GRO window. |

## REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KT #754
Pace Project No.: 40295563

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **40295563001** | **LF-1** | TPH GRO/PVOC WI ext. | 505522 | WI MOD GRO | 505565 |
| **40295563001** | **LF-1** | EPA 5035/5030B | 505607 | EPA 8260 | 505609 |
| **40295563001** | **LF-1** | ASTM D2974-87 | 505581 | | |



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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: 40295563

**ALL SHADED AREAS are for LAB USE ONLY**

| | |
|---|---|
| Company: Kwik Trip, Inc | Billing Information: Kwik Trip, Inc. |
| Address: | |
| Report To: | Email To: |
| Copy To: | Site Collection Info/Address: |
| Customer Project Name/Number: KT # 754 | State: MN / County/City: St Charles / Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET |
| Phone: 608 791-3482 Email: jtpowell@kwiktrip.com | Site/Facility ID #: / Compliance Monitoring? [ ] Yes [X] No |
| Collected By (print): Jason Powell | Purchase Order #: M297536092 Quote #: / DW PWS ID #: / DW Location Code: |
| Collected By (signature): J Powell | Turnaround Date Required: 5-23-25 / Immediately Packed on Ice: [X] Yes [ ] No |
| Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____ | Rush: [ ] Same Day [X] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [X] 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 **: 6

Analyses: GRO / PVOC + Naph

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 _____

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 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 | | |

Client Name: Kwik Trip

**Sample Preservation Receipt Form**

Project # 402955563

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 | | | | | | | | | | | | | | | | | | 2 | | | | | 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 |

MeOH 5/22/28

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# : 40295563**

40295563

**Client Name:** Kwik Trip

**Courier:** ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Purple Mountain ☐ Client ☐ Pace Other: _____

**Tracking #:** 8161 1222 3130

**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 - 148 **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: 5/22/25 /Initials: MCH

**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: S | ☐Yes ☒No ☐N/A | 12. no date/time on WPFU sma 5/22/25 |
| 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 logir**

Page 2 of 2

BRAUN INTERTEC
The Science You Build On.

# 200 Sieve Loss By Washing

**ASTM D1140**

**Report Date:** 05/05/2025

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

**Client:**

Kwik Trip, Incorporated
1626 Oak Street
Lacrosse, WI 54603

**Project:**

B2503843
Kwik trip Store #754 - Soil Testing
160 East 6th Street
Saint Charles, MN 55972

## Sample Information

| | | | |
|---|---|---|---|
| **Sample Number:** | 652149 | **Source:** | Not given |
| **Sampling Method:** | Not Provided | **Sampled By:** | Client |
| **Location:** | Not Given | | |
| **Specification:** | For Informational Purposes Only | | |
| **Sample Date:** | 04/30/2025 | **Material:** | Not Given |
| **Received Date:** | 05/01/2025 | **Lab:** | 2309 Palace Street, La Crosse, WI |
| **Tested Date:** | 05/01/2025 | **Tested By:** | Felker, Timothy |

## Laboratory Data

| | | | |
|---|---|---|---|
| **Loss By Washing (%):** | 5.4 | **Method Used:** | Method A Soak In Water |
| **Maximum Particle Size:** | Finer than 4.75 mm (No. 4) | **Soaking Time (min):** | 10 |
| **Soil Classification:** | SP-SM Poorly graded sand with silt | | |

## General

**Results:** The test is for informational purposes.

Timothy Felker 05/05/2025

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 United States Army-Fort McCoy
2. Generator Mailing Address 2171 South 8th Avenue
   Fort McCoy, WI 54656
3. Facility Address (site of waste generation) 2960 West 13th Avenue
4. Generator City Fort McCoy
5. Generator State/Zip Wisconsin/54656
6. General Contact Person Jeffrey Beaty
   Phone # and email 502-898-8034/jeffrey.j.beaty.civ@army.mil
7. Technical Contact Person Jeffrey Beaty
   Phone # and email 502-898-8034/jeffrey.j.beaty.civ@army.mil

---

1. Name of Waste B2960 POL Contaminated Soil
2. Process Generating Waste Clean-up of petroleum spills
3. Waste Color Brown/Tan/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 |
|---|---|
| Solids = 94.5% | _____ to _____% |
| Sieve Analysis (P200) = 9.8 | _____ to _____% |
| TCLP Benzene =<10ug/L or .010mg/L | _____ to _____% |
| WI GRO = 1800 ug/Kg or 1.8mg/Kg | _____ to _____% |
| WI DRO = 860mg/Kg | _____ 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 Chicago
11. Date of Analysis 27 Aug-11 Sep 2025

## 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_____

3. Hauler Name and Address Gerke Excavation (608-372-4203)
   15431 State Highway 131
   Tomah, WI 54660

4. Bill to Name and Address CCS King George 2 LLC
   2218 Recycling Road
   Fort McCoy, WI 54656

**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 Wanserski / Oper 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 YAEGER.AARON.JAMES.1267504500 Digitally signed by YAEGER.AARON.JAMES.1267504500 Date: 2025.09.25 12:25:31 -05'00'

10. Title Chief, Environmental Compliance Branch

11. Name (Type or print) Aaron Yaeger

12. Date 25-Sep-2025

eurofins | Environment Testing

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Jeff Beaty
US Army
2171 S. 8th Avenue.
Fort McCoy, Wisconsin 54656

Generated 9/11/2025 3:26:01 PM

## JOB DESCRIPTION

Fort McCoy - Soils Total/TCLP

## JOB NUMBER

500-273743-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

## Job Notes

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

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

## Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

## Authorization



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9/11/2025 3:26:01 PM

Authorized for release by
Steve Mleczko, Project Manager II
Steve.Mleczko@et.eurofinsus.com
(708)534-5200

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**Job Narrative**
**500-273743-1**

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

**Receipt**
The samples were received on 8/28/2025 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C.

**GC/MS VOA**
Method 8260D: The continuing calibration verification (CCV) analyzed in 500-832878 was above the method criteria for the following analyte(s): Hexachlorobutadiene, Naphthalene, 1,1,1,2-Tetrachloroethane and 1,2,4-Trichlorobenzene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The method blank for analytical batch 500-832878 contained Chloroform above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The laboratory control sample (LCS) for 832295 recovered outside control limits for Bromomethane, Chloroethane. This is a prepped 5035 LCS. All daily instrument LCS were acceptable, and the data have been reported.(LCS 500-832295/22-A)

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

**GC/MS Semi VOA**
Method 8270E: The continuing calibration verification (CCV) analyzed in 500-832192 was above the method criteria for the following analyte(s): Benzo[b]fluoranthene, Diethyl phthalate, Indeno[1,2,3-cd]pyrene, 2-Nitroaniline, Nitrobenzene, Nitrobenzene-d5 (Surr) and 2,4,6-Tribromophenol (Surr). As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-832192 was below the method criteria for the following analyte(s): Hexachlorocyclopentadiene, 4-Nitrophenol and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following sample was diluted due to the nature of the sample matrix: Wash Rack (500-273743-1). Elevated reporting limits (RLs) are provided.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-832190 was above the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene, 2-Nitroaniline, N-Nitrosodi-n-propylamine, 2,2'-oxybis[1-chloropropane], Phenol and Pyridine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The laboratory control sample (LCS) for preparation batch 500-832145 and analytical batch 500-832190 recovered outside control limits for the following analytes: 2,4-Dimethylphenol, 2,2'-oxybis[1-chloropropane] and Pyridine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-832190 was below the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any

detection for the affected analyte(s) is considered estimated.

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

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

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

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

**Metals**
Method 6010D - TCLP: The method blank for preparation batch 500-832354 and 500-832598 and analytical batch 500-832922 contained Barium, Chromium and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

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

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

## Client Sample ID: Wash Rack

## Lab Sample ID: 500-273743-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.026 | J | 0.061 | 0.018 | mg/Kg | 50 | ☼ | 8260D | Total/NA |
| 1,3,5-Trimethylbenzene | 0.022 | J | 0.061 | 0.018 | mg/Kg | 50 | ☼ | 8260D | Total/NA |
| Benzo[a]anthracene | 0.056 | J | 0.070 | 0.015 | mg/Kg | 2 | ☼ | 8270E | Total/NA |
| Bis(2-ethylhexyl) phthalate | 0.91 | | 0.35 | 0.27 | mg/Kg | 2 | ☼ | 8270E | Total/NA |
| Chrysene | 0.032 | J | 0.070 | 0.018 | mg/Kg | 2 | ☼ | 8270E | Total/NA |
| Diethyl phthalate | 0.17 | J | 0.35 | 0.032 | mg/Kg | 2 | ☼ | 8270E | Total/NA |
| Fluoranthene | 0.047 | J | 0.070 | 0.016 | mg/Kg | 2 | ☼ | 8270E | Total/NA |
| Phenanthrene | 0.016 | J | 0.070 | 0.015 | mg/Kg | 2 | ☼ | 8270E | Total/NA |
| Pyrene | 0.073 | | 0.070 | 0.019 | mg/Kg | 2 | ☼ | 8270E | Total/NA |
| WI Gasoline Range Organics (C5-C10) | 9400 | | 1800 | 910 | ug/Kg | 50 | ☼ | WI-GRO | Total/NA |
| Diesel Range Organics [C10-C28] | 970 | | 68 | 44 | mg/Kg | 20 | ☼ | WI-DRO | Total/NA |
| Arsenic | 1.2 | | 1.0 | 0.35 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Barium | 34 | | 1.0 | 0.12 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Cadmium | 1.9 | | 0.20 | 0.036 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Chromium | 6.8 | | 1.0 | 0.50 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Lead | 9.5 | | 0.50 | 0.23 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Barium | 0.45 | B | 0.010 | 0.0012 | mg/L | 1 | | 6010D | TCLP |
| Cadmium | 0.013 | | 0.0020 | 0.00043 | mg/L | 1 | | 6010D | TCLP |
| Free Liquid | PASS | | | | No Unit | 1 | | 9095B | Total/NA |
| Sieve Size 3 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 2 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 1.5 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 1 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 0.75 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 0.375 inch - Percent Finer | 80.2 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #4 - Percent Finer | 69.7 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #10 - Percent Finer | 62.9 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #20 - Percent Finer | 61.4 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #40 - Percent Finer | 56.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #60 - Percent Finer | 44.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #80 - Percent Finer | 34.7 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #100 - Percent Finer | 29.2 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #200 - Percent Finer | 22.2 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 1 - Percent Finer | 11.9 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 2 - Percent Finer | 6.5 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 3 - Percent Finer | 5.9 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 4 - Percent Finer | 4.4 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 5 - Percent Finer | 3.5 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 6 - Percent Finer | 2.6 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 7 - Percent Finer | 2.3 | | | | % Finer | 1 | | D422 | Total/NA |
| Gravel | 30.3 | | | | % | 1 | | D422 | Total/NA |
| Sand | 47.5 | | | | % | 1 | | D422 | Total/NA |
| Coarse Sand | 6.8 | | | | % | 1 | | D422 | Total/NA |
| Medium Sand | 6.9 | | | | % | 1 | | D422 | Total/NA |
| Fine Sand | 33.8 | | | | % | 1 | | D422 | Total/NA |
| Silt | 18.7 | | | | % | 1 | | D422 | Total/NA |
| Clay | 3.5 | | | | % | 1 | | D422 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: B2960

## Lab Sample ID: 500-273743-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.052 | J B | 0.11 | 0.051 | mg/Kg | 50 | ☼ | 8260D | Total/NA |
| Diethyl phthalate | 0.13 | J | 0.17 | 0.015 | mg/Kg | 1 | ☼ | 8270E | Total/NA |
| WI Gasoline Range Organics (C5-C10) | 1800 | | 1700 | 830 | ug/Kg | 50 | ☼ | WI-GRO | Total/NA |
| Diesel Range Organics [C10-C28] | 860 | | 69 | 45 | mg/Kg | 20 | ☼ | WI-DRO | Total/NA |
| Arsenic | 0.96 | | 0.95 | 0.32 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Barium | 23 | | 0.95 | 0.11 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Cadmium | 0.14 | J | 0.19 | 0.034 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Chromium | 3.6 | | 0.95 | 0.47 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Lead | 2.5 | | 0.47 | 0.22 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Barium | 0.46 | B | 0.010 | 0.0012 | mg/L | 1 | | 6010D | TCLP |
| Cadmium | 0.0022 | | 0.0020 | 0.00043 | mg/L | 1 | | 6010D | TCLP |
| Chromium | 0.0032 | J B | 0.010 | 0.0017 | mg/L | 1 | | 6010D | TCLP |
| Lead | 0.0036 | J | 0.0050 | 0.0027 | mg/L | 1 | | 6010D | TCLP |
| Selenium | 0.0054 | J B | 0.010 | 0.0053 | mg/L | 1 | | 6010D | TCLP |
| Free Liquid | PASS | | | | No Unit | 1 | | 9095B | Total/NA |
| Sieve Size 3 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 2 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 1.5 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 1 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 0.75 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 0.375 inch - Percent Finer | 97.5 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #4 - Percent Finer | 93.7 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #10 - Percent Finer | 90.3 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #20 - Percent Finer | 88.8 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #40 - Percent Finer | 80.9 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #60 - Percent Finer | 57.8 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #80 - Percent Finer | 34.5 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #100 - Percent Finer | 21.2 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #200 - Percent Finer | 9.8 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 1 - Percent Finer | 8.6 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 2 - Percent Finer | 7.1 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 3 - Percent Finer | 5.6 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 4 - Percent Finer | 4.7 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 5 - Percent Finer | 3.7 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 6 - Percent Finer | 3.2 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 7 - Percent Finer | 2.7 | | | | % Finer | 1 | | D422 | Total/NA |
| Gravel | 6.3 | | | | % | 1 | | D422 | Total/NA |
| Sand | 83.9 | | | | % | 1 | | D422 | Total/NA |
| Coarse Sand | 3.4 | | | | % | 1 | | D422 | Total/NA |
| Medium Sand | 9.4 | | | | % | 1 | | D422 | Total/NA |
| Fine Sand | 71.1 | | | | % | 1 | | D422 | Total/NA |
| Silt | 6.1 | | | | % | 1 | | D422 | Total/NA |
| Clay | 3.7 | | | | % | 1 | | D422 | Total/NA |

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260D | Volatile Organic Compounds by GC/MS | SW846 | EET CHI |
| 8270E | Semivolatile Organic Compounds (GC/MS) | SW846 | EET CHI |
| WI-GRO | Wisconsin - Gasoline Range Organics (GC) | WI-GRO | EET CHI |
| 8082A | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | EET CHI |
| WI-DRO | Wisconsin - Diesel Range Organics (GC) | WI-DRO | EET CHI |
| 6010D | Metals (ICP) | SW846 | EET CHI |
| 7470A | Mercury (CVAA) | SW846 | EET CHI |
| 7471B | Mercury (CVAA) | SW846 | EET CHI |
| 9095B | Paint Filter | SW846 | EET CHI |
| Moisture | Percent Moisture | EPA | EET CHI |
| D422 | Grain Size | ASTM | EET BUR |
| 1311 | TCLP Extraction | SW846 | EET CHI |
| 3010A | Preparation, Total Metals | SW846 | EET CHI |
| 3050B | Preparation, Metals | SW846 | EET CHI |
| 3541 | Automated Soxhlet Extraction | SW846 | EET CHI |
| 3546 | Microwave Extraction | SW846 | EET CHI |
| 5030B | Purge and Trap | SW846 | EET CHI |
| 5035 | Closed System Purge and Trap | SW846 | EET CHI |
| 7470A | Preparation, Mercury | SW846 | EET CHI |
| 7471B | Preparation, Mercury | SW846 | EET CHI |
| WI DRO PREP | Wisconsin Extraction (Diesel Range Organics) | WI-DRO | EET CHI |
| WI GRO | Closed System Purge and Trap | WI-GRO | EET CHI |

**Protocol References:**

ASTM = ASTM International
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.
WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

**Laboratory References:**

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990
EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

# Sample Summary

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Sample Origin |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Solid | 08/27/25 09:20 | 08/28/25 09:15 | Wisconsin |
| 500-273743-2 | B2960 | Solid | 08/27/25 08:45 | 08/28/25 09:15 | Wisconsin |

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

**Client Sample ID: Wash Rack**
**Date Collected: 08/27/25 09:20**
**Date Received: 08/28/25 09:15**

**Lab Sample ID: 500-273743-1**
**Matrix: Solid**
**Percent Solids: 90.6**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.0075 | | 0.015 | 0.0075 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Bromobenzene | <0.036 | | 0.061 | 0.036 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Bromochloromethane | <0.030 | | 0.061 | 0.030 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Bromodichloromethane | <0.035 | | 0.061 | 0.035 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Bromoform | <0.059 | | 0.061 | 0.059 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Bromomethane | <0.11 | *- | 0.18 | 0.11 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Carbon tetrachloride | <0.025 | | 0.061 | 0.025 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Chlorobenzene | <0.025 | | 0.061 | 0.025 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Chloroethane | <0.029 | *- | 0.30 | 0.029 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Chloroform | <0.056 | | 0.12 | 0.056 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Chloromethane | <0.048 | | 0.30 | 0.048 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 2-Chlorotoluene | <0.022 | | 0.061 | 0.022 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 4-Chlorotoluene | <0.021 | | 0.061 | 0.021 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| cis-1,2-Dichloroethene | <0.025 | | 0.061 | 0.025 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| cis-1,3-Dichloropropene | <0.032 | | 0.061 | 0.032 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Dibromochloromethane | <0.051 | | 0.061 | 0.051 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,2-Dibromo-3-Chloropropane | <0.25 | | 0.30 | 0.25 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,2-Dibromoethane | <0.034 | | 0.061 | 0.034 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Dibromomethane | <0.035 | | 0.061 | 0.035 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,2-Dichlorobenzene | <0.029 | | 0.061 | 0.029 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,3-Dichlorobenzene | <0.025 | | 0.061 | 0.025 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,4-Dichlorobenzene | <0.028 | | 0.061 | 0.028 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Dichlorodifluoromethane | <0.11 | | 0.18 | 0.11 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,1-Dichloroethane | <0.022 | | 0.061 | 0.022 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,2-Dichloroethane | <0.035 | | 0.061 | 0.035 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,1-Dichloroethene | <0.029 | | 0.061 | 0.029 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,2-Dichloropropane | <0.023 | | 0.061 | 0.023 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,3-Dichloropropane | <0.034 | | 0.061 | 0.034 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 2,2-Dichloropropane | <0.030 | | 0.30 | 0.030 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,1-Dichloropropene | <0.020 | | 0.061 | 0.020 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Ethylbenzene | <0.010 | | 0.015 | 0.010 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Hexachlorobutadiene | <0.033 | | 0.061 | 0.033 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Isopropylbenzene | <0.018 | | 0.061 | 0.018 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Isopropyl ether | <0.023 | | 0.061 | 0.023 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Methylene Chloride | <0.13 | | 0.30 | 0.13 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Methyl tert-butyl ether | <0.026 | | 0.061 | 0.026 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Naphthalene | <0.027 | | 0.061 | 0.027 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| n-Butylbenzene | <0.020 | | 0.061 | 0.020 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| N-Propylbenzene | <0.020 | | 0.061 | 0.020 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| p-Isopropyltoluene | <0.018 | | 0.061 | 0.018 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| sec-Butylbenzene | <0.017 | | 0.061 | 0.017 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Styrene | <0.019 | | 0.061 | 0.019 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| tert-Butylbenzene | <0.016 | | 0.061 | 0.016 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,1,1,2-Tetrachloroethane | <0.041 | | 0.061 | 0.041 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,1,2,2-Tetrachloroethane | <0.039 | | 0.061 | 0.039 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Tetrachloroethene | <0.024 | | 0.061 | 0.024 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Toluene | <0.013 | | 0.015 | 0.013 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| trans-1,2-Dichloroethene | <0.027 | | 0.061 | 0.027 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| trans-1,3-Dichloropropene | <0.039 | | 0.061 | 0.039 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |

## Client Sample ID: Wash Rack

**Date Collected: 08/27/25 09:20**
**Date Received: 08/28/25 09:15**

## Lab Sample ID: 500-273743-1

**Matrix: Solid**
**Percent Solids: 90.6**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | <0.021 | | 0.061 | 0.021 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,2,4-Trichlorobenzene | <0.019 | | 0.061 | 0.019 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,1,1-Trichloroethane | <0.027 | | 0.061 | 0.027 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,1,2-Trichloroethane | <0.045 | | 0.061 | 0.045 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Trichloroethene | <0.0090 | | 0.030 | 0.0090 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Trichlorofluoromethane | <0.027 | | 0.061 | 0.027 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,2,3-Trichloropropane | <0.091 | | 0.12 | 0.091 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| **1,2,4-Trimethylbenzene** | **0.026** | **J** | 0.061 | 0.018 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| **1,3,5-Trimethylbenzene** | **0.022** | **J** | 0.061 | 0.018 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Vinyl chloride | <0.029 | | 0.061 | 0.029 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Xylenes, Total | <0.014 | | 0.030 | 0.014 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *72 - 124* | *08/27/25 09:20* | *09/08/25 19:27* | *50* |
| *Dibromofluoromethane (Surr)* | *84* | | *75 - 120* | *08/27/25 09:20* | *09/08/25 19:27* | *50* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *75 - 126* | *08/27/25 09:20* | *09/08/25 19:27* | *50* |
| *Toluene-d8 (Surr)* | *102* | | *75 - 120* | *08/27/25 09:20* | *09/08/25 19:27* | *50* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <10 | | 20 | 10 | ug/L | | | 09/09/25 13:39 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *75 - 126* | | *09/09/25 13:39* | *20* |
| *Toluene-d8 (Surr)* | *98* | | *75 - 120* | | *09/09/25 13:39* | *20* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *72 - 124* | | *09/09/25 13:39* | *20* |
| *Dibromofluoromethane (Surr)* | *101* | | *75 - 120* | | *09/09/25 13:39* | *20* |

### Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | <0.014 | | 0.070 | 0.014 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Acenaphthylene | <0.012 | | 0.070 | 0.012 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Anthracene | <0.014 | | 0.070 | 0.014 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| **Benzo[a]anthracene** | **0.056** | **J** | 0.070 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Benzo[a]pyrene | <0.068 | | 0.070 | 0.068 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Benzo[b]fluoranthene | <0.067 | | 0.070 | 0.067 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Benzo[g,h,i]perylene | <0.031 | | 0.070 | 0.031 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Benzoic acid | <0.43 | | 3.5 | 0.43 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Benzo[k]fluoranthene | <0.027 | | 0.070 | 0.027 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Benzyl alcohol | <0.17 | | 1.4 | 0.17 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Bis(2-chloroethoxy)methane | <0.026 | | 0.35 | 0.026 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Bis(2-chloroethyl)ether | <0.032 | | 0.35 | 0.032 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| **Bis(2-ethylhexyl) phthalate** | **0.91** | | 0.35 | 0.27 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 4-Bromophenyl phenyl ether | <0.048 | | 0.35 | 0.048 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Butyl benzyl phthalate | <0.035 | | 0.35 | 0.035 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Carbazole | <0.028 | | 0.35 | 0.028 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 4-Chloroaniline | <0.73 | | 1.4 | 0.73 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 4-Chloro-3-methylphenol | <0.059 | | 0.70 | 0.059 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2-Chloronaphthalene | <0.026 | | 0.35 | 0.026 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2-Chlorophenol | <0.023 | | 0.35 | 0.023 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |

**Client Sample ID: Wash Rack**
**Date Collected: 08/27/25 09:20**
**Date Received: 08/28/25 09:15**

**Lab Sample ID: 500-273743-1**
**Matrix: Solid**
**Percent Solids: 90.6**

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Chlorophenyl phenyl ether | <0.092 | | 0.35 | 0.092 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| **Chrysene** | **0.032** | **J** | 0.070 | 0.018 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Dibenz(a,h)anthracene | <0.070 | | 0.070 | 0.070 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Dibenzofuran | <0.025 | | 0.35 | 0.025 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 1,2-Dichlorobenzene | <0.028 | | 0.35 | 0.028 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 1,3-Dichlorobenzene | <0.032 | | 0.35 | 0.032 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 1,4-Dichlorobenzene | <0.033 | | 0.35 | 0.033 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 3,3'-Dichlorobenzidine | <0.31 | | 0.35 | 0.31 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,4-Dichlorophenol | <0.025 | | 0.70 | 0.025 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| **Diethyl phthalate** | **0.17** | **J** | 0.35 | 0.032 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,4-Dimethylphenol | <0.16 | *+ | 0.70 | 0.16 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Dimethyl phthalate | <0.015 | | 0.35 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Di-n-butyl phthalate | <0.022 | | 0.35 | 0.022 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 4,6-Dinitro-2-methylphenol | <0.39 | | 1.4 | 0.39 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,4-Dinitrophenol | <0.41 | | 1.4 | 0.41 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,4-Dinitrotoluene | <0.040 | | 0.35 | 0.040 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,6-Dinitrotoluene | <0.049 | | 0.35 | 0.049 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Di-n-octyl phthalate | <0.49 | | 0.70 | 0.49 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| **Fluoranthene** | **0.047** | **J** | 0.070 | 0.016 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Fluorene | <0.021 | | 0.070 | 0.021 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Hexachlorobenzene | <0.013 | | 0.14 | 0.013 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Hexachlorobutadiene | <0.039 | | 0.35 | 0.039 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Hexachlorocyclopentadiene | <0.74 | | 1.4 | 0.74 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Hexachloroethane | <0.035 | | 0.35 | 0.035 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Indeno[1,2,3-cd]pyrene | <0.068 | | 0.070 | 0.068 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Isophorone | <0.036 | | 0.35 | 0.036 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 1-Methylnaphthalene | <0.013 | | 0.14 | 0.013 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2-Methylnaphthalene | <0.014 | | 0.14 | 0.014 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2-Methylphenol | <0.037 | | 0.35 | 0.037 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 3 & 4 Methylphenol | <0.051 | | 0.35 | 0.051 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Naphthalene | <0.013 | | 0.070 | 0.013 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2-Nitroaniline | <0.038 | | 0.35 | 0.038 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 3-Nitroaniline | <0.032 | | 0.70 | 0.032 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 4-Nitroaniline | <0.052 | | 0.70 | 0.052 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Nitrobenzene | <0.022 | | 0.070 | 0.022 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2-Nitrophenol | <0.047 | | 0.70 | 0.047 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 4-Nitrophenol | <0.76 | | 1.4 | 0.76 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| N-Nitrosodi-n-propylamine | <0.040 | | 0.14 | 0.040 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| N-Nitrosodiphenylamine | <0.14 | | 0.35 | 0.14 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,2'-oxybis[1-chloropropane] | <0.050 | *+ | 0.35 | 0.050 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Pentachlorophenol | <0.78 | | 1.4 | 0.78 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| **Phenanthrene** | **0.016** | **J** | 0.070 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Phenol | <0.030 | | 0.35 | 0.030 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| **Pyrene** | **0.073** | | 0.070 | 0.019 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Pyridine | <0.46 | *+ | 1.4 | 0.46 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 1,2,4-Trichlorobenzene | <0.050 | | 0.35 | 0.050 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,4,5-Trichlorophenol | <0.026 | | 0.70 | 0.026 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,4,6-Trichlorophenol | <0.024 | | 0.70 | 0.024 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |

## Client Sample ID: Wash Rack

**Date Collected: 08/27/25 09:20**
**Date Received: 08/28/25 09:15**

## Lab Sample ID: 500-273743-1

**Matrix: Solid**
**Percent Solids: 90.6**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl (Surr) | 96 | | 43 - 145 | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2-Fluorophenol (Surr) | 91 | | 31 - 166 | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Nitrobenzene-d5 (Surr) | 105 | | 37 - 147 | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Phenol-d5 (Surr) | 93 | | 30 - 153 | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Terphenyl-d14 (Surr) | 95 | | 42 - 157 | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,4,6-Tribromophenol (Surr) | 104 | | 31 - 143 | 09/02/25 07:27 | 09/02/25 20:12 | 2 |

### Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| WI Gasoline Range Organics (C5-C10) | 9400 | | 1800 | 910 | ug/Kg | ☼ | 08/27/25 09:20 | 09/05/25 23:42 | 50 |

### Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | <7.2 | | 18 | 7.2 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 13:47 | 1 |
| PCB-1221 | <7.2 | | 18 | 7.2 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 13:47 | 1 |
| PCB-1232 | <5.0 | | 18 | 5.0 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 13:47 | 1 |
| PCB-1242 | <7.1 | | 18 | 7.1 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 13:47 | 1 |
| PCB-1248 | <8.7 | | 18 | 8.7 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 13:47 | 1 |
| PCB-1254 | <6.2 | | 18 | 6.2 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 13:47 | 1 |
| PCB-1260 | <6.9 | | 18 | 6.9 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 13:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 90 | | 49 - 129 | 08/29/25 15:41 | 09/03/25 13:47 | 1 |
| DCB Decachlorobiphenyl | 98 | | 37 - 121 | 08/29/25 15:41 | 09/03/25 13:47 | 1 |

### Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 970 | | 68 | 44 | mg/Kg | ☼ | 08/28/25 13:06 | 09/02/25 11:10 | 20 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| n-Nonane | | | | 08/28/25 13:06 | 09/02/25 11:10 | 20 |

### Method: SW846 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 1.2 | | 1.0 | 0.35 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 18:56 | 1 |
| Barium | 34 | | 1.0 | 0.12 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 18:56 | 1 |
| Cadmium | 1.9 | | 0.20 | 0.036 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 18:56 | 1 |
| Chromium | 6.8 | | 1.0 | 0.50 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 18:56 | 1 |
| Lead | 9.5 | | 0.50 | 0.23 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 18:56 | 1 |
| Selenium | <0.59 | | 1.0 | 0.59 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 18:56 | 1 |
| Silver | <0.13 | | 0.50 | 0.13 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 18:56 | 1 |

### Method: SW846 6010D - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.0037 | | 0.010 | 0.0037 | mg/L | | 09/04/25 13:40 | 09/05/25 23:31 | 1 |
| Barium | 0.45 | B | 0.010 | 0.0012 | mg/L | | 09/04/25 13:40 | 09/05/25 23:31 | 1 |
| Cadmium | 0.013 | | 0.0020 | 0.00043 | mg/L | | 09/04/25 13:40 | 09/05/25 23:31 | 1 |
| Chromium | <0.0017 | | 0.010 | 0.0017 | mg/L | | 09/04/25 13:40 | 09/05/25 23:31 | 1 |
| Lead | <0.0027 | | 0.0050 | 0.0027 | mg/L | | 09/04/25 13:40 | 09/05/25 23:31 | 1 |
| Selenium | <0.0053 | | 0.010 | 0.0053 | mg/L | | 09/04/25 13:40 | 09/05/25 23:31 | 1 |
| Silver | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 09/04/25 13:40 | 09/05/25 23:31 | 1 |

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

## Client Sample ID: Wash Rack

**Date Collected: 08/27/25 09:20**
**Date Received: 08/28/25 09:15**

## Lab Sample ID: 500-273743-1

**Matrix: Solid**
**Percent Solids: 90.6**

### Method: SW846 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 09/05/25 14:55 | 09/08/25 12:11 | 1 |

### Method: SW846 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.0069 | | 0.017 | 0.0069 | mg/Kg | ☼ | 09/10/25 15:15 | 09/11/25 08:37 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Free Liquid (SW846 9095B) | PASS | | | | No Unit | | | 09/11/25 03:50 | 1 |

### Method: ASTM D422 - Grain Size

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sieve Size 3 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size 2 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size 1.5 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size 1 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size 0.75 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size 0.375 inch - Percent Finer | 80.2 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #4 - Percent Finer | 69.7 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #10 - Percent Finer | 62.9 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #20 - Percent Finer | 61.4 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #40 - Percent Finer | 56.0 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #60 - Percent Finer | 44.0 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #80 - Percent Finer | 34.7 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #100 - Percent Finer | 29.2 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #200 - Percent Finer | 22.2 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Hydrometer Reading 1 - Percent Finer | 11.9 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Hydrometer Reading 2 - Percent Finer | 6.5 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Hydrometer Reading 3 - Percent Finer | 5.9 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Hydrometer Reading 4 - Percent Finer | 4.4 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Hydrometer Reading 5 - Percent Finer | 3.5 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Hydrometer Reading 6 - Percent Finer | 2.6 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Hydrometer Reading 7 - Percent Finer | 2.3 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Gravel | 30.3 | | | | % | | | 08/29/25 15:05 | 1 |
| Sand | 47.5 | | | | % | | | 08/29/25 15:05 | 1 |
| Coarse Sand | 6.8 | | | | % | | | 08/29/25 15:05 | 1 |
| Medium Sand | 6.9 | | | | % | | | 08/29/25 15:05 | 1 |
| Fine Sand | 33.8 | | | | % | | | 08/29/25 15:05 | 1 |
| Silt | 18.7 | | | | % | | | 08/29/25 15:05 | 1 |
| Clay | 3.5 | | | | % | | | 08/29/25 15:05 | 1 |

**Client Sample ID: B2960**
**Date Collected: 08/27/25 08:45**
**Date Received: 08/28/25 09:15**

**Lab Sample ID: 500-273743-2**
**Matrix: Solid**
**Percent Solids: 94.5**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.0068 | | 0.014 | 0.0068 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Bromobenzene | <0.033 | | 0.055 | 0.033 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Bromochloromethane | <0.027 | | 0.055 | 0.027 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Bromodichloromethane | <0.031 | | 0.055 | 0.031 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Bromoform | <0.053 | | 0.055 | 0.053 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Bromomethane | <0.099 | *- | 0.17 | 0.099 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Carbon tetrachloride | <0.023 | | 0.055 | 0.023 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Chlorobenzene | <0.023 | | 0.055 | 0.023 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Chloroethane | <0.026 | *- | 0.28 | 0.026 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| **Chloroform** | **0.052** | **J B** | 0.11 | 0.051 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Chloromethane | <0.043 | | 0.28 | 0.043 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 2-Chlorotoluene | <0.020 | | 0.055 | 0.020 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 4-Chlorotoluene | <0.019 | | 0.055 | 0.019 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| cis-1,2-Dichloroethene | <0.023 | | 0.055 | 0.023 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| cis-1,3-Dichloropropene | <0.029 | | 0.055 | 0.029 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Dibromochloromethane | <0.046 | | 0.055 | 0.046 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2-Dibromo-3-Chloropropane | <0.22 | | 0.28 | 0.22 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2-Dibromoethane | <0.031 | | 0.055 | 0.031 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Dibromomethane | <0.032 | | 0.055 | 0.032 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2-Dichlorobenzene | <0.026 | | 0.055 | 0.026 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,3-Dichlorobenzene | <0.022 | | 0.055 | 0.022 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,4-Dichlorobenzene | <0.025 | | 0.055 | 0.025 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Dichlorodifluoromethane | <0.097 | | 0.17 | 0.097 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,1-Dichloroethane | <0.020 | | 0.055 | 0.020 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2-Dichloroethane | <0.032 | | 0.055 | 0.032 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,1-Dichloroethene | <0.026 | | 0.055 | 0.026 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2-Dichloropropane | <0.021 | | 0.055 | 0.021 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,3-Dichloropropane | <0.031 | | 0.055 | 0.031 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 2,2-Dichloropropane | <0.027 | | 0.28 | 0.027 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,1-Dichloropropene | <0.018 | | 0.055 | 0.018 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Ethylbenzene | <0.0094 | | 0.014 | 0.0094 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Hexachlorobutadiene | <0.030 | | 0.055 | 0.030 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Isopropylbenzene | <0.016 | | 0.055 | 0.016 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Isopropyl ether | <0.021 | | 0.055 | 0.021 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Methylene Chloride | <0.12 | | 0.28 | 0.12 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Methyl tert-butyl ether | <0.024 | | 0.055 | 0.024 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Naphthalene | <0.024 | | 0.055 | 0.024 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| n-Butylbenzene | <0.018 | | 0.055 | 0.018 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| N-Propylbenzene | <0.018 | | 0.055 | 0.018 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| p-Isopropyltoluene | <0.016 | | 0.055 | 0.016 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| sec-Butylbenzene | <0.015 | | 0.055 | 0.015 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Styrene | <0.017 | | 0.055 | 0.017 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| tert-Butylbenzene | <0.015 | | 0.055 | 0.015 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,1,1,2-Tetrachloroethane | <0.037 | | 0.055 | 0.037 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,1,2,2-Tetrachloroethane | <0.036 | | 0.055 | 0.036 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Tetrachloroethene | <0.021 | | 0.055 | 0.021 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Toluene | <0.012 | | 0.014 | 0.012 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| trans-1,2-Dichloroethene | <0.024 | | 0.055 | 0.024 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| trans-1,3-Dichloropropene | <0.035 | | 0.055 | 0.035 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |

**Client Sample ID: B2960**
**Date Collected: 08/27/25 08:45**
**Date Received: 08/28/25 09:15**

**Lab Sample ID: 500-273743-2**
**Matrix: Solid**
**Percent Solids: 94.5**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | <0.019 | | 0.055 | 0.019 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2,4-Trichlorobenzene | <0.017 | | 0.055 | 0.017 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,1,1-Trichloroethane | <0.025 | | 0.055 | 0.025 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,1,2-Trichloroethane | <0.040 | | 0.055 | 0.040 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Trichloroethene | <0.0082 | | 0.028 | 0.0082 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Trichlorofluoromethane | <0.024 | | 0.055 | 0.024 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2,3-Trichloropropane | <0.082 | | 0.11 | 0.082 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2,4-Trimethylbenzene | <0.017 | | 0.055 | 0.017 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,3,5-Trimethylbenzene | <0.016 | | 0.055 | 0.016 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Vinyl chloride | <0.026 | | 0.055 | 0.026 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Xylenes, Total | <0.013 | | 0.028 | 0.013 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *72 - 124* | *08/27/25 08:45* | *09/08/25 19:51* | *50* |
| *Dibromofluoromethane (Surr)* | *81* | | *75 - 120* | *08/27/25 08:45* | *09/08/25 19:51* | *50* |
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *75 - 126* | *08/27/25 08:45* | *09/08/25 19:51* | *50* |
| *Toluene-d8 (Surr)* | *104* | | *75 - 120* | *08/27/25 08:45* | *09/08/25 19:51* | *50* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <10 | | 20 | 10 | ug/L | | | 09/09/25 13:16 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *107* | | *75 - 126* | | *09/09/25 13:16* | *20* |
| *Toluene-d8 (Surr)* | *98* | | *75 - 120* | | *09/09/25 13:16* | *20* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *72 - 124* | | *09/09/25 13:16* | *20* |
| *Dibromofluoromethane (Surr)* | *103* | | *75 - 120* | | *09/09/25 13:16* | *20* |

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | <0.0068 | | 0.033 | 0.0068 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Acenaphthylene | <0.0056 | | 0.033 | 0.0056 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Anthracene | <0.0068 | | 0.033 | 0.0068 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Benzo[a]anthracene | <0.0070 | | 0.033 | 0.0070 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Benzo[a]pyrene | <0.032 | | 0.033 | 0.032 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Benzo[b]fluoranthene | <0.032 | | 0.033 | 0.032 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Benzo[g,h,i]perylene | <0.015 | | 0.033 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Benzoic acid | <0.20 | | 1.7 | 0.20 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Benzo[k]fluoranthene | <0.013 | | 0.033 | 0.013 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Benzyl alcohol | <0.081 | | 0.67 | 0.081 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Bis(2-chloroethoxy)methane | <0.012 | | 0.17 | 0.012 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Bis(2-chloroethyl)ether | <0.015 | | 0.17 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.13 | | 0.17 | 0.13 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 4-Bromophenyl phenyl ether | <0.023 | | 0.17 | 0.023 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Butyl benzyl phthalate | <0.017 | | 0.17 | 0.017 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Carbazole | <0.013 | | 0.17 | 0.013 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 4-Chloroaniline | <0.35 | | 0.67 | 0.35 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 4-Chloro-3-methylphenol | <0.028 | | 0.33 | 0.028 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2-Chloronaphthalene | <0.012 | | 0.17 | 0.012 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2-Chlorophenol | <0.011 | | 0.17 | 0.011 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

**Client Sample ID: B2960**
**Date Collected: 08/27/25 08:45**
**Date Received: 08/28/25 09:15**

**Lab Sample ID: 500-273743-2**
**Matrix: Solid**
**Percent Solids: 94.5**

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Chlorophenyl phenyl ether | <0.044 | | 0.17 | 0.044 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Chrysene | <0.0088 | | 0.033 | 0.0088 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Dibenz(a,h)anthracene | <0.033 | | 0.033 | 0.033 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Dibenzofuran | <0.012 | | 0.17 | 0.012 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 1,2-Dichlorobenzene | <0.014 | | 0.17 | 0.014 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 1,3-Dichlorobenzene | <0.015 | | 0.17 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 1,4-Dichlorobenzene | <0.016 | | 0.17 | 0.016 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 3,3'-Dichlorobenzidine | <0.15 | | 0.17 | 0.15 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,4-Dichlorophenol | <0.012 | | 0.33 | 0.012 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| **Diethyl phthalate** | **0.13** | **J** | 0.17 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,4-Dimethylphenol | <0.074 | *+ | 0.33 | 0.074 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Dimethyl phthalate | <0.0072 | | 0.17 | 0.0072 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Di-n-butyl phthalate | <0.011 | | 0.17 | 0.011 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.19 | | 0.67 | 0.19 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,4-Dinitrophenol | <0.19 | | 0.67 | 0.19 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,4-Dinitrotoluene | <0.019 | | 0.17 | 0.019 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,6-Dinitrotoluene | <0.023 | | 0.17 | 0.023 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Di-n-octyl phthalate | <0.23 | | 0.33 | 0.23 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Fluoranthene | <0.0077 | | 0.033 | 0.0077 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Fluorene | <0.0098 | | 0.033 | 0.0098 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Hexachlorobenzene | <0.0064 | | 0.067 | 0.0064 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Hexachlorobutadiene | <0.019 | | 0.17 | 0.019 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Hexachlorocyclopentadiene | <0.35 | | 0.67 | 0.35 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Hexachloroethane | <0.017 | | 0.17 | 0.017 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.032 | | 0.033 | 0.032 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Isophorone | <0.017 | | 0.17 | 0.017 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 1-Methylnaphthalene | <0.0059 | | 0.067 | 0.0059 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2-Methylnaphthalene | <0.0067 | | 0.067 | 0.0067 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2-Methylphenol | <0.018 | | 0.17 | 0.018 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 3 & 4 Methylphenol | <0.024 | | 0.17 | 0.024 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Naphthalene | <0.0060 | | 0.033 | 0.0060 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2-Nitroaniline | <0.018 | | 0.17 | 0.018 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 3-Nitroaniline | <0.015 | | 0.33 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 4-Nitroaniline | <0.025 | | 0.33 | 0.025 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Nitrobenzene | <0.011 | | 0.033 | 0.011 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2-Nitrophenol | <0.023 | | 0.33 | 0.023 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 4-Nitrophenol | <0.36 | | 0.67 | 0.36 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| N-Nitrosodi-n-propylamine | <0.019 | | 0.067 | 0.019 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| N-Nitrosodiphenylamine | <0.066 | | 0.17 | 0.066 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.024 | *+ | 0.17 | 0.024 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Pentachlorophenol | <0.37 | | 0.67 | 0.37 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Phenanthrene | <0.0072 | | 0.033 | 0.0072 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Phenol | <0.014 | | 0.17 | 0.014 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Pyrene | <0.0091 | | 0.033 | 0.0091 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Pyridine | <0.22 | *+ | 0.67 | 0.22 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 1,2,4-Trichlorobenzene | <0.024 | | 0.17 | 0.024 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,4,5-Trichlorophenol | <0.013 | | 0.33 | 0.013 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,4,6-Trichlorophenol | <0.011 | | 0.33 | 0.011 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |

## Client Sample ID: B2960
**Date Collected: 08/27/25 08:45**
**Date Received: 08/28/25 09:15**

## Lab Sample ID: 500-273743-2
**Matrix: Solid**
**Percent Solids: 94.5**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl (Surr) | 83 | | 43 - 145 | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2-Fluorophenol (Surr) | 74 | | 31 - 166 | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Nitrobenzene-d5 (Surr) | 90 | | 37 - 147 | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Phenol-d5 (Surr) | 76 | | 30 - 153 | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Terphenyl-d14 (Surr) | 91 | | 42 - 157 | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,4,6-Tribromophenol (Surr) | 99 | | 31 - 143 | 09/02/25 07:27 | 09/02/25 18:37 | 1 |

### Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| WI Gasoline Range Organics (C5-C10) | 1800 | | 1700 | 830 | ug/Kg | ☼ | 08/27/25 08:45 | 09/06/25 00:15 | 50 |

### Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | <6.9 | | 17 | 6.9 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 14:32 | 1 |
| PCB-1221 | <6.9 | | 17 | 6.9 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 14:32 | 1 |
| PCB-1232 | <4.7 | | 17 | 4.7 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 14:32 | 1 |
| PCB-1242 | <6.8 | | 17 | 6.8 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 14:32 | 1 |
| PCB-1248 | <8.3 | | 17 | 8.3 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 14:32 | 1 |
| PCB-1254 | <5.9 | | 17 | 5.9 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 14:32 | 1 |
| PCB-1260 | <6.6 | | 17 | 6.6 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 14:32 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 89 | | 49 - 129 | 08/29/25 15:41 | 09/03/25 14:32 | 1 |
| DCB Decachlorobiphenyl | 117 | | 37 - 121 | 08/29/25 15:41 | 09/03/25 14:32 | 1 |

### Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 860 | | 69 | 45 | mg/Kg | ☼ | 08/28/25 13:06 | 09/02/25 11:31 | 20 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| n-Nonane | | | | 08/28/25 13:06 | 09/02/25 11:31 | 20 |

### Method: SW846 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.96 | | 0.95 | 0.32 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 19:01 | 1 |
| Barium | 23 | | 0.95 | 0.11 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 19:01 | 1 |
| Cadmium | 0.14 | J | 0.19 | 0.034 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 19:01 | 1 |
| Chromium | 3.6 | | 0.95 | 0.47 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 19:01 | 1 |
| Lead | 2.5 | | 0.47 | 0.22 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 19:01 | 1 |
| Selenium | <0.56 | | 0.95 | 0.56 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 19:01 | 1 |
| Silver | <0.12 | | 0.47 | 0.12 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 19:01 | 1 |

### Method: SW846 6010D - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.0037 | | 0.010 | 0.0037 | mg/L | | 09/04/25 13:40 | 09/05/25 23:35 | 1 |
| Barium | 0.46 | B | 0.010 | 0.0012 | mg/L | | 09/04/25 13:40 | 09/05/25 23:35 | 1 |
| Cadmium | 0.0022 | | 0.0020 | 0.00043 | mg/L | | 09/04/25 13:40 | 09/05/25 23:35 | 1 |
| Chromium | 0.0032 | J B | 0.010 | 0.0017 | mg/L | | 09/04/25 13:40 | 09/05/25 23:35 | 1 |
| Lead | 0.0036 | J | 0.0050 | 0.0027 | mg/L | | 09/04/25 13:40 | 09/05/25 23:35 | 1 |
| Selenium | 0.0054 | J B | 0.010 | 0.0053 | mg/L | | 09/04/25 13:40 | 09/05/25 23:35 | 1 |
| Silver | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 09/04/25 13:40 | 09/05/25 23:35 | 1 |

## Client Sample ID: B2960

**Date Collected: 08/27/25 08:45**
**Date Received: 08/28/25 09:15**

## Lab Sample ID: 500-273743-2

**Matrix: Solid**
**Percent Solids: 94.5**

### Method: SW846 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 09/05/25 14:55 | 09/08/25 12:13 | 1 |

### Method: SW846 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.0068 | | 0.016 | 0.0068 | mg/Kg | ☼ | 09/10/25 15:15 | 09/11/25 08:39 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Free Liquid (SW846 9095B) | PASS | | | | No Unit | | | 09/11/25 04:00 | 1 |

### Method: ASTM D422 - Grain Size

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sieve Size 3 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size 2 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size 1.5 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size 1 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size 0.75 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size 0.375 inch - Percent Finer | 97.5 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #4 - Percent Finer | 93.7 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #10 - Percent Finer | 90.3 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #20 - Percent Finer | 88.8 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #40 - Percent Finer | 80.9 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #60 - Percent Finer | 57.8 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #80 - Percent Finer | 34.5 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #100 - Percent Finer | 21.2 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #200 - Percent Finer | 9.8 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Hydrometer Reading 1 - Percent Finer | 8.6 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Hydrometer Reading 2 - Percent Finer | 7.1 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Hydrometer Reading 3 - Percent Finer | 5.6 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Hydrometer Reading 4 - Percent Finer | 4.7 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Hydrometer Reading 5 - Percent Finer | 3.7 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Hydrometer Reading 6 - Percent Finer | 3.2 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Hydrometer Reading 7 - Percent Finer | 2.7 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Gravel | 6.3 | | | | % | | | 08/29/25 15:07 | 1 |
| Sand | 83.9 | | | | % | | | 08/29/25 15:07 | 1 |
| Coarse Sand | 3.4 | | | | % | | | 08/29/25 15:07 | 1 |
| Medium Sand | 9.4 | | | | % | | | 08/29/25 15:07 | 1 |
| Fine Sand | 71.1 | | | | % | | | 08/29/25 15:07 | 1 |
| Silt | 6.1 | | | | % | | | 08/29/25 15:07 | 1 |
| Clay | 3.7 | | | | % | | | 08/29/25 15:07 | 1 |

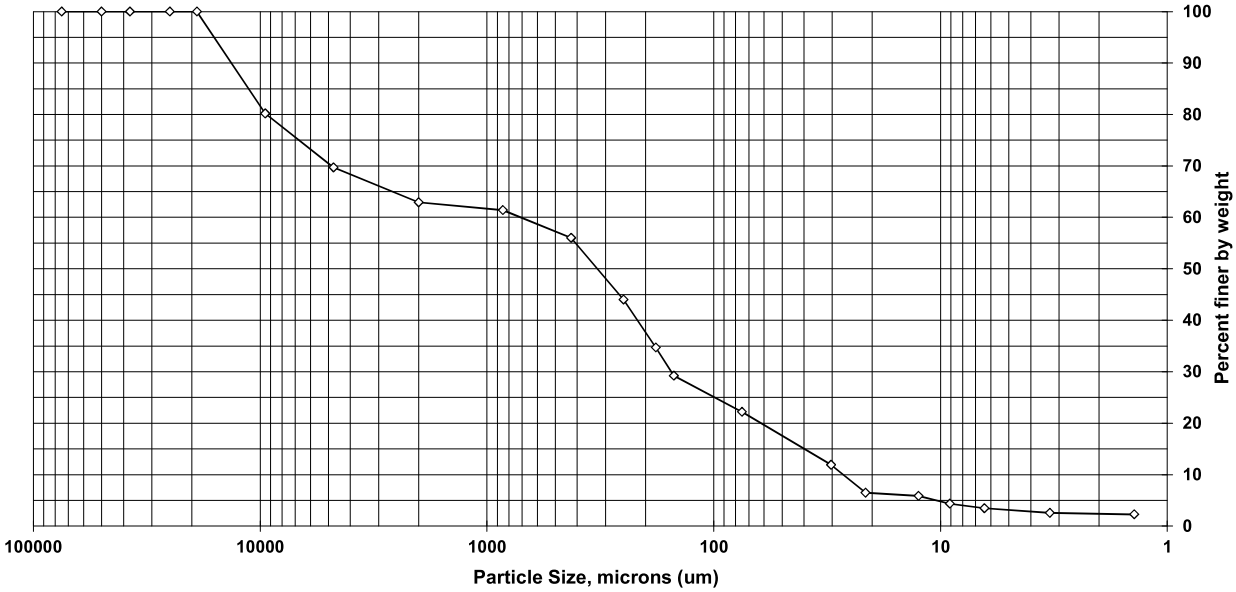
# Particle Size of Soils by ASTM D422

**Sample ID:** Wash Rack
**Lab ID:** 500-273743-H-1

**Percent Solids:** 93.0%
**Specific Gravity:** 2.650

**Date Received:** 8/28/2025
**Start Date:** 8/29/2025
**End Date:** 9/5/2025

**Shape (> #10):** subangular
**Non-soil material:** plant
**Hardness (> #10):** hard




| Sieve size | Particle size, um | Percent finer | Incremental percent |
|---|---|---|---|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 80.2 | 19.8 |
| #4 | 4750 | 69.7 | 10.5 |
| #10 | 2000 | 62.9 | 6.8 |
| #20 | 850 | 61.4 | 1.5 |
| #40 | 425 | 56.0 | 5.4 |
| #60 | 250 | 44.0 | 12.0 |
| #80 | 180 | 34.7 | 9.3 |
| #100 | 150 | 29.2 | 5.5 |
| #200 | 75 | 22.2 | 7.0 |
| Hyd1 | 30.4 | 11.9 | 10.3 |
| Hyd2 | 21.4 | 6.5 | 5.4 |
| Hyd3 | 12.5 | 5.9 | 0.6 |
| Hyd4 | 9.1 | 4.4 | 1.5 |
| Hyd5 | 6.4 | 3.5 | 0.9 |
| Hyd6 | 3.3 | 2.6 | 0.9 |
| Hyd7 | 1.4 | 2.3 | 0.3 |
| | | | |

| Soil Classification | Percent of sample |
|---|---|
| Gravel | 30.3 |
| Sand | 47.5 |
| Coarse Sand | 6.8 |
| Medium Sand | 6.9 |
| Fine Sand | 33.8 |
| Silt | 18.7 |
| Clay | 3.5 |
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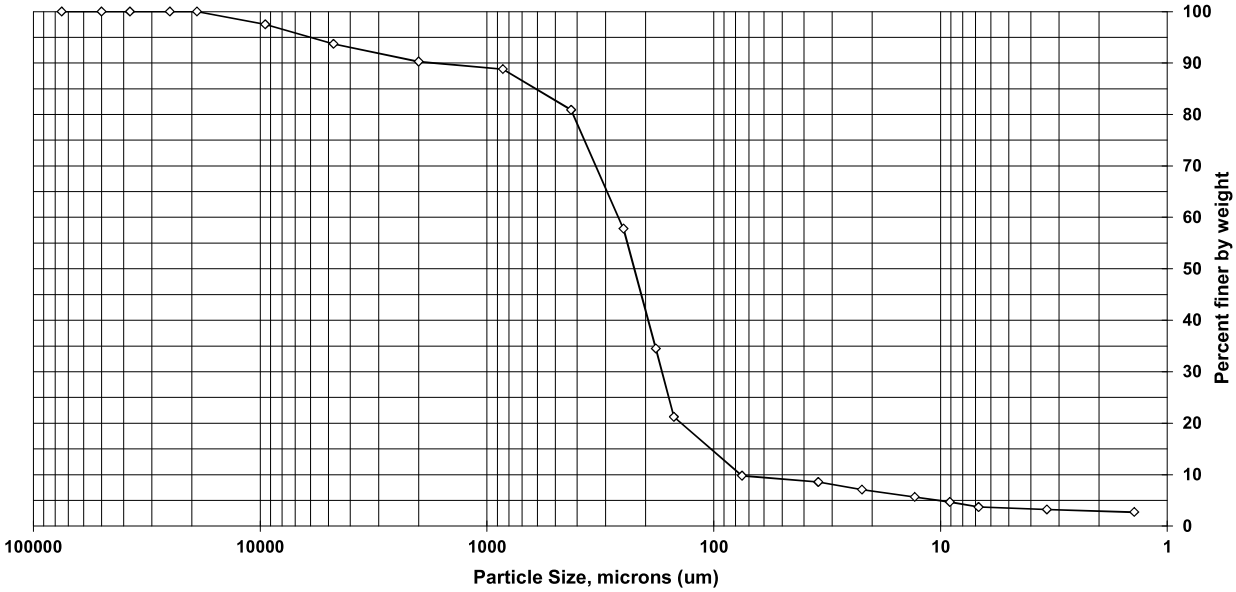
# Particle Size of Soils by ASTM D422

**Sample ID:** B2960
**Lab ID:** 500-273743-H-2

**Percent Solids:** 96.1%
**Specific Gravity:** 2.650

**Date Received:** 8/28/2025
**Start Date:** 8/29/2025
**End Date:** 9/5/2025

**Shape (> #10):** subangular
**Non-soil material:** plant
**Hardness (> #10):** hard




| Sieve size | Particle size, um | Percent finer | Incremental percent |
|---|---|---|---|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 97.5 | 2.5 |
| #4 | 4750 | 93.7 | 3.8 |
| #10 | 2000 | 90.3 | 3.4 |
| #20 | 850 | 88.8 | 1.5 |
| #40 | 425 | 80.9 | 7.9 |
| #60 | 250 | 57.8 | 23.1 |
| #80 | 180 | 34.5 | 23.3 |
| #100 | 150 | 21.2 | 13.3 |
| #200 | 75 | 9.8 | 11.4 |
| Hyd1 | 34.6 | 8.6 | 1.2 |
| Hyd2 | 22.2 | 7.1 | 1.5 |
| Hyd3 | 13 | 5.6 | 1.5 |
| Hyd4 | 9.1 | 4.7 | 1.0 |
| Hyd5 | 6.8 | 3.7 | 1.0 |
| Hyd6 | 3.4 | 3.2 | 0.5 |
| Hyd7 | 1.4 | 2.7 | 0.5 |
| | | | |

| Soil Classification | Percent of sample |
|---|---|
| Gravel | 6.3 |
| Sand | 83.9 |
| Coarse Sand | 3.4 |
| Medium Sand | 9.4 |
| Fine Sand | 71.1 |
| Silt | 6.1 |
| Clay | 3.7 |
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**Sediment Grain Size - D422**

| | |
|---|---|
| Client | |
| Client Sample ID | Wash Rack |
| Lab Sample ID | 500-273743-H-1 |

| | |
|---|---|
| Date Received | 8/28/2025 |
| Start Date | 08/29/2025 15:05 |
| End Date | 09/05/2025 11:44 |

**Dry Weight Determination**

| | | |
|---|---|---|
| Tin Weight | 0.97 | g |
| Wet Sample + Tin | 27.27 | g |
| Dry Sample + Tin | 25.44 | g |
| % Moisture | 6.96 | % |

| | |
|---|---|
| Non-soil material: | plant |
| Shape (> #10): | subangular |
| Hardness (> #10): | hard |

| | |
|---|---|
| Date/Time in oven | 08/29/2025 15:06 |
| Date/Time out of oven | 09/01/2025 10:54 |

| Sample Weights | Tare (g) | Pan+Samp (g) | Samp (g) |
|---|---|---|---|
| Sample Weight (Wet) | 47.83 | 334.44 | 286.61 |
| Sample Weight (Oven Dried) | | | 267 |

| Sample Split (oven dried) | Tare (g) | Pan+Samp (g) | Samp (g) |
|---|---|---|---|
| Sample >=#10 | | | 99.1 |
| Sample <#10 | | | 168 |
| % Passing #10 | | | 58.6 |

**Hydrometer Data**

| | |
|---|---|
| Serial Number | 503315 |
| Calib. Date (mm/dd/yyyy) | 05/05/2025 |
| Low Temp (C) | 17.0 |
| Reading at Low Temp | 1.0050 |
| High Temp (C) | 23.0 |
| Reading at High Temp | 1.0035 |
| Hydrometer Cal Slope | -0.00025 |
| Hydrometer Cal Intercept | 1.00925 |
| Default Soil Gravity | 2.6500 |

**Gravel/Sand Fraction (Sieves)**

| Sample Fraction | Size (um) | Pan Tare (g) | Pan+Sample (g) | Sample | | % Finer | Classification | Sub Class |
|---|---|---|---|---|---|---|---|---|
| 3 inch | 75000 | | | 0.00 | g | 100.0 | Gravel | |
| 2 inch | 50000 | | | 0.00 | g | 100.0 | Gravel | |
| 1.5 inch | 37500 | | | 0.00 | g | 100.0 | Gravel | |
| 1 inch | 25000 | | | 0.00 | g | 100.0 | Gravel | |
| 3/4 inch | 19000 | | | 0.00 | g | 100.0 | Gravel | |
| 3/8 inch | 9500 | 447.11 | 500.06 | 52.95 | g | 80.2 | Gravel | |
| #4 | 4750 | 487.82 | 515.74 | 27.92 | g | 69.7 | Gravel | |
| #10 | 2000 | 462.33 | 480.55 | 18.22 | g | 62.9 | Sand | Coarse |
| #20 | 850 | 371.14 | 375.15 | 4.01 | g | 61.4 | Sand | Medium |
| #40 | 425 | 352.99 | 367.34 | 14.35 | g | 56.0 | Sand | Medium |
| #60 | 250 | 350.75 | 382.90 | 32.15 | g | 44.0 | Sand | Fine |
| #80 | 180 | 318.09 | 342.88 | 24.79 | g | 34.7 | Sand | Fine |
| #100 | 150 | 327.06 | 341.78 | 14.72 | g | 29.2 | Sand | Fine |
| #200 | 75 | 311.50 | 330.29 | 18.79 | g | 22.2 | Sand | Fine |
| | | | | 0.00 | g | 22.2 | | |

**Adjusted Hydrometer Sample Mass**

| | |
|---|---|
| Hydrometer Sample Mass (g) | 267 |

**Silt/Clay Fraction (Hydrometer Test)**

| Hydrometer Test Time (min) | Actual | Spec. Gravity | Temp C | Particle Size (Micron) | % Finer | Classification | Sub Class |
|---|---|---|---|---|---|---|---|
| 2 | 2 | 1.0240 | 20.0 | 30.4 | 11.9 | Silt | |
| 5 | 5 | 1.0150 | 20.0 | 21.4 | 6.47 | Silt | |
| 15 | 15 | 1.0140 | 20.0 | 12.5 | 5.86 | Silt | |
| 30 | 30 | 1.0115 | 20.0 | 9.1 | 4.36 | Silt | |
| 60 | 63 | 1.0100 | 20.0 | 6.4 | 3.46 | Silt | |
| 250 | 241 | 1.0085 | 20.0 | 3.3 | 2.56 | Clay | |
| 1440 | 1388 | 1.0080 | 20.0 | 1.4 | 2.26 | Clay | |

**Sediment Grain Size - D422**

| | |
|---|---|
| Client | |
| Client Sample ID | B2960 |
| Lab Sample ID | 500-273743-H-2 |

| | |
|---|---|
| Date Received | 8/28/2025 |
| Start Date | 08/29/2025 15:07 |
| End Date | 09/05/2025 11:57 |

**Dry Weight Determination**

| | | |
|---|---|---|
| Tin Weight | 0.97 | g |
| Wet Sample + Tin | 23.97 | g |
| Dry Sample + Tin | 23.08 | g |
| % Moisture | 3.87 | % |

| | |
|---|---|
| Non-soil material: | plant |
| Shape (> #10): | subangular |
| Hardness (> #10): | hard |

| | |
|---|---|
| Date/Time in oven | 08/29/2025 15:08 |
| Date/Time out of oven | 09/01/2025 10:54 |

| Sample Weights | Tare (g) | Pan+Samp (g) | Samp (g) |
|---|---|---|---|
| Sample Weight (Wet) | 47.72 | 218.76 | 171.04 |
| Sample Weight (Oven Dried) | | | 164 |

| Sample Split (oven dried) | Tare (g) | Pan+Samp (g) | Samp (g) |
|---|---|---|---|
| Sample >=#10 | | | 16.1 |
| Sample <#10 | | | 148 |
| % Passing #10 | | | 86.5 |

**Hydrometer Data**

| | |
|---|---|
| Serial Number | 503315 |
| Calib. Date (mm/dd/yyyy) | 05/05/2025 |
| Low Temp (C) | 17.0 |
| Reading at Low Temp | 1.0050 |
| High Temp (C) | 23.0 |
| Reading at High Temp | 1.0035 |
| Hydrometer Cal Slope | -0.00025 |
| Hydrometer Cal Intercept | 1.00925 |
| Default Soil Gravity | 2.6500 |

**Gravel/Sand Fraction (Sieves)**

| Sample Fraction | Size (um) | Pan Tare (g) | Pan+Sample (g) | Sample | | % Finer | Classification | Sub Class |
|---|---|---|---|---|---|---|---|---|
| 3 inch | 75000 | | | 0.00 | g | 100.0 | Gravel | |
| 2 inch | 50000 | | | 0.00 | g | 100.0 | Gravel | |
| 1.5 inch | 37500 | | | 0.00 | g | 100.0 | Gravel | |
| 1 inch | 25000 | | | 0.00 | g | 100.0 | Gravel | |
| 3/4 inch | 19000 | | | 0.00 | g | 100.0 | Gravel | |
| 3/8 inch | 9500 | 447.11 | 451.26 | 4.15 | g | 97.5 | Gravel | |
| #4 | 4750 | 487.82 | 494.12 | 6.30 | g | 93.7 | Gravel | |
| #10 | 2000 | 462.33 | 467.94 | 5.61 | g | 90.3 | Sand | Coarse |
| #20 | 850 | 371.14 | 373.54 | 2.40 | g | 88.8 | Sand | Medium |
| #40 | 425 | 352.99 | 365.98 | 12.99 | g | 80.9 | Sand | Medium |
| #60 | 250 | 350.75 | 388.70 | 37.95 | g | 57.8 | Sand | Fine |
| #80 | 180 | 318.09 | 356.25 | 38.16 | g | 34.5 | Sand | Fine |
| #100 | 150 | 327.06 | 348.88 | 21.82 | g | 21.2 | Sand | Fine |
| #200 | 75 | 311.50 | 330.22 | 18.72 | g | 9.8 | Sand | Fine |
| | | | | 0.00 | g | 9.8 | | |

**Adjusted Hydrometer Sample Mass**

| | |
|---|---|
| Hydrometer Sample Mass (g) | 164 |

**Silt/Clay Fraction (Hydrometer Test)**

| Hydrometer Test Time (min) | Actual | Spec. Gravity | Temp C | Particle Size (Micron) | % Finer | Classification | Sub Class |
|---|---|---|---|---|---|---|---|
| 2 | 2 | 1.0130 | 20.0 | 34.6 | 8.57 | Silt | |
| 5 | 5 | 1.0115 | 20.0 | 22.2 | 7.1 | Silt | |
| 15 | 15 | 1.0100 | 20.0 | 13 | 5.63 | Silt | |
| 30 | 31 | 1.0090 | 20.0 | 9.1 | 4.65 | Silt | |
| 60 | 57 | 1.0080 | 20.0 | 6.8 | 3.67 | Silt | |
| 250 | 235 | 1.0075 | 20.0 | 3.4 | 3.18 | Clay | |
| 1440 | 1382 | 1.0070 | 20.0 | 1.4 | 2.69 | Clay | |

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| *- | LCS and/or LCSD is outside acceptance limits, low biased. |
| 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. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### 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: 832295

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 5035 | |
| 500-273743-2 | B2960 | Total/NA | Solid | 5035 | |
| LB3 500-832295/21-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 500-832295/22-A | Lab Control Sample | Total/NA | Solid | 5035 | |

### Leach Batch: 832582

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | TCLP | Solid | 1311 | |
| 500-273743-2 | B2960 | TCLP | Solid | 1311 | |

### Analysis Batch: 832878

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 8260D | 832295 |
| 500-273743-2 | B2960 | Total/NA | Solid | 8260D | 832295 |
| MB 500-832878/7 | Method Blank | Total/NA | Solid | 8260D | |
| LCS 500-832878/4 | Lab Control Sample | Total/NA | Solid | 8260D | |
| LCSD 500-832878/5 | Lab Control Sample Dup | Total/NA | Solid | 8260D | |

### Analysis Batch: 833061

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LB3 500-832295/21-A | Method Blank | Total/NA | Solid | 8260D | 832295 |
| MB 500-833061/8 | Method Blank | Total/NA | Solid | 8260D | |
| LCS 500-832295/22-A | Lab Control Sample | Total/NA | Solid | 8260D | 832295 |
| LCS 500-833061/4 | Lab Control Sample | Total/NA | Solid | 8260D | |
| LCSD 500-833061/5 | Lab Control Sample Dup | Total/NA | Solid | 8260D | |

### Analysis Batch: 833063

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | TCLP | Solid | 8260D | 832582 |
| 500-273743-2 | B2960 | TCLP | Solid | 8260D | 832582 |
| MB 500-833063/8 | Method Blank | Total/NA | Solid | 8260D | |
| LCS 500-833063/4 | Lab Control Sample | Total/NA | Solid | 8260D | |

## GC/MS Semi VOA

### Prep Batch: 832145

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 3546 | |
| 500-273743-2 | B2960 | Total/NA | Solid | 3546 | |
| MB 500-832145/1-A | Method Blank | Total/NA | Solid | 3546 | |
| LCS 500-832145/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |

### Analysis Batch: 832190

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 500-832145/1-A | Method Blank | Total/NA | Solid | 8270E | 832145 |
| LCS 500-832145/2-A | Lab Control Sample | Total/NA | Solid | 8270E | 832145 |

### Analysis Batch: 832192

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 8270E | 832145 |
| 500-273743-2 | B2960 | Total/NA | Solid | 8270E | 832145 |

## GC VOA

### Prep Batch: 832295

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 5035 | |
| 500-273743-2 | B2960 | Total/NA | Solid | 5035 | |
| LB3 500-832295/21-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 500-832295/23-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 500-832295/24-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

### Analysis Batch: 832787

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | WI-GRO | 832295 |
| 500-273743-2 | B2960 | Total/NA | Solid | WI-GRO | 832295 |
| LB3 500-832295/21-A | Method Blank | Total/NA | Solid | WI-GRO | 832295 |
| LCS 500-832295/23-A | Lab Control Sample | Total/NA | Solid | WI-GRO | 832295 |
| LCSD 500-832295/24-A | Lab Control Sample Dup | Total/NA | Solid | WI-GRO | 832295 |

## GC Semi VOA

### Prep Batch: 831890

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | WI DRO PREP | |
| 500-273743-2 | B2960 | Total/NA | Solid | WI DRO PREP | |
| MB 500-831890/1-A | Method Blank | Total/NA | Solid | WI DRO PREP | |
| LCS 500-831890/2-A | Lab Control Sample | Total/NA | Solid | WI DRO PREP | |
| LCSD 500-831890/3-A | Lab Control Sample Dup | Total/NA | Solid | WI DRO PREP | |

### Analysis Batch: 832058

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 500-831890/1-A | Method Blank | Total/NA | Solid | WI-DRO | 831890 |
| LCS 500-831890/2-A | Lab Control Sample | Total/NA | Solid | WI-DRO | 831890 |
| LCSD 500-831890/3-A | Lab Control Sample Dup | Total/NA | Solid | WI-DRO | 831890 |

### Prep Batch: 832112

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 3541 | |
| 500-273743-2 | B2960 | Total/NA | Solid | 3541 | |
| MB 500-832112/1-A | Method Blank | Total/NA | Solid | 3541 | |
| LCS 500-832112/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| 500-273743-1 MS | Wash Rack | Total/NA | Solid | 3541 | |
| 500-273743-1 MSD | Wash Rack | Total/NA | Solid | 3541 | |

### Analysis Batch: 832152

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | WI-DRO | 831890 |
| 500-273743-2 | B2960 | Total/NA | Solid | WI-DRO | 831890 |

### Analysis Batch: 832371

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 8082A | 832112 |
| 500-273743-2 | B2960 | Total/NA | Solid | 8082A | 832112 |
| MB 500-832112/1-A | Method Blank | Total/NA | Solid | 8082A | 832112 |
| LCS 500-832112/2-A | Lab Control Sample | Total/NA | Solid | 8082A | 832112 |
| 500-273743-1 MS | Wash Rack | Total/NA | Solid | 8082A | 832112 |

## GC Semi VOA (Continued)

### Analysis Batch: 832371 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 MSD | Wash Rack | Total/NA | Solid | 8082A | 832112 |

## Metals

### Leach Batch: 832354

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | TCLP | Solid | 1311 | |
| 500-273743-2 | B2960 | TCLP | Solid | 1311 | |
| LB 500-832354/1-B | Method Blank | TCLP | Solid | 1311 | |
| LB 500-832354/1-C | Method Blank | TCLP | Solid | 1311 | |

### Prep Batch: 832598

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | TCLP | Solid | 3010A | 832354 |
| 500-273743-2 | B2960 | TCLP | Solid | 3010A | 832354 |
| LB 500-832354/1-B | Method Blank | TCLP | Solid | 3010A | 832354 |
| LCS 500-832598/2-A | Lab Control Sample | Total/NA | Solid | 3010A | |

### Prep Batch: 832804

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | TCLP | Solid | 7470A | 832354 |
| 500-273743-2 | B2960 | TCLP | Solid | 7470A | 832354 |
| LB 500-832354/1-C | Method Blank | TCLP | Solid | 7470A | 832354 |
| MB 500-832804/12-A | Method Blank | Total/NA | Solid | 7470A | |
| LCS 500-832804/14-A | Lab Control Sample | Total/NA | Solid | 7470A | |

### Analysis Batch: 832922

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | TCLP | Solid | 6010D | 832598 |
| 500-273743-2 | B2960 | TCLP | Solid | 6010D | 832598 |
| LB 500-832354/1-B | Method Blank | TCLP | Solid | 6010D | 832598 |
| LCS 500-832598/2-A | Lab Control Sample | Total/NA | Solid | 6010D | 832598 |

### Analysis Batch: 832962

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | TCLP | Solid | 7470A | 832804 |
| 500-273743-2 | B2960 | TCLP | Solid | 7470A | 832804 |
| LB 500-832354/1-C | Method Blank | TCLP | Solid | 7470A | 832804 |
| MB 500-832804/12-A | Method Blank | Total/NA | Solid | 7470A | 832804 |
| LCS 500-832804/14-A | Lab Control Sample | Total/NA | Solid | 7470A | 832804 |

### Prep Batch: 833112

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 3050B | |
| 500-273743-2 | B2960 | Total/NA | Solid | 3050B | |
| MB 500-833112/1-A | Method Blank | Total/NA | Solid | 3050B | |
| LCS 500-833112/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |

### Prep Batch: 833332

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 7471B | |

## Metals (Continued)

### Prep Batch: 833332 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-2 | B2960 | Total/NA | Solid | 7471B | |
| MB 500-833332/12-A | Method Blank | Total/NA | Solid | 7471B | |
| LCS 500-833332/13-A | Lab Control Sample | Total/NA | Solid | 7471B | |

### Analysis Batch: 833485

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 6010D | 833112 |
| 500-273743-2 | B2960 | Total/NA | Solid | 6010D | 833112 |
| MB 500-833112/1-A | Method Blank | Total/NA | Solid | 6010D | 833112 |
| LCS 500-833112/2-A | Lab Control Sample | Total/NA | Solid | 6010D | 833112 |

### Analysis Batch: 833552

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 7471B | 833332 |
| 500-273743-2 | B2960 | Total/NA | Solid | 7471B | 833332 |
| MB 500-833332/12-A | Method Blank | Total/NA | Solid | 7471B | 833332 |
| LCS 500-833332/13-A | Lab Control Sample | Total/NA | Solid | 7471B | 833332 |

## General Chemistry

### Analysis Batch: 832087

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | Moisture | |
| 500-273743-2 | B2960 | Total/NA | Solid | Moisture | |
| 500-273743-1 DU | Wash Rack | Total/NA | Solid | Moisture | |

### Analysis Batch: 833429

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 9095B | |
| 500-273743-2 | B2960 | Total/NA | Solid | 9095B | |

## Geotechnical

### Analysis Batch: 219821

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | D422 | |
| 500-273743-2 | B2960 | Total/NA | Solid | D422 | |

# Surrogate Summary

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

## Method: 8260D - Volatile Organic Compounds by 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) |
| 500-273743-1 | Wash Rack | 98 | 84 | 100 | 102 |
| 500-273743-2 | B2960 | 98 | 81 | 96 | 104 |
| LB3 500-832295/21-A | Method Blank | 96 | 92 | 91 | 100 |
| LCS 500-832295/22-A | Lab Control Sample | 94 | 96 | 90 | 100 |
| LCS 500-832878/4 | Lab Control Sample | 102 | 81 | 98 | 100 |
| LCS 500-833061/4 | Lab Control Sample | 93 | 95 | 88 | 102 |
| LCS 500-833063/4 | Lab Control Sample | 93 | 101 | 105 | 99 |
| LCSD 500-832878/5 | Lab Control Sample Dup | 101 | 79 | 97 | 103 |
| LCSD 500-833061/5 | Lab Control Sample Dup | 93 | 96 | 90 | 101 |
| MB 500-832878/7 | Method Blank | 97 | 80 | 98 | 105 |
| MB 500-833061/8 | Method Blank | 98 | 97 | 91 | 101 |
| MB 500-833063/8 | Method Blank | 94 | 101 | 106 | 98 |

**Surrogate Legend**

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

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

**Matrix: Solid** — **Prep Type: TCLP**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | TOL | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (75-126) | (75-120) | (72-124) | (75-120) |
| 500-273743-1 | Wash Rack | 106 | 98 | 95 | 101 |
| 500-273743-2 | B2960 | 107 | 98 | 93 | 103 |

**Surrogate Legend**

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

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

**Matrix: Solid** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|---|---|---|---|---|---|---|---|
| | | FBP | 2FP | NBZ | PHL | TPHL | TBP |
| Lab Sample ID | Client Sample ID | (43-145) | (31-166) | (37-147) | (30-153) | (42-157) | (31-143) |
| 500-273743-1 | Wash Rack | 96 | 91 | 105 | 93 | 95 | 104 |
| 500-273743-2 | B2960 | 83 | 74 | 90 | 76 | 91 | 99 |
| LCS 500-832145/2-A | Lab Control Sample | 91 | 97 | 99 | 102 | 100 | 79 |
| MB 500-832145/1-A | Method Blank | 85 | 91 | 96 | 93 | 98 | 71 |

**Surrogate Legend**

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

# Surrogate Summary

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

## 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) |
| 500-273743-1 | Wash Rack | 90 | 98 |
| 500-273743-1 MS | Wash Rack | 90 | 86 |
| 500-273743-1 MSD | Wash Rack | 88 | 110 |
| 500-273743-2 | B2960 | 89 | 117 |
| LCS 500-832112/2-A | Lab Control Sample | 97 | 70 |
| MB 500-832112/1-A | Method Blank | 75 | 88 |

**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 | |
| 500-273743-1 | Wash Rack | |
| 500-273743-2 | B2960 | |
| MB 500-831890/1-A | Method Blank | |

**Surrogate Legend**

C9 = n-Nonane

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

**Lab Sample ID: LB3 500-832295/21-A**
**Matrix: Solid**
**Analysis Batch: 833061**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 832295**

| Analyte | LB3 Result | LB3 Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.0061 | | 0.013 | 0.0061 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Bromobenzene | <0.030 | | 0.050 | 0.030 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Bromochloromethane | <0.025 | | 0.050 | 0.025 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Bromodichloromethane | <0.028 | | 0.050 | 0.028 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Bromoform | <0.048 | | 0.050 | 0.048 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Bromomethane | <0.090 | | 0.15 | 0.090 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Carbon tetrachloride | <0.021 | | 0.050 | 0.021 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Chlorobenzene | <0.021 | | 0.050 | 0.021 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Chloroethane | <0.024 | | 0.25 | 0.024 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Chloroform | <0.046 | | 0.10 | 0.046 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Chloromethane | <0.039 | | 0.25 | 0.039 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 2-Chlorotoluene | <0.018 | | 0.050 | 0.018 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 4-Chlorotoluene | <0.017 | | 0.050 | 0.017 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| cis-1,2-Dichloroethene | <0.021 | | 0.050 | 0.021 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| cis-1,3-Dichloropropene | <0.026 | | 0.050 | 0.026 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Dibromochloromethane | <0.041 | | 0.050 | 0.041 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2-Dibromo-3-Chloropropane | <0.20 | | 0.25 | 0.20 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2-Dibromoethane | <0.028 | | 0.050 | 0.028 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Dibromomethane | <0.029 | | 0.050 | 0.029 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2-Dichlorobenzene | <0.024 | | 0.050 | 0.024 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,3-Dichlorobenzene | <0.020 | | 0.050 | 0.020 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,4-Dichlorobenzene | <0.023 | | 0.050 | 0.023 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Dichlorodifluoromethane | <0.088 | | 0.15 | 0.088 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,1-Dichloroethane | <0.018 | | 0.050 | 0.018 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2-Dichloroethane | <0.029 | | 0.050 | 0.029 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,1-Dichloroethene | <0.024 | | 0.050 | 0.024 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2-Dichloropropane | <0.019 | | 0.050 | 0.019 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,3-Dichloropropane | <0.028 | | 0.050 | 0.028 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 2,2-Dichloropropane | <0.024 | | 0.25 | 0.024 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,1-Dichloropropene | <0.017 | | 0.050 | 0.017 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Ethylbenzene | <0.0086 | | 0.013 | 0.0086 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Hexachlorobutadiene | <0.027 | | 0.050 | 0.027 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Isopropylbenzene | <0.015 | | 0.050 | 0.015 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Isopropyl ether | <0.019 | | 0.050 | 0.019 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Methylene Chloride | <0.11 | | 0.25 | 0.11 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Methyl tert-butyl ether | <0.022 | | 0.050 | 0.022 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Naphthalene | <0.022 | | 0.050 | 0.022 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| n-Butylbenzene | <0.016 | | 0.050 | 0.016 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| N-Propylbenzene | <0.016 | | 0.050 | 0.016 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| p-Isopropyltoluene | <0.015 | | 0.050 | 0.015 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| sec-Butylbenzene | <0.014 | | 0.050 | 0.014 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Styrene | <0.015 | | 0.050 | 0.015 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| tert-Butylbenzene | <0.013 | | 0.050 | 0.013 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,1,1,2-Tetrachloroethane | <0.033 | | 0.050 | 0.033 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,1,2,2-Tetrachloroethane | <0.032 | | 0.050 | 0.032 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Tetrachloroethene | <0.019 | | 0.050 | 0.019 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Toluene | <0.011 | | 0.013 | 0.011 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| trans-1,2-Dichloroethene | <0.022 | | 0.050 | 0.022 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |

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

**Lab Sample ID: LB3 500-832295/21-A**
**Matrix: Solid**
**Analysis Batch: 833061**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 832295**

| Analyte | LB3 Result | LB3 Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | <0.032 | | 0.050 | 0.032 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2,3-Trichlorobenzene | <0.018 | | 0.050 | 0.018 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2,4-Trichlorobenzene | <0.015 | | 0.050 | 0.015 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,1,1-Trichloroethane | <0.023 | | 0.050 | 0.023 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,1,2-Trichloroethane | <0.037 | | 0.050 | 0.037 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Trichloroethene | <0.0074 | | 0.025 | 0.0074 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Trichlorofluoromethane | <0.022 | | 0.050 | 0.022 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2,3-Trichloropropane | <0.075 | | 0.10 | 0.075 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2,4-Trimethylbenzene | <0.015 | | 0.050 | 0.015 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,3,5-Trimethylbenzene | <0.014 | | 0.050 | 0.014 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Vinyl chloride | <0.023 | | 0.050 | 0.023 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Xylenes, Total | <0.012 | | 0.025 | 0.012 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |

| *Surrogate* | *LB3 %Recovery* | *LB3 Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *96* | | *72 - 124* | *09/02/25 18:14* | *09/09/25 15:15* | *50* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 120* | *09/02/25 18:14* | *09/09/25 15:15* | *50* |
| *1,2-Dichloroethane-d4 (Surr)* | *91* | | *75 - 126* | *09/02/25 18:14* | *09/09/25 15:15* | *50* |
| *Toluene-d8 (Surr)* | *100* | | *75 - 120* | *09/02/25 18:14* | *09/09/25 15:15* | *50* |

**Lab Sample ID: LCS 500-832295/22-A**
**Matrix: Solid**
**Analysis Batch: 833061**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832295**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 2.50 | 2.48 | | mg/Kg | | 99 | 70 - 120 |
| Bromobenzene | 2.50 | 2.54 | | mg/Kg | | 102 | 70 - 122 |
| Bromochloromethane | 2.50 | 2.60 | | mg/Kg | | 104 | 65 - 122 |
| Bromodichloromethane | 2.50 | 2.47 | | mg/Kg | | 99 | 69 - 120 |
| Bromoform | 2.50 | 2.57 | | mg/Kg | | 103 | 56 - 132 |
| Bromomethane | 2.50 | 0.531 | *- | mg/Kg | | 21 | 40 - 152 |
| Carbon tetrachloride | 2.50 | 2.13 | | mg/Kg | | 85 | 59 - 133 |
| Chlorobenzene | 2.50 | 2.62 | | mg/Kg | | 105 | 70 - 120 |
| Chloroethane | 2.50 | 0.652 | *- | mg/Kg | | 26 | 48 - 136 |
| Chloroform | 2.50 | 2.53 | | mg/Kg | | 101 | 70 - 120 |
| Chloromethane | 2.50 | 1.75 | | mg/Kg | | 70 | 56 - 152 |
| 2-Chlorotoluene | 2.50 | 2.37 | | mg/Kg | | 95 | 70 - 125 |
| 4-Chlorotoluene | 2.50 | 2.40 | | mg/Kg | | 96 | 68 - 124 |
| cis-1,2-Dichloroethene | 2.50 | 2.53 | | mg/Kg | | 101 | 70 - 125 |
| cis-1,3-Dichloropropene | 2.50 | 2.45 | | mg/Kg | | 98 | 64 - 127 |
| Dibromochloromethane | 2.50 | 2.54 | | mg/Kg | | 101 | 68 - 125 |
| 1,2-Dibromo-3-Chloropropane | 2.50 | 2.14 | | mg/Kg | | 86 | 56 - 123 |
| 1,2-Dibromoethane | 2.50 | 2.65 | | mg/Kg | | 106 | 70 - 125 |
| Dibromomethane | 2.50 | 2.52 | | mg/Kg | | 101 | 70 - 120 |
| 1,2-Dichlorobenzene | 2.50 | 2.62 | | mg/Kg | | 105 | 70 - 125 |
| 1,3-Dichlorobenzene | 2.50 | 2.58 | | mg/Kg | | 103 | 70 - 125 |
| 1,4-Dichlorobenzene | 2.50 | 2.58 | | mg/Kg | | 103 | 70 - 120 |
| Dichlorodifluoromethane | 2.50 | 1.26 | | mg/Kg | | 50 | 40 - 159 |
| 1,1-Dichloroethane | 2.50 | 2.23 | | mg/Kg | | 89 | 70 - 125 |

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

**Lab Sample ID: LCS 500-832295/22-A**
**Matrix: Solid**
**Analysis Batch: 833061**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832295**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 2.50 | 2.26 | | mg/Kg | | 90 | 68 - 127 |
| 1,1-Dichloroethene | 2.50 | 2.18 | | mg/Kg | | 87 | 67 - 122 |
| 1,2-Dichloropropane | 2.50 | 2.32 | | mg/Kg | | 93 | 67 - 130 |
| 1,3-Dichloropropane | 2.50 | 2.69 | | mg/Kg | | 107 | 62 - 136 |
| 2,2-Dichloropropane | 2.50 | 1.87 | | mg/Kg | | 75 | 58 - 139 |
| 1,1-Dichloropropene | 2.50 | 2.32 | | mg/Kg | | 93 | 70 - 121 |
| Ethylbenzene | 2.50 | 2.51 | | mg/Kg | | 100 | 70 - 123 |
| Hexachlorobutadiene | 2.50 | 2.61 | | mg/Kg | | 104 | 51 - 150 |
| Isopropylbenzene | 2.50 | 2.28 | | mg/Kg | | 91 | 70 - 126 |
| Methylene Chloride | 2.50 | 2.43 | | mg/Kg | | 97 | 69 - 125 |
| Methyl tert-butyl ether | 2.50 | 2.47 | | mg/Kg | | 99 | 55 - 123 |
| Naphthalene | 2.50 | 1.86 | | mg/Kg | | 75 | 53 - 144 |
| n-Butylbenzene | 2.50 | 2.28 | | mg/Kg | | 91 | 68 - 125 |
| N-Propylbenzene | 2.50 | 2.32 | | mg/Kg | | 93 | 69 - 127 |
| p-Isopropyltoluene | 2.50 | 2.38 | | mg/Kg | | 95 | 70 - 125 |
| sec-Butylbenzene | 2.50 | 2.31 | | mg/Kg | | 92 | 70 - 123 |
| Styrene | 2.50 | 2.68 | | mg/Kg | | 107 | 70 - 120 |
| tert-Butylbenzene | 2.50 | 2.31 | | mg/Kg | | 92 | 70 - 121 |
| 1,1,1,2-Tetrachloroethane | 2.50 | 2.58 | | mg/Kg | | 103 | 70 - 125 |
| 1,1,2,2-Tetrachloroethane | 2.50 | 2.55 | | mg/Kg | | 102 | 62 - 140 |
| Tetrachloroethene | 2.50 | 2.44 | | mg/Kg | | 98 | 70 - 128 |
| Toluene | 2.50 | 2.41 | | mg/Kg | | 97 | 70 - 125 |
| trans-1,2-Dichloroethene | 2.50 | 2.39 | | mg/Kg | | 96 | 70 - 125 |
| trans-1,3-Dichloropropene | 2.50 | 2.46 | | mg/Kg | | 98 | 62 - 128 |
| 1,2,3-Trichlorobenzene | 2.50 | 1.95 | | mg/Kg | | 78 | 51 - 145 |
| 1,2,4-Trichlorobenzene | 2.50 | 2.27 | | mg/Kg | | 91 | 57 - 137 |
| 1,1,1-Trichloroethane | 2.50 | 2.28 | | mg/Kg | | 91 | 70 - 125 |
| 1,1,2-Trichloroethane | 2.50 | 2.76 | | mg/Kg | | 111 | 71 - 130 |
| Trichloroethene | 2.50 | 2.48 | | mg/Kg | | 99 | 70 - 125 |
| Trichlorofluoromethane | 2.50 | 1.66 | | mg/Kg | | 66 | 55 - 128 |
| 1,2,3-Trichloropropane | 2.50 | 2.54 | | mg/Kg | | 102 | 50 - 133 |
| 1,2,4-Trimethylbenzene | 2.50 | 2.37 | | mg/Kg | | 95 | 70 - 123 |
| 1,3,5-Trimethylbenzene | 2.50 | 2.35 | | mg/Kg | | 94 | 70 - 123 |
| Vinyl chloride | 2.50 | 1.79 | | mg/Kg | | 72 | 64 - 126 |
| Xylenes, Total | 5.00 | 4.88 | | mg/Kg | | 98 | 70 - 125 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *96* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *90* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *100* | | *75 - 120* |

**Lab Sample ID: MB 500-832878/7**
**Matrix: Solid**
**Analysis Batch: 832878**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00012 | | 0.00025 | 0.00012 | mg/Kg | | | 09/08/25 12:51 | 1 |

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

**Lab Sample ID: MB 500-832878/7**
**Matrix: Solid**
**Analysis Batch: 832878**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | <0.00060 | | 0.0010 | 0.00060 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Bromochloromethane | <0.00050 | | 0.0010 | 0.00050 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Bromodichloromethane | <0.00057 | | 0.0010 | 0.00057 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Bromoform | <0.00096 | | 0.0010 | 0.00096 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Bromomethane | <0.0018 | | 0.0030 | 0.0018 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Carbon tetrachloride | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Chlorobenzene | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Chloroethane | <0.00047 | | 0.0050 | 0.00047 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Chloroform | 0.000948 | J | 0.0020 | 0.00092 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Chloromethane | <0.00079 | | 0.0050 | 0.00079 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 2-Chlorotoluene | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 4-Chlorotoluene | <0.00034 | | 0.0010 | 0.00034 | mg/Kg | | | 09/08/25 12:51 | 1 |
| cis-1,2-Dichloroethene | <0.00042 | | 0.0010 | 0.00042 | mg/Kg | | | 09/08/25 12:51 | 1 |
| cis-1,3-Dichloropropene | <0.00052 | | 0.0010 | 0.00052 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Dibromochloromethane | <0.00083 | | 0.0010 | 0.00083 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.0041 | | 0.0050 | 0.0041 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2-Dibromoethane | <0.00056 | | 0.0010 | 0.00056 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Dibromomethane | <0.00058 | | 0.0010 | 0.00058 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2-Dichlorobenzene | <0.00048 | | 0.0010 | 0.00048 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,3-Dichlorobenzene | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,4-Dichlorobenzene | <0.00045 | | 0.0010 | 0.00045 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Dichlorodifluoromethane | <0.0018 | | 0.0030 | 0.0018 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,1-Dichloroethane | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2-Dichloroethane | <0.00058 | | 0.0010 | 0.00058 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,1-Dichloroethene | <0.00048 | | 0.0010 | 0.00048 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2-Dichloropropane | <0.00037 | | 0.0010 | 0.00037 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,3-Dichloropropane | <0.00056 | | 0.0010 | 0.00056 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 2,2-Dichloropropane | <0.00048 | | 0.0050 | 0.00048 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,1-Dichloropropene | <0.00033 | | 0.0010 | 0.00033 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Ethylbenzene | <0.00017 | | 0.00025 | 0.00017 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Hexachlorobutadiene | <0.00054 | | 0.0010 | 0.00054 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Isopropylbenzene | <0.00029 | | 0.0010 | 0.00029 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Isopropyl ether | <0.00038 | | 0.0010 | 0.00038 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Methylene Chloride | <0.0021 | | 0.0050 | 0.0021 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Methyl tert-butyl ether | <0.00043 | | 0.0010 | 0.00043 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Naphthalene | <0.00044 | | 0.0010 | 0.00044 | mg/Kg | | | 09/08/25 12:51 | 1 |
| n-Butylbenzene | <0.00033 | | 0.0010 | 0.00033 | mg/Kg | | | 09/08/25 12:51 | 1 |
| N-Propylbenzene | <0.00032 | | 0.0010 | 0.00032 | mg/Kg | | | 09/08/25 12:51 | 1 |
| p-Isopropyltoluene | <0.00029 | | 0.0010 | 0.00029 | mg/Kg | | | 09/08/25 12:51 | 1 |
| sec-Butylbenzene | <0.00027 | | 0.0010 | 0.00027 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Styrene | <0.00031 | | 0.0010 | 0.00031 | mg/Kg | | | 09/08/25 12:51 | 1 |
| tert-Butylbenzene | <0.00026 | | 0.0010 | 0.00026 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.00067 | | 0.0010 | 0.00067 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00065 | | 0.0010 | 0.00065 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Tetrachloroethene | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Toluene | <0.00021 | | 0.00025 | 0.00021 | mg/Kg | | | 09/08/25 12:51 | 1 |
| trans-1,2-Dichloroethene | <0.00044 | | 0.0010 | 0.00044 | mg/Kg | | | 09/08/25 12:51 | 1 |
| trans-1,3-Dichloropropene | <0.00063 | | 0.0010 | 0.00063 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2,3-Trichlorobenzene | <0.00035 | | 0.0010 | 0.00035 | mg/Kg | | | 09/08/25 12:51 | 1 |

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

**Lab Sample ID: MB 500-832878/7**
**Matrix: Solid**
**Analysis Batch: 832878**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | <0.00031 | | 0.0010 | 0.00031 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,1,1-Trichloroethane | <0.00045 | | 0.0010 | 0.00045 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,1,2-Trichloroethane | <0.00073 | | 0.0010 | 0.00073 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Trichloroethene | <0.00015 | | 0.00050 | 0.00015 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Trichlorofluoromethane | <0.00044 | | 0.0010 | 0.00044 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2,3-Trichloropropane | <0.0015 | | 0.0020 | 0.0015 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2,4-Trimethylbenzene | <0.00030 | | 0.0010 | 0.00030 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,3,5-Trimethylbenzene | <0.00029 | | 0.0010 | 0.00029 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Vinyl chloride | <0.00047 | | 0.0010 | 0.00047 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Xylenes, Total | <0.00024 | | 0.00050 | 0.00024 | mg/Kg | | | 09/08/25 12:51 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *72 - 124* | | *09/08/25 12:51* | *1* |
| *Dibromofluoromethane (Surr)* | *80* | | *75 - 120* | | *09/08/25 12:51* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *75 - 126* | | *09/08/25 12:51* | *1* |
| *Toluene-d8 (Surr)* | *105* | | *75 - 120* | | *09/08/25 12:51* | *1* |

**Lab Sample ID: LCS 500-832878/4**
**Matrix: Solid**
**Analysis Batch: 832878**

**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 | 0.0524 | | mg/Kg | | 105 | 70 - 120 |
| Bromobenzene | 0.0500 | 0.0519 | | mg/Kg | | 104 | 70 - 122 |
| Bromochloromethane | 0.0500 | 0.0561 | | mg/Kg | | 112 | 65 - 122 |
| Bromodichloromethane | 0.0500 | 0.0532 | | mg/Kg | | 106 | 69 - 120 |
| Bromoform | 0.0500 | 0.0539 | | mg/Kg | | 108 | 56 - 132 |
| Bromomethane | 0.0500 | 0.0444 | | mg/Kg | | 89 | 40 - 152 |
| Carbon tetrachloride | 0.0500 | 0.0546 | | mg/Kg | | 109 | 59 - 133 |
| Chlorobenzene | 0.0500 | 0.0522 | | mg/Kg | | 104 | 70 - 120 |
| Chloroethane | 0.0500 | 0.0505 | | mg/Kg | | 101 | 48 - 136 |
| Chloroform | 0.0500 | 0.0512 | | mg/Kg | | 102 | 70 - 120 |
| Chloromethane | 0.0500 | 0.0488 | | mg/Kg | | 98 | 56 - 152 |
| 2-Chlorotoluene | 0.0500 | 0.0471 | | mg/Kg | | 94 | 70 - 125 |
| 4-Chlorotoluene | 0.0500 | 0.0469 | | mg/Kg | | 94 | 68 - 124 |
| cis-1,2-Dichloroethene | 0.0500 | 0.0514 | | mg/Kg | | 103 | 70 - 125 |
| cis-1,3-Dichloropropene | 0.0500 | 0.0544 | | mg/Kg | | 109 | 64 - 127 |
| Dibromochloromethane | 0.0500 | 0.0594 | | mg/Kg | | 119 | 68 - 125 |
| 1,2-Dibromo-3-Chloropropane | 0.0500 | 0.0579 | | mg/Kg | | 116 | 56 - 123 |
| 1,2-Dibromoethane | 0.0500 | 0.0554 | | mg/Kg | | 111 | 70 - 125 |
| Dibromomethane | 0.0500 | 0.0540 | | mg/Kg | | 108 | 70 - 120 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0518 | | mg/Kg | | 104 | 70 - 125 |
| 1,3-Dichlorobenzene | 0.0500 | 0.0506 | | mg/Kg | | 101 | 70 - 125 |
| 1,4-Dichlorobenzene | 0.0500 | 0.0499 | | mg/Kg | | 100 | 70 - 120 |
| Dichlorodifluoromethane | 0.0500 | 0.0583 | | mg/Kg | | 117 | 40 - 159 |
| 1,1-Dichloroethane | 0.0500 | 0.0523 | | mg/Kg | | 105 | 70 - 125 |
| 1,2-Dichloroethane | 0.0500 | 0.0506 | | mg/Kg | | 101 | 68 - 127 |
| 1,1-Dichloroethene | 0.0500 | 0.0524 | | mg/Kg | | 105 | 67 - 122 |

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

**Lab Sample ID: LCS 500-832878/4**
**Matrix: Solid**
**Analysis Batch: 832878**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.0500 | 0.0545 | | mg/Kg | | 109 | 67 - 130 |
| 1,3-Dichloropropane | 0.0500 | 0.0539 | | mg/Kg | | 108 | 62 - 136 |
| 2,2-Dichloropropane | 0.0500 | 0.0528 | | mg/Kg | | 106 | 58 - 139 |
| 1,1-Dichloropropene | 0.0500 | 0.0491 | | mg/Kg | | 98 | 70 - 121 |
| Ethylbenzene | 0.0500 | 0.0499 | | mg/Kg | | 100 | 70 - 123 |
| Hexachlorobutadiene | 0.0500 | 0.0579 | | mg/Kg | | 116 | 51 - 150 |
| Isopropylbenzene | 0.0500 | 0.0505 | | mg/Kg | | 101 | 70 - 126 |
| Methylene Chloride | 0.0500 | 0.0513 | | mg/Kg | | 103 | 69 - 125 |
| Methyl tert-butyl ether | 0.0500 | 0.0550 | | mg/Kg | | 110 | 55 - 123 |
| Naphthalene | 0.0500 | 0.0622 | | mg/Kg | | 124 | 53 - 144 |
| n-Butylbenzene | 0.0500 | 0.0516 | | mg/Kg | | 103 | 68 - 125 |
| N-Propylbenzene | 0.0500 | 0.0472 | | mg/Kg | | 94 | 69 - 127 |
| p-Isopropyltoluene | 0.0500 | 0.0493 | | mg/Kg | | 99 | 70 - 125 |
| sec-Butylbenzene | 0.0500 | 0.0503 | | mg/Kg | | 101 | 70 - 123 |
| Styrene | 0.0500 | 0.0470 | | mg/Kg | | 94 | 70 - 120 |
| tert-Butylbenzene | 0.0500 | 0.0506 | | mg/Kg | | 101 | 70 - 121 |
| 1,1,1,2-Tetrachloroethane | 0.0500 | 0.0615 | | mg/Kg | | 123 | 70 - 125 |
| 1,1,2,2-Tetrachloroethane | 0.0500 | 0.0539 | | mg/Kg | | 108 | 62 - 140 |
| Tetrachloroethene | 0.0500 | 0.0506 | | mg/Kg | | 101 | 70 - 128 |
| Toluene | 0.0500 | 0.0510 | | mg/Kg | | 102 | 70 - 125 |
| trans-1,2-Dichloroethene | 0.0500 | 0.0504 | | mg/Kg | | 101 | 70 - 125 |
| trans-1,3-Dichloropropene | 0.0500 | 0.0555 | | mg/Kg | | 111 | 62 - 128 |
| 1,2,3-Trichlorobenzene | 0.0500 | 0.0531 | | mg/Kg | | 106 | 51 - 145 |
| 1,2,4-Trichlorobenzene | 0.0500 | 0.0587 | | mg/Kg | | 117 | 57 - 137 |
| 1,1,1-Trichloroethane | 0.0500 | 0.0512 | | mg/Kg | | 102 | 70 - 125 |
| 1,1,2-Trichloroethane | 0.0500 | 0.0532 | | mg/Kg | | 106 | 71 - 130 |
| Trichloroethene | 0.0500 | 0.0545 | | mg/Kg | | 109 | 70 - 125 |
| Trichlorofluoromethane | 0.0500 | 0.0442 | | mg/Kg | | 88 | 55 - 128 |
| 1,2,3-Trichloropropane | 0.0500 | 0.0556 | | mg/Kg | | 111 | 50 - 133 |
| 1,2,4-Trimethylbenzene | 0.0500 | 0.0489 | | mg/Kg | | 98 | 70 - 123 |
| 1,3,5-Trimethylbenzene | 0.0500 | 0.0460 | | mg/Kg | | 92 | 70 - 123 |
| Vinyl chloride | 0.0500 | 0.0473 | | mg/Kg | | 95 | 64 - 126 |
| Xylenes, Total | 0.100 | 0.0880 | | mg/Kg | | 88 | 70 - 125 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *102* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *81* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *100* | | *75 - 120* |

**Lab Sample ID: LCSD 500-832878/5**
**Matrix: Solid**
**Analysis Batch: 832878**

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0500 | 0.0525 | | mg/Kg | | 105 | 70 - 120 | 0 | 30 |
| Bromobenzene | 0.0500 | 0.0525 | | mg/Kg | | 105 | 70 - 122 | 1 | 30 |
| Bromochloromethane | 0.0500 | 0.0552 | | mg/Kg | | 110 | 65 - 122 | 2 | 30 |

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

**Lab Sample ID: LCSD 500-832878/5**
**Matrix: Solid**
**Analysis Batch: 832878**

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | 0.0500 | 0.0524 | | mg/Kg | | 105 | 69 - 120 | 2 | 30 |
| Bromoform | 0.0500 | 0.0552 | | mg/Kg | | 110 | 56 - 132 | 2 | 30 |
| Bromomethane | 0.0500 | 0.0470 | | mg/Kg | | 94 | 40 - 152 | 6 | 30 |
| Carbon tetrachloride | 0.0500 | 0.0552 | | mg/Kg | | 110 | 59 - 133 | 1 | 30 |
| Chlorobenzene | 0.0500 | 0.0528 | | mg/Kg | | 106 | 70 - 120 | 1 | 30 |
| Chloroethane | 0.0500 | 0.0496 | | mg/Kg | | 99 | 48 - 136 | 2 | 30 |
| Chloroform | 0.0500 | 0.0515 | | mg/Kg | | 103 | 70 - 120 | 1 | 30 |
| Chloromethane | 0.0500 | 0.0471 | | mg/Kg | | 94 | 56 - 152 | 4 | 30 |
| 2-Chlorotoluene | 0.0500 | 0.0483 | | mg/Kg | | 97 | 70 - 125 | 3 | 30 |
| 4-Chlorotoluene | 0.0500 | 0.0476 | | mg/Kg | | 95 | 68 - 124 | 1 | 30 |
| cis-1,2-Dichloroethene | 0.0500 | 0.0522 | | mg/Kg | | 104 | 70 - 125 | 2 | 30 |
| cis-1,3-Dichloropropene | 0.0500 | 0.0552 | | mg/Kg | | 110 | 64 - 127 | 1 | 30 |
| Dibromochloromethane | 0.0500 | 0.0596 | | mg/Kg | | 119 | 68 - 125 | 0 | 30 |
| 1,2-Dibromo-3-Chloropropane | 0.0500 | 0.0599 | | mg/Kg | | 120 | 56 - 123 | 3 | 30 |
| 1,2-Dibromoethane | 0.0500 | 0.0552 | | mg/Kg | | 110 | 70 - 125 | 0 | 30 |
| Dibromomethane | 0.0500 | 0.0533 | | mg/Kg | | 107 | 70 - 120 | 1 | 30 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0531 | | mg/Kg | | 106 | 70 - 125 | 2 | 30 |
| 1,3-Dichlorobenzene | 0.0500 | 0.0517 | | mg/Kg | | 103 | 70 - 125 | 2 | 30 |
| 1,4-Dichlorobenzene | 0.0500 | 0.0509 | | mg/Kg | | 102 | 70 - 120 | 2 | 30 |
| Dichlorodifluoromethane | 0.0500 | 0.0545 | | mg/Kg | | 109 | 40 - 159 | 7 | 30 |
| 1,1-Dichloroethane | 0.0500 | 0.0526 | | mg/Kg | | 105 | 70 - 125 | 1 | 30 |
| 1,2-Dichloroethane | 0.0500 | 0.0504 | | mg/Kg | | 101 | 68 - 127 | 1 | 30 |
| 1,1-Dichloroethene | 0.0500 | 0.0526 | | mg/Kg | | 105 | 67 - 122 | 0 | 30 |
| 1,2-Dichloropropane | 0.0500 | 0.0542 | | mg/Kg | | 108 | 67 - 130 | 1 | 30 |
| 1,3-Dichloropropane | 0.0500 | 0.0540 | | mg/Kg | | 108 | 62 - 136 | 0 | 30 |
| 2,2-Dichloropropane | 0.0500 | 0.0529 | | mg/Kg | | 106 | 58 - 139 | 0 | 30 |
| 1,1-Dichloropropene | 0.0500 | 0.0501 | | mg/Kg | | 100 | 70 - 121 | 2 | 30 |
| Ethylbenzene | 0.0500 | 0.0511 | | mg/Kg | | 102 | 70 - 123 | 2 | 30 |
| Hexachlorobutadiene | 0.0500 | 0.0592 | | mg/Kg | | 118 | 51 - 150 | 2 | 30 |
| Isopropylbenzene | 0.0500 | 0.0511 | | mg/Kg | | 102 | 70 - 126 | 1 | 30 |
| Methylene Chloride | 0.0500 | 0.0500 | | mg/Kg | | 100 | 69 - 125 | 3 | 30 |
| Methyl tert-butyl ether | 0.0500 | 0.0551 | | mg/Kg | | 110 | 55 - 123 | 0 | 30 |
| Naphthalene | 0.0500 | 0.0651 | | mg/Kg | | 130 | 53 - 144 | 5 | 30 |
| n-Butylbenzene | 0.0500 | 0.0530 | | mg/Kg | | 106 | 68 - 125 | 3 | 30 |
| N-Propylbenzene | 0.0500 | 0.0483 | | mg/Kg | | 97 | 69 - 127 | 2 | 30 |
| p-Isopropyltoluene | 0.0500 | 0.0506 | | mg/Kg | | 101 | 70 - 125 | 2 | 30 |
| sec-Butylbenzene | 0.0500 | 0.0521 | | mg/Kg | | 104 | 70 - 123 | 3 | 30 |
| Styrene | 0.0500 | 0.0483 | | mg/Kg | | 97 | 70 - 120 | 3 | 30 |
| tert-Butylbenzene | 0.0500 | 0.0520 | | mg/Kg | | 104 | 70 - 121 | 3 | 30 |
| 1,1,1,2-Tetrachloroethane | 0.0500 | 0.0619 | | mg/Kg | | 124 | 70 - 125 | 1 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0500 | 0.0546 | | mg/Kg | | 109 | 62 - 140 | 1 | 30 |
| Tetrachloroethene | 0.0500 | 0.0521 | | mg/Kg | | 104 | 70 - 128 | 3 | 30 |
| Toluene | 0.0500 | 0.0524 | | mg/Kg | | 105 | 70 - 125 | 3 | 30 |
| trans-1,2-Dichloroethene | 0.0500 | 0.0524 | | mg/Kg | | 105 | 70 - 125 | 4 | 30 |
| trans-1,3-Dichloropropene | 0.0500 | 0.0553 | | mg/Kg | | 111 | 62 - 128 | 0 | 30 |
| 1,2,3-Trichlorobenzene | 0.0500 | 0.0558 | | mg/Kg | | 112 | 51 - 145 | 5 | 30 |
| 1,2,4-Trichlorobenzene | 0.0500 | 0.0603 | | mg/Kg | | 121 | 57 - 137 | 3 | 30 |
| 1,1,1-Trichloroethane | 0.0500 | 0.0518 | | mg/Kg | | 104 | 70 - 125 | 1 | 30 |
| 1,1,2-Trichloroethane | 0.0500 | 0.0530 | | mg/Kg | | 106 | 71 - 130 | 0 | 30 |

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

**Lab Sample ID: LCSD 500-832878/5**
**Matrix: Solid**
**Analysis Batch: 832878**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | | | 0.0500 | 0.0548 | | mg/Kg | | 110 | 70 - 125 | 1 | 30 |
| Trichlorofluoromethane | | | 0.0500 | 0.0423 | | mg/Kg | | 85 | 55 - 128 | 4 | 30 |
| 1,2,3-Trichloropropane | | | 0.0500 | 0.0573 | | mg/Kg | | 115 | 50 - 133 | 3 | 30 |
| 1,2,4-Trimethylbenzene | | | 0.0500 | 0.0497 | | mg/Kg | | 99 | 70 - 123 | 2 | 30 |
| 1,3,5-Trimethylbenzene | | | 0.0500 | 0.0469 | | mg/Kg | | 94 | 70 - 123 | 2 | 30 |
| Vinyl chloride | | | 0.0500 | 0.0453 | | mg/Kg | | 91 | 64 - 126 | 4 | 30 |
| Xylenes, Total | | | 0.100 | 0.0901 | | mg/Kg | | 90 | 70 - 125 | 2 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *79* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *103* | | *75 - 120* |

**Lab Sample ID: MB 500-833061/8**
**Matrix: Solid**
**Analysis Batch: 833061**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00012 | | 0.00025 | 0.00012 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Bromobenzene | <0.00060 | | 0.0010 | 0.00060 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Bromochloromethane | <0.00050 | | 0.0010 | 0.00050 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Bromodichloromethane | <0.00057 | | 0.0010 | 0.00057 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Bromoform | <0.00096 | | 0.0010 | 0.00096 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Bromomethane | <0.0018 | | 0.0030 | 0.0018 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Carbon tetrachloride | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Chlorobenzene | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Chloroethane | <0.00047 | | 0.0050 | 0.00047 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Chloroform | <0.00092 | | 0.0020 | 0.00092 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Chloromethane | <0.00079 | | 0.0050 | 0.00079 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 2-Chlorotoluene | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 4-Chlorotoluene | <0.00034 | | 0.0010 | 0.00034 | mg/Kg | | | 09/09/25 11:03 | 1 |
| cis-1,2-Dichloroethene | <0.00042 | | 0.0010 | 0.00042 | mg/Kg | | | 09/09/25 11:03 | 1 |
| cis-1,3-Dichloropropene | <0.00052 | | 0.0010 | 0.00052 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Dibromochloromethane | <0.00083 | | 0.0010 | 0.00083 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.0041 | | 0.0050 | 0.0041 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2-Dibromoethane | <0.00056 | | 0.0010 | 0.00056 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Dibromomethane | <0.00058 | | 0.0010 | 0.00058 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2-Dichlorobenzene | <0.00048 | | 0.0010 | 0.00048 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,3-Dichlorobenzene | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,4-Dichlorobenzene | <0.00045 | | 0.0010 | 0.00045 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Dichlorodifluoromethane | <0.0018 | | 0.0030 | 0.0018 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,1-Dichloroethane | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2-Dichloroethane | <0.00058 | | 0.0010 | 0.00058 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,1-Dichloroethene | <0.00048 | | 0.0010 | 0.00048 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2-Dichloropropane | <0.00037 | | 0.0010 | 0.00037 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,3-Dichloropropane | <0.00056 | | 0.0010 | 0.00056 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 2,2-Dichloropropane | <0.00048 | | 0.0050 | 0.00048 | mg/Kg | | | 09/09/25 11:03 | 1 |

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

**Lab Sample ID: MB 500-833061/8**
**Matrix: Solid**
**Analysis Batch: 833061**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | <0.00033 | | 0.0010 | 0.00033 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Ethylbenzene | <0.00017 | | 0.00025 | 0.00017 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Hexachlorobutadiene | <0.00054 | | 0.0010 | 0.00054 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Isopropylbenzene | <0.00029 | | 0.0010 | 0.00029 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Isopropyl ether | <0.00038 | | 0.0010 | 0.00038 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Methylene Chloride | <0.0021 | | 0.0050 | 0.0021 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Methyl tert-butyl ether | <0.00043 | | 0.0010 | 0.00043 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Naphthalene | <0.00044 | | 0.0010 | 0.00044 | mg/Kg | | | 09/09/25 11:03 | 1 |
| n-Butylbenzene | <0.00033 | | 0.0010 | 0.00033 | mg/Kg | | | 09/09/25 11:03 | 1 |
| N-Propylbenzene | <0.00032 | | 0.0010 | 0.00032 | mg/Kg | | | 09/09/25 11:03 | 1 |
| p-Isopropyltoluene | <0.00029 | | 0.0010 | 0.00029 | mg/Kg | | | 09/09/25 11:03 | 1 |
| sec-Butylbenzene | <0.00027 | | 0.0010 | 0.00027 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Styrene | <0.00031 | | 0.0010 | 0.00031 | mg/Kg | | | 09/09/25 11:03 | 1 |
| tert-Butylbenzene | <0.00026 | | 0.0010 | 0.00026 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.00067 | | 0.0010 | 0.00067 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00065 | | 0.0010 | 0.00065 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Tetrachloroethene | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Toluene | <0.00021 | | 0.00025 | 0.00021 | mg/Kg | | | 09/09/25 11:03 | 1 |
| trans-1,2-Dichloroethene | <0.00044 | | 0.0010 | 0.00044 | mg/Kg | | | 09/09/25 11:03 | 1 |
| trans-1,3-Dichloropropene | <0.00063 | | 0.0010 | 0.00063 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2,3-Trichlorobenzene | <0.00035 | | 0.0010 | 0.00035 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2,4-Trichlorobenzene | <0.00031 | | 0.0010 | 0.00031 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,1,1-Trichloroethane | <0.00045 | | 0.0010 | 0.00045 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,1,2-Trichloroethane | <0.00073 | | 0.0010 | 0.00073 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Trichloroethene | <0.00015 | | 0.00050 | 0.00015 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Trichlorofluoromethane | <0.00044 | | 0.0010 | 0.00044 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2,3-Trichloropropane | <0.0015 | | 0.0020 | 0.0015 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2,4-Trimethylbenzene | <0.00030 | | 0.0010 | 0.00030 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,3,5-Trimethylbenzene | <0.00029 | | 0.0010 | 0.00029 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Vinyl chloride | <0.00047 | | 0.0010 | 0.00047 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Xylenes, Total | <0.00024 | | 0.00050 | 0.00024 | mg/Kg | | | 09/09/25 11:03 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *72 - 124* | | *09/09/25 11:03* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *75 - 120* | | *09/09/25 11:03* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *91* | | *75 - 126* | | *09/09/25 11:03* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *75 - 120* | | *09/09/25 11:03* | *1* |

**Lab Sample ID: LCS 500-833061/4**
**Matrix: Solid**
**Analysis Batch: 833061**

**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 | 0.0458 | | mg/Kg | | 92 | 70 - 120 |
| Bromobenzene | 0.0500 | 0.0483 | | mg/Kg | | 97 | 70 - 122 |
| Bromochloromethane | 0.0500 | 0.0493 | | mg/Kg | | 99 | 65 - 122 |
| Bromodichloromethane | 0.0500 | 0.0480 | | mg/Kg | | 96 | 69 - 120 |
| Bromoform | 0.0500 | 0.0507 | | mg/Kg | | 101 | 56 - 132 |

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

**Lab Sample ID: LCS 500-833061/4**
**Matrix: Solid**
**Analysis Batch: 833061**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Bromomethane | 0.0500 | 0.0422 | | mg/Kg | | 84 | 40 - 152 |
| Carbon tetrachloride | 0.0500 | 0.0406 | | mg/Kg | | 81 | 59 - 133 |
| Chlorobenzene | 0.0500 | 0.0492 | | mg/Kg | | 98 | 70 - 120 |
| Chloroethane | 0.0500 | 0.0420 | | mg/Kg | | 84 | 48 - 136 |
| Chloroform | 0.0500 | 0.0480 | | mg/Kg | | 96 | 70 - 120 |
| Chloromethane | 0.0500 | 0.0409 | | mg/Kg | | 82 | 56 - 152 |
| 2-Chlorotoluene | 0.0500 | 0.0441 | | mg/Kg | | 88 | 70 - 125 |
| 4-Chlorotoluene | 0.0500 | 0.0450 | | mg/Kg | | 90 | 68 - 124 |
| cis-1,2-Dichloroethene | 0.0500 | 0.0468 | | mg/Kg | | 94 | 70 - 125 |
| cis-1,3-Dichloropropene | 0.0500 | 0.0502 | | mg/Kg | | 100 | 64 - 127 |
| Dibromochloromethane | 0.0500 | 0.0505 | | mg/Kg | | 101 | 68 - 125 |
| 1,2-Dibromo-3-Chloropropane | 0.0500 | 0.0509 | | mg/Kg | | 102 | 56 - 123 |
| 1,2-Dibromoethane | 0.0500 | 0.0513 | | mg/Kg | | 103 | 70 - 125 |
| Dibromomethane | 0.0500 | 0.0485 | | mg/Kg | | 97 | 70 - 120 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0492 | | mg/Kg | | 98 | 70 - 125 |
| 1,3-Dichlorobenzene | 0.0500 | 0.0482 | | mg/Kg | | 96 | 70 - 125 |
| 1,4-Dichlorobenzene | 0.0500 | 0.0487 | | mg/Kg | | 97 | 70 - 120 |
| Dichlorodifluoromethane | 0.0500 | 0.0473 | | mg/Kg | | 95 | 40 - 159 |
| 1,1-Dichloroethane | 0.0500 | 0.0413 | | mg/Kg | | 83 | 70 - 125 |
| 1,2-Dichloroethane | 0.0500 | 0.0423 | | mg/Kg | | 85 | 68 - 127 |
| 1,1-Dichloroethene | 0.0500 | 0.0408 | | mg/Kg | | 82 | 67 - 122 |
| 1,2-Dichloropropane | 0.0500 | 0.0438 | | mg/Kg | | 88 | 67 - 130 |
| 1,3-Dichloropropane | 0.0500 | 0.0513 | | mg/Kg | | 103 | 62 - 136 |
| 2,2-Dichloropropane | 0.0500 | 0.0406 | | mg/Kg | | 81 | 58 - 139 |
| 1,1-Dichloropropene | 0.0500 | 0.0427 | | mg/Kg | | 85 | 70 - 121 |
| Ethylbenzene | 0.0500 | 0.0486 | | mg/Kg | | 97 | 70 - 123 |
| Hexachlorobutadiene | 0.0500 | 0.0484 | | mg/Kg | | 97 | 51 - 150 |
| Isopropylbenzene | 0.0500 | 0.0437 | | mg/Kg | | 87 | 70 - 126 |
| Methylene Chloride | 0.0500 | 0.0434 | | mg/Kg | | 87 | 69 - 125 |
| Methyl tert-butyl ether | 0.0500 | 0.0459 | | mg/Kg | | 92 | 55 - 123 |
| Naphthalene | 0.0500 | 0.0568 | | mg/Kg | | 114 | 53 - 144 |
| n-Butylbenzene | 0.0500 | 0.0428 | | mg/Kg | | 86 | 68 - 125 |
| N-Propylbenzene | 0.0500 | 0.0442 | | mg/Kg | | 88 | 69 - 127 |
| p-Isopropyltoluene | 0.0500 | 0.0439 | | mg/Kg | | 88 | 70 - 125 |
| sec-Butylbenzene | 0.0500 | 0.0424 | | mg/Kg | | 85 | 70 - 123 |
| Styrene | 0.0500 | 0.0501 | | mg/Kg | | 100 | 70 - 120 |
| tert-Butylbenzene | 0.0500 | 0.0427 | | mg/Kg | | 85 | 70 - 121 |
| 1,1,1,2-Tetrachloroethane | 0.0500 | 0.0497 | | mg/Kg | | 99 | 70 - 125 |
| 1,1,2,2-Tetrachloroethane | 0.0500 | 0.0499 | | mg/Kg | | 100 | 62 - 140 |
| Tetrachloroethene | 0.0500 | 0.0474 | | mg/Kg | | 95 | 70 - 128 |
| Toluene | 0.0500 | 0.0467 | | mg/Kg | | 93 | 70 - 125 |
| trans-1,2-Dichloroethene | 0.0500 | 0.0448 | | mg/Kg | | 90 | 70 - 125 |
| trans-1,3-Dichloropropene | 0.0500 | 0.0492 | | mg/Kg | | 98 | 62 - 128 |
| 1,2,3-Trichlorobenzene | 0.0500 | 0.0540 | | mg/Kg | | 108 | 51 - 145 |
| 1,2,4-Trichlorobenzene | 0.0500 | 0.0496 | | mg/Kg | | 99 | 57 - 137 |
| 1,1,1-Trichloroethane | 0.0500 | 0.0426 | | mg/Kg | | 85 | 70 - 125 |
| 1,1,2-Trichloroethane | 0.0500 | 0.0534 | | mg/Kg | | 107 | 71 - 130 |
| Trichloroethene | 0.0500 | 0.0452 | | mg/Kg | | 90 | 70 - 125 |
| Trichlorofluoromethane | 0.0500 | 0.0417 | | mg/Kg | | 83 | 55 - 128 |

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

**Lab Sample ID: LCS 500-833061/4**
**Matrix: Solid**
**Analysis Batch: 833061**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | | | 0.0500 | 0.0486 | | mg/Kg | | 97 | 50 - 133 | | |
| 1,2,4-Trimethylbenzene | | | 0.0500 | 0.0445 | | mg/Kg | | 89 | 70 - 123 | | |
| 1,3,5-Trimethylbenzene | | | 0.0500 | 0.0442 | | mg/Kg | | 88 | 70 - 123 | | |
| Vinyl chloride | | | 0.0500 | 0.0424 | | mg/Kg | | 85 | 64 - 126 | | |
| Xylenes, Total | | | 0.100 | 0.0921 | | mg/Kg | | 92 | 70 - 125 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *93* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *95* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *88* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *102* | | *75 - 120* |

**Lab Sample ID: LCSD 500-833061/5**
**Matrix: Solid**
**Analysis Batch: 833061**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.0500 | 0.0453 | | mg/Kg | | 91 | 70 - 120 | 1 | 30 |
| Bromobenzene | | | 0.0500 | 0.0475 | | mg/Kg | | 95 | 70 - 122 | 2 | 30 |
| Bromochloromethane | | | 0.0500 | 0.0493 | | mg/Kg | | 99 | 65 - 122 | 0 | 30 |
| Bromodichloromethane | | | 0.0500 | 0.0479 | | mg/Kg | | 96 | 69 - 120 | 0 | 30 |
| Bromoform | | | 0.0500 | 0.0495 | | mg/Kg | | 99 | 56 - 132 | 2 | 30 |
| Bromomethane | | | 0.0500 | 0.0446 | | mg/Kg | | 89 | 40 - 152 | 5 | 30 |
| Carbon tetrachloride | | | 0.0500 | 0.0402 | | mg/Kg | | 80 | 59 - 133 | 1 | 30 |
| Chlorobenzene | | | 0.0500 | 0.0483 | | mg/Kg | | 97 | 70 - 120 | 2 | 30 |
| Chloroethane | | | 0.0500 | 0.0429 | | mg/Kg | | 86 | 48 - 136 | 2 | 30 |
| Chloroform | | | 0.0500 | 0.0478 | | mg/Kg | | 96 | 70 - 120 | 0 | 30 |
| Chloromethane | | | 0.0500 | 0.0429 | | mg/Kg | | 86 | 56 - 152 | 5 | 30 |
| 2-Chlorotoluene | | | 0.0500 | 0.0442 | | mg/Kg | | 88 | 70 - 125 | 0 | 30 |
| 4-Chlorotoluene | | | 0.0500 | 0.0448 | | mg/Kg | | 90 | 68 - 124 | 0 | 30 |
| cis-1,2-Dichloroethene | | | 0.0500 | 0.0468 | | mg/Kg | | 94 | 70 - 125 | 0 | 30 |
| cis-1,3-Dichloropropene | | | 0.0500 | 0.0494 | | mg/Kg | | 99 | 64 - 127 | 2 | 30 |
| Dibromochloromethane | | | 0.0500 | 0.0500 | | mg/Kg | | 100 | 68 - 125 | 1 | 30 |
| 1,2-Dibromo-3-Chloropropane | | | 0.0500 | 0.0519 | | mg/Kg | | 104 | 56 - 123 | 2 | 30 |
| 1,2-Dibromoethane | | | 0.0500 | 0.0502 | | mg/Kg | | 100 | 70 - 125 | 2 | 30 |
| Dibromomethane | | | 0.0500 | 0.0489 | | mg/Kg | | 98 | 70 - 120 | 1 | 30 |
| 1,2-Dichlorobenzene | | | 0.0500 | 0.0492 | | mg/Kg | | 98 | 70 - 125 | 0 | 30 |
| 1,3-Dichlorobenzene | | | 0.0500 | 0.0482 | | mg/Kg | | 96 | 70 - 125 | 0 | 30 |
| 1,4-Dichlorobenzene | | | 0.0500 | 0.0486 | | mg/Kg | | 97 | 70 - 120 | 0 | 30 |
| Dichlorodifluoromethane | | | 0.0500 | 0.0480 | | mg/Kg | | 96 | 40 - 159 | 2 | 30 |
| 1,1-Dichloroethane | | | 0.0500 | 0.0403 | | mg/Kg | | 81 | 70 - 125 | 2 | 30 |
| 1,2-Dichloroethane | | | 0.0500 | 0.0422 | | mg/Kg | | 84 | 68 - 127 | 0 | 30 |
| 1,1-Dichloroethene | | | 0.0500 | 0.0392 | | mg/Kg | | 78 | 67 - 122 | 4 | 30 |
| 1,2-Dichloropropane | | | 0.0500 | 0.0434 | | mg/Kg | | 87 | 67 - 130 | 1 | 30 |
| 1,3-Dichloropropane | | | 0.0500 | 0.0504 | | mg/Kg | | 101 | 62 - 136 | 2 | 30 |
| 2,2-Dichloropropane | | | 0.0500 | 0.0398 | | mg/Kg | | 80 | 58 - 139 | 2 | 30 |
| 1,1-Dichloropropene | | | 0.0500 | 0.0411 | | mg/Kg | | 82 | 70 - 121 | 4 | 30 |
| Ethylbenzene | | | 0.0500 | 0.0465 | | mg/Kg | | 93 | 70 - 123 | 4 | 30 |

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

**Lab Sample ID: LCSD 500-833061/5**
**Matrix: Solid**
**Analysis Batch: 833061**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | | | 0.0500 | 0.0496 | | mg/Kg | | 99 | 51 - 150 | 2 | 30 |
| Isopropylbenzene | | | 0.0500 | 0.0429 | | mg/Kg | | 86 | 70 - 126 | 2 | 30 |
| Methylene Chloride | | | 0.0500 | 0.0426 | | mg/Kg | | 85 | 69 - 125 | 2 | 30 |
| Methyl tert-butyl ether | | | 0.0500 | 0.0459 | | mg/Kg | | 92 | 55 - 123 | 0 | 30 |
| Naphthalene | | | 0.0500 | 0.0585 | | mg/Kg | | 117 | 53 - 144 | 3 | 30 |
| n-Butylbenzene | | | 0.0500 | 0.0426 | | mg/Kg | | 85 | 68 - 125 | 1 | 30 |
| N-Propylbenzene | | | 0.0500 | 0.0429 | | mg/Kg | | 86 | 69 - 127 | 3 | 30 |
| p-Isopropyltoluene | | | 0.0500 | 0.0429 | | mg/Kg | | 86 | 70 - 125 | 2 | 30 |
| sec-Butylbenzene | | | 0.0500 | 0.0417 | | mg/Kg | | 83 | 70 - 123 | 2 | 30 |
| Styrene | | | 0.0500 | 0.0490 | | mg/Kg | | 98 | 70 - 120 | 2 | 30 |
| tert-Butylbenzene | | | 0.0500 | 0.0419 | | mg/Kg | | 84 | 70 - 121 | 2 | 30 |
| 1,1,1,2-Tetrachloroethane | | | 0.0500 | 0.0487 | | mg/Kg | | 97 | 70 - 125 | 2 | 30 |
| 1,1,2,2-Tetrachloroethane | | | 0.0500 | 0.0494 | | mg/Kg | | 99 | 62 - 140 | 1 | 30 |
| Tetrachloroethene | | | 0.0500 | 0.0444 | | mg/Kg | | 89 | 70 - 128 | 6 | 30 |
| Toluene | | | 0.0500 | 0.0450 | | mg/Kg | | 90 | 70 - 125 | 4 | 30 |
| trans-1,2-Dichloroethene | | | 0.0500 | 0.0434 | | mg/Kg | | 87 | 70 - 125 | 3 | 30 |
| trans-1,3-Dichloropropene | | | 0.0500 | 0.0488 | | mg/Kg | | 98 | 62 - 128 | 1 | 30 |
| 1,2,3-Trichlorobenzene | | | 0.0500 | 0.0570 | | mg/Kg | | 114 | 51 - 145 | 5 | 30 |
| 1,2,4-Trichlorobenzene | | | 0.0500 | 0.0513 | | mg/Kg | | 103 | 57 - 137 | 3 | 30 |
| 1,1,1-Trichloroethane | | | 0.0500 | 0.0417 | | mg/Kg | | 83 | 70 - 125 | 2 | 30 |
| 1,1,2-Trichloroethane | | | 0.0500 | 0.0527 | | mg/Kg | | 105 | 71 - 130 | 1 | 30 |
| Trichloroethene | | | 0.0500 | 0.0442 | | mg/Kg | | 88 | 70 - 125 | 2 | 30 |
| Trichlorofluoromethane | | | 0.0500 | 0.0422 | | mg/Kg | | 84 | 55 - 128 | 1 | 30 |
| 1,2,3-Trichloropropane | | | 0.0500 | 0.0484 | | mg/Kg | | 97 | 50 - 133 | 0 | 30 |
| 1,2,4-Trimethylbenzene | | | 0.0500 | 0.0443 | | mg/Kg | | 89 | 70 - 123 | 1 | 30 |
| 1,3,5-Trimethylbenzene | | | 0.0500 | 0.0434 | | mg/Kg | | 87 | 70 - 123 | 2 | 30 |
| Vinyl chloride | | | 0.0500 | 0.0431 | | mg/Kg | | 86 | 64 - 126 | 2 | 30 |
| Xylenes, Total | | | 0.100 | 0.0896 | | mg/Kg | | 90 | 70 - 125 | 3 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *93* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *96* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *90* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *101* | | *75 - 120* |

**Lab Sample ID: MB 500-833063/8**
**Matrix: Solid**
**Analysis Batch: 833063**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.50 | | 1.0 | 0.50 | ug/L | | | 09/09/25 10:34 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *72 - 124* | | *09/09/25 10:34* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *75 - 120* | | *09/09/25 10:34* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *75 - 126* | | *09/09/25 10:34* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *75 - 120* | | *09/09/25 10:34* | *1* |

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

**Lab Sample ID: LCS 500-833063/4**
**Matrix: Solid**
**Analysis Batch: 833063**

**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 | 52.4 | | ug/L | | 105 | 70 - 120 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *93* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *101* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *99* | | *75 - 120* |

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-832145/1-A**
**Matrix: Solid**
**Analysis Batch: 832190**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 832145**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | <0.0068 | | 0.033 | 0.0068 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Acenaphthylene | <0.0056 | | 0.033 | 0.0056 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Anthracene | <0.0068 | | 0.033 | 0.0068 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Benzo[a]anthracene | <0.0070 | | 0.033 | 0.0070 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Benzo[a]pyrene | <0.032 | | 0.033 | 0.032 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Benzo[b]fluoranthene | <0.032 | | 0.033 | 0.032 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Benzo[g,h,i]perylene | <0.015 | | 0.033 | 0.015 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Benzoic acid | <0.20 | | 1.7 | 0.20 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Benzo[k]fluoranthene | <0.013 | | 0.033 | 0.013 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Benzyl alcohol | <0.081 | | 0.67 | 0.081 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Bis(2-chloroethoxy)methane | <0.012 | | 0.17 | 0.012 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Bis(2-chloroethyl)ether | <0.015 | | 0.17 | 0.015 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.13 | | 0.17 | 0.13 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 4-Bromophenyl phenyl ether | <0.023 | | 0.17 | 0.023 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Butyl benzyl phthalate | <0.017 | | 0.17 | 0.017 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Carbazole | <0.013 | | 0.17 | 0.013 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 4-Chloroaniline | <0.35 | | 0.67 | 0.35 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 4-Chloro-3-methylphenol | <0.028 | | 0.33 | 0.028 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2-Chloronaphthalene | <0.012 | | 0.17 | 0.012 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2-Chlorophenol | <0.011 | | 0.17 | 0.011 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 4-Chlorophenyl phenyl ether | <0.044 | | 0.17 | 0.044 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Chrysene | <0.0088 | | 0.033 | 0.0088 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Dibenz(a,h)anthracene | <0.033 | | 0.033 | 0.033 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Dibenzofuran | <0.012 | | 0.17 | 0.012 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 1,2-Dichlorobenzene | <0.014 | | 0.17 | 0.014 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 1,3-Dichlorobenzene | <0.015 | | 0.17 | 0.015 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 1,4-Dichlorobenzene | <0.016 | | 0.17 | 0.016 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 3,3'-Dichlorobenzidine | <0.15 | | 0.17 | 0.15 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,4-Dichlorophenol | <0.012 | | 0.33 | 0.012 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Diethyl phthalate | <0.015 | | 0.17 | 0.015 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,4-Dimethylphenol | <0.074 | | 0.33 | 0.074 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Dimethyl phthalate | <0.0072 | | 0.17 | 0.0072 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Di-n-butyl phthalate | <0.011 | | 0.17 | 0.011 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-832145/1-A**
**Matrix: Solid**
**Analysis Batch: 832190**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 832145**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | <0.19 | | 0.67 | 0.19 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,4-Dinitrophenol | <0.19 | | 0.67 | 0.19 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,4-Dinitrotoluene | <0.019 | | 0.17 | 0.019 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,6-Dinitrotoluene | <0.023 | | 0.17 | 0.023 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Di-n-octyl phthalate | <0.23 | | 0.33 | 0.23 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Fluoranthene | <0.0077 | | 0.033 | 0.0077 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Fluorene | <0.0098 | | 0.033 | 0.0098 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Hexachlorobenzene | <0.0064 | | 0.067 | 0.0064 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Hexachlorobutadiene | <0.019 | | 0.17 | 0.019 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Hexachlorocyclopentadiene | <0.35 | | 0.67 | 0.35 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Hexachloroethane | <0.017 | | 0.17 | 0.017 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.032 | | 0.033 | 0.032 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Isophorone | <0.017 | | 0.17 | 0.017 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 1-Methylnaphthalene | <0.0059 | | 0.067 | 0.0059 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2-Methylnaphthalene | <0.0067 | | 0.067 | 0.0067 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2-Methylphenol | <0.018 | | 0.17 | 0.018 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 3 & 4 Methylphenol | <0.024 | | 0.17 | 0.024 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Naphthalene | <0.0060 | | 0.033 | 0.0060 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2-Nitroaniline | <0.018 | | 0.17 | 0.018 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 3-Nitroaniline | <0.015 | | 0.33 | 0.015 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 4-Nitroaniline | <0.025 | | 0.33 | 0.025 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Nitrobenzene | <0.011 | | 0.033 | 0.011 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2-Nitrophenol | <0.023 | | 0.33 | 0.023 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 4-Nitrophenol | <0.36 | | 0.67 | 0.36 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| N-Nitrosodi-n-propylamine | <0.019 | | 0.067 | 0.019 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| N-Nitrosodiphenylamine | <0.066 | | 0.17 | 0.066 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.024 | | 0.17 | 0.024 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Pentachlorophenol | <0.37 | | 0.67 | 0.37 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Phenanthrene | <0.0072 | | 0.033 | 0.0072 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Phenol | <0.014 | | 0.17 | 0.014 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Pyrene | <0.0091 | | 0.033 | 0.0091 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Pyridine | <0.22 | | 0.67 | 0.22 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 1,2,4-Trichlorobenzene | <0.024 | | 0.17 | 0.024 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,4,5-Trichlorophenol | <0.013 | | 0.33 | 0.013 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,4,6-Trichlorophenol | <0.011 | | 0.33 | 0.011 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *85* | | *43 - 145* | *09/02/25 07:27* | *09/02/25 16:30* | *1* |
| *2-Fluorophenol (Surr)* | *91* | | *31 - 166* | *09/02/25 07:27* | *09/02/25 16:30* | *1* |
| *Nitrobenzene-d5 (Surr)* | *96* | | *37 - 147* | *09/02/25 07:27* | *09/02/25 16:30* | *1* |
| *Phenol-d5 (Surr)* | *93* | | *30 - 153* | *09/02/25 07:27* | *09/02/25 16:30* | *1* |
| *Terphenyl-d14 (Surr)* | *98* | | *42 - 157* | *09/02/25 07:27* | *09/02/25 16:30* | *1* |
| *2,4,6-Tribromophenol (Surr)* | *71* | | *31 - 143* | *09/02/25 07:27* | *09/02/25 16:30* | *1* |

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-832145/2-A**
**Matrix: Solid**
**Analysis Batch: 832190**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832145**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 3.33 | 2.97 | | mg/Kg | | 89 | 63 - 109 |
| Acenaphthylene | 3.33 | 3.20 | | mg/Kg | | 96 | 61 - 115 |
| Anthracene | 3.33 | 3.44 | | mg/Kg | | 103 | 68 - 120 |
| Benzo[a]anthracene | 3.33 | 3.10 | | mg/Kg | | 93 | 70 - 121 |
| Benzo[a]pyrene | 3.33 | 3.47 | | mg/Kg | | 104 | 73 - 132 |
| Benzo[b]fluoranthene | 3.33 | 3.37 | | mg/Kg | | 101 | 68 - 123 |
| Benzo[g,h,i]perylene | 3.33 | 3.05 | | mg/Kg | | 92 | 65 - 126 |
| Benzoic acid | 6.67 | 5.33 | | mg/Kg | | 80 | 10 - 135 |
| Benzo[k]fluoranthene | 3.33 | 3.22 | | mg/Kg | | 97 | 64 - 128 |
| Benzyl alcohol | 3.33 | 2.63 | | mg/Kg | | 79 | 35 - 108 |
| Bis(2-chloroethoxy)methane | 3.33 | 3.14 | | mg/Kg | | 94 | 54 - 102 |
| Bis(2-chloroethyl)ether | 3.33 | 3.19 | | mg/Kg | | 96 | 49 - 99 |
| Bis(2-ethylhexyl) phthalate | 3.33 | 3.51 | | mg/Kg | | 105 | 70 - 139 |
| 4-Bromophenyl phenyl ether | 3.33 | 3.07 | | mg/Kg | | 92 | 57 - 124 |
| Butyl benzyl phthalate | 3.33 | 3.55 | | mg/Kg | | 106 | 65 - 140 |
| Carbazole | 3.33 | 3.37 | | mg/Kg | | 101 | 68 - 120 |
| 4-Chloroaniline | 3.33 | 2.76 | | mg/Kg | | 83 | 22 - 110 |
| 4-Chloro-3-methylphenol | 3.33 | 3.25 | | mg/Kg | | 98 | 57 - 113 |
| 2-Chloronaphthalene | 3.33 | 3.00 | | mg/Kg | | 90 | 60 - 107 |
| 2-Chlorophenol | 3.33 | 3.09 | | mg/Kg | | 93 | 50 - 102 |
| 4-Chlorophenyl phenyl ether | 3.33 | 2.86 | | mg/Kg | | 86 | 60 - 112 |
| Chrysene | 3.33 | 3.03 | | mg/Kg | | 91 | 70 - 123 |
| Dibenz(a,h)anthracene | 3.33 | 3.47 | | mg/Kg | | 104 | 66 - 125 |
| Dibenzofuran | 3.33 | 3.02 | | mg/Kg | | 91 | 64 - 112 |
| 1,2-Dichlorobenzene | 3.33 | 2.83 | | mg/Kg | | 85 | 47 - 94 |
| 1,3-Dichlorobenzene | 3.33 | 2.77 | | mg/Kg | | 83 | 47 - 92 |
| 1,4-Dichlorobenzene | 3.33 | 2.82 | | mg/Kg | | 85 | 46 - 92 |
| 3,3'-Dichlorobenzidine | 3.33 | 2.68 | | mg/Kg | | 80 | 36 - 131 |
| 2,4-Dichlorophenol | 3.33 | 3.03 | | mg/Kg | | 91 | 51 - 109 |
| Diethyl phthalate | 3.33 | 2.99 | | mg/Kg | | 90 | 66 - 115 |
| 2,4-Dimethylphenol | 3.33 | 3.25 | *+ | mg/Kg | | 97 | 48 - 93 |
| Dimethyl phthalate | 3.33 | 3.02 | | mg/Kg | | 91 | 65 - 114 |
| Di-n-butyl phthalate | 3.33 | 3.38 | | mg/Kg | | 101 | 69 - 125 |
| 4,6-Dinitro-2-methylphenol | 6.67 | 6.85 | | mg/Kg | | 103 | 36 - 138 |
| 2,4-Dinitrophenol | 6.67 | 5.72 | | mg/Kg | | 86 | 10 - 130 |
| 2,4-Dinitrotoluene | 3.33 | 3.15 | | mg/Kg | | 95 | 65 - 120 |
| 2,6-Dinitrotoluene | 3.33 | 3.14 | | mg/Kg | | 94 | 66 - 117 |
| Di-n-octyl phthalate | 3.33 | 3.34 | | mg/Kg | | 100 | 61 - 131 |
| Fluoranthene | 3.33 | 3.15 | | mg/Kg | | 95 | 66 - 123 |
| Fluorene | 3.33 | 3.05 | | mg/Kg | | 92 | 62 - 113 |
| Hexachlorobenzene | 3.33 | 3.03 | | mg/Kg | | 91 | 52 - 126 |
| Hexachlorobutadiene | 3.33 | 2.63 | | mg/Kg | | 79 | 42 - 103 |
| Hexachlorocyclopentadiene | 3.33 | 2.46 | | mg/Kg | | 74 | 10 - 100 |
| Hexachloroethane | 3.33 | 2.94 | | mg/Kg | | 88 | 45 - 95 |
| Indeno[1,2,3-cd]pyrene | 3.33 | 3.66 | | mg/Kg | | 110 | 66 - 131 |
| Isophorone | 3.33 | 3.22 | | mg/Kg | | 96 | 47 - 108 |
| 1-Methylnaphthalene | 3.33 | 2.95 | | mg/Kg | | 89 | 58 - 101 |
| 2-Methylnaphthalene | 3.33 | 3.04 | | mg/Kg | | 91 | 58 - 103 |

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-832145/2-A**
**Matrix: Solid**
**Analysis Batch: 832190**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832145**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 2-Methylphenol | 3.33 | 3.48 | | mg/Kg | | 104 | 50 - 104 |
| 3 & 4 Methylphenol | 3.33 | 3.38 | | mg/Kg | | 101 | 49 - 109 |
| Naphthalene | 3.33 | 2.95 | | mg/Kg | | 89 | 54 - 98 |
| 2-Nitroaniline | 3.33 | 3.69 | | mg/Kg | | 111 | 61 - 126 |
| 3-Nitroaniline | 3.33 | 2.97 | | mg/Kg | | 89 | 44 - 124 |
| 4-Nitroaniline | 3.33 | 3.07 | | mg/Kg | | 92 | 60 - 115 |
| Nitrobenzene | 3.33 | 3.29 | | mg/Kg | | 99 | 52 - 105 |
| 2-Nitrophenol | 3.33 | 3.14 | | mg/Kg | | 94 | 41 - 114 |
| 4-Nitrophenol | 6.67 | 5.33 | | mg/Kg | | 80 | 45 - 126 |
| N-Nitrosodi-n-propylamine | 3.33 | 3.42 | | mg/Kg | | 103 | 48 - 110 |
| N-Nitrosodiphenylamine | 3.33 | 3.37 | | mg/Kg | | 101 | 67 - 112 |
| 2,2'-oxybis[1-chloropropane] | 3.33 | 3.75 | *+ | mg/Kg | | 112 | 43 - 111 |
| Pentachlorophenol | 6.67 | 5.40 | | mg/Kg | | 81 | 32 - 128 |
| Phenanthrene | 3.33 | 3.24 | | mg/Kg | | 97 | 65 - 115 |
| Phenol | 3.33 | 3.67 | | mg/Kg | | 110 | 52 - 110 |
| Pyrene | 3.33 | 3.29 | | mg/Kg | | 99 | 71 - 128 |
| Pyridine | 6.67 | 6.21 | *+ | mg/Kg | | 93 | 35 - 80 |
| 1,2,4-Trichlorobenzene | 3.33 | 2.76 | | mg/Kg | | 83 | 49 - 100 |
| 2,4,5-Trichlorophenol | 3.33 | 3.09 | | mg/Kg | | 93 | 48 - 121 |
| 2,4,6-Trichlorophenol | 3.33 | 2.93 | | mg/Kg | | 88 | 50 - 121 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *91* | | *43 - 145* |
| *2-Fluorophenol (Surr)* | *97* | | *31 - 166* |
| *Nitrobenzene-d5 (Surr)* | *99* | | *37 - 147* |
| *Phenol-d5 (Surr)* | *102* | | *30 - 153* |
| *Terphenyl-d14 (Surr)* | *100* | | *42 - 157* |
| *2,4,6-Tribromophenol (Surr)* | *79* | | *31 - 143* |

## Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

**Lab Sample ID: LB3 500-832295/21-A**
**Matrix: Solid**
**Analysis Batch: 832787**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 832295**

| Analyte | LB3 Result | LB3 Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| WI Gasoline Range Organics (C5-C10) | <750 | | 1500 | 750 | ug/Kg | | 09/02/25 18:14 | 09/05/25 18:03 | 50 |

**Lab Sample ID: LCS 500-832295/23-A**
**Matrix: Solid**
**Analysis Batch: 832787**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832295**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| WI Gasoline Range Organics (C5-C10) | 20000 | 19200 | | ug/Kg | | 96 | 80 - 120 |

## Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC) (Continued)

**Lab Sample ID: LCSD 500-832295/24-A**
**Matrix: Solid**
**Analysis Batch: 832787**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 832295**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WI Gasoline Range Organics (C5-C10) | | | 20000 | 18400 | | ug/Kg | | 92 | 80 - 120 | 4 | 20 |

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 500-832112/1-A**
**Matrix: Solid**
**Analysis Batch: 832371**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 832112**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | <6.6 | | 17 | 6.6 | ug/Kg | | 08/29/25 15:41 | 09/03/25 11:16 | 1 |
| PCB-1221 | <6.6 | | 17 | 6.6 | ug/Kg | | 08/29/25 15:41 | 09/03/25 11:16 | 1 |
| PCB-1232 | <4.5 | | 17 | 4.5 | ug/Kg | | 08/29/25 15:41 | 09/03/25 11:16 | 1 |
| PCB-1242 | <6.5 | | 17 | 6.5 | ug/Kg | | 08/29/25 15:41 | 09/03/25 11:16 | 1 |
| PCB-1248 | <7.9 | | 17 | 7.9 | ug/Kg | | 08/29/25 15:41 | 09/03/25 11:16 | 1 |
| PCB-1254 | <5.7 | | 17 | 5.7 | ug/Kg | | 08/29/25 15:41 | 09/03/25 11:16 | 1 |
| PCB-1260 | <6.3 | | 17 | 6.3 | ug/Kg | | 08/29/25 15:41 | 09/03/25 11:16 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *75* | | *49 - 129* | *08/29/25 15:41* | *09/03/25 11:16* | *1* |
| *DCB Decachlorobiphenyl* | *88* | | *37 - 121* | *08/29/25 15:41* | *09/03/25 11:16* | *1* |

**Lab Sample ID: LCS 500-832112/2-A**
**Matrix: Solid**
**Analysis Batch: 832371**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832112**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 167 | 170 | | ug/Kg | | 102 | 57 - 120 | | |
| PCB-1260 | | | 167 | 178 | | ug/Kg | | 107 | 61 - 125 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *97* | | *49 - 129* |
| *DCB Decachlorobiphenyl* | *70* | | *37 - 121* |

**Lab Sample ID: 500-273743-1 MS**
**Matrix: Solid**
**Analysis Batch: 832371**

**Client Sample ID: Wash Rack**
**Prep Type: Total/NA**
**Prep Batch: 832112**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | <7.2 | | 183 | 160 | | ug/Kg | ☼ | 87 | 57 - 120 | | |
| PCB-1260 | <6.9 | | 183 | 154 | | ug/Kg | ☼ | 84 | 61 - 125 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *90* | | *49 - 129* |
| *DCB Decachlorobiphenyl* | *86* | | *37 - 121* |

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 500-273743-1 MSD**
**Matrix: Solid**
**Analysis Batch: 832371**

**Client Sample ID: Wash Rack**
**Prep Type: Total/NA**
**Prep Batch: 832112**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | <7.2 | | 174 | 157 | | ug/Kg | ☼ | 90 | 57 - 120 | 2 | 30 |
| PCB-1260 | <6.9 | | 174 | 171 | | ug/Kg | ☼ | 98 | 61 - 125 | 10 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *88* | | *49 - 129* |
| *DCB Decachlorobiphenyl* | *110* | | *37 - 121* |

## Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

**Lab Sample ID: MB 500-831890/1-A**
**Matrix: Solid**
**Analysis Batch: 832058**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 831890**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | <2.6 | | 4.0 | 2.6 | mg/Kg | | 08/28/25 10:36 | 08/29/25 14:01 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Nonane* | | | | *08/28/25 10:36* | *08/29/25 14:01* | *1* |

**Lab Sample ID: LCS 500-831890/2-A**
**Matrix: Solid**
**Analysis Batch: 832058**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 831890**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 40.0 | 40.6 | | mg/Kg | | 102 | 70 - 120 |

**Lab Sample ID: LCSD 500-831890/3-A**
**Matrix: Solid**
**Analysis Batch: 832058**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 831890**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 40.0 | 39.6 | | mg/Kg | | 99 | 70 - 120 | 3 | 20 |

## Method: 6010D - Metals (ICP)

**Lab Sample ID: LCS 500-832598/2-A**
**Matrix: Solid**
**Analysis Batch: 832922**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832598**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 0.100 | 0.0979 | | mg/L | | 98 | 80 - 120 |
| Barium | 0.500 | 0.494 | | mg/L | | 99 | 80 - 120 |
| Cadmium | 0.0500 | 0.0459 | | mg/L | | 92 | 80 - 120 |
| Chromium | 0.200 | 0.178 | | mg/L | | 89 | 80 - 120 |
| Lead | 0.100 | 0.100 | | mg/L | | 100 | 80 - 120 |
| Selenium | 0.100 | 0.105 | | mg/L | | 105 | 80 - 120 |
| Silver | 0.0500 | 0.0473 | | mg/L | | 95 | 80 - 120 |

## Method: 6010D - Metals (ICP) (Continued)

**Lab Sample ID: MB 500-833112/1-A**
**Matrix: Solid**
**Analysis Batch: 833485**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 833112**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.34 | | 1.0 | 0.34 | mg/Kg | | 09/09/25 08:54 | 09/10/25 17:14 | 1 |
| Barium | <0.11 | | 1.0 | 0.11 | mg/Kg | | 09/09/25 08:54 | 09/10/25 17:14 | 1 |
| Cadmium | <0.036 | | 0.20 | 0.036 | mg/Kg | | 09/09/25 08:54 | 09/10/25 17:14 | 1 |
| Chromium | <0.50 | | 1.0 | 0.50 | mg/Kg | | 09/09/25 08:54 | 09/10/25 17:14 | 1 |
| Lead | <0.23 | | 0.50 | 0.23 | mg/Kg | | 09/09/25 08:54 | 09/10/25 17:14 | 1 |
| Selenium | <0.59 | | 1.0 | 0.59 | mg/Kg | | 09/09/25 08:54 | 09/10/25 17:14 | 1 |
| Silver | <0.13 | | 0.50 | 0.13 | mg/Kg | | 09/09/25 08:54 | 09/10/25 17:14 | 1 |

**Lab Sample ID: LCS 500-833112/2-A**
**Matrix: Solid**
**Analysis Batch: 833485**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 833112**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 10.0 | 9.75 | | mg/Kg | | 98 | 80 - 120 |
| Barium | 200 | 197 | | mg/Kg | | 98 | 80 - 120 |
| Cadmium | 5.00 | 4.77 | | mg/Kg | | 95 | 80 - 120 |
| Chromium | 20.0 | 18.7 | | mg/Kg | | 93 | 80 - 120 |
| Lead | 10.0 | 10.2 | | mg/Kg | | 102 | 80 - 120 |
| Selenium | 10.0 | 8.21 | | mg/Kg | | 82 | 80 - 120 |
| Silver | 5.00 | 4.25 | | mg/Kg | | 85 | 80 - 120 |

**Lab Sample ID: LB 500-832354/1-B**
**Matrix: Solid**
**Analysis Batch: 832922**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 832598**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.0037 | | 0.010 | 0.0037 | mg/L | | 09/04/25 13:40 | 09/05/25 22:22 | 1 |
| Barium | 0.00923 | J | 0.010 | 0.0012 | mg/L | | 09/04/25 13:40 | 09/05/25 22:22 | 1 |
| Cadmium | <0.00043 | | 0.0020 | 0.00043 | mg/L | | 09/04/25 13:40 | 09/05/25 22:22 | 1 |
| Chromium | 0.00267 | J | 0.010 | 0.0017 | mg/L | | 09/04/25 13:40 | 09/05/25 22:22 | 1 |
| Lead | <0.0027 | | 0.0050 | 0.0027 | mg/L | | 09/04/25 13:40 | 09/05/25 22:22 | 1 |
| Selenium | 0.00657 | J | 0.010 | 0.0053 | mg/L | | 09/04/25 13:40 | 09/05/25 22:22 | 1 |
| Silver | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 09/04/25 13:40 | 09/05/25 22:22 | 1 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-832804/12-A**
**Matrix: Solid**
**Analysis Batch: 832962**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 832804**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 09/05/25 14:55 | 09/08/25 11:50 | 1 |

**Lab Sample ID: LCS 500-832804/14-A**
**Matrix: Solid**
**Analysis Batch: 832962**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832804**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 2.00 | 2.16 | | ug/L | | 108 | 80 - 120 |

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: LB 500-832354/1-C**
**Matrix: Solid**
**Analysis Batch: 832962**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 832804**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 09/05/25 14:55 | 09/08/25 11:52 | 1 |

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 500-833332/12-A**
**Matrix: Solid**
**Analysis Batch: 833552**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 833332**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.0069 | | 0.017 | 0.0069 | mg/Kg | | 09/10/25 15:15 | 09/11/25 07:53 | 1 |

**Lab Sample ID: LCS 500-833332/13-A**
**Matrix: Solid**
**Analysis Batch: 833552**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 833332**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.167 | 0.164 | | mg/Kg | | 98 | 80 - 120 |

# Lab Chronicle

Client: US Army
Job ID: 500-273743-1
Project/Site: Fort McCoy - Soils Total/TCLP

## Client Sample ID: Wash Rack
**Lab Sample ID: 500-273743-1**
**Date Collected: 08/27/25 09:20**
**Matrix: Solid**
**Date Received: 08/28/25 09:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| TCLP | Leach | 1311 | | | 832582 | TJ | EET CHI | 09/04/25 14:03 - 09/05/25 08:03 [1] |
| TCLP | Analysis | 8260D | | 20 | 833063 | PMF | EET CHI | 09/09/25 13:39 |
| TCLP | Leach | 1311 | | | 832354 | PA | EET CHI | 09/03/25 15:52 - 09/04/25 09:52 [1] |
| TCLP | Prep | 3010A | | | 832598 | S1Z | EET CHI | 09/04/25 13:40 - 09/04/25 19:40 [1] |
| TCLP | Analysis | 6010D | | 1 | 832922 | SJ | EET CHI | 09/05/25 23:31 |
| TCLP | Leach | 1311 | | | 832354 | PA | EET CHI | 09/03/25 15:52 - 09/04/25 09:52 [1] |
| TCLP | Prep | 7470A | | | 832804 | MJG | EET CHI | 09/05/25 14:55 - 09/05/25 16:55 [1] |
| TCLP | Analysis | 7470A | | 1 | 832962 | MJG | EET CHI | 09/08/25 12:11 |
| Total/NA | Analysis | 9095B | | 1 | 833429 | CLB | EET CHI | 09/11/25 03:50 |
| Total/NA | Analysis | Moisture | | 1 | 832087 | MF | EET CHI | 08/29/25 14:06 |
| Total/NA | Analysis | D422 | | 1 | 219821 | SML | EET BUR | 08/29/25 15:05 |

## Client Sample ID: Wash Rack
**Lab Sample ID: 500-273743-1**
**Date Collected: 08/27/25 09:20**
**Matrix: Solid**
**Date Received: 08/28/25 09:15**
**Percent Solids: 90.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 832295 | KP | EET CHI | 08/27/25 09:20 |
| Total/NA | Analysis | 8260D | | 50 | 832878 | W1T | EET CHI | 09/08/25 19:27 |
| Total/NA | Prep | 3546 | | | 832145 | SC | EET CHI | 09/02/25 07:27 |
| Total/NA | Analysis | 8270E | | 2 | 832192 | MM | EET CHI | 09/02/25 20:12 |
| Total/NA | Prep | 5035 | | | 832295 | KP | EET CHI | 08/27/25 09:20 |
| Total/NA | Analysis | WI-GRO | | 50 | 832787 | W1T | EET CHI | 09/05/25 23:42 |
| Total/NA | Prep | 3541 | | | 832112 | SV | EET CHI | 08/29/25 15:41 - 08/29/25 21:04 [1] |
| Total/NA | Analysis | 8082A | | 1 | 832371 | H7CM | EET CHI | 09/03/25 13:47 |
| Total/NA | Prep | WI DRO PREP | | | 831890 | FRG | EET CHI | 08/28/25 13:06 - 08/29/25 11:00 [1] |
| Total/NA | Analysis | WI-DRO | | 20 | 832152 | H7CM | EET CHI | 09/02/25 11:10 |
| Total/NA | Prep | 3050B | | | 833112 | BDE | EET CHI | 09/09/25 08:54 - 09/09/25 14:54 [1] |
| Total/NA | Analysis | 6010D | | 1 | 833485 | S1Z | EET CHI | 09/10/25 18:56 |
| Total/NA | Prep | 7471B | | | 833332 | MJG | EET CHI | 09/10/25 15:15 |
| Total/NA | Analysis | 7471B | | 1 | 833552 | MJG | EET CHI | 09/11/25 08:37 |

## Client Sample ID: B2960
**Lab Sample ID: 500-273743-2**
**Date Collected: 08/27/25 08:45**
**Matrix: Solid**
**Date Received: 08/28/25 09:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| TCLP | Leach | 1311 | | | 832582 | TJ | EET CHI | 09/04/25 14:03 - 09/05/25 08:03 [1] |
| TCLP | Analysis | 8260D | | 20 | 833063 | PMF | EET CHI | 09/09/25 13:16 |
| TCLP | Leach | 1311 | | | 832354 | PA | EET CHI | 09/03/25 15:52 - 09/04/25 09:52 [1] |
| TCLP | Prep | 3010A | | | 832598 | S1Z | EET CHI | 09/04/25 13:40 - 09/04/25 19:40 [1] |
| TCLP | Analysis | 6010D | | 1 | 832922 | SJ | EET CHI | 09/05/25 23:35 |
| TCLP | Leach | 1311 | | | 832354 | PA | EET CHI | 09/03/25 15:52 - 09/04/25 09:52 [1] |
| TCLP | Prep | 7470A | | | 832804 | MJG | EET CHI | 09/05/25 14:55 - 09/05/25 16:55 [1] |
| TCLP | Analysis | 7470A | | 1 | 832962 | MJG | EET CHI | 09/08/25 12:13 |

# Lab Chronicle

Client: US Army
Job ID: 500-273743-1
Project/Site: Fort McCoy - Soils Total/TCLP

## Client Sample ID: B2960
**Lab Sample ID: 500-273743-2**
**Date Collected: 08/27/25 08:45**
**Matrix: Solid**
**Date Received: 08/28/25 09:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 9095B | | 1 | 833429 | CLB | EET CHI | 09/11/25 04:00 |
| Total/NA | Analysis | Moisture | | 1 | 832087 | MF | EET CHI | 08/29/25 14:06 |
| Total/NA | Analysis | D422 | | 1 | 219821 | SML | EET BUR | 08/29/25 15:07 |

## Client Sample ID: B2960
**Lab Sample ID: 500-273743-2**
**Date Collected: 08/27/25 08:45**
**Matrix: Solid**
**Date Received: 08/28/25 09:15**
**Percent Solids: 94.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 832295 | KP | EET CHI | 08/27/25 08:45 |
| Total/NA | Analysis | 8260D | | 50 | 832878 | W1T | EET CHI | 09/08/25 19:51 |
| Total/NA | Prep | 3546 | | | 832145 | SC | EET CHI | 09/02/25 07:27 |
| Total/NA | Analysis | 8270E | | 1 | 832192 | MM | EET CHI | 09/02/25 18:37 |
| Total/NA | Prep | 5035 | | | 832295 | KP | EET CHI | 08/27/25 08:45 |
| Total/NA | Analysis | WI-GRO | | 50 | 832787 | W1T | EET CHI | 09/06/25 00:15 |
| Total/NA | Prep | 3541 | | | 832112 | SV | EET CHI | 08/29/25 15:41 - 08/29/25 21:04 [1] |
| Total/NA | Analysis | 8082A | | 1 | 832371 | H7CM | EET CHI | 09/03/25 14:32 |
| Total/NA | Prep | WI DRO PREP | | | 831890 | FRG | EET CHI | 08/28/25 13:06 - 08/29/25 11:00 [1] |
| Total/NA | Analysis | WI-DRO | | 20 | 832152 | H7CM | EET CHI | 09/02/25 11:31 |
| Total/NA | Prep | 3050B | | | 833112 | BDE | EET CHI | 09/09/25 08:54 - 09/09/25 14:54 [1] |
| Total/NA | Analysis | 6010D | | 1 | 833485 | S1Z | EET CHI | 09/10/25 19:01 |
| Total/NA | Prep | 7471B | | | 833332 | MJG | EET CHI | 09/10/25 15:15 |
| Total/NA | Analysis | 7471B | | 1 | 833552 | MJG | EET CHI | 09/11/25 08:39 |

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

**Laboratory References:**

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

# Accreditation/Certification Summary

Client: US Army
Job ID: 500-273743-1
Project/Site: Fort McCoy - Soils Total/TCLP

## Laboratory: Eurofins Chicago

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Wisconsin | State | 399172840 | 08-31-26 |

## Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| ANAB | Dept. of Defense ELAP | L2336 | 02-25-26 |
| Connecticut | State | PH-0751 | 09-30-25 |
| DE Haz. Subst. Cleanup Act (HSCA) | State | N/A | 05-20-26 |
| Florida | NELAP | E87467 | 06-30-26 |
| Minnesota | NELAP | 050-999-436 | 12-31-25 |
| New Hampshire | NELAP | 2006 | 09-04-25 |
| New Jersey | NELAP | VT972 | 09-02-25 |
| New York | NELAP | 10391 | 03-31-26 |
| Pennsylvania | NELAP | 68-00489 | 04-30-26 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-26 |
| USDA | US Federal Programs | 525-23-353-27750 | 12-19-26 |
| Virginia | NELAP | 460209 | 12-14-25 |
| Wisconsin | State | 399140830 | 08-31-25 |

**Eurofins Chicago**
18410 Crossing Drive Suite E
Tinley Park, IL 60487
Phone 708-534-5200 Fax 708 534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information | Sampler: Jeff Beaty | Lab PM: Fredrick, Sandie | Carrier Tracking No(s): | COC No: 500-139192-53391 1 |
|---|---|---|---|---|
| Client Contact: Jeff Beaty | Phone: 502-898-8034 | E-Mail: Sandra Fredrick@et eurofinsus com | State of Origin: | Page: Page 1 of 1 |
| Company: US Army | PWSID: | Analysis Requested | | Job #: 500-273743 |
| Address: 2171 S 8th Avenue | Due Date Requested: 12Sep25 | | | Preservation Codes: N None |
| City: Fort McCoy | TAT Requested (days): 14 Days | | | |
| State, Zip: WI, 54656 | Compliance Project: Δ Yes Δ No | | | |
| Phone: 502-898 8034 | PO #: Pay by Credit Card | | | |
| Email: jeffrey j beaty civ@army mil | WO #: | | | |
| Project Name: Fort McCoy - Soils Total/TCLP | Project #: 50020124 | | | |
| Site: FORT McCOY | SSOW#: | | | Other |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air DW=Drinking Water) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6010D, 7470A, 8082A, 8260D, 9095B | WI_GRO - WI GRO | WI_DRO - WI DRO | D422 - Grain Size (Sieve and Hydrometer) | 6010D, 7471B, 8270E | 8260D - VOC | 500-273743 COC | Total Number of containers | Special Instructions/Note. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code | | | | N | N | N | N | N | N | | | |
| 1 Wash Rack | 27Aug25 | 0930 | C | Solid | | | 1 | 1 | 1 | 1 | 1 | 1 | | 6 | |
| 2 B2960 | 27Aug25 | 0845 | C | Solid | | | 1 | 1 | 1 | 1 | 1 | 1 | | 6 | |
| | | | | Solid | | | | | | | | | | | |
| | | | | Solid | | | | | | | | | | | |

***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 |
|---|---|---|---|---|---|
| Jeffrey Beaty | 27 Aug 25 / 1013 0 | US Army | Angel Knapp | 08/28/25 0915 | EETA |
| Relinquished by: | Date/Time | Company | Received by: | Date/Time | Company |
| Relinquished by: | Date/Time | Company | Received by: | Date/Time | Company |

| Custody Seals Intact Δ Yes Δ No | Custody Seal No 2817738 | Cooler Temperature(s) °C and Other Remarks 33 → 25 4Bot |
|---|---|---|


JEFF BEATY
U.S. ARMY
2171 SOUTH 8TH AVE
FORT MCCOY, WI 54656
UNITED STATES US
ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3908
Part # 159469-434 RRDB2 EXP 04/26
TO SAMPLE RECEIPT
EUROFINS
18410 CROSSING DRI
SUITE E
TINLEY PARK IL 6048
(708) 534-5200
REF:
500-273743 Waybi
INV:
PO:
DEPT:
RMA:
FedEx
Express
FedEx.
TRK# 0221 4722 8639 4047
THU - 28 AUG AA
PRIORITY OVERNIGHT
XP JOTA
60487
IL-US
ORD

**Eurofins Chicago**
18410 Crossing Drive Suite E
Tinley Park, IL 60487
Phone 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

500-273743 Chain of Custody

Environment Testing

| Client Information (Sub Contract Lab) | Sampler: N/A | Lab PM: Mleczko, Steve V | | |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: N/A | E-Mail: Steve.Mleczko@et.eurofinsus.com | State of Origin: Wisconsin | Page: Page 1 of 1 |
| Company: TestAmerica Laboratories, Inc | | Accreditations Required (See note): State Program - Wisconsin | | Job #: 500-273743-1 |
| Address: 530 Community Drive, Suite 11, | Due Date Requested: 9/11/2025 | | | |
| City: South Burlington | TAT Requested (days): N/A | | | |
| State, Zip: VT, 05403 | | | | |
| Phone: 802-660-1990(Tel) 802-660-1919(Fax) | PO #: N/A | | | |
| Email: N/A | WO #: N/A | | | |
| Project Name: Fort McCoy - Soils Total/TCLP | Project #: 50020124 | | | |
| Site: N/A | SSOW#: N/A | | | |

**Analysis Requested**

**Preservation Codes:** -

**Other:** N/A

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | D422Grain Size (Sieve and Hydrometer) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | |
| Wash Rack (500-273743-1) | 8/27/25 | 09 20 Central | G | Solid | | | X | 1 | |
| B2960 (500-273743-2) | 8/27/25 | 08 45 Central | G | Solid | | | X | 1 | |

Note Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago

| Possible Hazard Identification | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) |
|---|---|
| Unconfirmed | ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
| Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2 | Special Instructions/QC Requirements |

| Empty Kit Relinquished by | Date: | Time | Method of Shipment: |
|---|---|---|---|

| Relinquished by | Date/Time | Company | Received by | Date/Time | Company |
|---|---|---|---|---|---|
| Stephanie Hernandez | 8/28/25 1630 | EEIA | | 8/29/2025 9:50 | Eurofins |
| Relinquished by | Date/Time | Company | Received by | Date/Time | Company |
| Relinquished by: | Date/Time | Company | Received by: | Date/Time | Company |

| Custody Seals Intact. Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks |
|---|---|---|

Ver: 10/10/2024



9/11/2025


ORIGIN ID:JOTA (708) 534-5200
EUROFINS CHICAGO
EUROFINS CHICAGO
18410 CROSSING DR STE E
TINLEY PARK, IL 60487
UNITED STATES US
SHIP DATE: 28AUG25
ACTWGT: 6.00 LB MAN
CAD: 0675905/CAFE3950
BILL SENDER
TO SAMPLE RECEIVING
EUROFINS
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF: 273743 SH
FedEx
Express
FRI - 29 AUG 10:30A
PRIORITY OVERNIGHT
TRK# 0201 4468 9408 6633
NX BRLTG
BTVA 05403
VT-US BTV
2858085
Part # 156148-434 RIT EXP 09/18

# Login Sample Receipt Checklist

Client: US Army

Job Number: 500-273743-1

**Login Number: 273743**
**List Number: 1**
**Creator: Knox, Angel**

**List Source: Eurofins Chicago**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 2.5 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: US Army

Job Number: 500-273743-1

**Login Number: 273743**
**List Number: 2**
**Creator: Khudaier, Zahraa**

**List Source: Eurofins Burlington**
**List Creation: 08/29/25 11:56 AM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | Lab does not accept radioactive samples. |
| The cooler's custody seal, if present, is intact. | True | 2858085 |
| 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 | 19.2ºC |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | N/A | |
| 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 | |

# 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 3, 2025

RE: La Crosse County Solid Waste Management Facility
Surface Emission Monitoring Report
FID 632063630
SEH No. LACSW 183121 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 9, 2025.

## 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 9, 2025 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 2026. A brief report summarizing the results of the 2026 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 9, 2025 and this document summarizes the results of the monitoring. The October 9, 2025 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: Tania Taff, WDNR-Air Management Engineer – Electronic File
Jackie Davis, La Crosse County Solid Waste – Electronic File

x:\ko\l\lacsw\183121\3-env-stdy-regs\30-env-doc\8-air-qual\2025 sem\lacsw sem october 2025 summary rep 10.30.25.docx

# Attachment A

Surface Methane Monitoring Log

# La Crosse County Landfill
## Surface Emission Monitoring Log

**Site Information**

| | |
|---|---|
| User/Date: | Veronica Aranda, October 9, 2025 |
| Weather Conditions: | 43F, Sunny, 6-7mph wind NW, 30.47 Hg, R |

**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 |
| 10/9/2025 | 500 | | 500 | | 500 | | 500 | <1% |
| 10/9/2025 post | 500 | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**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).

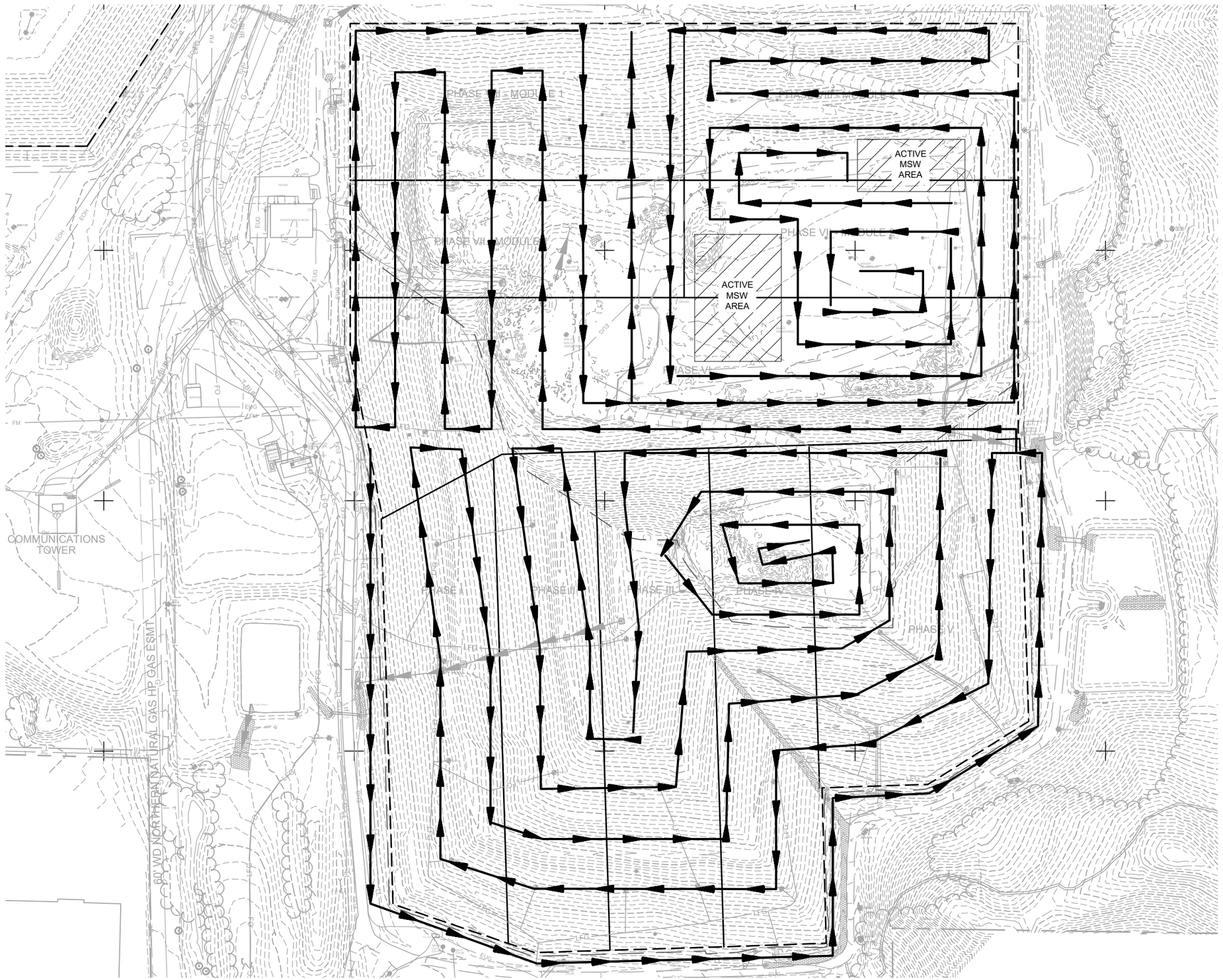
| Date | Test 1 RT (Sec.) | Test 2 RT (Sec.) | Test 3 RT (Sec.) | Average RT (Sec.) |
|---|---|---|---|---|
| 10/9/2025 | 2 | 2 | 3 | 2.33 |
| 10/9/2025 post | 2 | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## Surface Emission Scan

| | |
|---|---|
| Date/User | Veronica Aranda, October 9, 2025 |
| Weather conditions (Temp., wind speed, direction, surface conditions, etc) | 43F, Sunny, 6-7mph wind NW, 30.47 Hg, R |
| 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 |
|---|---|
| No Exceedances | N/A |

# 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 31, 2024.
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 9, 2025.

LEGEND

- 830 — EXISTING GRADE CONTOUR
- EUG — UNDERGROUND ELECTRIC LINE
- EOH — OVERHEAD ELECTRIC LINE
- TUG — UNDERGROUND TELEPHONE
- FOT — FIBER OPTIC
- TV — TV — UNDERGROUND CHARTER CABLE
- W — WATER SUPPLY PIPE
- WX — WATER PIPE ABANDONED IN PLACE
- > — SANITARY SEWER PIPE
- >> — STORM WATER PIPE
- LL — 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: 10/21/2025 8:44 AM bheinrich Plot: 10/21/2025 8:44 AM X:\KO\LL\ACSW\183104\5-final\dgn\51-drawings\85-HeavyCiv\2025 GENERAL SERVICES\SHEETS\LA183104_2025-SEMP.dwg

| | |
|---|---|
| SEH Project | LACSW 183104 |
| Drawn By | BRH |
| Designed By | VA |
| Checked By | BLK |

| Rev.# | Plan Revision Issue Description | Date |
|---|---|---|
| | | |

| Rev.# | Sheet 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 COUNTY SOLID WASTE DEPT
3200 BERLIN DRIVE
LA CROSSE, WI 54601

LA CROSSE, WISCONSIN
LA CROSSE COUNTY LANDFILL

**2025 SURFACE EMISSION TRAVERSE ROUTE**

# D-2 – System Downtime

**G2E Equipment Downtime**

*** Monitoring of the landfill gas collection system is conducted continuously. There were no periods when the landfill gas collection system was down for a period exceeding 5 days. Unless recorded in the Semi-Annual Monitoring Reports as part of the Air Permit submittal requirements.**

| 2025 | Condition/Alarm | Collection System Operating/Description | Approx. Hrs No Flare |
|---|---|---|---|
| 1.1-1.2 | Engine Down | Engine Issues-Grid | 10 |
| 1.5-1.8 | Engine Down | Engine Issues-Grid | 6 |
| 1.11-1.17 | Engine Down | Engine Issues-Cooler | 48 |
| 1.19-1.24 | Engine Down | Engine Issues-Cooler | 122 |
| 1.28-1.29 | Engine Down | Engine Issues-Cooler | 4 |
| 1.31 | Engine Down | Engine Issues-Grid | 2 |
| 2.3-2.28 | Engine Down | Major system breakdown-cooler- four week outage | 558 |
| 3.1-3.7 | Engine Down | Engine maintenance, communication issues | 104 |
| 3.10 | Engine Down | Engine issues-grid | 1 |
| 3.19 | Engine Down | Engine issues-grid | 1 |
| 3.24-3.26 | Engine Down | Condensate Tank Installation | 43 |
| 4.10-4.11 | Engine Down | Engine issues-grid | 11 |
| 4.14-4.16 | Engine Down | Sensors failed Engine side, gas testing | 33 |
| 4.30 | Engine Down | Gas testing by Gundersen | 3 |
| 5.1 | Engine Down | Gas testing by Gundersen | 1 |
| 5.22 | Engine Down | Engine issues | 1 |
| 5.27 | Engine Down | Engine issues | 1 |
| 5.29 | System Down | Flare and Compressor maintenance, engine maintenance | 6 |
| 6.12 | Engine Down | Grid Issues | 1 |
| 6.17 | Engine Down | Temperature issues | 5 |
| 6.24-6.26 | Engine Down | Temp sensor failure on engine and maintenance | 37 |
| 6.30 | Engine Down | Electrical issues | 2 |
| 7.1-7.8 | Engine Down | Engine parts replacement | 65 |
| 7.22-7.23 | Engine Down | Engine issues | 6 |
| 7.25 | System Down | Programmer switch | 1 |
| 7.27-7.28 | Engine Down | Heat ignitor issue on engine | 19 |
| 8.7-8.8 | Landfill Side Down | Scada system programmer work | 6 |
| 8.23 | System Down | Xcel Energy Power Outage | 3 |
| 9.08-9.12 | System Down | Gundersen Annual Maintenance | 84 |
| 9.14 | System Down | Engine Sensor | 8 |
| 10.5 | Engine Down | Control issue | 8 |
| 10.8-10.20 | System Down | Gas chromatograph and water system issues at gundersen | 259 |
| 10.24-10.27 | System Down | Stack testing | 70 |
| 11.9 | Engine Down | Engine issues | 0 |
| 11.18 | System Down | Semi annual Flare maintenance | 1 |
| 11.27-11.30 | Engine Down | Engine issues | 4 |
| 12.3 | System Down | Flare flowmeter technician | 2 |
| 12.5-12.8 | Engine Down | Engine temperature gas parameter issues | 24 |
| 12.10 | System Down | Scada system programmer work | 1 |
| 12.19-12.31 | Engine Down | Gundersen Controls outage, landfill side operational | 222 |

# D-3 – System Maintenance

# Annual Inspection Log

Malfunction, Prevention, and Abatement Plan

La Crosse County Solid Waste Department

La Crosse, Wisconsin

**Date of Inspection:** **Inspector Name:**

**11/18/2025** **Jackie Davis/Jadd Stilwell/John Zink**

| "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-80 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. | |

# Semi-Annual Inspection Log

Malfunction, Prevention, and Abatement Plan
La Crosse County Solid Waste Department
La Crosse, Wisconsin

**Date of Inspection:** 5/29/2025

**Inspector Name:** Jackie Davis and John Zink

| "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. | |

# Semi-Annual Inspection Log

Malfunction, Prevention, and Abatement Plan
La Crosse County Solid Waste Department
La Crosse, Wisconsin

**Date of Inspection:** **Inspector Name:**

**10/15/2025** **Jackie Davis and Jadd Stilwell**

| "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:** 1/27/2025 **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:**
**2/24/2025** **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:** **3/28/2025** **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:** 4/30/2025 **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:**
**5/29/2025** **Jackie Davis and John Zink 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. | |
| 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:** 6/26/2025 **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:** **7/25/2025** **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. | 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:** **8/29/2025** **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:** 9/28/2025 **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:** 10/27/2025 **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:** **11/19/2025** **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-80 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:** **12/22/2025** **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. | |

Use this form to record daily and weekly information required under the Malfunction, Prevention, and Abatement Plan.

**Date of Inspection:__2025____** **Inspector Name:** Jackie Davis

| | **Date** | | | 1/1/2025 | 1/2/2025 | 1/3/2025 | 1/6/2025 | 1/7/2025 |
|---|---|---|---|---|---|---|---|---|
| Week of: | Time | | | 9:00 AM | 10:00 AM | 11:00 AM | 8:00 AM | 8:00 AM |
| | Initials | | | JD | JD | JD | JD | JD |
| G2E OR FLARE COLLECTION SYSTEMS | Normal Readings | | | Wednesday | Thursday | Friday | Monday | Tuesday |
| BLOWER OPERATION, OIL LEVELS | OK | | | Ok | Ok | OK | Ok | Ok |
| CHART RECORDING | Yes | | | Yes | Yes | Yes | Yes | Yes |
| GAS BLOWER DISCHARGE TEMP (TE331) | 150-215°F | | | | 157.1 | | | 165.3 |
| GAS REHEAT TEMP (TE342) | 70-95°F | | | | 89.9 | | | |
| SKID INLET GAS PRES (PIT 321) | -30 to -1"WC | | | 5.0 | -3.2 | -3.2 | -2 | -2.5 |
| BLR 331 hrs (HM 331) | HR | | | 105319 | 105350 | 105368 | 105446 | 105459 |
| FLARE VACUUM (if operating) | -30 to -1"WC | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| FLARE TEMPERATURE (if operating) | °F | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| NITROGEN TANK (SUPPLY) ((Outside)) | PSI | | 1600 | | 1600 | | | 1600 |
| CALIBRATION GAS (SUPPLY) ((Left)) | PSI | | 1200 | | 1200 | | | 1200 |
| HELIUM TANK (SUPPLY) ((Right)) | PSI | | 1800 | | 1800 | | | 1600 |
| FLARE CHART CHANGE (1/MONTH) | √ | - | - | X | - | - | - | - |
| WEEKLY MANUAL GAS READINGS (GEM) | % Methane | 41.6 | % CO2 | 26.2 | % O2 | 1.3 | % Methane 40.8 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| LEACHATE COLLECTION | Normal Readings | | | | | | | |
| LEACHATE EXTRACTION WELLS OPERATING (14-17) | Yes | | | Yes | Yes | Yes | Yes | Yes |
| FLT 321 CONDENSATE LEVEL (LI 721) | √ | | | | 0.5 | | | 0.5 |
| PUMP BUILDINGS INSPECTION (1/WEEK) | √ | | | - | - | - | X | * |
| DAILY LEACHATE TOTALS BY STATION ATTACHED | √ | | | X | X | X | X | X |

| | | |
|---|---|---|
| COMMENTS/ACTIVITIES - MONDAY | | E |
| COMMENTS/ACTIVITIES - TUESDAY | | |
| COMMENTS/ACTIVITIES - WEDNESDAY | | |
| COMMENTS/ACTIVITIES - THURSDAY | | |
| COMMENTS/ACTIVITIES - FRIDAY | | |

| 1/8/2025 | 1/9/2025 | 1/10/2025 | 1/13/2025 | 1/14/2025 | 1/15/2025 | 1/16/2025 | 1/17/2025 | 1/20/2025 | 1/21/2025 | 1/22/2025 | 1/23/2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8:00 AM | 8:00 AM | 8:00 AM | 8:30 AM | 9:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 9:00 AM | 8:00 AM | 8:00 AM |
| JD | JD | JD | JD | JD | JD | JD | JD | JD | JD | JD | JD |
| Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday | Thursday |
| Ok | Ok | Ok | Ok | Ok | Ok | Ok | - | Ok | Ok | Ok | Ok |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | 160.4 | | | 163.8 | | 161.5 | | | 52.5 | | 57.6 |
| | | | | | | | | | 50.6 | | 54.5 |
| -1.4 | -2.9 | -2.6 | -2.3 | -1.9 | -2.0 | -2.0 | -2.0 | -1.8 | 5.0 | -2.0 | 5.0 |
| 105475 | 105499 | 105523 | 105595 | 105610 | 105625 | 105631 | 105649 | 105694 | 105698 | 105701 | 105703 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1600 | | | 1500 | | 1500 | | | 1500 | | 1500 |
| | 1200 | | | 1200 | | 1200 | | | 1200 | | 1200 |
| | 1600 | | | 1200 | | 1200 | | | 1100 | | 1000 |
| - | - | - | - | - | - | - | - | - | - | - | - |
| % CO2 26.0 | | % O2 1.6 | % Methane 42.9 | | % CO2 25.9 | | % O2 1.4 | % Methane 39.6 | | % CO2 24.2 | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | 0.5 | | | 0.5 | | 0.5 | | | 0.5 | | 0.5 |
| * | * | * | X | * | * | * | * | X | * | * | * |
| X | X | X | X | X | X | X | X | X | X | X | X |

| Engine Down | System Down | System Down |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

| 1/24/2025 | 1/27/2025 | 1/28/2025 | 1/29/2025 | 1/30/2025 | 1/31/2025 | 2/3/2025 | 2/4/2025 | 2/5/2025 | 2/6/2025 | 2/7/2025 |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM |
| JD | JD | JD | JD | JD | JD | JD | JD | JD | JD | JD |
| Friday | Monday | Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday | Thursday | Friday |
| - | Ok | Ok | Ok | Ok | - | Ok | Ok | OK | OK | OK |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | | 158.7 | | 158.9 | | | 171.6 | | 174.8 | |
| | | 90.1 | | 90.4 | | | 84.1 | | 83.9 | |
| 5.0 | -1.9 | -1.9 | -1.3 | -2.1 | -1.8 | -2.5 | -1.0 | 5.0 | -1.0 | 5.0 |
| 105717 | 105789 | 105813 | 105799 | 105823 | 105846 | 105916 | 105924 | 105926 | 105931 | 105931 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | 1500 | | 1500 | | | 1400 | | 1400 | |
| | | 1200 | | 1200 | | | 1200 | | 1200 | |
| | | 900 | | 900 | | | 850 | | 850 | |
| - | - | - | - | - | - | X | - | - | - | - |
| % O2 02.2 | % Methane 47.5 | | % CO2 26.4 | | % O2 1.1 | % Methane 45.1 | | % CO2 26.0 | | % O2 1.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | | 0.5 | | 0.5 | | | 0.5 | | 0.5 | |
| * | X | * | * | * | * | X | * | * | * | * |
| X | X | X | X | X | X | X | X | X | X | X |

| | | |
|---|---|---|
| | | |
| | Engine Down | |
| | Engine Down | Engine Down |
| | | Engine Down |
| | Engine Down | Engine Down |

| 2/10/2025 | 2/11/2025 | 2/12/2025 | 2/13/2025 | 2/14/2025 | 2/17/2025 | 2/18/2025 | 2/19/2025 | 2/20/2025 | 2/21/2025 | 2/24/2025 |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM |
| JD | JD | JD | JD | JD | JD | JD | JD | JD | JD | JD |
| Monday | Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday | Thursday | Friday | Monday |
| OK | Ok | Ok | OK | OK | OK | OK | OK | OK | OK | OK |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | 58.1 | | 53.1 | | | 44 | | 49.3 | | |
| | 56.3 | | 55.2 | | | 49.7 | | 50.2 | | |
| 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | -1.9 | 5.0 | -2.0 | 5.0 |
| 105931 | 105941 | 105941 | 105941 | 105953 | 105953 | 105953 | 105964 | 105964 | 105975 | 105985 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1400 | | 1400 | | | 1300 | | 1300 | | |
| | 1200 | | 1200 | | | 1200 | | 1200 | | |
| | 800 | | 800 | | | 750 | | 700 | | |
| - | - | - | - | - | - | - | - | - | - | - |
| % Methane 51.5 | | % CO2 27.3 | | % O2 0.9 | % Methane 55.0 | | % CO2 28.7 | | % O2 0.8 | % Methane 57.2 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | 0.5 | | 0.5 | | | 0.5 | | 0.5 | | |
| X | * | * | * | * | X | * | * | * | * | X |
| X | X | X | X | X | X | X | X | X | X | X |

| Engine Down-Outage | Engine Down-Outage | |
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| 2/25/2025 | 2/26/2025 | 2/27/2025 | 2/28/2025 | 3/3/2025 | 3/4/2025 | 3/5/2025 | 3/6/2025 | 3/7/2025 | 3/10/2025 | 3/11/2025 |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM |
| JD | JD | JD | JD | JD | JD | JD | JD | JD | JD | JD |
| Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday |
| OK | Ok | OK | Ok | OK | Ok | OK | Ok | OK | OK | OK |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 65.6 | | 65.9 | | | 157.9 | | 162.1 | | | 155.1 |
| 66.1 | | 67 | | | 91.2 | | 90.7 | | | 90.8 |
| 5.0 | 5.0 | 5.0 | -1.9 | 5.0 | -1.6 | 5.0 | -1.3 | -1.7 | -1.8 | -2.50 |
| 105985 | 105985 | 105985 | 106001 | 106013 | 106023 | 106032 | 106048 | 106072 | 106144 | 106168 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1300 | | 1300 | | | 1300 | | 1300 | | | 1300 |
| 1200 | | 1200 | | | 1200 | | 1200 | | | 1200 |
| 650 | | 650 | | | 650 | | 600 | | | 600 |
| - | - | - | - | X | - | - | - | - | - | - |
| 2 | % CO2 28.4 | | % O2 1.3 | % Methane 56.6 | | % CO2 27.9 | | % O2 1.8 | Methane - 53.7 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 0.5 | | 0.5 | | | 0.5 | | 0.5 | | | 0.5 |
| * | * | * | * | X | * | * | * | * | X | * |
| X | X | X | X | X | X | X | X | X | X | X |

| Engine Down-Outage | Engine Down-Outage | |
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| 3/12/2025 | 3/13/2025 | 3/14/2025 | 3/17/2025 | 3/18/2025 | 3/19/2025 | 3/20/2025 | 3/21/2025 | 3/24/2025 | 3/25/2025 | 3/26/2025 |
|---|---|---|---|---|---|---|---|---|---|---|
| 10:00 AM | 9:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 9:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM |
| JD | JD | JD | JD | JD | JD | JD | JD | JD | JD | JD |
| Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday |
| OK | OK | Ok | OK | Ok | OK | OK | OK | OK | OK | OK |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | 158.5 | | | 157.5 | | 156.8 | | | 66.6 | |
| | 93.4 | | | 92.1 | | 92.9 | | | 65.1 | |
| -2 | -2.1 | -1.7 | -2.3 | -2.8 | -2.5 | -3.1 | -2.2 | -3.0 | 0.0 | 0.0 |
| 106194 | 106217 | 106240 | 106312 | 106336 | 106361 | 106384 | 106408 | 106480 | 106480 | 106488 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1200 | | | 1200 | | 1200 | | | 1200 | |
| | 1200 | | | 1200 | | 1200 | | | 1200 | |
| | 600 | | | 600 | | 600 | | | 600 | |
| - | - | - | - | - | - | - | - | - | - | - |
| % CO2 - 27.3 | | % O2 - 1.4 | % Methane 47.4 | | % CO2 26.0 | | % O2 1.4 | % Methane 45.0 | | % CO2 26.5 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | 0.5 | | | 0.5 | | 0.5 | | | 0.5 | |
| * | * | * | X | * | * | * | * | X | * | * |
| X | X | X | X | X | X | X | X | X | X | X |

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| Engine Down | | Engine Down |
| | | Engine Down |
| | Engine Down | Engine Down |
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| 3/27/2025 | 3/28/2025 | 3/31/2025 | 4/1/2025 | 4/2/2025 | 4/3/2025 | 4/4/2025 | 4/7/2025 | 4/8/2025 | 4/9/2025 | 4/10/2025 |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 9:00 AM | 10:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 10:00 AM | 8:00 AM |
| JD | JD | JD | JD | JD | JD | JD | JD | JD | JD | JD |
| Thursday | Friday | Monday | Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday | Thursday |
| OK | Ok | Ok | OK | Ok | Ok | Ok | Ok | Ok | Ok | Ok |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 157.8 | | | 157.3 | | 157.7 | | | 155.9 | | 157.3 |
| 80.1 | | | 89.5 | | 90.6 | | | 92.6 | | 91.8 |
| -2.3 | -2.7 | -3.3 | -3.0 | -1.4 | -3.6 | -3.5 | -3.2 | -3.4 | -2.7 | -2.4 |
| 106498 | 106522 | 106594 | 106618 | 106643 | 106668 | 106690 | 106762 | 106786 | 106812 | 106834 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1200 | | | 1200 | | 1200 | | | 1200 | | 1200 |
| 1200 | | | 1200 | | 1200 | | | 1200 | | 1200 |
| 2400 | | | 2400 | | 2300 | | | 2300 | | 2300 |
| - | - | - | X | - | - | - | - | - | - | - |
| | % O2 1.7 | % Methane 44.0 | | % CO2 26.9 | | % O2 1.8 | % Methane 42.1 | | % CO2 26.6 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 0.5 | | | 0.5 | | 0.5 | | | 0.5 | | 0.5 |
| * | * | X | * | * | * | * | X | * | * | * |
| X | X | X | X | X | X | X | X | X | X | X |

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| | | Engine Down |
| | | Engine Down |

| 4/11/2025 | 4/14/2025 | 4/15/2025 | 4/16/2025 | 4/17/2025 | 4/18/2025 | 4/21/2025 | 4/22/2025 | 4/23/2025 | 4/24/2025 | 4/25/2025 |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 7:00 AM | 8:00 AM | 10:00 AM |
| JD | JD | JD | JD | JS | JD | JD | JD | JS | JS | JD |
| Friday | Monday | Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday | Thursday | Friday |
| Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | | 183.8 | | 161.3 | | | 160.9 | | 161.0 | |
| | | 94.6 | | 94.9 | | | 89 | | 90.3 | |
| -2.4 | -3.2 | 0.0 | 0.0 | -2.4 | -2.6 | -3.1 | -2.80 | -3.1 | -2.90 | -2.9 |
| 106852 | 106930 | 106951 | 106951 | 106963 | 106987 | 107059 | 107083 | 107106 | 107131 | 107151 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | 1200 | | 1200 | | | 1100 | | 1100 | |
| | | 1200 | | 1200 | | | 1200 | | 1200 | |
| | | 2300 | | 2300 | | | 2200 | | 2100 | |
| - | - | - | - | - | - | - | - | - | - | - |
| % O2 2.0 | % Methane 42.7 | | % CO2 27.0 | | % O2 1.7 | % Methane 45.0 | | % CO2 28.2 | | % O2 1.2 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | | 0.5 | | 0.5 | | | 0.5 | | 0.5 | |
| * | X | * | * | * | * | X | * | * | * | * |
| X | X | X | X | X | X | X | X | X | X | X |

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| | Engine Down | |
| | Engine Down | |
| | Engine Down | |
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| 4/28/2025 | 4/29/2025 | 4/30/2025 | 5/1/2025 | 5/2/2025 | 5/5/2025 | 5/6/2025 | 5/7/2025 | 5/8/2025 | 5/9/2025 | 5/12/2025 |
|---|---|---|---|---|---|---|---|---|---|---|
| 10:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 10:00 AM | 8:00 AM | 8:00 AM |
| JD | JD | JD | JD | JD | JD | JD | JD | JD | JD | JD |
| Monday | Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday | Thursday | Friday | Monday |
| OK | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | 162.9 | | 163.0 | | | 164.7 | | 164.1 | | |
| | 91.5 | | 91.1 | | | 92 | | 91.8 | | |
| -2.2 | -3.7 | 5.0 | -2.6 | -2.9 | -3.1 | -3.1 | -3.4 | -3.4 | -3.4 | -3.0 |
| 107229 | 107251 | 1073275 | 107294 | 107317 | 107389 | 107413 | 107437 | 107463 | 107485 | 107557 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1100 | | 1100 | | | 1100 | | 1100 | | |
| | 1200 | | 1200 | | | 1200 | | 1200 | | |
| | 2100 | | 2100 | | | 2100 | | 2100 | | |
| - | - | - | X | - | - | - | - | - | - | - |
| % Methane 46.7 | | % CO2 28.0 | | % O2 0.9 | % Methane 42.5 | | % CO2 27.5 | | % O2 1.7 | % Methane 42.6 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | 0.5 | | 0.5 | | | 0.5 | | 0.5 | | |
| X | * | * | * | * | X | * | * | * | * | X |
| X | X | X | X | X | X | X | X | X | X | X |

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| Engine Down | | |
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| 5/13/2025 | 5/14/2025 | 5/15/2025 | 5/16/2025 | 5/19/2025 | 5/20/2025 | 5/21/2025 | 5/22/2025 | 5/23/2025 | 5/26/2025 | 5/27/2025 |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:00 AM | 10:00 AM | 9:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 9:00 AM | 10:00 AM | 8:00 AM | 10:00 AM |
| JD | JD | JD | JD | JD | JD | JD | JD | JD | JD | JD |
| Tuesday | Wednesday | Tuesday | Friday | Monday | Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday |
| Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 156.2 | | 155.4 | | | 156.2 | | 155.4 | | | 159.4 |
| 88.6 | | 88.4 | | | 87.9 | | 79.8 | | | 86.7 |
| -2.8 | -2.9 | -2.4 | -2.6 | -3.8 | -2.6 | -3.0 | -3.1 | -3.1 | -3.4 | -3.0 |
| 107581 | 107607 | 107630 | 107653 | 107725 | 107749 | 107773 | 107798 | 107822 | 107868 | 107894 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1100 | | 1100 | | | 1100 | | 1100 | | | 1100 |
| 1200 | | 1200 | | | 1200 | | 1200 | | | 1200 |
| 2100 | | 2100 | | | 2100 | | 2100 | | | 2000 |
| - | - | - | - | - | - | - | - | - | - | - |
| 6 | % CO2 27.2 | | % O2 1.5 | % Methane 36.9 | | % CO2 25.2 | | % O2 1.9 | % Methane 41.3 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 0.5 | | 0.5 | | | 0.5 | | 0.5 | | | 0.5 |
| * | * | * | * | X | * | * | * | * | X | * |
| X | X | X | X | X | X | X | X | X | X | X |

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| 5/28/2025 | 5/29/2025 | 5/30/2025 | 6/2/2025 | 6/3/2025 | 6/4/2025 | 6/5/2025 | 6/6/2025 | 6/9/2025 | 6/10/2025 | 6/11/2025 |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:00 AM | 8:00 AM | 8:00 AM | 8:45 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 9:00 AM | 8:00 AM | 8:00 AM |
| JD | JD | JD | JD | JD | JD | JD | JD | JD | JD | JD |
| Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday |
| Ok | Ok | Ok | OK | Ok | Ok | Ok | Ok | OK | Ok | Ok |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | 163.0 | | | 174.2 | | 170.0 | | | 173.8 | |
| | 62.0 | | | 87 | | 87.5 | | | 98.7 | |
| -3.1 | -1.6 | -2.6 | -2.9 | -2.9 | -2.8 | -3.0 | -3.0 | -3.2 | -3.0 | -3.6 |
| 107916 | 107940 | 107957 | 108030 | 108054 | 108078 | 108102 | 108126 | 108199 | 108222 | 108246 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1100 | | | 1100 | | 1100 | | | 1100 | |
| | 1200 | | | 1200 | | 1200 | | | 1200 | |
| | 2000 | | | 2100 | | 2100 | | | 2100 | |
| - | - | - | X | - | - | - | - | - | - | - |
| % CO2 26.9 | | % O2 1.2 | % Methane 41.3 | | % CO2 26.7 | | % O2 1.2 | % Methane 41.3 | | % CO2 27.3 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | 0.5 | | | 0.5 | | 0.5 | | | 0.5 | |
| * | * | * | * | * | * | * | X | * | * | * |
| X | X | X | X | X | X | X | X | X | X | X |

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| Holiday | | |
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| | | Engine Down |
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| 6/12/2025 | 6/13/2025 | 6/16/2025 | 6/17/2025 | 6/18/2025 | 6/19/2025 | 6/20/2025 | 6/23/2025 | 6/24/2025 | 6/25/2025 | 6/26/2025 |
|---|---|---|---|---|---|---|---|---|---|---|
| 10:00 AM | 8:00 AM | 11:00 AM | 10:00 AM | 8:00 AM | 8:00 AM | 10:30 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM |
| JD | JD | JD | JD | JD | JD | JD | JD | JD | JD | JD |
| Thursday | Friday | Monday | Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday | Thursday |
| Ok | Ok | OK | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 172.2 | | | 182.1 | | 176.4 | | | 171.6 | | 70.6 |
| 97.9 | | | 64.3 | | 61.9 | | | 64.3 | | 70.4 |
| -3.3 | -3.2 | -2.7 | -1.50 | -3.3 | -3 | -3.4 | -3.6 | -3.7 | 5.0 | 5.0 |
| 108272 | 108294 | 108369 | 108398 | 108411 | 108435 | 108461 | 108533 | 108557 | 108557 | 108570 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1100 | | | 1100 | | 1100 | | | 1100 | | 1100 |
| 1200 | | | 1200 | | 1200 | | | 1200 | | 1200 |
| 2100 | | | 2100 | | 2100 | | | 2100 | | 2100 |
| - | - | - | - | - | - | - | - | - | - | - |
| | % O2 1.2 | % Methane 41.8 | | % CO2 27.1 | | % O2 1.5 | % Methane 43.9 | | % CO2 28.2 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 0.5 | | | 0.5 | | 0.5 | | | 0.5 | | 0.5 |
| * | X | * | * | * | * | X | * | * | * | * |
| X | X | X | X | X | X | X | X | X | X | X |

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| | Engine Down | Engine Down |
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| | | Engine Down |
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| 6/27/2025 | 6/30/2025 | 7/1/2025 | 7/2/2025 | 7/3/2025 | 7/4/2025 | 7/7/2025 | 7/8/2025 | 7/9/2025 | 7/10/2025 | 7/11/2025 |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM |
| JD | JD | JD | JD | JD | JD | JD | JD | JD | JD | JD |
| Friday | Monday | Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday | Thursday | Friday |
| Ok | Ok | Ok | Ok | Ok | | Ok | Ok | Ok | Ok | Ok |
| Yes | Yes | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes |
| | | 172.4 | | 173.8 | | | 174.4 | | 174.6 | |
| | | 66.4 | | 67.5 | | | 68.5 | | 68.6 | |
| -2.1 | -2.6 | -2.5 | -2.5 | -2.5 | -2.0 | 0 | -2.6 | -2.2 | -2.2 | -2.4 |
| 108594 | 108666 | 108684 | 108708 | 108732 | | 108765 | 108789 | 108813 | 108837 | 108861 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | 1050 | | 1050 | | | 1050 | | 1050 | |
| | | 1200 | | 1200 | | | 1200 | | 1200 | |
| | | 1950 | | 1950 | | | 1950 | | 1950 | |
| - | - | - | - | - | - | - | - | - | - | - |
| % O2 .9 | % Methane 45.8 | | % CO2 28.9 | | % O2 1.2 | % Methane 48.4 | | % CO2 29.6 | | % O2 0.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | | 0.5 | | 0.5 | | | 0.5 | | 0.5 | |
| X | * | * | * | * | X | X | * | * | * | * |
| X | X | X | X | X | X | X | X | X | X | X |

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| | Engine Down | |
| | Engine Down | |
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| | | |
| | Holiday-Engine Down | |

| 7/14/2025 | 7/15/2025 | 7/16/2025 | 7/17/2025 | 7/18/2025 | 7/21/2025 | 7/22/2025 | 7/23/2025 | 7/24/2025 | 7/25/2025 | 7/28/2025 |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | 8:00 AM | | |
| JD | JD | JD | JD | JD | JD | JD | JD | JD | JD | JD |
| Monday | Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday | Thursday | Friday | Monday |
| Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | 176.5 | | 166.8 | | | 175.2 | | 175.1 | | |
| | 69.4 | | 70 | | | 70.2 | | 70.1 | | |
| -2.4 | -2.20 | -1.8 | -2.7 | -2.1 | -2.3 | -2.4 | -0.44 | -2.3 | -2.5 | 5.0 |
| 108932 | 108956 | 108980 | 109004 | 109028 | 109100 | 109124 | 109148 | 109172 | 109196 | 109260 |
| N/A | N/A | | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1050 | | 1050 | | | 1020 | | 1020 | | |
| | 1200 | | 1200 | | | 1200 | | 1200 | | |
| | 1950 | | 1950 | | | 1900 | | 1900 | | |
| - | - | - | - | - | - | - | - | - | - | - |
| % Methane 48.6 | | % CO2 29.7 | | % O2 0.8 | % Methane 48.4 | | % CO2 30.3 | | % O2 1.0 | % Methane 46.5 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | 0.5 | | 0.5 | | | 0.5 | | 0.5 | | |
| X | * | * | * | * | X | * | * | * | * | X |
| X | X | X | X | X | X | X | X | X | X | X |

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| 7/29/2025 | 7/30/2025 | 7/31/2025 | 8/1/2025 | 8/4/2025 | 8/5/2025 | 8/6/2025 | 8/7/2025 | 8/8/2025 | 8/11/2025 | 8/12/2025 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| JD | JD | JD | JD | JD | JD | JD | JD | JD | JD | JD |
| Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday |
| Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 173 | | 170.5 | | | 171.4 | | 175 | | | 174.1 |
| 70.7 | | 70.6 | | | 70.4 | | 71.4 | | | 71.3 |
| -2.60 | -2.4 | -2.5 | -2.8 | -2.9 | -3.1 | -2.8 | -2.8 | -2.6 | -3.2 | -2.80 |
| 109284 | 109308 | 109332 | 109356 | 109428 | 109452 | 109476 | 109496 | 109520 | 109592 | 109616 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1020 | | 1020 | | | 1050 | | 1050 | | | 1050 |
| 1200 | | 1200 | | | 1200 | | 1200 | | | 1200 |
| 1900 | | 1900 | | | 1850 | | 1850 | | | 1850 |
| - | - | - | - | - | - | - | - | - | - | - |
| 5 | % CO2 29.2 | | % O2 1.1 | % Methane 44.9 | | % CO2 28.8 | | % O2 1.0 | % Methane 42.9 | |

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| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 0.5 | | 0.5 | | | 0.5 | | 0.5 | | | 0.5 |
| * | * | * | * | X | * | * | * | * | X | * |
| X | X | X | X | X | X | X | X | X | X | X |

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| 8/13/2025 | 8/14/2025 | 8/15/2025 | 8/18/2025 | 8/19/2025 | 8/20/2025 | 8/21/2025 | 8/22/2025 | 8/25/2025 | 8/26/2025 | 8/27/2025 |
|---|---|---|---|---|---|---|---|---|---|---|
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| JD | JD | JD | JD | JD | JD | JD | JD | JD | JD | JD |
| Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday | Thursday | Friday | Monday | Tuesday | Wednesday |
| Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok | Ok |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | 171.3 | | | 173.6 | | 169.6 | | | 167.4 | |
| | 71.4 | | | 71.9 | | 71.3 | | | 69.9 | |
| -3.3 | -3.2 | -3.1 | -2.9 | -2.9 | -2 | -1.8 | -1.9 | -2.1 | -2.2 | -1.9 |
| 109640 | 109664 | 109688 | 109712 | 109736 | 109760 | 109784 | 109808 | 109880 | 109904 | 109928 |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1050 | | | 1000 | | 1000 | | | 1000 | |
| | 1200 | | | 1200 | | 1200 | | | 1200 | |
| | 1850 | | | 1800 | | 1800 | | | 1800 | |
| - | - | - | - | - | - | - | - | - | - | - |
| % CO2 28.7 | | % O2 1.0 | % Methane 46.3 | | % CO2 30.7 | | % O2 0.8 | % Methane 45.6 | | % CO2 30.2 |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | 0.5 | | | 0.5 | | 0.5 | | | 0.5 | |
| * | * | * | X | * | * | * | * | X | * | * |
| X | X | X | X | X | X | X | X | X | X | X |

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| 8/28/2025 | 8/29/2025 |
|---|---|
| | |
| JD | JD |
| Thursday | Friday |
| Ok | Ok |
| Yes | Yes |
| 169.7 | |
| 70.8 | |
| -1.9 | -2.2 |
| 109952 | 109976 |
| N/A | N/A |
| N/A | N/A |
| 1000 | |
| 1200 | |
| 1800 | |
| - | - |
| | % O2 0.9 |

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| | |
| Yes | Yes |
| 0.5 | |
| * | * |
| X | X |

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# Gas System Report (Daily)

## Date: 2025-09-01 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 43.83 |
| Carbon Dioxide% | 29.57 |
| Oxygen% | 1.00 |
| Nitrogen% | 25.59 |
| Hydrogen Sulfide (ppmV) | 0.00 |
| Gas Blower Discharge Temp (TE331) | 170.69 |
| Gas Reheat Temp (TE342) | 83.54 |
| Skid Inlet Gas Pressure (PIT321) | -2.10 |
| Blower 331 Hrs (HM331) | 23.97 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 1000 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1800 |
| Flare Chart Change (1/MONTH) | 1 |

# Gas System Report (Daily)

## Date: 2025-09-02 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 45.30 |
| Carbon Dioxide% | 29.95 |
| Oxygen% | 0.84 |
| Nitrogen% | 23.89 |
| Hydrogen Sulfide (ppmV) | 0.00 |
| Gas Blower Discharge Temp (TE331) | 171.27 |
| Gas Reheat Temp (TE342) | 83.84 |
| Skid Inlet Gas Pressure (PIT321) | -1.93 |
| Blower 331 Hrs (HM331) | 23.97 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 950 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1800 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-03 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 45.57 |
| Carbon Dioxide% | 30.34 |
| Oxygen% | 0.87 |
| Nitrogen% | 23.21 |
| Hydrogen Sulfide (ppmV) | 0.00 |
| Gas Blower Discharge Temp (TE331) | 170.75 |
| Gas Reheat Temp (TE342) | 82.69 |
| Skid Inlet Gas Pressure (PIT321) | -2.03 |
| Blower 331 Hrs (HM331) | 23.97 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 950 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1800 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-04 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 44.80 |
| Carbon Dioxide% | 29.80 |
| Oxygen% | 0.87 |
| Nitrogen% | 24.52 |
| Hydrogen Sulfide (ppmV) | 152.35 |
| Gas Blower Discharge Temp (TE331) | 170.13 |
| Gas Reheat Temp (TE342) | 81.56 |
| Skid Inlet Gas Pressure (PIT321) | -1.99 |
| Blower 331 Hrs (HM331) | 23.97 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 950 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1800 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-05 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 42.08 |
| Carbon Dioxide% | 29.42 |
| Oxygen% | 1.32 |
| Nitrogen% | 27.17 |
| Hydrogen Sulfide (ppmV) | 143.31 |
| Gas Blower Discharge Temp (TE331) | 170.19 |
| Gas Reheat Temp (TE342) | 82.05 |
| Skid Inlet Gas Pressure (PIT321) | -2.60 |
| Blower 331 Hrs (HM331) | 23.97 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 950 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1800 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-08 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 7.60 |
| Methane% | 39.79 |
| Carbon Dioxide% | 28.22 |
| Oxygen% | 1.47 |
| Nitrogen% | 30.51 |
| Hydrogen Sulfide (ppmV) | 127.97 |
| Gas Blower Discharge Temp (TE331) | 111.16 |
| Gas Reheat Temp (TE342) | 73.86 |
| Skid Inlet Gas Pressure (PIT321) | 2.19 |
| Blower 331 Hrs (HM331) | 23.97 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 950 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1800 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-09 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 5.11 |
| Methane% | 40.09 |
| Carbon Dioxide% | 28.43 |
| Oxygen% | 1.44 |
| Nitrogen% | 30.02 |
| Hydrogen Sulfide (ppmV) | 124.75 |
| Gas Blower Discharge Temp (TE331) | 66.59 |
| Gas Reheat Temp (TE342) | 68.21 |
| Skid Inlet Gas Pressure (PIT321) | 5.00 |
| Blower 331 Hrs (HM331) | 9.19 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 950 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1800 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-10 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 5.69 |
| Methane% | 40.09 |
| Carbon Dioxide% | 28.43 |
| Oxygen% | 1.44 |
| Nitrogen% | 30.02 |
| Hydrogen Sulfide (ppmV) | 124.75 |
| Gas Blower Discharge Temp (TE331) | 67.99 |
| Gas Reheat Temp (TE342) | 67.73 |
| Skid Inlet Gas Pressure (PIT321) | 4.95 |
| Blower 331 Hrs (HM331) | 10.01 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 950 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1800 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-11 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 7.12 |
| Methane% | 45.70 |
| Carbon Dioxide% | 29.94 |
| Oxygen% | 0.98 |
| Nitrogen% | 23.37 |
| Hydrogen Sulfide (ppmV) | 146.47 |
| Gas Blower Discharge Temp (TE331) | 112.79 |
| Gas Reheat Temp (TE342) | 74.99 |
| Skid Inlet Gas Pressure (PIT321) | 2.48 |
| Blower 331 Hrs (HM331) | 15.60 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 950 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1800 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-12 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 7.66 |
| Methane% | 48.32 |
| Carbon Dioxide% | 30.62 |
| Oxygen% | 0.64 |
| Nitrogen% | 20.40 |
| Hydrogen Sulfide (ppmV) | 149.48 |
| Gas Blower Discharge Temp (TE331) | 136.55 |
| Gas Reheat Temp (TE342) | 79.55 |
| Skid Inlet Gas Pressure (PIT321) | 0.79 |
| Blower 331 Hrs (HM331) | 23.79 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 950 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1800 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-15 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 41.70 |
| Carbon Dioxide% | 28.64 |
| Oxygen% | 1.28 |
| Nitrogen% | 28.37 |
| Hydrogen Sulfide (ppmV) | 133.39 |
| Gas Blower Discharge Temp (TE331) | 172.48 |
| Gas Reheat Temp (TE342) | 86.56 |
| Skid Inlet Gas Pressure (PIT321) | -2.31 |
| Blower 331 Hrs (HM331) | 23.91 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 950 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1800 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-16 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 41.49 |
| Carbon Dioxide% | 28.53 |
| Oxygen% | 1.22 |
| Nitrogen% | 28.74 |
| Hydrogen Sulfide (ppmV) | 137.45 |
| Gas Blower Discharge Temp (TE331) | 173.85 |
| Gas Reheat Temp (TE342) | 87.01 |
| Skid Inlet Gas Pressure (PIT321) | -2.32 |
| Blower 331 Hrs (HM331) | 23.91 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 900 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-17 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 41.52 |
| Carbon Dioxide% | 28.53 |
| Oxygen% | 1.21 |
| Nitrogen% | 28.73 |
| Hydrogen Sulfide (ppmV) | 138.72 |
| Gas Blower Discharge Temp (TE331) | 173.07 |
| Gas Reheat Temp (TE342) | 86.79 |
| Skid Inlet Gas Pressure (PIT321) | -2.31 |
| Blower 331 Hrs (HM331) | 23.91 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 900 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-18 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 40.96 |
| Carbon Dioxide% | 28.35 |
| Oxygen% | 1.31 |
| Nitrogen% | 29.37 |
| Hydrogen Sulfide (ppmV) | 136.17 |
| Gas Blower Discharge Temp (TE331) | 173.29 |
| Gas Reheat Temp (TE342) | 86.42 |
| Skid Inlet Gas Pressure (PIT321) | -2.43 |
| Blower 331 Hrs (HM331) | 23.91 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 900 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-19 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 40.60 |
| Carbon Dioxide% | 28.28 |
| Oxygen% | 1.28 |
| Nitrogen% | 29.82 |
| Hydrogen Sulfide (ppmV) | 141.07 |
| Gas Blower Discharge Temp (TE331) | 171.78 |
| Gas Reheat Temp (TE342) | 85.39 |
| Skid Inlet Gas Pressure (PIT321) | -2.47 |
| Blower 331 Hrs (HM331) | 23.91 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 900 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-22 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 45.25 |
| Carbon Dioxide% | 30.38 |
| Oxygen% | 0.77 |
| Nitrogen% | 23.58 |
| Hydrogen Sulfide (ppmV) | 175.29 |
| Gas Blower Discharge Temp (TE331) | 170.44 |
| Gas Reheat Temp (TE342) | 83.95 |
| Skid Inlet Gas Pressure (PIT321) | -2.08 |
| Blower 331 Hrs (HM331) | 23.91 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 900 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-23 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 45.34 |
| Carbon Dioxide% | 30.69 |
| Oxygen% | 0.86 |
| Nitrogen% | 23.09 |
| Hydrogen Sulfide (ppmV) | 172.87 |
| Gas Blower Discharge Temp (TE331) | 170.78 |
| Gas Reheat Temp (TE342) | 84.08 |
| Skid Inlet Gas Pressure (PIT321) | -2.14 |
| Blower 331 Hrs (HM331) | 23.91 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 900 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-09-24 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 45.23 |
| Carbon Dioxide% | 30.37 |
| Oxygen% | 0.89 |
| Nitrogen% | 23.49 |
| Hydrogen Sulfide (ppmV) | 162.88 |
| Gas Blower Discharge Temp (TE331) | 170.18 |
| Gas Reheat Temp (TE342) | 83.54 |
| Skid Inlet Gas Pressure (PIT321) | -2.03 |
| Blower 331 Hrs (HM331) | 23.91 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 900 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 1 |

# Gas System Report (Daily)

## Date: 2025-09-25 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 46.34 |
| Carbon Dioxide% | 30.51 |
| Oxygen% | 0.76 |
| Nitrogen% | 22.38 |
| Hydrogen Sulfide (ppmV) | 155.22 |
| Gas Blower Discharge Temp (TE331) | 172.11 |
| Gas Reheat Temp (TE342) | 84.50 |
| Skid Inlet Gas Pressure (PIT321) | -1.85 |
| Blower 331 Hrs (HM331) | 23.91 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 900 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 1 |

# Gas System Report (Daily)

## Date: 2025-09-26 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 46.23 |
| Carbon Dioxide% | 30.63 |
| Oxygen% | 0.83 |
| Nitrogen% | 22.29 |
| Hydrogen Sulfide (ppmV) | 149.65 |
| Gas Blower Discharge Temp (TE331) | 172.95 |
| Gas Reheat Temp (TE342) | 85.33 |
| Skid Inlet Gas Pressure (PIT321) | -1.97 |
| Blower 331 Hrs (HM331) | 23.91 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 900 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 1 |

# Gas System Report (Daily)

## Date: 2025-09-29 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 43.54 |
| Carbon Dioxide% | 29.71 |
| Oxygen% | 1.02 |
| Nitrogen% | 25.71 |
| Hydrogen Sulfide (ppmV) | 156.10 |
| Gas Blower Discharge Temp (TE331) | 172.49 |
| Gas Reheat Temp (TE342) | 85.04 |
| Skid Inlet Gas Pressure (PIT321) | -2.20 |
| Blower 331 Hrs (HM331) | 23.92 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 900 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 1 |

# Gas System Report (Daily)

## Date: 2025-09-30 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 44.14 |
| Carbon Dioxide% | 29.87 |
| Oxygen% | 0.95 |
| Nitrogen% | 25.00 |
| Hydrogen Sulfide (ppmV) | 187.56 |
| Gas Blower Discharge Temp (TE331) | 172.18 |
| Gas Reheat Temp (TE342) | 85.46 |
| Skid Inlet Gas Pressure (PIT321) | -2.13 |
| Blower 331 Hrs (HM331) | 23.92 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 900 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 1 |

# Gas System Report (Daily)

## Date: 2025-10-01 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 44.42 |
| Carbon Dioxide% | 29.90 |
| Oxygen% | 0.99 |
| Nitrogen% | 24.67 |
| Hydrogen Sulfide (ppmV) | 198.22 |
| Gas Blower Discharge Temp (TE331) | 171.96 |
| Gas Reheat Temp (TE342) | 85.26 |
| Skid Inlet Gas Pressure (PIT321) | -2.10 |
| Blower 331 Hrs (HM331) | 23.92 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 900 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 1 |

# Gas System Report (Daily)

## Date: 2025-10-02 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 44.24 |
| Carbon Dioxide% | 29.85 |
| Oxygen% | 0.98 |
| Nitrogen% | 24.91 |
| Hydrogen Sulfide (ppmV) | 206.73 |
| Gas Blower Discharge Temp (TE331) | 172.94 |
| Gas Reheat Temp (TE342) | 85.87 |
| Skid Inlet Gas Pressure (PIT321) | -2.12 |
| Blower 331 Hrs (HM331) | 23.92 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 900 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-03 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 44.89 |
| Carbon Dioxide% | 30.03 |
| Oxygen% | 0.89 |
| Nitrogen% | 24.17 |
| Hydrogen Sulfide (ppmV) | 200.12 |
| Gas Blower Discharge Temp (TE331) | 174.46 |
| Gas Reheat Temp (TE342) | 87.15 |
| Skid Inlet Gas Pressure (PIT321) | -2.04 |
| Blower 331 Hrs (HM331) | 23.92 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 900 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-06 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 0.00 |
| Carbon Dioxide% | 71.49 |
| Oxygen% | 0.81 |
| Nitrogen% | 27.66 |
| Hydrogen Sulfide (ppmV) | 109.67 |
| Gas Blower Discharge Temp (TE331) | 169.20 |
| Gas Reheat Temp (TE342) | 82.70 |
| Skid Inlet Gas Pressure (PIT321) | -2.27 |
| Blower 331 Hrs (HM331) | 23.92 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 850 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 400 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-07 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 0.00 |
| Carbon Dioxide% | 71.49 |
| Oxygen% | 0.81 |
| Nitrogen% | 27.66 |
| Hydrogen Sulfide (ppmV) | 40.81 |
| Gas Blower Discharge Temp (TE331) | 169.48 |
| Gas Reheat Temp (TE342) | 82.11 |
| Skid Inlet Gas Pressure (PIT321) | -2.28 |
| Blower 331 Hrs (HM331) | 23.92 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 850 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 200 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-08 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 7.31 |
| Methane% | 0.00 |
| Carbon Dioxide% | 71.49 |
| Oxygen% | 0.81 |
| Nitrogen% | 27.66 |
| Hydrogen Sulfide (ppmV) | 0.00 |
| Gas Blower Discharge Temp (TE331) | 97.09 |
| Gas Reheat Temp (TE342) | 68.53 |
| Skid Inlet Gas Pressure (PIT321) | 2.50 |
| Blower 331 Hrs (HM331) | 8.08 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 850 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 200 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-09 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 3.49 |
| Methane% | 0.00 |
| Carbon Dioxide% | 71.49 |
| Oxygen% | 0.81 |
| Nitrogen% | 27.66 |
| Hydrogen Sulfide (ppmV) | 0.00 |
| Gas Blower Discharge Temp (TE331) | 72.54 |
| Gas Reheat Temp (TE342) | 62.80 |
| Skid Inlet Gas Pressure (PIT321) | 2.09 |
| Blower 331 Hrs (HM331) | 2.97 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 850 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-10 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 0.01 |
| Methane% | 0.00 |
| Carbon Dioxide% | 71.49 |
| Oxygen% | 0.81 |
| Nitrogen% | 27.66 |
| Hydrogen Sulfide (ppmV) | 0.00 |
| Gas Blower Discharge Temp (TE331) | 64.55 |
| Gas Reheat Temp (TE342) | 66.45 |
| Skid Inlet Gas Pressure (PIT321) | 0.10 |
| Blower 331 Hrs (HM331) | 0.00 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 850 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-13 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 2.79 |
| Methane% | 0.00 |
| Carbon Dioxide% | 71.49 |
| Oxygen% | 0.81 |
| Nitrogen% | 27.66 |
| Hydrogen Sulfide (ppmV) | 0.00 |
| Gas Blower Discharge Temp (TE331) | 69.94 |
| Gas Reheat Temp (TE342) | 67.17 |
| Skid Inlet Gas Pressure (PIT321) | 1.67 |
| Blower 331 Hrs (HM331) | 6.53 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 850 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-14 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 7.13 |
| Methane% | 25.00 |
| Carbon Dioxide% | 40.64 |
| Oxygen% | 0.89 |
| Nitrogen% | 33.20 |
| Hydrogen Sulfide (ppmV) | 0.00 |
| Gas Blower Discharge Temp (TE331) | 89.27 |
| Gas Reheat Temp (TE342) | 67.57 |
| Skid Inlet Gas Pressure (PIT321) | 3.39 |
| Blower 331 Hrs (HM331) | 7.54 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 850 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-15 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 7.58 |
| Methane% | 57.09 |
| Carbon Dioxide% | 0.00 |
| Oxygen% | 1.44 |
| Nitrogen% | 40.32 |
| Hydrogen Sulfide (ppmV) | 0.00 |
| Gas Blower Discharge Temp (TE331) | 96.36 |
| Gas Reheat Temp (TE342) | 66.91 |
| Skid Inlet Gas Pressure (PIT321) | 3.40 |
| Blower 331 Hrs (HM331) | 9.76 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 800 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-16 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 7.47 |
| Methane% | 56.96 |
| Carbon Dioxide% | 8.88 |
| Oxygen% | 0.92 |
| Nitrogen% | 33.07 |
| Hydrogen Sulfide (ppmV) | 56.62 |
| Gas Blower Discharge Temp (TE331) | 109.96 |
| Gas Reheat Temp (TE342) | 72.63 |
| Skid Inlet Gas Pressure (PIT321) | 2.86 |
| Blower 331 Hrs (HM331) | 9.76 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 800 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-17 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 7.59 |
| Methane% | 55.55 |
| Carbon Dioxide% | 30.77 |
| Oxygen% | 0.33 |
| Nitrogen% | 13.35 |
| Hydrogen Sulfide (ppmV) | 149.99 |
| Gas Blower Discharge Temp (TE331) | 107.35 |
| Gas Reheat Temp (TE342) | 75.94 |
| Skid Inlet Gas Pressure (PIT321) | 3.05 |
| Blower 331 Hrs (HM331) | 9.76 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 800 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-20 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 6.55 |
| Methane% | 56.63 |
| Carbon Dioxide% | 32.37 |
| Oxygen% | 0.35 |
| Nitrogen% | 10.62 |
| Hydrogen Sulfide (ppmV) | 193.78 |
| Gas Blower Discharge Temp (TE331) | 129.40 |
| Gas Reheat Temp (TE342) | 71.43 |
| Skid Inlet Gas Pressure (PIT321) | 0.69 |
| Blower 331 Hrs (HM331) | 23.74 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 800 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-21 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 52.56 |
| Carbon Dioxide% | 32.12 |
| Oxygen% | 0.62 |
| Nitrogen% | 14.68 |
| Hydrogen Sulfide (ppmV) | 238.17 |
| Gas Blower Discharge Temp (TE331) | 164.78 |
| Gas Reheat Temp (TE342) | 78.21 |
| Skid Inlet Gas Pressure (PIT321) | -1.53 |
| Blower 331 Hrs (HM331) | 23.99 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 800 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-22 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 43.39 |
| Carbon Dioxide% | 34.27 |
| Oxygen% | 1.04 |
| Nitrogen% | 21.28 |
| Hydrogen Sulfide (ppmV) | 253.12 |
| Gas Blower Discharge Temp (TE331) | 163.63 |
| Gas Reheat Temp (TE342) | 77.05 |
| Skid Inlet Gas Pressure (PIT321) | -1.80 |
| Blower 331 Hrs (HM331) | 23.99 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 800 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-23 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 23.71 |
| Carbon Dioxide% | 43.49 |
| Oxygen% | 1.54 |
| Nitrogen% | 31.23 |
| Hydrogen Sulfide (ppmV) | 136.47 |
| Gas Blower Discharge Temp (TE331) | 162.27 |
| Gas Reheat Temp (TE342) | 75.26 |
| Skid Inlet Gas Pressure (PIT321) | -1.75 |
| Blower 331 Hrs (HM331) | 23.99 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 800 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-24 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 7.61 |
| Methane% | 46.50 |
| Carbon Dioxide% | 30.47 |
| Oxygen% | 1.09 |
| Nitrogen% | 21.93 |
| Hydrogen Sulfide (ppmV) | 128.00 |
| Gas Blower Discharge Temp (TE331) | 107.72 |
| Gas Reheat Temp (TE342) | 65.18 |
| Skid Inlet Gas Pressure (PIT321) | 1.69 |
| Blower 331 Hrs (HM331) | 23.99 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 800 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-27 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 7.52 |
| Methane% | 48.94 |
| Carbon Dioxide% | 32.95 |
| Oxygen% | 0.75 |
| Nitrogen% | 17.34 |
| Hydrogen Sulfide (ppmV) | 167.00 |
| Gas Blower Discharge Temp (TE331) | 131.77 |
| Gas Reheat Temp (TE342) | 71.75 |
| Skid Inlet Gas Pressure (PIT321) | 0.33 |
| Blower 331 Hrs (HM331) | 23.79 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 800 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-28 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 50.89 |
| Carbon Dioxide% | 31.28 |
| Oxygen% | 0.79 |
| Nitrogen% | 17.03 |
| Hydrogen Sulfide (ppmV) | 155.94 |
| Gas Blower Discharge Temp (TE331) | 163.71 |
| Gas Reheat Temp (TE342) | 77.42 |
| Skid Inlet Gas Pressure (PIT321) | -1.53 |
| Blower 331 Hrs (HM331) | 23.79 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 800 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-29 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 49.25 |
| Carbon Dioxide% | 30.98 |
| Oxygen% | 0.90 |
| Nitrogen% | 18.85 |
| Hydrogen Sulfide (ppmV) | 152.94 |
| Gas Blower Discharge Temp (TE331) | 163.94 |
| Gas Reheat Temp (TE342) | 77.76 |
| Skid Inlet Gas Pressure (PIT321) | -1.65 |
| Blower 331 Hrs (HM331) | 23.79 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 800 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-30 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 50.46 |
| Carbon Dioxide% | 31.15 |
| Oxygen% | 0.75 |
| Nitrogen% | 17.62 |
| Hydrogen Sulfide (ppmV) | 156.74 |
| Gas Blower Discharge Temp (TE331) | 162.03 |
| Gas Reheat Temp (TE342) | 76.01 |
| Skid Inlet Gas Pressure (PIT321) | -1.55 |
| Blower 331 Hrs (HM331) | 23.79 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 800 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-10-31 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 49.53 |
| Carbon Dioxide% | 31.15 |
| Oxygen% | 0.90 |
| Nitrogen% | 18.41 |
| Hydrogen Sulfide (ppmV) | 153.88 |
| Gas Blower Discharge Temp (TE331) | 161.46 |
| Gas Reheat Temp (TE342) | 75.82 |
| Skid Inlet Gas Pressure (PIT321) | -1.71 |
| Blower 331 Hrs (HM331) | 23.79 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 800 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 2000 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-03 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 45.76 |
| Carbon Dioxide% | 30.03 |
| Oxygen% | 1.29 |
| Nitrogen% | 22.90 |
| Hydrogen Sulfide (ppmV) | 138.02 |
| Gas Blower Discharge Temp (TE331) | 160.77 |
| Gas Reheat Temp (TE342) | 77.86 |
| Skid Inlet Gas Pressure (PIT321) | -2.00 |
| Blower 331 Hrs (HM331) | 23.79 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 700 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-04 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 47.40 |
| Carbon Dioxide% | 29.98 |
| Oxygen% | 0.98 |
| Nitrogen% | 21.62 |
| Hydrogen Sulfide (ppmV) | 147.24 |
| Gas Blower Discharge Temp (TE331) | 157.41 |
| Gas Reheat Temp (TE342) | 75.33 |
| Skid Inlet Gas Pressure (PIT321) | -1.59 |
| Blower 331 Hrs (HM331) | 23.79 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 700 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-05 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 45.08 |
| Carbon Dioxide% | 29.76 |
| Oxygen% | 1.46 |
| Nitrogen% | 23.68 |
| Hydrogen Sulfide (ppmV) | 135.95 |
| Gas Blower Discharge Temp (TE331) | 156.44 |
| Gas Reheat Temp (TE342) | 75.61 |
| Skid Inlet Gas Pressure (PIT321) | -2.07 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 700 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-06 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 47.23 |
| Carbon Dioxide% | 29.81 |
| Oxygen% | 0.94 |
| Nitrogen% | 22.01 |
| Hydrogen Sulfide (ppmV) | 144.91 |
| Gas Blower Discharge Temp (TE331) | 154.87 |
| Gas Reheat Temp (TE342) | 73.86 |
| Skid Inlet Gas Pressure (PIT321) | -1.56 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 700 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-07 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 46.69 |
| Carbon Dioxide% | 30.35 |
| Oxygen% | 1.16 |
| Nitrogen% | 21.79 |
| Hydrogen Sulfide (ppmV) | 149.43 |
| Gas Blower Discharge Temp (TE331) | 156.66 |
| Gas Reheat Temp (TE342) | 75.43 |
| Skid Inlet Gas Pressure (PIT321) | -1.93 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 700 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-10 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 42.07 |
| Carbon Dioxide% | 28.18 |
| Oxygen% | 1.61 |
| Nitrogen% | 28.14 |
| Hydrogen Sulfide (ppmV) | 90.52 |
| Gas Blower Discharge Temp (TE331) | 153.64 |
| Gas Reheat Temp (TE342) | 74.13 |
| Skid Inlet Gas Pressure (PIT321) | -2.26 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 700 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-11 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 46.41 |
| Carbon Dioxide% | 29.60 |
| Oxygen% | 0.94 |
| Nitrogen% | 23.04 |
| Hydrogen Sulfide (ppmV) | 140.16 |
| Gas Blower Discharge Temp (TE331) | 161.96 |
| Gas Reheat Temp (TE342) | 79.03 |
| Skid Inlet Gas Pressure (PIT321) | -1.90 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 700 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-12 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 41.67 |
| Carbon Dioxide% | 28.53 |
| Oxygen% | 1.81 |
| Nitrogen% | 27.99 |
| Hydrogen Sulfide (ppmV) | 110.17 |
| Gas Blower Discharge Temp (TE331) | 161.73 |
| Gas Reheat Temp (TE342) | 80.03 |
| Skid Inlet Gas Pressure (PIT321) | -2.62 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 700 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-13 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 41.93 |
| Carbon Dioxide% | 28.42 |
| Oxygen% | 1.58 |
| Nitrogen% | 28.07 |
| Hydrogen Sulfide (ppmV) | 111.58 |
| Gas Blower Discharge Temp (TE331) | 161.33 |
| Gas Reheat Temp (TE342) | 80.28 |
| Skid Inlet Gas Pressure (PIT321) | -2.42 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 700 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-14 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 44.77 |
| Carbon Dioxide% | 29.16 |
| Oxygen% | 1.06 |
| Nitrogen% | 24.99 |
| Hydrogen Sulfide (ppmV) | 130.81 |
| Gas Blower Discharge Temp (TE331) | 163.88 |
| Gas Reheat Temp (TE342) | 81.62 |
| Skid Inlet Gas Pressure (PIT321) | -2.02 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 700 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1750 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-17 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 40.21 |
| Carbon Dioxide% | 27.71 |
| Oxygen% | 1.87 |
| Nitrogen% | 30.20 |
| Hydrogen Sulfide (ppmV) | 102.07 |
| Gas Blower Discharge Temp (TE331) | 160.28 |
| Gas Reheat Temp (TE342) | 79.67 |
| Skid Inlet Gas Pressure (PIT321) | -2.61 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 650 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1600 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-18 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 7.06 |
| Methane% | 40.78 |
| Carbon Dioxide% | 28.12 |
| Oxygen% | 1.63 |
| Nitrogen% | 29.46 |
| Hydrogen Sulfide (ppmV) | 86.18 |
| Gas Blower Discharge Temp (TE331) | 149.90 |
| Gas Reheat Temp (TE342) | 77.36 |
| Skid Inlet Gas Pressure (PIT321) | -2.27 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 650 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1600 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-19 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 40.81 |
| Carbon Dioxide% | 27.96 |
| Oxygen% | 1.56 |
| Nitrogen% | 29.66 |
| Hydrogen Sulfide (ppmV) | 86.26 |
| Gas Blower Discharge Temp (TE331) | 159.05 |
| Gas Reheat Temp (TE342) | 79.18 |
| Skid Inlet Gas Pressure (PIT321) | -2.41 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 650 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1600 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-20 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 42.11 |
| Carbon Dioxide% | 28.37 |
| Oxygen% | 1.34 |
| Nitrogen% | 28.17 |
| Hydrogen Sulfide (ppmV) | 107.71 |
| Gas Blower Discharge Temp (TE331) | 159.64 |
| Gas Reheat Temp (TE342) | 79.36 |
| Skid Inlet Gas Pressure (PIT321) | -2.27 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 650 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1600 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-21 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 41.37 |
| Carbon Dioxide% | 28.07 |
| Oxygen% | 1.54 |
| Nitrogen% | 29.00 |
| Hydrogen Sulfide (ppmV) | 111.51 |
| Gas Blower Discharge Temp (TE331) | 159.81 |
| Gas Reheat Temp (TE342) | 79.05 |
| Skid Inlet Gas Pressure (PIT321) | -2.38 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 650 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1600 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-24 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 42.15 |
| Carbon Dioxide% | 28.37 |
| Oxygen% | 1.31 |
| Nitrogen% | 28.17 |
| Hydrogen Sulfide (ppmV) | 112.01 |
| Gas Blower Discharge Temp (TE331) | 160.81 |
| Gas Reheat Temp (TE342) | 79.92 |
| Skid Inlet Gas Pressure (PIT321) | -2.31 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 650 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1600 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-25 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 44.06 |
| Carbon Dioxide% | 29.04 |
| Oxygen% | 1.01 |
| Nitrogen% | 25.88 |
| Hydrogen Sulfide (ppmV) | 124.19 |
| Gas Blower Discharge Temp (TE331) | 161.56 |
| Gas Reheat Temp (TE342) | 80.67 |
| Skid Inlet Gas Pressure (PIT321) | -2.14 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 650 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1600 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-26 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 39.61 |
| Carbon Dioxide% | 27.67 |
| Oxygen% | 2.08 |
| Nitrogen% | 30.63 |
| Hydrogen Sulfide (ppmV) | 83.66 |
| Gas Blower Discharge Temp (TE331) | 159.48 |
| Gas Reheat Temp (TE342) | 78.86 |
| Skid Inlet Gas Pressure (PIT321) | -2.86 |
| Blower 331 Hrs (HM331) | 23.94 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 650 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1600 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-27 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.01 |
| Methane% | 38.08 |
| Carbon Dioxide% | 26.90 |
| Oxygen% | 2.14 |
| Nitrogen% | 32.86 |
| Hydrogen Sulfide (ppmV) | 81.06 |
| Gas Blower Discharge Temp (TE331) | 158.93 |
| Gas Reheat Temp (TE342) | 78.84 |
| Skid Inlet Gas Pressure (PIT321) | -2.67 |
| Blower 331 Hrs (HM331) | 23.95 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 650 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1600 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-11-28 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.02 |
| Methane% | 39.17 |
| Carbon Dioxide% | 27.15 |
| Oxygen% | 1.84 |
| Nitrogen% | 31.84 |
| Hydrogen Sulfide (ppmV) | 73.27 |
| Gas Blower Discharge Temp (TE331) | 160.24 |
| Gas Reheat Temp (TE342) | 80.91 |
| Skid Inlet Gas Pressure (PIT321) | -2.12 |
| Blower 331 Hrs (HM331) | 23.95 |

| | |
|---|---|
| Flare Temperature (if operating) | 506 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 650 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1600 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-01 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 41.65 |
| Carbon Dioxide% | 27.74 |
| Oxygen% | 1.36 |
| Nitrogen% | 29.24 |
| Hydrogen Sulfide (ppmV) | 74.03 |
| Gas Blower Discharge Temp (TE331) | 157.54 |
| Gas Reheat Temp (TE342) | 79.40 |
| Skid Inlet Gas Pressure (PIT321) | -2.17 |
| Blower 331 Hrs (HM331) | 23.95 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 650 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1600 |
| Flare Chart Change (1/MONTH) | 1 |

# Gas System Report (Daily)

## Date: 2025-12-02 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 42.88 |
| Carbon Dioxide% | 28.24 |
| Oxygen% | 1.26 |
| Nitrogen% | 27.61 |
| Hydrogen Sulfide (ppmV) | 107.90 |
| Gas Blower Discharge Temp (TE331) | 158.25 |
| Gas Reheat Temp (TE342) | 79.69 |
| Skid Inlet Gas Pressure (PIT321) | -2.07 |
| Blower 331 Hrs (HM331) | 23.95 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 650 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1600 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-03 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.04 |
| Methane% | 39.20 |
| Carbon Dioxide% | 27.22 |
| Oxygen% | 2.22 |
| Nitrogen% | 31.36 |
| Hydrogen Sulfide (ppmV) | 63.22 |
| Gas Blower Discharge Temp (TE331) | 162.52 |
| Gas Reheat Temp (TE342) | 80.30 |
| Skid Inlet Gas Pressure (PIT321) | -2.33 |
| Blower 331 Hrs (HM331) | 23.95 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 650 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1600 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-04 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 39.90 |
| Carbon Dioxide% | 27.05 |
| Oxygen% | 1.78 |
| Nitrogen% | 31.27 |
| Hydrogen Sulfide (ppmV) | 59.45 |
| Gas Blower Discharge Temp (TE331) | 156.35 |
| Gas Reheat Temp (TE342) | 78.88 |
| Skid Inlet Gas Pressure (PIT321) | -2.35 |
| Blower 331 Hrs (HM331) | 23.95 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 650 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1600 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-05 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 43.29 |
| Carbon Dioxide% | 28.25 |
| Oxygen% | 1.18 |
| Nitrogen% | 27.26 |
| Hydrogen Sulfide (ppmV) | 105.40 |
| Gas Blower Discharge Temp (TE331) | 158.33 |
| Gas Reheat Temp (TE342) | 79.13 |
| Skid Inlet Gas Pressure (PIT321) | -1.95 |
| Blower 331 Hrs (HM331) | 23.95 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 650 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1600 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-08 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 7.99 |
| Methane% | 41.51 |
| Carbon Dioxide% | 27.80 |
| Oxygen% | 1.57 |
| Nitrogen% | 29.11 |
| Hydrogen Sulfide (ppmV) | 82.49 |
| Gas Blower Discharge Temp (TE331) | 157.16 |
| Gas Reheat Temp (TE342) | 80.01 |
| Skid Inlet Gas Pressure (PIT321) | -2.08 |
| Blower 331 Hrs (HM331) | 23.95 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-09 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 45.43 |
| Carbon Dioxide% | 28.83 |
| Oxygen% | 0.95 |
| Nitrogen% | 24.79 |
| Hydrogen Sulfide (ppmV) | 124.99 |
| Gas Blower Discharge Temp (TE331) | 158.48 |
| Gas Reheat Temp (TE342) | 79.31 |
| Skid Inlet Gas Pressure (PIT321) | -1.89 |
| Blower 331 Hrs (HM331) | 23.99 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-10 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 37.91 |
| Carbon Dioxide% | 26.65 |
| Oxygen% | 2.38 |
| Nitrogen% | 33.05 |
| Hydrogen Sulfide (ppmV) | 64.00 |
| Gas Blower Discharge Temp (TE331) | 156.97 |
| Gas Reheat Temp (TE342) | 79.19 |
| Skid Inlet Gas Pressure (PIT321) | -2.95 |
| Blower 331 Hrs (HM331) | 23.99 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-11 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 7.99 |
| Methane% | 38.44 |
| Carbon Dioxide% | 26.73 |
| Oxygen% | 2.03 |
| Nitrogen% | 32.79 |
| Hydrogen Sulfide (ppmV) | 59.81 |
| Gas Blower Discharge Temp (TE331) | 157.22 |
| Gas Reheat Temp (TE342) | 79.45 |
| Skid Inlet Gas Pressure (PIT321) | -2.45 |
| Blower 331 Hrs (HM331) | 23.99 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-12 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 38.38 |
| Carbon Dioxide% | 26.58 |
| Oxygen% | 2.10 |
| Nitrogen% | 32.94 |
| Hydrogen Sulfide (ppmV) | 69.68 |
| Gas Blower Discharge Temp (TE331) | 155.47 |
| Gas Reheat Temp (TE342) | 78.39 |
| Skid Inlet Gas Pressure (PIT321) | -2.77 |
| Blower 331 Hrs (HM331) | 23.99 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-15 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 40.10 |
| Carbon Dioxide% | 26.95 |
| Oxygen% | 1.64 |
| Nitrogen% | 31.31 |
| Hydrogen Sulfide (ppmV) | 111.35 |
| Gas Blower Discharge Temp (TE331) | 155.67 |
| Gas Reheat Temp (TE342) | 78.55 |
| Skid Inlet Gas Pressure (PIT321) | -2.32 |
| Blower 331 Hrs (HM331) | 24.00 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-16 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 41.81 |
| Carbon Dioxide% | 27.48 |
| Oxygen% | 1.25 |
| Nitrogen% | 29.45 |
| Hydrogen Sulfide (ppmV) | 91.73 |
| Gas Blower Discharge Temp (TE331) | 157.48 |
| Gas Reheat Temp (TE342) | 79.38 |
| Skid Inlet Gas Pressure (PIT321) | -2.20 |
| Blower 331 Hrs (HM331) | 23.98 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-17 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 40.05 |
| Carbon Dioxide% | 26.97 |
| Oxygen% | 1.75 |
| Nitrogen% | 31.22 |
| Hydrogen Sulfide (ppmV) | 83.00 |
| Gas Blower Discharge Temp (TE331) | 157.18 |
| Gas Reheat Temp (TE342) | 79.28 |
| Skid Inlet Gas Pressure (PIT321) | -2.43 |
| Blower 331 Hrs (HM331) | 23.99 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-18 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 42.97 |
| Carbon Dioxide% | 28.24 |
| Oxygen% | 1.31 |
| Nitrogen% | 27.47 |
| Hydrogen Sulfide (ppmV) | 108.31 |
| Gas Blower Discharge Temp (TE331) | 157.70 |
| Gas Reheat Temp (TE342) | 78.97 |
| Skid Inlet Gas Pressure (PIT321) | -2.22 |
| Blower 331 Hrs (HM331) | 23.99 |

| | |
|---|---|
| Flare Temperature (if operating) | 586 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-19 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 8.00 |
| Methane% | 38.68 |
| Carbon Dioxide% | 26.79 |
| Oxygen% | 2.21 |
| Nitrogen% | 32.32 |
| Hydrogen Sulfide (ppmV) | 78.28 |
| Gas Blower Discharge Temp (TE331) | 154.62 |
| Gas Reheat Temp (TE342) | 77.67 |
| Skid Inlet Gas Pressure (PIT321) | -2.79 |
| Blower 331 Hrs (HM331) | 23.99 |

| | |
|---|---|
| Flare Temperature (if operating) | 529 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-21 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 5.50 |
| Methane% | 38.12 |
| Carbon Dioxide% | 26.55 |
| Oxygen% | 2.11 |
| Nitrogen% | 33.21 |
| Hydrogen Sulfide (ppmV) | 47.87 |
| Gas Blower Discharge Temp (TE331) | 127.18 |
| Gas Reheat Temp (TE342) | 76.34 |
| Skid Inlet Gas Pressure (PIT321) | -3.03 |
| Blower 331 Hrs (HM331) | 17.08 |

| | |
|---|---|
| Flare Temperature (if operating) | 732 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-22 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 0.00 |
| Methane% | 39.07 |
| Carbon Dioxide% | 26.70 |
| Oxygen% | 1.62 |
| Nitrogen% | 32.60 |
| Hydrogen Sulfide (ppmV) | 35.08 |
| Gas Blower Discharge Temp (TE331) | 57.45 |
| Gas Reheat Temp (TE342) | 61.41 |
| Skid Inlet Gas Pressure (PIT321) | -2.32 |
| Blower 331 Hrs (HM331) | 0.00 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-23 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 0.00 |
| Methane% | 39.07 |
| Carbon Dioxide% | 26.70 |
| Oxygen% | 1.62 |
| Nitrogen% | 32.60 |
| Hydrogen Sulfide (ppmV) | 35.08 |
| Gas Blower Discharge Temp (TE331) | 57.70 |
| Gas Reheat Temp (TE342) | 61.40 |
| Skid Inlet Gas Pressure (PIT321) | -0.03 |
| Blower 331 Hrs (HM331) | 0.00 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-24 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 0.01 |
| Methane% | 39.07 |
| Carbon Dioxide% | 26.70 |
| Oxygen% | 1.62 |
| Nitrogen% | 32.60 |
| Hydrogen Sulfide (ppmV) | 35.08 |
| Gas Blower Discharge Temp (TE331) | 56.77 |
| Gas Reheat Temp (TE342) | 60.84 |
| Skid Inlet Gas Pressure (PIT321) | 0.04 |
| Blower 331 Hrs (HM331) | 0.00 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-25 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 0.01 |
| Methane% | 39.07 |
| Carbon Dioxide% | 26.70 |
| Oxygen% | 1.62 |
| Nitrogen% | 32.60 |
| Hydrogen Sulfide (ppmV) | 35.08 |
| Gas Blower Discharge Temp (TE331) | 56.67 |
| Gas Reheat Temp (TE342) | 60.95 |
| Skid Inlet Gas Pressure (PIT321) | 0.06 |
| Blower 331 Hrs (HM331) | 15.51 |

| | |
|---|---|
| Flare Temperature (if operating) | 665 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-26 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 5.48 |
| Methane% | 45.59 |
| Carbon Dioxide% | 27.78 |
| Oxygen% | 1.08 |
| Nitrogen% | 25.53 |
| Hydrogen Sulfide (ppmV) | 103.12 |
| Gas Blower Discharge Temp (TE331) | 123.55 |
| Gas Reheat Temp (TE342) | 76.96 |
| Skid Inlet Gas Pressure (PIT321) | -1.33 |
| Blower 331 Hrs (HM331) | 15.51 |

| | |
|---|---|
| Flare Temperature (if operating) | 710 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-29 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 0.00 |
| Methane% | 49.08 |
| Carbon Dioxide% | 28.41 |
| Oxygen% | 0.79 |
| Nitrogen% | 21.71 |
| Hydrogen Sulfide (ppmV) | 148.12 |
| Gas Blower Discharge Temp (TE331) | 49.39 |
| Gas Reheat Temp (TE342) | 52.82 |
| Skid Inlet Gas Pressure (PIT321) | -0.07 |
| Blower 331 Hrs (HM331) | 0.00 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-30 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 0.01 |
| Methane% | 49.08 |
| Carbon Dioxide% | 28.41 |
| Oxygen% | 0.79 |
| Nitrogen% | 21.71 |
| Hydrogen Sulfide (ppmV) | 148.12 |
| Gas Blower Discharge Temp (TE331) | 52.72 |
| Gas Reheat Temp (TE342) | 57.38 |
| Skid Inlet Gas Pressure (PIT321) | 0.12 |
| Blower 331 Hrs (HM331) | 6.20 |

| | |
|---|---|
| Flare Temperature (if operating) | 0 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# Gas System Report (Daily)

## Date: 2025-12-31 23:59:59

| Name | Total |
|---|---|
| LFG Delivery Pressure (psig) | 2.18 |
| Methane% | 49.08 |
| Carbon Dioxide% | 28.41 |
| Oxygen% | 0.79 |
| Nitrogen% | 21.71 |
| Hydrogen Sulfide (ppmV) | 57.43 |
| Gas Blower Discharge Temp (TE331) | 82.10 |
| Gas Reheat Temp (TE342) | 66.37 |
| Skid Inlet Gas Pressure (PIT321) | -0.25 |
| Blower 331 Hrs (HM331) | 6.20 |

| | |
|---|---|
| Flare Temperature (if operating) | 680 |
| Nitrogen Tank (SUPPLY) ((Outside)) | 600 |
| Calibration Gas (SUPPLY) ((Left)) | 1100 |
| Helium Tank (SUPPLY) ((Right)) | 1500 |
| Flare Chart Change (1/MONTH) | 0 |

# La Crosse County Solid Waste Management Facility
## Semi-Annual Monitoring Report
### January 1, 2025, through June 30, 2025
### Air Operation Permit No. 63206363A-P20

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, 2025, through June 30, 2025, 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. Please note, monitoring records are submitted in Attachment D to the Annual WDNR Report submitted to the WDNR Waste Program as required by the Facility's Plan of Operation.

1. **I.A.2.a. (21) and (29) – Monitoring of flare (C01)**
   Landfill gas flow to the flare occurred 27.75% of the time during this monitoring period. The balance of landfill gas is directed to the landfill gas to energy treatment (LFGTE) system.

   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 the absence of a flare flowmeter was submitted on 2/13/2025. The deviation occurred during the required annual calibration of the flare. Landfill gas was not directed to the flare during this event. The flare was utilized, and flow was calculated from a standardized rate. The Facility has since installed a new flow meter and has a spare flow meter to use during calibrations to avoid monitoring interruptions.

2. **I.A.2.a. (22) and (30) Monitoring of the Landfill Gas to Energy Treatment System**
   Landfill gas flow to the treatment system is continuously monitored. Monthly landfill gas flow data is summarized in the following table.

**2025 LFG DATA**

| Date | Chart for Flare | | SCF to Flare | SCF To Pipeline | Combined SCF | % Flow Time to Engine |
|---|---|---|---|---|---|---|
| | Start | End | | | | |
| Jan. Total | 110380049 | 110523850 | 143,801 | 6,432,179 | 6,575,980 | 61.44% |
| Feb Total | 110523850 | 110948377 | 424,527 | 976,700 | 1,401,227 | 10.69% |
| March Total | 110605177 | 110710777 | 105,600 | 7,575,154 | 7,680,754 | 78.94% |
| April Total | 110710777 | 110770772 | 59,995 | 9,665,178 | 9,725,173 | 92.32% |
| May Total | 110770772 | 110771656 | 884 | 11,272,601 | 11,273,485 | 98.90% |
| June Total | 110771656 | 110925059 | 153,403 | 9,886,720 | 10,040,123 | 91.19% |
| July Total | | | 0 | | 0 | |
| Aug. Total | | | 0 | | 0 | |
| Sept. Total | | | 0 | | 0 | |
| Oct. Total | | | 0 | | 0 | |
| Nov. Total | | | 0 | | 0 | |
| Dec. Total | | | 0 | | 0 | |
| | | | Average/Month | 7,634,755 | 4,245,158 | 72.25% |
| | | | Total | 45,808,532 | 46,696,742 | |

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. The highest pressure reading (inches of water) from any well each month are as follows: January (-0.02), February (-0.06), March (-0.06), April (-0.05), May (-0.03), June (-0.07).

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. The highest temperature (°F) recorded at any well each month are as follows: January (91), February (89), March (94), April (95), May (96), June (95).

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. The highest oxygen readings (%vol) at any well each month are as follows: January (4.7), February (4.8), March (4.5) April (4.8), May (4.6), June (4.5).

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 2/11/25, an annual calibration of the flowmeter associated with the flare was performed. No landfill gas was sent to the flare when a flame was not present, and no untreated landfill gas was vented to the atmosphere. The flare was utilized, but a standardized flow was calculated since the flare could not be monitored or recorded every 15 minutes. A Notification of Deviation was submitted to the WDNR on 2/13/25. The Facility has since installed a new flow meter and has a spare flow meter to use during calibrations to avoid monitoring interruptions.

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, 2025, through June 30, 2025.

**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

08-20-2025

Date

Jadd Stilwell

Printed Name

Director

Title

PAS/ELH
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# La Crosse County Solid Waste Management Facility
## Semi-Annual Monitoring Report
### July 1, 2025, through December 31, 2025
### Air Operation Permit No. 63206363A-P20

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, 2025, through December 31, 2025, 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. Please note, monitoring records are submitted in Attachment D to the Annual WDNR Report submitted to the WDNR Waste Program as required by the Facility's Plan of Operation.

1. **I.A.2.a. (21) and (29) – Monitoring of flare (C01)**
   Landfill gas flow to the flare occurred 21.3% of the time during this monitoring period. The balance of landfill gas is directed to the landfill gas to energy treatment (LFGTE) system.

   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.

2. **I.A.2.a. (22) and (30) Monitoring of the Landfill Gas to Energy Treatment System**
   Landfill gas flow to the treatment system is continuously monitored. Monthly landfill gas flow data is summarized in the following table.

**2025 LFG DATA**

| | Chart for Flare | | SCF to | SCF To | Combined | % Flow Time |
|---|---|---|---|---|---|---|
| Date | Start | End | Flare | Pipeline | SCF | to Engine |
| Jan. Total | 110380049 | 110523850 | 143,801 | 6,432,179 | 6,575,980 | 61.44% |
| Feb Total | 110523850 | 110948377 | 424,527 | 976,700 | 1,401,227 | 10.69% |
| March Total | 110605177 | 110710777 | 105,600 | 7,575,154 | 7,680,754 | 78.94% |
| April Total | 110710777 | 110770772 | 59,995 | 9,665,178 | 9,725,173 | 92.32% |
| May Total | 110770772 | 110771656 | 884 | 11,272,601 | 11,273,485 | 98.90% |
| June Total | 110771656 | 110925059 | 153,403 | 9,886,720 | 10,040,123 | 91.19% |
| July Total | 110925059 | 111055118 | 130,059 | 8,527,064 | 8,657,123 | 85.22% |
| Aug. Total | 111055118 | 111056936 | 1,818 | 10,440,748 | 10,442,566 | 98.64% |
| Sept. Total | 111056936 | 111060183 | 3,247 | 9,244,011 | 9,247,258 | 86.51% |
| Oct. Total | 111060183 | 111089093 | 28,910 | 4,936,228 | 4,965,138 | 50.69% |
| Nov. Total | 111089093 | 111564293 | 475,200 | 4,421,958 | 4,897,158 | 94.30% |
| Dec. Total | 111564293 | 112581977 | 1,017,684 | 6,531,160 | 7,548,844 | 56.84% |
| | | | Average/Month | 7,492,475 | 7,704,569 | 75.47% |
| | | | Total | 89,909,701 | 92,454,829 | |

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. The highest pressure reading (inches of water) from any well each month are as follows: July (-0.08), August (-0.3), September (-0.06), October (-0.06), November (-0.05), December (-0.03).

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. The highest temperature (°F) recorded at any well each month are as follows: July (94), August (95), September (92), October (92), November (91), December (97).

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. The highest oxygen readings (%vol) at any well each month are as follows: July (2.9), August (3.1), September (3.5), October (3.8), November (4.1), December (3.9).

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 9, 2025. The next surface monitoring is anticipated to be performed during fall 2026.

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.**
   No deviations of permit conditions were recorded during this reporting period.

   However, the landfill did become aware that there were three small natural gas-fired emergency engines on site that had not been included in recent operation permit applications. On July 9, 2025, the landfill submitted an operation permit revision request to the WDNR asking to add these emergency engines to the operation permit. The landfill continues to meet 40 CFR 60 Subpart JJJJ requirements for these engines.

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, 2025, through December 31, 2025.

**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

2/17/2026

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, 2025 through June 30, 2025**

| 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).<br>(1) The owner or operator must:<br>(i) Submit an annual NMOC emission rate report according to § 62.16724(c), except as provided in 62.16724(c)(3); and<br>(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.<br>(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).<br>(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<br>(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**
**January 1, 2025 through June 30, 2025**

| Emitting Unit | Rule Citation | Requirements | Any Deviations | | Notes |
|---|---|---|---|---|---|
| | | | Yes | No | |
| 40 CFR Part 62, Subpart OOO | 62.16724 Reporting Guidelines<br>(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.<br>(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).<br>(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.<br>(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<br>(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**
**January 1, 2025 through June 30, 2025**

| Emitting Unit | Rule Citation | Requirements | Any Deviations | | Notes |
|---|---|---|---|---|---|
| | | | Yes | No | |
| 40 CFR Part 62, Subpart OOO | 62.16724 Reporting Guidelines<br>(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:<br>(1)Volume of leachate recirculated (gallons per year) and the reported basis of those estimates (records or engineering estimates).<br>(2) Total volume of all other liquids added (gallons per year) and the reported basis of those estimates (records or engineering estimates).<br>(3) Surface area (acres) over which the leachate is recirculated (or otherwise applied).<br>(4) Surface area (acres) over which any other liquids are applied.<br>(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.<br>(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.<br>(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.<br>(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.<br>(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 12, 2025 via WDNR Swtichboard. A hard copy was mailed to the USEPA. |

**La Crosse County Solid Waste Management Facility**
**Air Permit Monitoring Summary - 40 CFR Part 62 Supbart OOO**
**Air Permit No. 63206363A-P20**
**January 1, 2025 through June 30, 2025**

| 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.<br>(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.<br>(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, 2025 through June 30, 2025**

| 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<br><br>**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).<br><br>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:*<br>(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;*<br>(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:<br>(i) 5 years or more if active; or*<br>(ii) 2 years or more if closed or at final grade;*<br>(c) Collect gas at a sufficient extraction rate; and*<br>(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).<br><br>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.<br><br>Design of GCCS part of Plan of Operations.<br><br>Waste acceptance records kept per I.A.2.a.(27).<br><br>Gas generation records kept per I.A.2.a.(28)(a).<br><br>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. Waste acceptance records and gas generation records are attached to the Annual Report submitted to the WDNR Waste Program each year. |
| | | | | I.A.2.a.(3) - To control emissions of hazardous air contaminants, the permittee shall comply with either (a) or (b) below:*<br>(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.*<br>(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.*<br>(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<br><br>**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:<br>(a) 5 years or more if active; or<br>(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:*<br>(a) Five (5) years or more if active; or*<br>(b) Two (2) years or more if closed or at final grade. | Compliance achieved via horizontal STOCs and vertical wells<br><br>Drawings, waste, and well placement/removal dates have been updated in facility files.<br><br>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<br><br>I.A.2.a.(20)(a) Measure the gauge pressure in the gas collection header on a monthly basis<br><br>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 GEM5000+. Monthly monitoring conducted with no deviations during this reporting period. Calibration of CES/LANDTECH GEM5000+ was performed. Remonitoring was not required.<br><br>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<br><br>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.<br><br>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, 2025 through June 30, 2025**

| 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<br><br>**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<br>I.A.2.a.(17)(e) - Monthly cover integrity inspections<br>I.A.2.a.(18) - Calibration of SEM devices | Annual surface emission monitoring last completed 10/8/24.<br><br>Next anticipated SEM event to occur in July-December 2025 time period.<br><br>Records kept per I.A.2.a.(32) and (33)<br><br>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:*<br>(a) A heat sensing device to indicate the continuous presence of a flame<br>(b) A device that records flow to the flare and bypass of the flare (if applicable)<br>(i) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the control device at least every 15 minutes.<br>(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.<br><br>Landfill gas flow is measured continuously.<br><br>ST-98 flowmeter calibrated March 2024. When the flow meter was disconnected for the calibration, flow was calculated using a standard rate.<br><br>Monthly inspections of the seal or closure mechanism were performed.<br><br>Records kept per I.A.2.a.(29) | **X** | | A deviation notification associated with flare flowmeter was submitted on 2/13/2025. The deviation occurred during the required annual calibration of the flare. The flare was utilized, and flow was calculated from a standardized rate.<br><br>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:*<br>(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*<br>(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.<br><br>Landfill gas flow is measured continuously.<br><br>ST-98 flowmeter calibrated March 2024.<br><br>Monthly inspections of the seal or closure mechanism were performed.<br><br>Records kept per I.A.2.a.(30)(a)<br><br>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**
**January 1, 2025 through June 30, 2025**

| 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<br><br>**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<br><br>**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:*<br>(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, 2025 through June 30, 2025**

| 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).*<br>(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).*<br>(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**
**January 1, 2025 through June 30, 2025**

| 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:<br>(a) The design parameters that affect the generation of visible emissions.*<br>(b) The results of the initial compliance emission test for visible emissions.*<br>(c) The design net heating value of the gas being combusted in flare C01.*<br>(d) The design exit velocity and the operational exit velocity for flare C01.*<br>(e) The flare type (i.e. steam-assisted, air-assisted, or nonassisted).*<br>(f) The start and end times of any period during which emissions are vented to the flare.*<br>(g) Summaries and dates of all maintenance performed on the flare.*<br>(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, 2025 through June 30, 2025**

| 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<br><br>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, 2025 through June 30, 2025**

| 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)<br>(2) The permittee shall keep and maintain records of the following:<br>(a) All odor complaints received by the permittee;<br>(b) All measures taken to abate or control odor in response to a complaint;<br>(c) The date of each review of the odor control plan.<br><br>(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.<br><br>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, 2025 through June 30, 2025**

| 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)<br>(2) The permittee shall keep and maintain records of the following:<br>(a) All dust complaints received by the permittee.<br>(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.<br><br>Reporting: I.B.2.c.(3)<br>(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:<br>(a) Controlling dust on the site by application of water and/or other dust suppressants.<br>(b) Covering stockpiles with plastic or a similar material.<br>(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)<br>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, 2025 through June 30, 2025**

| Emitting Unit | Permit Condition | Rule Citation | Pollutant/ Parameter | Limitation/ Condition | Compliance Demonstration Method | Any Deviations During Reporting Period? Yes | No | Notes |
|---|---|---|---|---|---|---|---|---|
| **Operating Permit Requirements** | ZZZ.1.a.(1)(a)-(g) | NR 407.09(1)(c)3.<br>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 previous semi-annual monitoring report was submitted in a timely manner. |
| | ZZZ.1.a.(2)(a)-(e) | NR 407.09(4)(a)3,<br>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 was 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.<br><br>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. |

TO BE COMPLETED UPON COMMENCE CONSTRUCTION ACTIVITIES

**La Crosse County Solid Waste Management Facility**
**Air Permit Monitoring Summary - 40 CFR Part 62 Supbart OOO**
**Air Permit No. 63206363A-P20**
**July 1, 2025 through December 31, 2025**

| 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).<br>(1) The owner or operator must:<br>(i) Submit an annual NMOC emission rate report according to § 62.16724(c), except as provided in 62.16724(c)(3); and<br>(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.<br>(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).<br>(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. |

**La Crosse County Solid Waste Management Facility**
**Air Permit Monitoring Summary - 40 CFR Part 62 Supbart OOO**
**Air Permit No. 63206363A-P20**
**July 1, 2025 through December 31, 2025**

| Emitting Unit | Rule Citation | Requirements | Any Deviations | | Notes |
|---|---|---|---|---|---|
| | | | Yes | No | |
| 40 CFR Part 62, Subpart OOO | 62.16724 Reporting Guidelines<br>(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.<br>(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).<br>(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.<br>(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<br>(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, 2025 through December 31, 2025**

| Emitting Unit | Rule Citation | Requirements | Any Deviations | | Notes |
|---|---|---|---|---|---|
| | | | Yes | No | |
| 40 CFR Part 62, Subpart OOO | 62.16724 Reporting Guidelines<br>(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:<br>(1)Volume of leachate recirculated (gallons per year) and the reported basis of those estimates (records or engineering estimates).<br>(2) Total volume of all other liquids added (gallons per year) and the reported basis of those estimates (records or engineering estimates).<br>(3) Surface area (acres) over which the leachate is recirculated (or otherwise applied).<br>(4) Surface area (acres) over which any other liquids are applied.<br>(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.<br>(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.<br>(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.<br>(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.<br>(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 12, 2025 via WDNR Swtichboard. A hard copy was mailed to the USEPA. |

**La Crosse County Solid Waste Management Facility**
**Air Permit Monitoring Summary - 40 CFR Part 62 Supbart OOO**
**Air Permit No. 63206363A-P20**
**July 1, 2025 through December 31, 2025**

| 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.<br>(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.<br>(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, 2025 through December 31, 2025**

| 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<br><br>**C01/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).<br><br>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:*<br>(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;*<br>(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:<br>(i) 5 years or more if active; or*<br>(ii) 2 years or more if closed or at final grade;*<br>(c) Collect gas at a sufficient extraction rate; and*<br>(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).<br><br>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.<br><br>Design of GCCS part of Plan of Operations.<br><br>Waste acceptance records kept per I.A.2.a.(27).<br><br>Gas generation records kept per I.A.2.a.(28)(a).<br><br>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. Waste acceptance records and gas generation records are attached to the Annual Report submitted to the WDNR Waste Program each year. |
| | | | | I.A.2.a.(3) - To control emissions of hazardous air contaminants, the permittee shall comply with either (a) or (b) below:*<br>(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.*<br>(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.*<br>(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**<br><br>**C01/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:<br>(a) 5 years or more if active; or<br>(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:*<br>(a) Five (5) years or more if active; or*<br>(b) Two (2) years or more if closed or at final grade. | Compliance achieved via horizontal STOCs and vertical wells<br><br>Drawings, waste, and well placement/removal dates have been updated in facility files.<br><br>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<br><br>I.A.2.a.(20)(a) Measure the gauge pressure in the gas collection header on a monthly basis<br><br>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 GEM5000+. Monthly monitoring conducted with no deviations during this reporting period. Calibration of CES/LANDTECH GEM5000+ was performed. Remonitoring was not required.<br><br>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<br><br>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.<br><br>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, 2025 through December 31, 2025**

| 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**<br><br>**C01/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<br>I.A.2.a.(17)(e) - Monthly cover integrity inspections<br>I.A.2.a.(18) - Calibration of SEM devices | Annual surface emission monitoring last completed 10/9/25.<br><br>Next anticipated SEM event to occur in July-December 2026 time period.<br><br>Records kept per I.A.2.a.(32) and (33)<br><br>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:*<br>(a) A heat sensing device to indicate the continuous presence of a flame<br>(b) A device that records flow to the flare and bypass of the flare (if applicable)<br>(i) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the control device at least every 15 minutes.<br>(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.<br><br>Landfill gas flow is measured continuously.<br><br>ST80 flowmeter installed and calibrated November 18, 2025.<br><br>Monthly inspections of the seal or closure mechanism were performed.<br><br>Records kept per I.A.2.a.(29) | | **X** | No deviations reported from July 1 - December 31, 2025. |
| | | | | (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:*<br>(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*<br>(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.<br><br>Landfill gas flow is measured continuously.<br><br>ST80 flowmeter installed and calibrated November 18, 2025.<br><br>Monthly inspections of the seal or closure mechanism were performed.<br><br>Records kept per I.A.2.a.(30)(a)<br><br>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, 2025 through December 31, 2025**

| 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**<br><br>**C01/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**<br><br>**C01/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:*<br>(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 | No corrective expansion, so no reports were required 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, 2025 through December 31, 2025**

| Emitting Unit | Permit Condition | Rule Citation | Pollutant/ Parameter | Limit/Condition | Compliance Demonstration Method | Recordkeeping and Monitoring | Any Deviations During Reporting Period? | | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Yes | No | |
| C01/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 | |
| | | | | (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).*<br>(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).*<br>(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, 2025 through December 31, 2025**

| Emitting Unit | Permit Condition | Rule Citation | Pollutant/ Parameter | Limit/Condition | Compliance Demonstration Method | Recordkeeping and Monitoring | Any Deviations During Reporting Period? | | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Yes | No | |
| C01/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 | |
| | | | | (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:<br>(a) The design parameters that affect the generation of visible emissions.*<br>(b) The results of the initial compliance emission test for visible emissions.*<br>(c) The design net heating value of the gas being combusted in flare C01.*<br>(d) The design exit velocity and the operational exit velocity for flare C01.*<br>(e) The flare type (i.e. steam-assisted, air-assisted, or nonassisted).*<br>(f) The start and end times of any period during which emissions are vented to the flare.*<br>(g) Summaries and dates of all maintenance performed on the flare.*<br>(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, 2025 through December 31, 2025**

| 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<br><br>C01/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, 2025 through December 31, 2025**

| 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)<br>(2) The permittee shall keep and maintain records of the following:<br>(a) All odor complaints received by the permittee;<br>(b) All measures taken to abate or control odor in response to a complaint;<br>(c) The date of each review of the odor control plan.<br><br>(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.<br><br>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, 2025 through December 31, 2025**

| 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)<br>(2) The permittee shall keep and maintain records of the following:<br>(a) All dust complaints received by the permittee.<br>(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.<br><br>Reporting: I.B.2.c.(3)<br>(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:<br>(a) Controlling dust on the site by application of water and/or other dust suppressants.<br>(b) Covering stockpiles with plastic or a similar material.<br>(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)<br>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, 2025 through December 31, 2025**

| 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.<br>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 previous semi-annual monitoring report was submitted in a timely manner. |
| | ZZZ.1.a.(2)(a)-(e) | NR 407.09(4)(a)3,<br>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 was 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.<br><br>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. |

# CERTIFICATION OF CALIBRATION

PJLA Calibration
No. 66916

Date Of Calibration: 10-Dec-2025

Certificate Number: G506195_9/40284

## Issued by: QED Environmental Systems Inc.

***Customer:*** **LA CROSSE COUNTY SOLID WASTE**
3200 BERLIN DR LA CROSSE WI 54601 UNITED STATES

***Description:***

***Model:*** GEM5000

***Serial Number:*** G506195

**Accredited Results:**

| Methane (CH4) | | |
|---|---|---|
| **Certified Gas (%)** | **Instrument Reading (%)** | **Uncertainty (%)** |
| 5.0 | 4.8 | 0.42 |
| 15.0 | 14.7 | 0.66 |
| 60.0 | 59.4 | 1.03 |

| Carbon Dioxide (CO2) | | |
|---|---|---|
| **Certified Gas (%)** | **Instrument Reading (%)** | **Uncertainty (%)** |
| 5.0 | 4.9 | 0.43 |
| 15.0 | 14.7 | 0.71 |
| 40.0 | 40.0 | 1.19 |

| Oxygen (O2) | | |
|---|---|---|
| **Certified Gas (%)** | **Instrument Reading (%)** | **Uncertainty (%)** |
| 21.2 | 21.2 | 0.25 |

Gas cylinders are traceable and details can be provided if requested.

CH4, CO2 readings recorded at: 31.9 °C/89.4 °F

O2 readings recorded at: 21.8 °C/71.3 °F

Barometric Pressure: 0968 mbar/28.58 "Hg

Method of Test : The analyzer is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure ISP17.

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.

*The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with NIST requirements.*

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.



www.qedenv.com (800) 624-2026 info@qedenv.com

QED Environmental Systems Inc. 2355 Bishop Circle West, Dexter, MI 48130

# CERTIFICATION OF CALIBRATION

PJLA Calibration
No. 66916

Date Of Calibration: 10-Dec-2025

Certificate Number: G506195_9/40284

Issued by: QED Environmental Systems Inc.

**Non Accredited results:**

| Pressure Transducers (inches of water column) | | | | | |
|---|---|---|---|---|---|
| **Transducer** | **Certified (Low)** | **Reading (Low)** | **Certified (High)** | **Reading (High)** | **Accuracy** |
| Static | 0" | 0" | 40" | 40.20" | 2.0" |
| Differential | 0" | 0" | 4" | 3.96" | 0.7" |

| Barometer (mbar) | |
|---|---|
| **Reference** | **Instrument Reading** |
| 0968 mbar / 28.58 "Hg | 0968 mbar / 28.59 "Hg |

| Additional Gas Cells | | |
|---|---|---|
| **Gas** | **Certified Gas (ppm)** | **Instrument Reading (ppm)** |
| $CO/H_2$ COMP | 500 | 503 |
| $H_2S$ | 261 | 261 |

As received gas check readings:

| Methane (CH4) | |
|---|---|
| **Certified Gas (%)** | **Instrument Reading (%)** |
| 5.0 | 5.7 |
| 15.0 | 16.2 |
| 60.0 | 58.2 |

| Carbon Dioxide (CO2) | |
|---|---|
| **Certified Gas (%)** | **Instrument Reading (%)** |
| 5.0 | 5.1 |
| 15.0 | 15.5 |
| 40.0 | 41.7 |

| Oxygen (O2) | |
|---|---|
| **Certified Gas (%)** | **Instrument Reading (%)** |
| 21.2 | 21.3 |

As received Gas readings recorded at: 31.9 °C/89.4 °F

As received Barometric Pressure recorded at: 21.8 °C/71.3 °F

**Date of Issue :** 11 Dec 2025

Approved By Signatory

Julian Batie

Laboratory Inspection

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance: 118 IGC Instance: 118



www.qedenv.com (800) 624-2026 info@qedenv.com

QED Environmental Systems Inc. 2355 Bishop Circle West, Dexter, MI 48130

FLUID COMPONENTS INTERNATIONAL LLC
www.FluidComponents.com
1755 La Costa Meadows Drive, San Marcos, CA 92078-5115
(760)744-6950 (800)854-1993 FAX: (760)736-6250

# Model ST80 Flowmeter

# CALIBRATION CERTIFICATE

## JOHN ZINK COMPAN, LLC

| | | | |
|---|---|---|---|
| **Customer Order Number:** | RA389414 | **End User Name:** | |
| **Serial Number:** | 763389-A | **Part Number:** | ST80-80M0120F2BKAFA000 |
| **Purchase Order Number:** | N/A | **FCI Calibration Procedure:** | 19EN000072 Rev. A |
| **Customer Flow Range:** | 25 to 500 SCFM | **Local Tag #1:** | N/A |
| **Customer Line Size:** | 10.02 inches i.d. 10 inch sch. 40 | **Local Tag #2:** | N/A |
| **Customer Temperature Range:** | 40 to 120 deg F | **Local Tag #3:** | N/A |
| **Customer Pressure Range:** | 0.5 psig Normal | **Remote Tag #1:** | N/A |
| **Customer Installation:** | Orientation Code F | **Remote Tag #2:** | N/A |
| **Customer Standard Conditions:** | 60 deg F and 14.7 psia | **Remote Tag #3:** | N/A |
| **Customer Actual Media:** | Landfill: Methane 55%, Carbon Dioxide 30%, Nitrogen 14%, Oxygen 1% (Vol%) | | |
| **FCI Calibration Media:** | Methane 55.06%, Carbon Dioxide 29.96%, Nitrogen 14.98% | | |

## 4-20 mA Output Information

**Output #1:** 4-20 mA = 0 to 500 SCFM
**Calibration Equation:** SCFM = 31.25 x mA - 125
(step = 25 SCFM @ 4.800 mA)

**Output #2:** 4-20 mA = 0 to 150 Deg F
**Temperature Equation:** Deg F = 9.375 x mA - 37.50
(Based on manufacturer's recommended temperature vs. resistance equation)

## Calibration Notes

- *Calibration performed using equipment traceable to N.I.S.T. (US National Institute of Standards and Technology) and ISO/IEC 17025, International Standards for Test lab Quality systems.*
- *Substitute gas and gas equivalency used for calibration.*

## Final Flow Verification performed on 100 psig OCL Stand

| Desired SCFM Per Stand | Model ST80 Indicated SCFM | Actual % Reading Difference | Allowed % Reading Difference |
|---|---|---|---|
| 429.9 | 431.9 | +0.47 | ±1.58 |
| 374.8 | 374.9 | +0.02 | ±1.67 |
| 249.9 | 247.2 | -1.07 | ±2.00 |
| 124.9 | 122.5 | -1.95 | ±3.00 |

## N.I.S.T. Traceable Equipment: 100 psig OCL Stand

| Calibration Control Number | Calibration Date | Calibration Due date | Equipment Description |
|---|---|---|---|
| EL-353 | 3-Jul-25 | 3-Jul-26 | Frequency Counter |
| EL-912 | 21-Jan-25 | 21-Jan-26 | HP Data Acquisition Unit |
| FM-101 | 11-Sep-25 | 11-Mar-26 | 4" Turbine Meter |
| FM-160 | 11-Sep-25 | 11-Mar-26 | 2" Turbine Meter |
| FM-214 | 11-Sep-25 | 11-Mar-26 | 0.5" Vcone Meter |
| FM-215 | 11-Sep-25 | 11-Mar-26 | 1" Vcone Meter |
| PG-334 | 16-Jul-25 | 16-Jul-26 | Pressure Transducer |
| PG-406 | 11-Sep-25 | 11-Mar-26 | DeltaP Transducer |
| TE-094 | 24-Mar-25 | 24-Mar-26 | Temperature RTD |

Technician: R. Martinez (320)
Calibration Date: 10-15-25

FLUID COMPONENTS INTERNATIONAL LLC
1755 La Costa Meadows Drive, San Marcos, California 92078
(760) 744-6950 (800) 854-1993 FAX: (760) 736-6250
www.fluidcomponents.com

# ST80 Delta 'R
## ST80-80M0120F2BKAFA000

| C#: | RA389414 | Serial: | 763389-A | Equipment | Equip. # | Cal. Due |
|---|---|---|---|---|---|---|
| Cust.: | JOHN ZINK COMPAN, LLC | Date: | October 15, 2025 | (Act): | N/A | N/A |
| Tag: | N/A | TagR1: | N/A | (Ref): | N/A | N/A |
| TagL2: | N/A | TagR2: | N/A | DVM: | EL-912 | 21-Jan-26 |
| TagL3: | N/A | TagR3: | N/A | 250 ohm: | EL-977 | 14-Jul-26 |

| | |
|---|---|
| Nominal Sensor Resistance: | 1000 Ω |
| Temperature at Nominal Resistance: | 32.0 F |

Notes: ST80, calibration group 1.

Test Tech.

320

| System Firmware Version |
|---|
| 2.05L |
| Date |
| 03 24 23 |
| Checksum |
| 2393F69 |

**Internal Resistance Check**

| Range | Exp'd Ohms | Meas'd Ohms | Diff. Ohms | Tol. Ohms | Results |
|---|---|---|---|---|---|
| Low | 59.054 | 59.057 | 0.00 | 0.50 | Pass |
| Mid | 99.114 | 99.113 | 0.00 | 0.50 | Pass |
| High | 149.11 | 149.12 | 0.01 | 0.50 | Pass |

**4-20 mA Output Check**

| Flow Rate | Expected mA | Meas'd VDC across 250 Ω | Meas'd mA |
|---|---|---|---|
| 0.000 | 4.00 | 1.000 | 4.00 |
| 250.0 | 12.00 | 2.999 | 12.00 |
| 500.0 | 20.00 | 4.999 | 20.00 |

| Serial #: | 763389-A | Anag. Out 2 | Temperature |
|---|---|---|---|
| C Number: | RA389414 | 4 mA: | 0 |
| Range | | 4 mA DAC2: | 11003 |
| Cust Min: | 0 | 20 mA: | 150 |
| Cust Max: | 500 | 20 mA DAC2: | 54088 |
| Flow Unit: | 67 (SCFM) | Namur: | OFF, 54075 |
| Line Size0: | 10.02000045 | Normalization | Low Temp |
| Line Size1: | 0 | dR Gain: | 1.249415993 |
| Line Units: | inches | dR Offset: | 0.771965682 |
| Correctors | | RefR Gain: | 1.249577999 |
| KFactor1: | 0 | RefR Offset: | 0.266196191 |
| KFactor2: | 1 | Low dR Gn: | 1.249415993 |
| KFactor3: | 0 | Low dR Off: | 0.771965682 |
| KFactor4: | 0 | Low R Gn: | 1.249577999 |
| CalParams | | Low R Off: | 0.266196191 |
| Min SFPS: | 0.761229991 | | |
| Max SFPS: | 22.11100006 | | |
| Std. Dens.: | 0.069457001 | | |
| dR Min: | 8.215600013 | | |
| dR Max: | 19.52400016 | | |
| Cal Ref: | 1146.819946 | | |
| Heater | 90 mA | | |
| Htr 1 DAC: | 18150 | | |
| Htr 2 DAC: | 35559 | | |
| Core SN: | 763389-A | | |
| Anag. Out 1 | Flow (HART) | | |
| 4 mA: | 0 | | |
| 4 mA DAC1: | 12985 | | |
| 20 mA: | 500 | | |
| 20 mA DAC1: | 55569 | | |
| Namur: | OFF, 12334 | | |

| Curve | Spline |
|---|---|
| Spl1: | 96.805, 8.2156, 29.98 |
| Spl2: | 140.05, 8.9643, 85.62 |
| Spl3: | 178.03, 9.403, -58.2 |
| Spl4: | 239.00, 10.05, 267.0 |
| Spl5: | 367.93, 10.742, -188. |
| Spl6: | 511.77, 11.718, 196.6 |
| Spl7: | 736.56, 12.702, -100. |
| Spl8: | 1002.1, 14.005, 58.74 |
| Spl9: | 1282.0, 15.121, 84.41 |
| Spl10: | 1533.2, 16.038, -231. |
| Spl11: | 1633.9, 16.442, 468.0 |
| Spl12: | 2046.8, 17.432, -173. |
| Spl13: | 2916.8, 19.524, 85.74 |

| Oper. Mode: | AST |
|---|---|
| L2: | 0.005588 |
| L3: | 0.0254 |
| Kbase_70F: | 0.027525 |
| Ktc: | 0.473000 |
| CalGas: | Custom |
| Cal_K1: | -0.00154301 |
| Cal_K2: | 7.210e-05 |
| Cal_K3: | 8.090e-08 |
| Cal_K4: | -3.902e-11 |
| Cal_Cp1: | 1.00138447 |
| Cal_Cp2: | 0.00067656 |
| Cal_Cp3: | 1.907e-06 |
| Cal_Cp4: | -1.305e-09 |
| Cal_u1: | -4.489e-07 |
| Cal_u2: | 5.588e-08 |
| Cal_u3: | -3.012e-11 |
| Cal_u4: | 9.528e-15 |
| CustGas: | Custom |
| Cust_K1: | -0.00153983 |
| Cust_K2: | 7.20e-05 |
| Cust_K3: | 8.11e-08 |
| Cust_K4: | -3.92e-11 |
| Cust_Cp1: | 0.99873759 |
| Cust_Cp2: | 0.00067763 |
| Cust_Cp3: | 1.90e-06 |
| Cust_Cp4: | -1.30e-09 |
| Cust_u1: | -4.50e-07 |
| Cust_u2: | 5.60e-08 |
| Cust_u3: | -3.01e-11 |
| Cust_u4: | 9.51e-15 |

JOHN ZINK HAMWORTHY COMBUSTION®

**VAPOR CONTROL UNIT PREVENTIVE MAINTENANCE (PM)**

## BIOGAS FLARE SYSTEM (BF) CHECKLIST

| | | | |
|---|---|---|---|
| Customer: | **LaCrosse County Landfill** | Date: | **5/29/2025** |
| Location (City, State): | **Onalaska, WI** | PM Frequency: | **1st Semi-Annual** |
| Manager: | **Jackie Davis** | Manu. Equip. SO#: | **9054016** |
| Manager's Phone # : | **(608) 790-1944** | PM SO#: | **FV9320991** |
| Manager's Email: | **jdavis@lacrossecounty.org** | Customer Equip. #: | **Biogas Flare** |
| Technician: | **Scott Gallion** | Technician Phone #: | **(320) 406-8958** |

Provide a summary of equipment condition both before and after inspection (Discuss with Operator)

**Before: Emailed Jackie and she responded immediately and was good to go, she will check with the hospital and let them know that we will be shutting down the plant and I will be running gas to the flare only. She later told me that she got the ok to be able to stop the plant.**

**After: Arrived onsite and stopped at the scale house, Jackie was not there but was told she was somewhere around the facility. I went out to the flare and got a phone call from her and she told me that she should be able to shutdown the plant by 9am. I began the PM, I checked the system history and noticed they only had a block valve failed to close alarm, I also checked inside the operator room and see it had the same thing. At that point I started the system up to begin testing shutdowns, I had a problem immediately with neither of the VFD's starting up and gave me failure alarm's on both, which is strange since it worked fine 6 months ago. I shutoff both blowers and tested most of the shutdowns then later began troubleshooting the problem.**

**- Troubleshot the VFD issues and found both VFD's had some incorrect parameters, reprogrammed with the help of Kelly and also found the PLC's output's to start both blowers were coming on but no voltage coming out which was looking like the PLC was damaged. I noticed though that the 2 outputs did not have power connected to supply that block of outputs, so I installed a jumper wire to the common like the others and tested, worked fine. I removed then tested again and failed, so I put the wire back in the correct location. With these changes I was able to get both blowers to run properly, unsure if there was a power loss or the parameters were lost in the VFD program. I still don't fully understand why I had to install a jumper wire for power to the block for the blower outputs, quite strange but what I did resolved the issue and later confirmed operation of both blowers and ran waste gas for awhile! I did speak to Jackie about this and she said there was some issue and the SCADA guy had tightened up a couple wires and all was good, not sure what to say.**

***Inspected both VFD control cabinets, both still looked good and I had to remove both displays today to be able to see the running values. I would recommend replacing the overlay over the display which is quite cloudy and was hard to see.**
***Checked the main electrical cabinet heater, turned up to max and the heater and fan are working great, afterwards I turned down to 50F.**
***Inspected the ignition transformer box and checked the terminal screws. There is rust in the control box but was dry again. (There is a drilled hole in the corner of the box). No issues found!**
***Replaced the KOP differential pressure gauge with one off the truck. Later Jackie brought me one but I already had the new one installed and she said just leave it, later ran waste gas and the demister pad looks clean since the gauge was at 0.**
***Since we were able to switch all vapors to the flare today, I was able to fully test the main block valve and blowers, had issues with both VFD's not starting up this morning, I found the issues and corrected but don't fully understand why a wire was missing from the PLC and also the VFD's needed to be reprogrammed.**
***Tested all the shutdowns and alarms and no issues found. Called Jackie after completing the PM and let her know it was ok to switch back to the gas plant.**

Comments and Recommendations

***Recommend purchasing and installing the pilot mixing can for the KE-1 pilot to eliminate the problem with the unit icing over! JZ# 0050826**
***Recommend replacing the air filter's in the VFD cabinet, need four of them. Will see if JZ carries these.**

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| Follow-Up Items | |
|---|---|
| 1. | |
| 2. | |
| 3. | |
| 4. | |
| 5. | |

| | Pass / Fail / Warning | | | Comments |
|---|---|---|---|---|
| 1. | Visually check burner and stack -inside and outside (missing/degraded insulation & hot spots) | | N/A | **Elevated Flare** |
| | | °F | | Comments |
| | A. Measure and record highest external temperature on stack while operating. | | N/A | |
| | B. Note any missing/discolored paint or rust spots. | | N/A | |
| | | | | Comments |
| 2. | Check anti-flashback burner tips for broken welds or elements | | N/A | |
| | | | | Comments |
| 3. | Check for skid and stack anchor bolt condition | | P | **Good** |
| | A. Any rust/corrosion, missing anchors, nuts, etc.? | | P | **Good** |
| | | | | Comments |
| 4. | Inspect all electrical control enclosures for any apparent corrosion and/or moisture. Verify conduit seals are poured. | | P | **Found quite a bit of rust on the inside of the ignition control box previously, was dry today.** |
| | | | | Comments |
| 5. | Verify skid and conduit are grounded | | P | **Good** |
| | | | | Comments |
| 6. | Verify voltage from N1 terminal to ground is 0.0 Volts A.C. | | P | **Good** |
| | | Volts | | Comments |
| 7. | Verify control power | **121** | P | **Good - (24vdc power supply = 24vdc)** |
| | | | | Comments |
| 8. | Verify panel and actuator space heaters are working | | P | **Heater and fan working properly.** |

| | | | | |
|---|---|---|---|---|
| 9. | Gauges | | | Comments |
| | A. | All gauges going to 0 when off with no pressure? | P | **Good** |
| | B. | Gauges leaking or needing replacement? | P | **Good - Replaced KOP magnahelic gauge.** |
| | C. | Replacements ordered? Which ones? | N/A | |

****Note: Gauges should be replaced during the PM if they are broken. This should not show up as an unresolved action item****

| | | | |
|---|---|---|---|
| | | | Comments |
| 10. | Check compressed air for fail-closed inlet valve. | P | **Nitrogen bottle** |
| | | | |

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| | | Type of Pilot Gas | Pilot Gas Pressure | Type of Pilot |
|---|---|---|---|---|
| 11. | Verify pilot gas pressure. | **Propane** | **11.5** | **KE-1B** |

**·Normal operating pressure is approximately. 10 psig for propane or 15 psig for natural gas when using an enclosed combustor. (KE-1)**

**· Normal operating pressure is approximately 10 psig for propane or 15 psig for natural gas when using an elevated flare. (KE-1B)**

| | | | Note any Adjustments Made |
|---|---|---|---|
| 12. | Verify flame scanner has proper alignment | **N/A** | |
| | | | Comments |
| 13. | Verify proper flame scanner configuration | **N/A** | **PLC** |

**For IRIS; Gain 9, Flame on relay 3, FFRT Option 3 sec, RATIO 20%**

| | | | Comments |
|---|---|---|---|
| 14. | Verify pilot ignition | **P** | **Good - No issues today.** |

| | | Pilot Strength | | Comments |
|---|---|---|---|---|
| 15. | Verify the pilot flame quality | **250 / 750 F** | **P** | **Good** |

| | | | Comments |
|---|---|---|---|
| 16. | Verify unit will start and run in either manual or auto mode | **P** | **Ran in the local mode today during PM, when finished put it back in the compressor controlled mode.** |

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| | | | | | Comments |
|---|---|---|---|---|---|
| 17. | On ZULE units, verify proper operation of combustion air section. | | | **N/A** | |
| | A. | Burner(s) thermocouple set point | °F | **N/A** | |
| | B. | Combustion air flow transmitter | | **N/A** | |
| | C. | Combustion air blower VFD operation | | **N/A** | |
| | 1. | Configuration confirmed | | **N/A** | |
| | 2. | Configuration written down/saved | | **N/A** | |

| | | | Comments |
|---|---|---|---|
| 18. | Blower AMPs and Volts | **F** | **Removed the displays and got operation readings of both VFD drives. Recommend replacing the displays!** |

| | N/A | | | N/A | | | N/A | | | N/A | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FLA | | | | | | | | | | | | |
| | L1 | L2 | L3 | L1 | L2 | L3 | L1 | L2 | L3 | L1 | L2 | L3 |
| Amps | | | | | | | | | | | | |
| | L1-L2 | L2-L3 | L1-L3 | L1-L2 | L2-L3 | L1-L3 | L1-L2 | L2-L3 | L1-L3 | L1-L2 | L2-L3 | L1-L3 |
| Volts | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Comments | | | | | | | | | | | | |

| | Blower 103 VFD | | Blower 104 VFD | | N/A | | N/A | |
|---|---|---|---|---|---|---|---|---|
| FLA | **17.2** | | **17.2** | | | | | |
| | Hz | AMPs | Hz | AMPs | Hz | AMPs | Hz | AMPs |
| Amps | **25.34** | **5.9** | **24.35** | **5.9** | | | | |
| | | | | | | | | |
| Volts | | | | | | | | |
| | | | | | | | | |
| Comments | | | | | | | | |

**CAUTION DO NOT CONTINUE TO RUN MOTORS IN AN OVERLOADED CONDITION**

| | | | Comments |
|---|---|---|---|
| 19. | Is a minimum operating temperature required? | **N/A** | |

| | | °F | | Comments |
|---|---|---|---|---|
| A. | If so, what temperature is required by customer permit? | | **N/A** | |
| B. | Temperature controller set point? | | **N/A** | |
| C. | System can get to minimum temperature required? | | **N/A** | |

| | | | | | | Comments |
|---|---|---|---|---|---|---|
| 20. | Differential Pressure reading across Flame/Detonation arrestor | | | | | |
| | **0.32** | ”w.c. @ | | SCFM | **P** | **Good** |

| | | Date | | |
|---|---|---|---|---|
| A. | Date FA or DA were last cleaned (recommended annually) | **unknown** | | **Jackie has stated it was prior to 2014 if at all.** |

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| | | | | | | |
|---|---|---|---|---|---|---|
| 21. | Check pressure drop across anti-flashback burner(s). | | | | | Comments |
| | | **0** | ”w.c. @ | | SCFM | **N/A** |
| | | | | Date | | |
| | A. | Date Burners were last cleaned (recommended annually) | | **unknown** | | |

***Note: When the differential pressure on the FAs or DAs indicates that they may be plugging notify the customer. The FAs or DAs can be cleaned***

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| | | | | | Comments |
|---|---|---|---|---|---|
| 22. | Temperature Recorder In Use | | | Yes | **Good in control room** |
| | A. | Temperature recording correctly | | P | **Good** |
| | B. | Other Parameters (if applicable) recording correctly | | P | **Good** |
| | C. | Configuration Saved | | P | **Good** |
| | | | | | Comments |
| 23. | Verify thermocouples working properly | | | P | **Good** |
| | | | Date | | Comments |
| | A. | Last date thermocouples were replaced | **unknown** | | |
| | B. | Provide comments if out of tolerance | | P | **Good** |
| | | | | | Comments |
| 34. | Inspect/lubricate louver doors at flare. | | | N/A | |
| | A. | Damper set point | °F | N/A | |
| | 1. | Check dampers for loose/broken linkages bushings, etc. | | N/A | |
| | 2. | Check operation of damper | | N/A | |
| | 3. | Damper should fail open on loss of power, normal cycle off or high temperature | | N/A | |
| | | | | | Comments |
| 24. | Perform system shutdowns tests on all applicable items. Verify motors shutdown and that all valves position themselves properly. | | | | **Good** |
| | | | °F | | Comments |
| | A. | High stack temp set point | | N/A | |
| | B. | High flame/detonation arrestor temp trip | **200°F** | P | **Good** |
| | C. | Blower failure B-103 | | P | **Good** |
| | D. | Blower failure B-104 | | P | **Good** |
| | E. | Blower failure B-105 | | N/A | |
| | F. | Gas blower high bearing temperature | | N/A | |
| | | | PSI | | Comments |
| | G. | Pilot gas pressure low set point | | N/A | |
| | H. | Pilot gas pressure high set point | | N/A | |
| | I. | Blower Failure from Phase Monitor (loss of 480V) | | N/A | |
| | J. | Pilot flame failure | | P | **Good - Tested properly today.** |
| | K. | Main flame failure | | P | **Tested the failure dead heading the manual block valve to the flare, seemed to try about 5 times to shutdown.** |
| | L. | ZULE Burner high temp | | N/A | |
| | M. | Block valve open/close | | P | **Good** |
| | N. | Thermocouple failure | | P | **Good** |
| | O. | High oxygen level failure | | N/A | |
| | P. | Unit stop | | P | **Good** |
| | Q. | Auto-dialer/ Auto-notification function | | N/A | |
| | R. | Low purge air flow | | N/A | |
| | S. | Loss of power | | P | **Good** |
| | T. | Main block valve failure | | P | **Good** |
| | U. | Knock out tank high level failure | | N/A | |

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| | | | Comments |
|---|---|---|---|
| 25. | Inspect gas system compound for signs of unauthorized entry and deterioration | P | **Good** |
| 26. | Inspect system motor/blower for vibration. | F | **Bearings sound rough in both Motor/Fan Assemblies - Greased both** |
| 27. | Check blower belt condition. Record belt model number. | N/A | |
| 28. | Inspect system blower motor insulation resistance. | P | **Good** |
| 29. | Tighten electrical connections on motor control panel and at motor. | P | **Good** |
| 30. | Inspect/lubricate blower motor bearings with correct grease annually. | P | **Good** |
| 31. | Clean/repack blower motor grease reservoir. | N/A | |
| 32. | Inspect/clean igniter, refractory and gas solenoids. | N/A | **No lift available to inspect igniter** |
| 33. | Inspect/clean flame scanner view and vent port. | N/A | |
| 35. | Check for correct operation of blower heater thermostat. | N/A | |
| 36. | Check differential pressure across demister pad at KO pot. Maintenance required when pressure drop reaches 2" w.c. | P | **Replaced the KOP magnahelic gauge, after running waste gas I saw 0 across the demister pad.** |
| 37. | Inspect air compressor filters and change as necessary. | N/A | |
| 38. | Inspect/clean VFD control panel filters. | P | **Vacuumed 3 of the 4 today. Will get a quote on replacements sent to Jackie.** |

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JOHN ZINK HAMWORTHY COMBUSTION®

**VAPOR CONTROL UNIT PREVENTIVE MAINTENANCE (PM)**

## BIOGAS FLARE SYSTEM (BF) CHECKLIST

| | | | |
|---|---|---|---|
| Customer: | **LaCrosse County Landfill** | Date: | **11/18/2025** |
| Location (City, State): | **Onalaska, WI** | PM Frequency: | **2nd Semi-Annual** |
| Manager: | **Jackie Davis** | Manu. Equip. SO#: | **9054016** |
| Manager's Phone # : | **(608) 790-1944** | PM SO#: | **FV9320991** |
| Manager's Email: | **jdavis@lacrossecounty.org** | Customer Equip. #: | **Biogas Flare** |
| Technician: | **Scott Gallion** | Technician Phone #: | **(320) 406-8958** |

Provide a summary of equipment condition both before and after inspection (Discuss with Operator)

**Before: Emailed Jackie and she responded with the PM date, also with some other techs names for the future.**

**After: Arrived onsite and stopped at the scale house, Jackie was not there, so I drove up to the flare. I emailed all 3 techs and only one came up to the flare to chat about the system (John Warnecke). John said one was out sick and he told me the plant will shutdown in a half hour then I can run the flare as I need to. I tested all the shutdowns as needed. I did take pictures of all the alarms prior to the PM and looked as though they had all been tested recently or I never cleared them out prior to leaving during the last PM. Completed the PM, tested the system fully then took pictures of the history and count pages after completing the PM, before leaving today I cleared out all the alarms.**

***Inspected both VFD control cabinets, both still looked good and I had to remove both displays today to be able to see the running values. The overlays are quite cloudy looking and looked at the displays, they are getting cloudy also, but can be read once removed.**
***Checked the main electrical cabinet heater, turned up to max and the heater and fan are working great, afterwards I turned down to 50F.**
***Opened the AOV actuator cover, inspected, then tightened terminals, cleaned the shaft and cover then applied grease to both, before installing the cover.**
***Since we were able to switch all vapors to the flare today, I was able to fully test the new flow meter that was installed, the main block valve and blowers.**
***Did not have a lift to inspect the pilot mixing chamber, the pilot assembly or all 3 thermocouples.**
***Tested all the shutdowns and alarms and no issues found. John happened to come up to check on me and I let him know that it was good to start the plant backup, I did switch the manual valves back as necessary on the pipework.**

Comments and Recommendations

Follow-Up Items

| | |
|---|---|
| 1. | |
| 2. | |
| 3. | |
| 4. | |
| 5. | |

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| | Pass | Fail | Warning | | Comments |
|---|---|---|---|---|---|
| 1. | Visually check burner and stack -inside and outside (missing/degraded insulation & hot spots) | | | N/A | **Elevated Flare** |
| | | | °F | | Comments |
| | A. Measure and record highest external temperature on stack while operating. | | | N/A | |
| | B. Note any missing/discolored paint or rust spots. | | | N/A | |
| | | | | | Comments |
| 2. | Check anti-flashback burner tips for broken welds or elements | | | N/A | |
| | | | | | Comments |
| 3. | Check for skid and stack anchor bolt condition | | | P | **Good** |
| | A. Any rust/corrosion, missing anchors, nuts, etc.? | | | P | **Good** |
| | | | | | Comments |
| 4. | Inspect all electrical control enclosures for any apparent corrosion and/or moisture. Verify conduit seals are poured. | | | P | **Found quite a bit of rust on the inside of the ignition control box previously, was dry today.** |
| | | | | | Comments |
| 5. | Verify skid and conduit are grounded | | | P | **Good** |
| | | | | | Comments |
| 6. | Verify voltage from N1 terminal to ground is 0.0 Volts A.C. | | | P | **Good** |
| | | | Volts | | Comments |
| 7. | Verify control power | | **122** | P | **Good - (24vdc power supply = 24vdc)** |
| | | | | | Comments |
| 8. | Verify panel and actuator space heaters are working | | | P | **Heater and fan working properly.** |

| | | | | |
|---|---|---|---|---|
| 9. | Gauges | | | Comments |
| | A. All gauges going to 0 when off with no pressure? | | P | **Good** |
| | B. Gauges leaking or needing replacement? | | P | **Good** |
| | C. Replacements ordered? Which ones? | | N/A | |

****Note: Gauges should be replaced during the PM if they are broken. This should not show up as an unresolved action item****

| | | | | |
|---|---|---|---|---|
| | | | | Comments |
| 10. | Check compressed air for fail-closed inlet valve. | | P | **Nitrogen bottle (Approx. 400lbs left)** |
| | | **Type of Pilot Gas** | **Pilot Gas Pressure** | **Type of Pilot** |
| 11. | Verify pilot gas pressure. | **Propane** | **12** | **KE-1B** |

**·Normal operating pressure is approximately. 10 psig for propane or 15 psig for natural gas when using an enclosed combustor. (KE-1)**

**·Normal operating pressure is approximately 10 psig for propane or 15 psig for natural gas when using an elevated flare. (KE-1B)**

| | | | |
|---|---|---|---|
| | | | Note any Adjustments Made |
| 12. | Verify flame scanner has proper alignment | N/A | |
| | | | Comments |
| 13. | Verify proper flame scanner configuration | N/A | **PLC** |

**For IRIS; Gain 9, Flame on relay 3, FFRT Option 3 sec, RATIO 20%**

| | | | |
|---|---|---|---|
| | | | Comments |
| 14. | Verify pilot ignition | W | **Had some popping while igniting.** |
| | Pilot Strength | | Comments |

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| | | | | |
|---|---|---|---|---|
| 15. | Verify the pilot flame quality | **300 / 700 F** | **P** | **Good - Changed to standard values - was 300/750.** |
| | | | | Comments |
| 16. | Verify unit will start and run in either manual or auto mode | | **P** | **Ran in the local mode today during PM, when finished put it back in the compressor controlled mode.** |

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| | | | | | Comments |
|---|---|---|---|---|---|
| 17. | On ZULE units, verify proper operation of combustion air section. | | | N/A | |
| | A. | Burner(s) thermocouple set point | °F | N/A | |
| | B. | Combustion air flow transmitter | | N/A | |
| | C. | Combustion air blower VFD operation | | N/A | |
| | 1. | Configuration confirmed | | N/A | |
| | 2. | Configuration written down/saved | | N/A | |

| | | | Comments |
|---|---|---|---|
| 18. | Blower AMPs and Volts | W | **Removed the displays and got operational readings of both VFD drives. Recommend replacing the displays and overlays!** |

| | N/A | | | N/A | | | N/A | | | N/A | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FLA | | | | | | | | | | | | |
| | L1 | L2 | L3 | L1 | L2 | L3 | L1 | L2 | L3 | L1 | L2 | L3 |
| Amps | | | | | | | | | | | | |
| | L1-L2 | L2-L3 | L1-L3 | L1-L2 | L2-L3 | L1-L3 | L1-L2 | L2-L3 | L1-L3 | L1-L2 | L2-L3 | L1-L3 |
| Volts | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Comments | | | | | | | | | | | | |

| | Blower 103 VFD | | Blower 104 VFD | | N/A | | N/A | |
|---|---|---|---|---|---|---|---|---|
| FLA | **17.2** | | **17.2** | | | | | |
| | Hz | AMPs | Hz | AMPs | Hz | AMPs | Hz | AMPs |
| Amps | **48.4** | **6.3** | **24.49** | **6** | | | | |
| | | | | | | | | |
| Volts | **378** | | **202** | | | | | |
| | | | | | | | | |
| Comments | | | | | | | | |

**CAUTION DO NOT CONTINUE TO RUN MOTORS IN AN OVERLOADED CONDITION**

| | | | | | | | Comments |
|---|---|---|---|---|---|---|---|
| 19. | Is a minimum operating temperature required? | | | | | N/A | |
| | | | | | °F | | Comments |
| | A. | If so, what temperature is required by customer permit? | | | | N/A | |
| | B. | Temperature controller set point? | | | | N/A | |
| | C. | System can get to minimum temperature required? | | | | N/A | |
| 20. | Differential Pressure reading across Flame/Detonation arrestor | | | | | | Comments |
| | | **0.25** | ”w.c. @ | **225** | SCFM | P | **Good** |

| | | Date | | |
|---|---|---|---|---|
| A. | Date FA or DA were last cleaned (recommended annually) | **unknown** | | **Jackie has stated it was prior to 2014 if at all.** |

| | | | | | | Comments |
|---|---|---|---|---|---|---|
| 21. | Check pressure drop across anti-flashback burner(s). | | | | | Comments |
| | **0** | ”w.c. @ | **225** | SCFM | P | **Flow rate measured off of new flow meter installed.** |

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| | | Date | | |
|---|---|---|---|---|
| A. | Date Burners were last cleaned (recommended annually) | **unknown** | **N/A** | **Believe it has a swirl tip on the top, no lift to inspect.** |

***Note: When the differential pressure on the FAs or DAs indicates that they may be plugging notify the customer. The FAs or DAs can be cleaned***

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| | | | | | Comments |
|---|---|---|---|---|---|
| 22. | Temperature Recorder In Use | | | Yes | **Good in control room** |
| | A. | Temperature recording correctly | | P | **Good** |
| | B. | Other Parameters (if applicable) recording correctly | | P | **Good** |
| | C. | Configuration Saved | | P | **Good** |
| | | | | | Comments |
| 23. | Verify thermocouples working properly | | | P | **Good** |
| | | | Date | | Comments |
| | A. | Last date thermocouples were replaced | **unknown** | P | **Good - No mention of replacement.** |
| | B. | Provide comments if out of tolerance | | P | **Good** |
| | | | | | Comments |
| 34. | Inspect/lubricate louver doors at flare. | | | N/A | |
| | A. | Damper set point | °F | N/A | |
| | 1. | Check dampers for loose/broken linkages bushings, etc. | | N/A | |
| | 2. | Check operation of damper | | N/A | |
| | 3. | Damper should fail open on loss of power, normal cycle off or high temperature | | N/A | |
| | | | | | Comments |
| 24. | Perform system shutdowns tests on all applicable items. Verify motors shutdown and that all valves position themselves properly. | | | | **Good** |
| | | | °F | | Comments |
| | A. | High stack temp set point | | N/A | |
| | B. | High flame/detonation arrestor temp trip | **200°F** | P | **Good** |
| | C. | Blower failure B-103 | | P | **Good** |
| | D. | Blower failure B-104 | | P | **Good** |
| | E. | Blower failure B-105 | | N/A | |
| | F. | Gas blower high bearing temperature | | N/A | |
| | | | PSI | | Comments |
| | G. | Pilot gas pressure low set point | | N/A | |
| | H. | Pilot gas pressure high set point | | N/A | |
| | I. | Blower Failure from Phase Monitor (loss of 480V) | | N/A | |
| | J. | Pilot flame failure | | P | **Good - Tested today.** |
| | K. | Main flame failure | | P | **Tested the main flame failure, dead headed the manual block valve to the flare, seemed to try about 5 times to shutdown.** |
| | L. | ZULE Burner high temp | | N/A | |
| | M. | Block valve open/close | | P | **Good** |
| | N. | Thermocouple failure | | P | **Good** |
| | O. | High oxygen level failure | | N/A | |
| | P. | Unit stop | | P | **Good** |
| | Q. | Auto-dialer/ Auto-notification function | | N/A | |
| | R. | Low purge air flow | | N/A | |
| | S. | Loss of power | | P | **Good** |
| | T. | Main block valve failure | | P | **Good** |
| | U. | Knock out tank high level failure | | N/A | |

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| | | | Comments |
|---|---|---|---|
| 25. | Inspect gas system compound for signs of unauthorized entry and deterioration | P | **Good** |
| 26. | Inspect system motor/blower for vibration. | W | **Bearings sound rough in both Motor/Fan Assemblies - Greased both** |
| 27. | Check blower belt condition. Record belt model number. | N/A | |
| 28. | Inspect system blower motor insulation resistance. | P | **Good** |
| 29. | Tighten electrical connections on motor control panel and at motor. | P | **Good** |
| 30. | Inspect/lubricate blower motor bearings with correct grease annually. | P | **Good** |
| 31. | Clean/repack blower motor grease reservoir. | N/A | |
| 32. | Inspect/clean igniter, refractory and gas solenoids. | N/A | **No lift available to inspect igniter** |
| 33. | Inspect/clean flame scanner view and vent port. | N/A | **Pilot and Main Flame TC's** |
| 35. | Check for correct operation of blower heater thermostat. | N/A | |
| 36. | Check differential pressure across demister pad at KO pot. Maintenance required when pressure drop reaches 2" w.c. | P | **Good - (0"wc Diff)** |
| 37. | Inspect air compressor filters and change as necessary. | N/A | |
| 38. | Inspect/clean VFD control panel filters. | P | **Did not remove and vacuum today. Recommend replacing all 4.** |

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# D-4 – LFG Wellhead Balance Data

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## Gas Balance Sheet 2025

Page 1

Taken by: JES/JD | ***Date*** 1/27/2025 | Start Barometric Pressure 29.18 | Weather: 18 Degrees F 13.0 MPH Fair

***Time*** 8:00 AM

Checked by: JES /SEH | 1:00 PM | End Barometric Pressure 28.99 | Weather: 41 Degrees F 9.0 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 | -1.9 | 209.5 | 45.6 | 47.9 | 26.4 | 1.1 | | | | | | | | - | - | |
| Flare End (781) | 100 | 100 | -1.8 | 207.1 | 48.4 | 48.7 | 26.6 | 0.9 | | | | | | | | - | - | |
| GW-1 (800) | 3% | 3% | | 2 | 58.0 | 13.5 | 5.8 | 1.5 | 806.5 | 791.6 | 38.1 | 768.4 | 23.5 | 0 | **99%** | -0.05 | 0.007 | |
| GW-2(803) | 3% | 3% | | 1 | 52.0 | 21.6 | 6.7 | 1.3 | 802.3 | 786.8 | 38.8 | 763.5 | 23.5 | 0 | **99%** | -0.11 | 0.010 | |
| GW-3 (806) | 5% | 5% | | 2 | 51.0 | 18.9 | 8.3 | 0.4 | 797.4 | 781.6 | 38.8 | 758.6 | 23.5 | 0 | **98%** | -0.04 | 0.009 | |
| GW-4 (809) | 3% | 3% | | 2 | 63.0 | 21.0 | 10.2 | 0.3 | 801.3 | 785.3 | 37.2 | 764.1 | 21.5 | 0 | **99%** | -0.02 | 0.007 | |
| GW-5 (812) | 5% | 5% | | 3 | 67.0 | 12.6 | 13.9 | 0.5 | 804.7 | 789.4 | 39.2 | 765.5 | 24.5 | 0 | **98%** | -0.08 | 0.018 | |
| GW-6 (815) | 5% | 5% | | 3 | 52.0 | 8.8 | 14.8 | 2.4 | 811.6 | 797 | 39.6 | 772 | 29 | 0 | **86%** | -0.07 | 0.015 | |
| GW-7 (818) | 3% | 3% | | 2 | 51.0 | 6.2 | 13.3 | 2.6 | 813.5 | 799 | 37.9 | 775.6 | 27 | 0 | **87%** | -0.03 | 0.010 | |
| GW-8 (821) | 5% | 5% | | 7 | 62.0 | 21.1 | 12.5 | 3.8 | 824.9 | 811 | 39.3 | 785.6 | 33 | 0 | **77%** | -0.41 | 0.170 | |
| GW-9 (824) | 50% | 50% | | 12 | 59.0 | 50.2 | 16.0 | 0.9 | 860.1 | 838 | 69.3 | 790.8 | 67 | 0 | **70%** | -1.83 | 0.059 | |
| GW-10 (827) | 80% | 80% | | 13 | 51.0 | 25.5 | 24.8 | 0.2 | 853.7 | 835.6 | 54.8 | 798.9 | 53 | 0 | **69%** | -1.88 | 0.096 | |
| GW-11 (865) | 30% | 30% | | 9 | 53.0 | 38.9 | 22.9 | 0.1 | 855.8 | 833.1 | 71.2 | 784.59 | 56.5 | 0 | **86%** | -1.48 | 0.082 | |
| GW-12 (831) | 10% | 10% | | 7 | 69.0 | 28.6 | 20.2 | 0.2 | 897.3 | 881.0 | 52.8 | 844.5 | 50.0 | 0 | **73%** | -0.13 | 0.072 | |
| GW-13 (830) | 100% | 100% | | 13 | 64.0 | 58.5 | 19.6 | 0.9 | 855.2 | 836.5 | 60.1 | 795.1 | 53.0 | 0 | **78%** | -1.76 | 0.080 | |
| GW-14 (833) | 100% | 100% | | 18 | 72.0 | 70.4 | 26.8 | 0.4 | 833.1 | 816.1 | 46.8 | 786.3 | 41.8 | 421.5 | **71%** | -1.83 | 0.132 | |
| GW-15 (836) | 100% | 100% | | 17 | 77.0 | 62.1 | 25.2 | 1.2 | 847.7 | 833.4 | 42.9 | 804.8 | 38.0 | 645.5 | **75%** | -1.57 | 0.122 | |
| GW-16 (839) | 100% | 100% | | 21 | 48.0 | 61.7 | 26.1 | 1.5 | 851.5 | 835.8 | 47.6 | 803.9 | 36.8 | 671 | **87%** | -1.48 | 0.117 | |
| GW-17 (842) | 100% | 100% | | 14 | 51.0 | 67.1 | 31.5 | 0.2 | 882.2 | 856.0 | 98.3 | 783.9 | 79.0 | 412.5 | **91%** | -1.81 | 0.083 | |
| GW-19 (841) | 5% | 5% | | 6 | 75.0 | 22.7 | 14.6 | 0.6 | 905.97 | 889.8 | 59.1 | 846.9 | 50.0 | 0 | **86%** | -1.08 | 0.074 | |
| GW-20 (867) | 20% | 20% | | 5 | 71.0 | 34.5 | 28.2 | 0.7 | 856.32 | 837.1 | 67.4 | 788.9 | 49.5 | 0 | **97%** | -0.67 | 0.040 | |
| GW-21 (869) | 12% | 20% | | 5 | 46.0 | 21.9 | 19.1 | 0.5 | 810.0 | 795.1 | 28.3 | 781.7 | 13.5 | 0 | **99%** | -1.54 | 0.039 | |
| GW-22 (871) | 15% | 15% | | 4 | 88.0 | 20.4 | 18.4 | 4.1 | 815.62 | 796.0 | 35.3 | 780.3 | 22.5 | 0 | **70%** | -0.36 | 0.041 | |
| GW-26 (843) | 10% | 10% | | 5 | 73.0 | 33.8 | 17.3 | 1.3 | 881.21 | 865.7 | 58.6 | 822.6 | 50.0 | 0 | **86%** | -0.28 | 0.053 | |
| GW-27 (844) | 15% | 15% | | 6 | 61.0 | 27.3 | 22.8 | 0.2 | 857.02 | 841.2 | 42.7 | 814.3 | 31.0 | 0 | **87%** | -0.51 | 0.034 | |
| GW-33 (873) | 5% | 5% | | 4 | 91.0 | 25.0 | 16.2 | 3.4 | 815.63 | 797.9 | 38.9 | 776.7 | 24.5 | 0 | **86%** | -0.22 | 0.028 | |

| | | | | | Temp | CH4 | CO2 | O2 | Static | Diff. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase VII (851) | 10% | 10% | | | 49.0 | 47.6 | 28.4 | 0.2 | -0.22 | 0.018 | |
| Phase V CO (847) | 20% | 20% | | | 51.0 | 26.2 | 16.1 | 3.1 | -0.38 | 0.024 | |
| Phase IV CO (845) | 20% | 20% | | | 50.0 | 20.5 | 13.5 | 1.7 | -0.47 | 0.031 | |
| STOC 1 (853) | 100% | 100% | | | 57.0 | 62.7 | 29.7 | 0.4 | -1.76 | 0.102 | |
| STOC 2 (855) | 70% | 70% | | | 60.0 | 44.8 | 21.4 | 4.2 | -1.42 | 0.058 | |
| STOC 3 (857) | 20% | 20% | | | 51.0 | 43.5 | 21.8 | 3.6 | -0.29 | 0.042 | |
| STOC 4 (859) | 3% | 3% | | | 49.0 | 8.6 | 5.6 | 1.1 | -0.11 | 0.110 | |
| STOC 5 (861) | 3% | 3% | | | 51.0 | 14.9 | 11.6 | 4.5 | -0.13 | 0.009 | |
| STOC 6 (863) | 3% | 3% | | | 67.0 | 17.2 | 9.1 | 4.7 | -0.08 | 0.014 | |
| STOC 7 (875) | 3% | 3% | | | 60.0 | 21.4 | 17.0 | 2.1 | -0.15 | 0.007 | |
| STOC 8 (854) | 40% | 40% | | | 53.0 | 61.2 | 35.5 | 0.3 | -0.88 | 0.085 | |
| STOC 9 (856) | 5% | 5% | | | 54.0 | 48.5 | 34.3 | 0.5 | -0.37 | 0.037 | |
| STOC 10 | 30% | 30% | | | 89.0 | 54.6 | 43.8 | 0.5 | -0.69 | 0.050 | |
| STOC 11 | 5% | 5% | | | 78.0 | 51.6 | 29.6 | 0.5 | -0.31 | 0.043 | |
| Phase VI-E (849) | 5% | 5% | | | 60.0 | 27.2 | 16.7 | 3.6 | -0.15 | 0.180 | |
| STOC 12A (887) | 45% | 45% | | | 62.0 | 51.0 | 28.8 | 0.5 | -1.18 | 0.067 | |
| STOC 13 (879) | 5% | 5% | | | 59.0 | 21.4 | 16.2 | 4.1 | -0.27 | 0.019 | |
| STOC 14 (881) | 10% | 10% | | | 65.0 | 35.1 | 17.3 | 2.9 | -0.14 | 0.006 | |
| STOC 15 (883) | 3% | 3% | | | 54.0 | 18.2 | 17.8 | 3.3 | -0.10 | 0.014 | |
| STOC 16 (885) | 15% | 15% | | | 58.0 | 42.7 | 21.9 | 0.4 | -0.42 | 0.032 | |

| Well # | Start | End | Gallons |
|---|---|---|---|
| 14 | 182617 | 183460 | 421.5 |
| 15 | 261047 | 262338 | 645.5 |
| 16 | 291685 | 293027 | 671 |
| 17 | 466717 | 467542 | 412.5 |

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 2025**

**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: 1/27/25
Checked by: Jackie Davis Date: 1/27/25

# 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 | 0.0 | 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 2025

Page 1

Taken by: JES | ***Date*** 2/3/2025 | Start Barometric Pressure 29.43 | Weather: 34 Degrees F 9 MPH ENE PT Cloudy/ Snow MIX

***Time*** 7:00 AM

Checked by: JES /SEH | 1:00 PM | End Barometric Pressure 29.27 | Weather: 33 Degrees F9 MPH ENE 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 | -2.3 | 221.4 | 46.9 | 45.5 | 26.2 | 1.4 | | | | | | | | - | - | |
| Flare End (781) | 100 | 100 | -2.5 | 227.6 | 47.1 | 44.2 | 25.9 | 1.5 | | | | | | | | - | - | |
| GW-1 (800) | 3% | 3% | | 2 | 48.0 | 14.6 | 7.1 | 1.1 | 806.5 | 791.6 | 38 | 768.5 | 23.5 | 0 | **98%** | -0.08 | 0.006 | |
| GW-2(803) | 3% | 3% | | 2 | 61.0 | 19.5 | 7.3 | 0.8 | 802.3 | 786.8 | 38.6 | 763.7 | 23.5 | 0 | **98%** | -0.19 | 0.017 | |
| GW-3 (806) | 5% | 5% | | 4 | 58.0 | 18.8 | 8.9 | 0.5 | 797.4 | 781.6 | 38.7 | 758.7 | 23.5 | 0 | **97%** | -0.06 | 0.016 | |
| GW-4 (809) | 3% | 3% | | 2 | 57.0 | 20.4 | 10.2 | 0.2 | 801.3 | 785.3 | 36.9 | 764.4 | 21.5 | 0 | **97%** | -0.20 | 0.005 | |
| GW-5 (812) | 5% | 5% | | 2 | 54.0 | 13.3 | 11.1 | 0.6 | 804.7 | 789.4 | 39 | 765.7 | 24.5 | 0 | **97%** | -0.06 | 0.009 | |
| GW-6 (815) | 5% | 5% | | 4 | 62.0 | 10.5 | 13.7 | 1.9 | 811.6 | 797 | 39.5 | 772.1 | 29 | 0 | **86%** | -0.18 | 0.022 | |
| GW-7 (818) | 3% | 3% | | 2 | 67.0 | 13.2 | 12.5 | 2.7 | 813.5 | 799 | 37.8 | 775.7 | 27 | 0 | **86%** | -0.07 | 0.006 | |
| GW-8 (821) | 5% | 5% | | 3 | 63.0 | 22.0 | 13.9 | 1.6 | 824.9 | 811 | 39 | 785.9 | 33 | 0 | **76%** | -0.14 | 0.023 | |
| GW-9 (824) | 50% | 50% | | 12 | 61.0 | 48.6 | 14.8 | 3.1 | 860.1 | 838 | 68.6 | 791.5 | 67 | 0 | **69%** | -1.72 | 0.063 | |
| GW-10 (827) | 80% | 80% | | 15 | 57.0 | 26.9 | 21.2 | 0.7 | 853.7 | 835.6 | 55 | 798.7 | 53 | 0 | **70%** | -1.95 | 0.095 | |
| GW-11 (865) | 30% | 30% | | 11 | 66.0 | 38.1 | 24.6 | 0.5 | 855.8 | 833.1 | 69.1 | 786.69 | 56.5 | 0 | **82%** | -1.08 | 0.089 | |
| GW-12 (831) | 10% | 20% | | 6 | 59.0 | 29.9 | 19.4 | 0.3 | 897.3 | 881.0 | 51.6 | 845.7 | 50.0 | 0 | **71%** | -0.26 | 0.051 | |
| GW-13 (830) | 100% | 60% | | 16 | 65.0 | 57.1 | 20.2 | 0.9 | 855.2 | 836.5 | 59.9 | 795.3 | 53.0 | 0 | **78%** | -2.02 | 0.083 | |
| GW-14 (833) | 100% | 100% | | 21 | 72.0 | 68.4 | 27.0 | 0.8 | 833.1 | 816.1 | 46.5 | 786.6 | 41.8 | 480 | **71%** | -2.11 | 0.123 | |
| GW-15 (836) | 100% | 100% | | 17 | 79.0 | 63.5 | 25.4 | 1.1 | 847.7 | 833.4 | 41.4 | 806.3 | 38.0 | 686.5 | **71%** | -1.94 | 0.141 | |
| GW-16 (839) | 100% | 100% | | 19 | 56.0 | 55.6 | 23.9 | 1.9 | 851.5 | 835.8 | 48.1 | 803.4 | 36.8 | 699.5 | **88%** | -1.84 | 0.122 | |
| GW-17 (842) | 100% | 100% | | 15 | 57.0 | 66.1 | 27.6 | 0.3 | 882.2 | 856.0 | 95.6 | 786.6 | 79.0 | 436 | **88%** | -1.90 | 0.103 | |
| GW-19 (841) | 5% | 25% | | 9 | 63.0 | 28.6 | 15.8 | 0.7 | 905.97 | 889.8 | 57.7 | 848.3 | 50.0 | 0 | **83%** | -1.06 | 0.066 | |
| GW-20 (867) | 20% | 20% | | 8 | 66.0 | 33.3 | 26.7 | 0.7 | 856.32 | 837.1 | 67.0 | 789.3 | 49.5 | 0 | **96%** | -0.83 | 0.058 | |
| GW-21 (869) | 12% | 20% | | 6 | 47.0 | 22.6 | 20.5 | 0.5 | 810.0 | 795.1 | 28.4 | 781.6 | 13.5 | 0 | **100%** | -0.71 | 0.064 | |
| GW-22 (871) | 15% | 15% | | 7 | 44.0 | 19.5 | 19.4 | 3.7 | 815.62 | 796.0 | 34.1 | 781.5 | 22.5 | 0 | **64%** | -0.62 | 0.101 | |
| GW-26 (843) | 10% | 10% | | 7 | 62.0 | 35.6 | 18.5 | 1.3 | 881.21 | 865.7 | 57.9 | 823.3 | 50.0 | 0 | **85%** | -0.66 | 0.053 | |
| GW-27 (844) | 15% | 15% | | 8 | 63.0 | 29.0 | 21.4 | 0.3 | 857.02 | 841.2 | 42.0 | 815.0 | 31.0 | 0 | **85%** | -0.70 | 0.044 | |
| GW-33 (873) | 5% | 5% | | 4 | 88.0 | 23.4 | 17.3 | 3.1 | 815.63 | 797.9 | 37.2 | 778.4 | 24.5 | 0 | **79%** | -0.25 | 0.030 | |

| | | | | | Temp | CH4 | CO2 | O2 | Static | Diff. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase VII (851) | 10% | 10% | | | 60.0 | 39.9 | 22.3 | 0.4 | -0.28 | 0.012 | |
| Phase V CO (847) | 20% | 20% | | | 52.0 | 27.8 | 18.2 | 2.9 | -0.76 | 0.026 | |
| Phase IV CO (845) | 20% | 20% | | | 55.0 | 22.0 | 14.1 | 2.8 | -0.43 | 0.047 | |
| STOC 1 (853) | 100% | 100% | | | 61.0 | 59.9 | 28.6 | 0.4 | -1.97 | 0.092 | |
| STOC 2 (855) | 70% | 60% | | | 71.0 | 39.6 | 20.5 | 4.1 | -1.13 | 0.069 | |
| STOC 3 (857) | 20% | 10% | | | 66.0 | 41.8 | 19.5 | 3.3 | -0.42 | 0.025 | |
| STOC 4 (859) | 3% | 3% | | | 63.0 | 9.7 | 10.7 | 0.9 | -0.14 | 0.011 | |
| STOC 5 (861) | 3% | 3% | | | 64.0 | 13.4 | 12.6 | 4.4 | -0.09 | 0.003 | |
| STOC 6 (863) | 3% | 3% | | | 58.0 | 16.3 | 10.2 | 4.8 | -0.13 | 0.010 | |
| STOC 7 (875) | 3% | 3% | | | 49.0 | 19.5 | 12.3 | 1.6 | -0.10 | 0.009 | |
| STOC 8 (854) | 40% | 40% | | | 63.0 | 50.8 | 30.6 | 0.7 | -0.75 | 0.062 | |
| STOC 9 (856) | 15% | 15% | | | 55.0 | 45.6 | 13.9 | 0.6 | -0.22 | 0.034 | |
| STOC 10 | 30% | 30% | | | 89.0 | 47.5 | 24.9 | 0.4 | -0.87 | 0.041 | |
| STOC 11 | 15% | 15% | | | 82.0 | 48.3 | 26.1 | 0.4 | -0.33 | 0.026 | |
| Phase VI-E (849) | 5% | 5% | | | 61.0 | 24.2 | 15.1 | 3.3 | -0.21 | 0.014 | |
| STOC 12A | 45% | 50% | | | 53.0 | 54.5 | 27.6 | 0.4 | -1.41 | 0.079 | |
| STOC 13 (879) | 5% | 5% | | | 52.0 | 19.6 | 17.8 | 3.8 | -0.17 | 0.018 | |
| STOC 14 (881) | 10% | 5% | | | 54.0 | 32.5 | 19.4 | 2.7 | -0.26 | 0.012 | |
| STOC 15 (883) | 3% | 3% | | | 52.0 | 164.0 | 14.7 | 3.1 | -0.13 | 0.009 | |
| STOC 16 | 15% | 15% | | | 60.0 | 43.1 | 22.0 | 0.2 | -0.44 | 0.054 | |

| Well # | Start | End | Gallons |
|---|---|---|---|
| 14 | 179047 | 180007 | 480 |
| 15 | 253842 | 255215 | 686.5 |
| 16 | 286482 | 287881 | 699.5 |
| 17 | 463490 | 464362 | 436 |

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: Jadd Stilwell Date: 2/3/25
Checked by: Jackie Davis Date: 2/3/25

# 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% | | |

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## Gas Balance Sheet 2025

Page 1

Taken by: JES | ***Date*** 3/28/2025 | Start Barometric Pressure 29.03 | Weather: 53 Degrees F 6 MPH Fair

***Time*** 9:00 AM

Checked by: JES /SEH | 3:00 PM | End Barometric Pressure 28.86 | Weather: 83 Degrees F 25 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 | 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 | 54.0 | 13.4 | 12.4 | 1.4 | 806.5 | 791.6 | 38.1 | 768.4 | 23.5 | 0 | **99%** | -0.08 | 0.006 | |
| GW-2(803) | 3% | 3% | | 2 | 64.0 | 19.7 | 8.9 | 0.7 | 802.3 | 786.8 | 38.9 | 763.4 | 23.5 | 0 | **100%** | -0.11 | 0.002 | |
| GW-3 (806) | 5% | 5% | | 4 | 59.0 | 19.0 | 11.0 | 0.4 | 797.4 | 781.6 | 38.5 | 758.9 | 23.5 | 0 | **97%** | -0.08 | 0.011 | |
| GW-4 (809) | 3% | 3% | | 3 | 58.0 | 21.5 | 9.8 | 0.1 | 801.3 | 785.3 | 36.9 | 764.4 | 21.5 | 0 | **97%** | -0.12 | 0.004 | |
| GW-5 (812) | 5% | 5% | | 2 | 56.0 | 14.7 | 12.9 | 0.3 | 804.7 | 789.4 | 39.1 | 765.6 | 24.5 | 0 | **97%** | -0.09 | 0.004 | |
| GW-6 (815) | 5% | 5% | | 4 | 63.0 | 11.6 | 14.3 | 0.4 | 811.6 | 797 | 38.8 | 772.8 | 29 | 0 | **83%** | -0.18 | 0.008 | |
| GW-7 (818) | 3% | 3% | | 3 | 56.0 | 15.0 | 13.3 | 0.8 | 813.5 | 799 | 37.5 | 776 | 27 | 0 | **85%** | -0.13 | 0.014 | |
| GW-8 (821) | 5% | 5% | | 4 | 62.0 | 21.3 | 12.9 | 0.3 | 824.9 | 811 | 38.4 | 786.5 | 33 | 0 | **74%** | -0.06 | 0.019 | |
| GW-9 (824) | 50% | 50% | | 11 | 68.0 | 45.6 | 15.8 | 1.6 | 860.1 | 838 | 67.4 | 792.7 | 67 | 0 | **68%** | -1.45 | 0.053 | |
| GW-10 (827) | 80% | 80% | | 14 | 65.0 | 33.3 | 22.0 | 3.0 | 853.7 | 835.6 | 54.2 | 799.5 | 53 | 0 | **68%** | -2.02 | 0.116 | |
| GW-11 (865) | 30% | 30% | | 10 | 71.0 | 39.5 | 23.7 | 0.5 | 855.8 | 833.1 | 69.0 | 786.79 | 56.5 | 0 | **82%** | -0.87 | 0.075 | |
| GW-12 (831) | 20% | 20% | | 7 | 66.0 | 55.4 | 18.6 | 0.2 | 897.3 | 881.0 | 50.9 | 846.4 | 50.0 | 0 | **69%** | -0.68 | 0.052 | |
| GW-13 (830) | 60% | 60% | | 14 | 67.0 | 69.9 | 21.5 | 1.1 | 855.2 | 836.5 | 58.6 | 796.6 | 53.0 | 0 | **75%** | -2.55 | 0.103 | |
| GW-14 (833) | 100% | 100% | | 22 | 78.0 | 66.7 | 28.0 | 0.7 | 833.1 | 816.1 | 46.5 | 786.6 | 41.8 | 322.5 | **71%** | -2.74 | 0.127 | |
| GW-15 (836) | 100% | 100% | | 18 | 82.0 | 62.1 | 26.8 | 1.2 | 847.7 | 833.4 | 41.0 | 806.7 | 38.0 | 355 | **70%** | -2.91 | 0.118 | |
| GW-16 (839) | 100% | 100% | | 20 | 64.0 | 55.9 | 23.2 | 2.1 | 851.5 | 835.8 | 48.0 | 803.5 | 36.8 | 536 | **88%** | -2.34 | 0.131 | |
| GW-17 (842) | 100% | 100% | | 18 | 66.0 | 62.9 | 27.1 | 0.2 | 882.2 | 856.0 | 90.2 | 792.0 | 79.0 | 318.5 | **81%** | -2.60 | 0.143 | |
| GW-19 (841) | 25% | 25% | | 8 | 64.0 | 28.0 | 15.9 | 0.8 | 905.97 | 889.8 | 56.6 | 849.4 | 50.0 | 0 | **81%** | -1.13 | 0.062 | |
| GW-20 (867) | 20% | 20% | | 6 | 71.0 | 32.0 | 26.5 | 0.7 | 856.32 | 837.1 | 65.2 | 791.1 | 49.5 | 0 | **93%** | -1.01 | 0.066 | |
| GW-21 (869) | 20% | 20% | | 6 | 58.0 | 23.8 | 20.3 | 0.4 | 810.0 | 795.1 | 28.1 | 781.9 | 13.5 | 0 | **98%** | -0.87 | 0.051 | |
| GW-22 (871) | 15% | 15% | | 5 | 59.0 | 24.5 | 19.2 | 3.4 | 815.62 | 796.0 | 33.8 | 781.8 | 22.5 | 0 | **63%** | -0.58 | 0.027 | |
| GW-26 (843) | 10% | 10% | | 6 | 72.0 | 36.9 | 18.0 | 1.3 | 881.21 | 865.7 | 56.5 | 824.7 | 50.0 | 0 | **82%** | -0.48 | 0.035 | |
| GW-27 (844) | 15% | 15% | | 7 | 74.0 | 30.2 | 20.3 | 0.2 | 857.02 | 841.2 | 43.0 | 814.0 | 31.0 | 0 | **88%** | -0.60 | 0.041 | |
| GW-33 (873) | 5% | 5% | | 5 | 94.0 | 23.2 | 18.1 | 3.7 | 815.63 | 797.9 | 37.8 | 777.8 | 24.5 | 0 | **82%** | -0.31 | 0.018 | |

| | | | | | Temp | CH4 | CO2 | O2 | Static | Diff. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase VII (851) | 10% | 10% | | | 64.0 | 35.8 | 20.2 | 0.5 | -0.18 | 0.024 | |
| Phase V CO (847) | 20% | 20% | | | 56.0 | 26.1 | 16.5 | 3.1 | -0.59 | 0.036 | |
| Phase IV CO (845) | 20% | 20% | | | 59.0 | 19.0 | 14.0 | 2.6 | -0.68 | 0.055 | |
| STOC 1 (853) | 100% | 100% | | | 78.0 | 58.4 | 27.9 | 0.5 | -2.22 | 0.127 | |
| STOC 2 (855) | 60% | 60% | | | 77.0 | 36.6 | 20.5 | 4.3 | -1.32 | 0.075 | |
| STOC 3 (857) | 10% | 10% | | | 75.0 | 40.6 | 18.8 | 3.8 | -0.40 | 0.034 | |
| STOC 4 (859) | 3% | 3% | | | 66.0 | 11.0 | 11.3 | 0.6 | -0.13 | 0.015 | |
| STOC 5 (861) | 3% | 3% | | | 63.0 | 12.1 | 12.6 | 4.2 | -0.20 | 0.011 | |
| STOC 6 (863) | 3% | 3% | | | 60.0 | 15.2 | 11.5 | 4.5 | -0.09 | 0.007 | |
| STOC 7 (875) | 3% | 3% | | | 52.0 | 16.4 | 12.4 | 1.8 | -0.14 | 0.013 | |
| STOC 8 (854) | 40% | 40% | | | 63.0 | 51.0 | 29.7 | 0.7 | -0.66 | 0.058 | |
| STOC 9 (856) | 5% | 5% | | | 56.0 | 44.8 | 13.8 | 0.5 | -0.29 | 0.026 | |
| STOC 10 | 30% | 30% | | | 90.0 | 47.1 | 23.9 | 0.3 | -1.07 | 0.047 | |
| STOC 11 | 5% | 5% | | | 81.0 | 42.5 | 27.5 | 0.5 | -0.22 | 0.011 | |
| Phase VI-E (849) | 5% | 5% | | | 64.0 | 20.6 | 14.3 | 3.1 | -0.24 | 0.015 | |
| STOC 12A | 50% | 50% | | | 54.0 | 56.7 | 26.8 | 0.6 | -1.01 | 0.082 | |
| STOC 13 (879) | 5% | 5% | | | 57.0 | 20.1 | 16.5 | 3.4 | -0.04 | 0.021 | |
| STOC 14 (881) | 5% | 5% | | | 59.0 | 32.8 | 18.2 | 2.9 | -0.28 | 0.015 | |
| STOC 15 (883) | 3% | 3% | | | 58.0 | 16.4 | 16.1 | 3.8 | -0.13 | 0.010 | |
| STOC 16 | 15% | 15% | | | 58.0 | 45.2 | 23.4 | 0.5 | -0.34 | 0.018 | |

| Well # | Start | End | Gallons |
|---|---|---|---|
| 14 | 180007 | 180652 | 322.5 |
| 15 | 255215 | 255925 | 355 |
| 16 | 287881 | 288953 | 536 |
| 17 | 464362 | 464999 | 318.5 |

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 2025**

**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: 3/28/25
Checked by: Jadd Stilwell Date: 3/28/25

# 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 2025

Page 1

Taken by: JES/JD | ***Date*** 4/24/2025 | Start Barometric Pressure 29.44 | Weather: 58 Degrees F 14 MPH Cloudy

***Time*** 8:30 AM

Checked by: JES /SEH | 2:30 PM | End Barometric Pressure 29.43 | Weather: 63 Degrees F 0 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 | -3.8 | 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% | | 1 | 72.0 | 11.8 | 12.4 | 0.6 | 806.5 | 791.6 | 38.2 | 768.3 | 23.5 | 0 | **99%** | -0.07 | 0.003 | |
| GW-2(803) | 3% | 3% | | 2 | 84.0 | 20.5 | 5.5 | 0.3 | 802.3 | 786.8 | 38.7 | 763.6 | 23.5 | 0 | **99%** | -0.09 | 0.004 | |
| GW-3 (806) | 5% | 5% | | 2 | 78.0 | 21.3 | 7.9 | 0.2 | 797.4 | 781.6 | 39.3 | 758.1 | 23.5 | 0 | **100%** | -0.07 | 0.013 | |
| GW-4 (809) | 3% | 3% | | 3 | 76.0 | 22.6 | 8.6 | 0.3 | 801.3 | 785.3 | 37 | 764.3 | 21.5 | 0 | **98%** | -0.05 | 0.003 | |
| GW-5 (812) | 5% | 5% | | 4 | 70.0 | 14.7 | 11.1 | 0.4 | 804.7 | 789.4 | 39.3 | 765.4 | 24.5 | 0 | **98%** | -0.10 | 0.011 | |
| GW-6 (815) | 5% | 5% | | 4 | 74.0 | 9.9 | 12.6 | 0.5 | 811.6 | 797 | 38.8 | 772.8 | 29 | 0 | **83%** | -0.11 | 0.009 | |
| GW-7 (818) | 3% | 3% | | 2 | 81.0 | 8.6 | 15.8 | 1.5 | 813.5 | 799 | 38 | 775.5 | 27 | 0 | **87%** | -0.06 | 0.004 | |
| GW-8 (821) | 5% | 5% | | 3 | 73.0 | 27.5 | 10.2 | 2.4 | 824.9 | 811 | 39.9 | 785 | 33 | 0 | **79%** | -0.38 | 0.022 | |
| GW-9 (824) | 50% | 50% | | 12 | 70.0 | 49.6 | 14.0 | 0.8 | 860.1 | 838 | 63.2 | 796.9 | 67 | 0 | **61%** | -1.62 | 0.053 | |
| GW-10 (827) | 80% | 80% | | 14 | 62.0 | 48.1 | 13.8 | 4.1 | 853.7 | 835.6 | 55 | 798.7 | 53 | 0 | **70%** | -2.51 | 0.081 | |
| GW-11 (865) | 30% | 30% | | 16 | 71.0 | 44.3 | 24.0 | 0.0 | 855.8 | 833.1 | 65.2 | 790.59 | 56.5 | 0 | **75%** | -0.59 | 0.048 | |
| GW-12 (831) | 20% | 20% | | 8 | 69.0 | 35.7 | 21.4 | 0.3 | 897.3 | 881.0 | 48.3 | 849.0 | 50.0 | 0 | **64%** | -0.28 | 0.036 | |
| GW-13 (830) | 60% | 60% | | 15 | 72.0 | 56.8 | 22.2 | 0.9 | 855.2 | 836.5 | 69.3 | 785.9 | 53.0 | 0 | **95%** | -2.08 | 0.082 | |
| GW-14 (833) | 100% | 100% | | 21 | 75.0 | 65.0 | 27.5 | 1.0 | 833.1 | 816.1 | 46.8 | 786.3 | 41.8 | 1046.5 | **71%** | -2.81 | 0.092 | |
| GW-15 (836) | 100% | 100% | | 20 | 70.0 | 67.3 | 25.3 | 0.4 | 847.7 | 833.4 | 44.6 | 803.1 | 38.0 | 1711.5 | **80%** | -2.53 | 0.102 | |
| GW-16 (839) | 100% | 100% | | 17 | 77.0 | 64.9 | 26.7 | 0.6 | 851.5 | 835.8 | 48.5 | 803.0 | 36.8 | 1580 | **89%** | -2.66 | 0.067 | |
| GW-17 (842) | 100% | 100% | | 19 | 82.0 | 61.1 | 31.0 | 0.8 | 882.2 | 856.0 | 86.1 | 796.1 | 79.0 | 920.5 | **76%** | -2.18 | 0.048 | |
| GW-19 (841) | 25% | 25% | | 8 | 81.0 | 41.6 | 15.2 | 0.5 | 905.97 | 889.8 | 59.4 | 846.6 | 50.0 | 0 | **86%** | -1.33 | 0.009 | |
| GW-20 (867) | 20% | 20% | | 7 | 70.0 | 33.5 | 27.1 | 0.0 | 856.32 | 837.1 | 55.5 | 800.8 | 49.5 | 0 | **73%** | -0.72 | 0.072 | |
| GW-21 (869) | 20% | 20% | | 6 | 69.0 | 26.6 | 18.0 | 0.2 | 810.0 | 795.1 | 27.3 | 782.7 | 13.5 | 0 | **92%** | -0.97 | 0.128 | |
| GW-22 (871) | 15% | 15% | | 7 | 64.0 | 35.2 | 27.6 | 0.1 | 815.62 | 796.0 | 33.5 | 782.1 | 22.5 | 0 | **62%** | -0.23 | 0.105 | |
| GW-26 (843) | 10% | 10% | | 6 | 72.0 | 39.3 | 17.2 | 1.1 | 881.21 | 865.7 | 45.9 | 835.3 | 50.0 | 0 | **61%** | -0.28 | 0.025 | |
| GW-27 (844) | 15% | 15% | | 5 | 71.0 | 22.9 | 19.0 | 0.3 | 857.02 | 841.2 | 35.7 | 821.3 | 31.0 | 0 | **64%** | -0.45 | 0.009 | |
| GW-33 (873) | 5% | 5% | | 4 | 83.0 | 24.8 | 17.5 | 4.1 | 815.63 | 797.9 | 38.2 | 777.4 | 24.5 | 0 | **84%** | -0.53 | 0.062 | |

| | | | | | Temp | CH4 | CO2 | O2 | Static | Diff. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase VII (851) | 10% | 10% | | | 76.0 | 15.0 | 18.8 | 0.7 | -0.18 | 0.026 | |
| Phase V CO (847) | 20% | 20% | | | 77.0 | 30.7 | 16.2 | 3.3 | -0.88 | 0.037 | |
| Phase IV CO (845) | 20% | 20% | | | 72.0 | 16.6 | 14.1 | 2.5 | -0.45 | 0.042 | |
| STOC 1 (853) | 100% | 100% | | | 83.0 | 55.1 | 26.7 | 0.4 | -2.32 | 0.151 | |
| STOC 2 (855) | 60% | 60% | | | 80.0 | 29.5 | 13.5 | 4.1 | -1.67 | 0.091 | |
| STOC 3 (857) | 10% | 10% | | | 79.0 | 30.2 | 5.4 | 2.6 | -0.51 | 0.032 | |
| STOC 4 (859) | 3% | 3% | | | 72.0 | 12.4 | 12.9 | 4.5 | -0.08 | 0.007 | |
| STOC 5 (861) | 3% | 3% | | | 71.0 | 11.1 | 13.2 | 3.9 | -0.10 | 0.012 | |
| STOC 6 (863) | 3% | 3% | | | 73.0 | 19.6 | 13.4 | 4.1 | -0.07 | 0.009 | |
| STOC 7 (875) | 3% | 3% | | | 73.0 | 12.2 | 16.7 | 2.4 | -0.08 | 0.007 | |
| STOC 8 (854) | 40% | 40% | | | 76.0 | 33.6 | 18.4 | 0.8 | -0.66 | 0.044 | |
| STOC 9 (856) | 5% | 5% | | | 74.0 | 24.5 | 23.1 | 0.4 | -0.19 | 0.022 | |
| STOC 10 | 30% | 30% | | | 95.0 | 41.8 | 24.5 | 0.5 | -0.79 | 0.051 | |
| STOC 11 | 5% | 5% | | | 86.0 | 31.5 | 25.0 | 0.6 | -0.37 | 0.016 | |
| Phase VI-E (849) | 5% | 5% | | | 71.0 | 22.7 | 13.7 | 3.9 | -0.26 | 0.019 | |
| STOC 12A | 50% | 50% | | | 72.0 | 51.0 | 29.8 | 0.4 | -1.33 | 0.062 | |
| STOC 13 (879) | 5% | 5% | | | 71.0 | 16.6 | 14.4 | 4.8 | -0.16 | 0.018 | |
| STOC 14 (881) | 5% | 5% | | | 76.0 | 32.3 | 18.2 | 2.6 | -0.25 | 0.015 | |
| STOC 15 (883) | 3% | 3% | | | 72.0 | 12.9 | 15.9 | 3.9 | -0.10 | 0.010 | |
| STOC 16 | 15% | 15% | | | 72.0 | 40.2 | 24.1 | 0.8 | -0.22 | 0.018 | |

| Well # | Start | End | Gallons |
|---|---|---|---|
| 14 | 180652 | 182745 | 1046.5 |
| 15 | 255925 | 259348 | 1711.5 |
| 16 | 288953 | 292113 | 1580 |
| 17 | 464999 | 466840 | 920.5 |

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 2025**

**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: 4/24/25
Checked by: Jadd Stilwell Date: 4/24/25

# 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 2025

Page 1

Taken by: JES | ***Date*** 5/14/2025 | Start Barometric Pressure 29.03 | Weather: 80 Degrees F 5 MPH SSE Fair

***Time*** 12:15 PM

Checked by: JES /SEH | 4:30 PM | End Barometric Pressure 29.00 | Weather: 74 Degrees F 15 MPH E 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 | -2.6 | 246 | 65.8 | 43.9 | 28.1 | 1.2 | | | | | | | | - | - | |
| Flare End (781) | 100 | 100 | -2.5 | 248 | 67.7 | 45.1 | 28.2 | 1.1 | | | | | | | | - | - | |
| GW-1 (800) | 3% | 3% | | 2 | 80.0 | 10.9 | 9.9 | 0.2 | 806.5 | 791.6 | 38.5 | 768 | 23.5 | 0 | **100%** | -0.04 | 0.002 | |
| GW-2(803) | 3% | 3% | | 1 | 90.0 | 21.2 | 2.0 | 0.1 | 802.3 | 786.8 | 38.7 | 763.6 | 23.5 | 0 | **99%** | -0.12 | 0.056 | |
| GW-3 (806) | 5% | 5% | | 3 | 82.0 | 22.3 | 6.2 | 0.1 | 797.4 | 781.6 | 39.4 | 758 | 23.5 | 0 | **100%** | -0.08 | 0.011 | |
| GW-4 (809) | 3% | 3% | | 1 | 81.0 | 21.8 | 6.7 | 0.2 | 801.3 | 785.3 | 36.8 | 764.5 | 21.5 | 0 | **97%** | -0.03 | 0.008 | |
| GW-5 (812) | 5% | 5% | | 4 | 72.0 | 15.8 | 11.5 | 0.1 | 804.7 | 789.4 | 39.2 | 765.5 | 24.5 | 0 | **98%** | -0.05 | 0.004 | |
| GW-6 (815) | 5% | 5% | | 3 | 79.0 | 10.4 | 11.5 | 0.8 | 811.6 | 797 | 35 | 776.6 | 29 | 0 | **70%** | -0.04 | 0.005 | |
| GW-7 (818) | 3% | 3% | | 2 | 86.0 | 6.5 | 10.1 | 1.3 | 813.5 | 799 | 38.1 | 775.4 | 27 | 0 | **87%** | -0.03 | 0.003 | |
| GW-8 (821) | 5% | 5% | | 5 | 73.0 | 29.4 | 10.7 | 3.1 | 824.9 | 811 | 39.1 | 785.8 | 33 | 0 | **76%** | -0.39 | 0.003 | |
| GW-9 (824) | 50% | 50% | | 10 | 72.0 | 53.4 | 13.9 | 0.5 | 860.1 | 838 | 64.8 | 795.3 | 67 | 0 | **64%** | -1.80 | 0.460 | |
| GW-10 (827) | 80% | 80% | | 16 | 62.0 | 52.6 | 10.7 | 4.5 | 853.7 | 835.6 | 54.1 | 799.6 | 53 | 0 | **68%** | -1.82 | 0.026 | |
| GW-11 (865) | 30% | 30% | | 9 | 75.0 | 42.4 | 24.2 | 0.0 | 855.8 | 833.1 | 60.3 | 795.49 | 56.5 | 0 | **67%** | -0.63 | 0.099 | |
| GW-12 (831) | 20% | 20% | | 9 | 70.0 | 28.8 | 18.3 | 0.2 | 897.3 | 881.0 | 47.9 | 849.4 | 50.0 | 0 | **63%** | -0.10 | 0.064 | |
| GW-13 (830) | 60% | 70% | | 13 | 75.0 | 64.2 | 25.3 | 1.1 | 855.2 | 836.5 | 66.0 | 789.2 | 53.0 | 0 | **89%** | -1.96 | 0.026 | |
| GW-14 (833) | 100% | 100% | | 21 | 74.0 | 67.7 | 26.4 | 0.9 | 833.1 | 816.1 | 45.9 | 787.2 | 41.8 | 502.5 | **69%** | -2.04 | 0.032 | |
| GW-15 (836) | 100% | 100% | | 17 | 79.0 | 70.1 | 24.8 | 0.2 | 847.7 | 833.4 | 42.0 | 805.7 | 38.0 | 1154.5 | **73%** | -2.02 | 0.036 | |
| GW-16 (839) | 100% | 100% | | 18 | 80.0 | 69.7 | 28.8 | 0.3 | 851.5 | 835.8 | 47.8 | 803.7 | 36.8 | 1161.5 | **87%** | -2.15 | 0.019 | |
| GW-17 (842) | 100% | 100% | | 20 | 89.0 | 63.1 | 31.4 | 0.7 | 882.2 | 856.0 | 81.3 | 800.9 | 79.0 | 778.5 | **70%** | -2.08 | 0.011 | |
| GW-19 (841) | 25% | 25% | | 8 | 89.0 | 22.4 | 14.6 | 0.8 | 905.97 | 889.8 | 58.9 | 847.1 | 50.0 | 0 | **85%** | -1.10 | 0.008 | |
| GW-20 (867) | 20% | 20% | | 6 | 74.0 | 32.2 | 26.9 | 0.1 | 856.32 | 837.1 | 52.8 | 803.5 | 49.5 | 0 | **68%** | -0.53 | 0.068 | |
| GW-21 (869) | 20% | 20% | | 9 | 61.0 | 28.1 | 17.5 | 0.1 | 810.0 | 795.1 | 28.4 | 781.6 | 13.5 | 0 | **100%** | -1.86 | 0.320 | |
| GW-22 (871) | 15% | 15% | | 6 | 63.0 | 43.6 | 32.7 | 0.0 | 815.62 | 796.0 | 33.4 | 782.2 | 22.5 | 0 | **61%** | -0.23 | 0.176 | |
| GW-26 (843) | 10% | 15% | | 5 | 78.0 | 37.6 | 15.8 | 1.4 | 881.21 | 865.7 | 47.2 | 834.0 | 50.0 | 0 | **63%** | -0.23 | 0.009 | |
| GW-27 (844) | 15% | 15% | | 6 | 72.0 | 15.6 | 19.2 | 0.1 | 857.02 | 841.2 | 35.3 | 821.7 | 31.0 | 0 | **63%** | -0.47 | 0.003 | |
| GW-33 (873) | 5% | 5% | | 4 | 90.0 | 22.8 | 19.7 | 4.6 | 815.63 | 797.9 | 33.5 | 782.1 | 24.5 | 0 | **64%** | -0.79 | 0.080 | |

| | | | | | Temp | CH4 | CO2 | O2 | Static | Diff. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase VII (851) | 10% | 10% | | | 72.0 | 16.7 | 18.1 | 0.5 | -0.16 | 0.021 | |
| Phase V CO (847) | 20% | 20% | | | 71.0 | 29.8 | 15.7 | 2.9 | -1.21 | 0.038 | |
| Phase IV CO (845) | 20% | 20% | | | 68.0 | 17.6 | 14.0 | 2.6 | -0.38 | 0.033 | |
| STOC 1 (853) | 100% | 100% | | | 84.0 | 56.6 | 26.8 | 0.3 | -2.41 | 0.094 | |
| STOC 2 (855) | 60% | 60% | | | 79.0 | 30.2 | 14.4 | 4.2 | -1.55 | 0.051 | |
| STOC 3 (857) | 10% | 10% | | | 78.0 | 31.0 | 8.8 | 2.8 | -0.48 | 0.022 | |
| STOC 4 (859) | 3% | 3% | | | 72.0 | 13.7 | 15.1 | 4.2 | -0.07 | 0.006 | |
| STOC 5 (861) | 3% | 3% | | | 68.0 | 10.8 | 10.9 | 3.9 | -0.11 | 0.013 | |
| STOC 6 (863) | 3% | 3% | | | 72.0 | 20.5 | 17.7 | 2.9 | -0.09 | 0.004 | |
| STOC 7 (875) | 3% | 3% | | | 76.0 | 15.7 | 15.9 | 1.4 | -0.13 | 0.008 | |
| STOC 8 (854) | 40% | 40% | | | 75.0 | 34.1 | 20.4 | 0.4 | -0.66 | 0.081 | |
| STOC 9 (856) | 5% | 5% | | | 75.0 | 25.9 | 19.1 | 0.6 | -0.18 | 0.016 | |
| STOC 10 | 30% | 30% | | | 96.0 | 42.7 | 23.0 | 0.5 | -0.71 | 0.045 | |
| STOC 11 | 5% | 5% | | | 89.0 | 32.0 | 25.1 | 0.6 | -0.36 | 0.025 | |
| Phase VI-E (849) | 5% | 5% | | | 73.0 | 23.5 | 14.8 | 4.1 | -0.41 | 0.019 | |
| STOC 12A | 50% | 50% | | | 71.0 | 53.9 | 29.6 | 0.5 | -1.11 | 0.077 | |
| STOC 13 (879) | 5% | 5% | | | 70.0 | 18.2 | 14.2 | 4.1 | -0.37 | 0.012 | |
| STOC 14 (881) | 5% | 5% | | | 69.0 | 33.6 | 18.3 | 2.5 | -0.49 | 0.018 | |
| STOC 15 (883) | 3% | 3% | | | 71.0 | 13.3 | 15.2 | 3.7 | -0.21 | 0.009 | |
| STOC 16 | 15% | 15% | | | 76.0 | 41.8 | 24.8 | 0.7 | -0.43 | 0.016 | |

| Well # | Start | End | Gallons |
|---|---|---|---|
| 14 | 182745 | 183750 | 502.5 |
| 15 | 259348 | 261657 | 1154.5 |
| 16 | 292113 | 294436 | 1161.5 |
| 17 | 466840 | 468397 | 778.5 |

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 2025**

**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: 5/14/25
Checked by: Jadd Stilwell Date: 5/14/25

# 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 2025

Page 1

Taken by: JS/JD | ***Date*** 6/27/2025 | Start Barometric Pressure 29.18 | Weather: 68 Degrees F 10 MPH NW Cloudy

***Time*** 9:00 AM

Checked by: JES /SEH | 3:00 PM | End Barometric Pressure 29.23 | Weather: 74 Degrees F 10 MPH N 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 | -2.2 | 236 | 67.0 | 48.1 | 29.8 | 0.7 | | | | | | | | - | - | |
| Flare End (781) | 781 | 100 | 100 | 100 | -2.1 | 211 | 68.2 | 47.4 | 29.4 | 0.8 | | | | | | | | - | - | |
| GW-1 (800) | 800 | 3% | 3 | 3% | | 2 | 81.0 | 11.0 | 10.1 | 0.3 | 806.5 | 791.6 | 38 | 768.5 | 23.5 | 0 | **98%** | -0.08 | 0.008 | |
| GW-2(803) | 803 | 3% | 3 | 3% | | 1 | 89.0 | 20.1 | 5.8 | 0.2 | 802.3 | 786.8 | 38.6 | 763.7 | 23.5 | 0 | **98%** | -0.11 | 0.021 | |
| GW-3 (806) | 806 | 5% | 5 | 5% | | 3 | 80.0 | 24.2 | 7.3 | 0.5 | 797.4 | 781.6 | 39.3 | 758.1 | 23.5 | 0 | **100%** | -0.12 | 0.014 | |
| GW-4 (809) | 809 | 3% | 3 | 3% | | 1 | 81.0 | 22.0 | 6.5 | 0.3 | 801.3 | 785.3 | 36.7 | 764.6 | 21.5 | 0 | **96%** | -0.07 | 0.007 | |
| GW-5 (812) | 812 | 5% | 5 | 5% | | 4 | 76.0 | 16.3 | 12.1 | 0.4 | 804.7 | 789.4 | 39.5 | 765.2 | 24.5 | 0 | **99%** | -0.14 | 0.002 | |
| GW-6 (815) | 815 | 5% | 5 | 5% | | 3 | 77.0 | 10.1 | 11.0 | 0.9 | 811.6 | 797 | 35.6 | 776 | 29 | 0 | **72%** | -0.13 | 0.009 | |
| GW-7 (818) | 818 | 3% | 3 | 3% | | 2 | 84.0 | 7.7 | 9.9 | 1.1 | 813.5 | 799 | 39.6 | 773.9 | 27 | 0 | **93%** | -0.08 | 0.007 | |
| GW-8 (821) | 821 | 5% | 5 | 5% | | 5 | 72.0 | 28.6 | 12.3 | 3.2 | 824.9 | 811 | 38.9 | 786 | 33 | 0 | **76%** | -0.24 | 0.010 | |
| GW-9 (824) | 824 | 50% | 50 | 50% | | 10 | 71.0 | 40.2 | 14.3 | 0.6 | 860.1 | 838 | 66.4 | 793.7 | 67 | 0 | **66%** | -1.69 | 0.098 | |
| GW-10 (827) | 827 | 80% | 80 | 80% | | 16 | 70.0 | 51.4 | 11.7 | 4.3 | 853.7 | 835.6 | 59.2 | 794.5 | 53 | 0 | **78%** | -1.94 | 0.041 | |
| GW-11 (865) | 865 | 30% | 30 | 30% | | 9 | 72.0 | 43.9 | 23.0 | 0.1 | 855.8 | 833.1 | 62.1 | 793.69 | 56.5 | 0 | **70%** | -0.51 | 0.109 | |
| GW-12 (831) | 831 | 20% | 20 | 20% | | 9 | 71.0 | 23.5 | 17.6 | 0.3 | 897.3 | 881.0 | 49.8 | 847.5 | 50.0 | 0 | **67%** | -0.13 | 0.078 | |
| GW-13 (830) | 830 | 60% | 60 | 70% | | 13 | 74.0 | 61.1 | 241.0 | 1.3 | 855.2 | 836.5 | 66.7 | 788.5 | 53.0 | 0 | **91%** | -1.75 | 0.078 | |
| GW-14 (833) | 833 | 100% | 100 | 100% | | 21 | 75.0 | 67.8 | 25.8 | 0.8 | 833.1 | 816.1 | 46.8 | 786.3 | 41.8 | 251 | **71%** | -2.09 | 0.038 | |
| GW-15 (836) | 836 | 100% | 100 | 100% | | 17 | 80.0 | 68.7 | 23.6 | 0.3 | 847.7 | 833.4 | 44.1 | 803.6 | 38.0 | 412.5 | **78%** | -2.01 | 0.040 | |
| GW-16 (839) | 839 | 100% | 100 | 100% | | 18 | 82.0 | 63.5 | 27.4 | 0.2 | 851.5 | 835.8 | 48.2 | 803.3 | 36.8 | 552.5 | **88%** | -1.92 | 0.011 | |
| GW-17 (842) | 842 | 100% | 100 | 100% | | 20 | 88.0 | 60.8 | 31.0 | 0.9 | 882.2 | 856.0 | 82.3 | 799.9 | 79.0 | 740 | **71%** | -1.81 | 0.027 | |
| GW-19 (841) | 841 | 25% | 25 | 25% | | 8 | 85.0 | 21.4 | 15.5 | 0.7 | 905.97 | 889.8 | 59.4 | 846.6 | 50.0 | 0 | **86%** | -0.91 | 0.019 | |
| GW-20 (867) | 867 | 20% | 20 | 20% | | 6 | 73.0 | 33.3 | 25.9 | 0.2 | 856.32 | 837.1 | 53.5 | 802.8 | 49.5 | 0 | **69%** | -0.77 | 0.054 | |
| GW-21 (869) | 869 | 20% | 20 | 20% | | 9 | 70.0 | 26.5 | 17.2 | 0.0 | 810.0 | 795.1 | 28.0 | 782.0 | 13.5 | 0 | **97%** | -0.62 | 0.124 | |
| GW-22 (871) | 871 | 15% | 15 | 15% | | 6 | 67.0 | 44.9 | 31.3 | 0.1 | 815.62 | 796.0 | 34.0 | 781.6 | 22.5 | 0 | **64%** | -0.38 | 0.057 | |
| GW-26 (843) | 843 | 10% | 10 | 15% | | 5 | 71.0 | 38.2 | 15.0 | 1.2 | 881.21 | 865.7 | 50.3 | 830.9 | 50.0 | 0 | **70%** | -0.31 | 0.008 | |
| GW-27 (844) | 844 | 15% | 15 | 15% | | 6 | 72.0 | 17.5 | 20.2 | 0.2 | 857.02 | 841.2 | 44.8 | 812.2 | 31.0 | 0 | **94%** | -0.33 | 0.021 | |
| GW-33 (873) | 873 | 5% | 5 | 5% | | 4 | 91.0 | 22.8 | 18.8 | 4.4 | 815.63 | 797.9 | 35.7 | 779.9 | 24.5 | 0 | **73%** | -0.15 | 0.012 | |
| Phase VII (851) | 851 | 10% | 10 | 10% | | | 74.0 | 17.0 | 17.5 | 0.6 | -0.24 | 0.033 | | | | | | | | |
| Phase V CO (847) | 847 | 20% | 20 | 20% | | | 72.0 | 29.1 | 14.8 | 2.8 | -0.75 | 0.027 | | | | | | | | |
| Phase IV CO (845) | 845 | 20% | 20 | 20% | | | 70.0 | 16.9 | 14.3 | 2.2 | -0.40 | 0.024 | | | | | | | | |
| STOC 1 (853) | 853 | 100% | 100 | 100% | | | 86.0 | 54.1 | 25.6 | 0.5 | -1.74 | 0.102 | | | | | | | | |
| STOC 2 (855) | 855 | 60% | 60 | 60% | | | 81.0 | 30.3 | 14.4 | 4.1 | -1.47 | 0.042 | | | | | | | | |
| STOC 3 (857) | 857 | 10% | 10 | 10% | | | 79.0 | 30.5 | 9.8 | 3.0 | -0.31 | 0.018 | | | | | | | | |
| STOC 4 (859) | 859 | 3% | 3 | 3% | | | 75.0 | 14.2 | 17.0 | 3.9 | -0.09 | 0.011 | | | | | | | | |

| Well # | Start | End | Gallons |
|---|---|---|---|
| 14 | 183750 | 184252 | 251 |
| 15 | 261657 | 262482 | 412.5 |
| 16 | 294436 | 295541 | 552.5 |
| 17 | 468397 | 469877 | 740 |

Cycle = .5 gallons

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STOC 5 (861) | 861 | 3% | 3 | 3% | | | 71.0 | 11.0 | 12.2 | 4.1 | -0.18 | 0.014 | |
| STOC 6 (863) | 863 | 3% | 3 | 3% | | | 70.0 | 21.0 | 16.5 | 3.1 | -0.15 | 0.009 | |
| STOC 7 (875) | 875 | 3% | 3 | 3% | | | 72.0 | 16.6 | 15.0 | 1.7 | -0.10 | 0.011 | |
| STOC 8 (854) | 854 | 40% | 40 | 40% | | | 76.0 | 35.1 | 21.1 | 0.3 | -0.43 | 0.053 | |
| STOC 9 (856) | 856 | 5% | 5 | 5% | | | 78.0 | 26.8 | 18.6 | 0.9 | -0.12 | 0.020 | |
| STOC 10 | 858 | 30% | 30 | 30% | | | 95.0 | 43.9 | 23.4 | 0.8 | -0.66 | 0.039 | |
| STOC 11 | 860 | 5% | 5 | 5% | | | 90.0 | 31.5 | 24.5 | 0.7 | -0.28 | 0.015 | |
| Phase VI-E (849) | 849 | 5% | 5 | 5% | | | 75.0 | 23.8 | 13.8 | 4.4 | -0.31 | 0.020 | |
| STOC 12A | 887 | 50% | 50 | 50% | | | 74.0 | 52.7 | 29.8 | 0.6 | -1.24 | 0.065 | |
| STOC 13 (879) | 879 | 5% | 5 | 5% | | | 72.0 | 19.4 | 14.0 | 4.5 | -0.32 | 0.009 | |
| STOC 14 (881) | 881 | 5% | 5 | 5% | | | 69.0 | 35.2 | 18.7 | 2.9 | -0.33 | 0.014 | |
| STOC 15 (883) | 883 | 3% | 3 | 3% | | | 72.0 | 14.5 | 14.8 | 3.1 | -0.18 | 0.011 | |
| STOC 16 | 885 | 15% | 15 | 15% | | | 79.0 | 42.3 | 24.9 | 0.6 | -0.51 | 0.023 | |

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# Air Permit 05-MHR-210 Compliance Demonstration

## Closed and Active Landfills

**Monthly Gas Well Deviation Report[1]** **June 2025**

**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: 6/27/25
Checked by: Jadd Stilwell Date: 6/27/25

# 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*** 7/15/2025 | Start Barometric Pressure 29.27 | Weather: 83 Degrees F, SSW 15 MPH, Clear

***Time*** 10:00 AM

Checked by: JES /SEH | 13:15:00 PM | End Barometric Pressure 29.23 | Weather: 87 Degrees F, SW 13 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 | -2.2 | 224.5 | 73.6 | 47.6 | 29.2 | 1.0 | | | | | | | | - | - | |
| Flare End (781) | 100 | 100 | -2.1 | 223 | 75.0 | 48.2 | 29.4 | 0.8 | | | | | | | | - | - | |
| GW-1 (800) | 3% | 3% | | 1 | 75.0 | 14.5 | 15.5 | 1.7 | 806.5 | 791.6 | 38.1 | 768.4 | 23.5 | 0 | **99%** | -0.08 | 0.011 | |
| GW-2(803) | 3% | 3% | | 2 | 71.0 | 15.2 | 14.6 | 0.6 | 802.3 | 786.8 | 38.8 | 763.5 | 23.5 | 0 | **99%** | -0.11 | 0.006 | |
| GW-3 (806) | 5% | 5% | | 2 | 77.0 | 13.2 | 11.1 | 0.1 | 797.4 | 781.6 | 38.7 | 758.7 | 23.5 | 0 | **97%** | -0.09 | 0.012 | |
| GW-4 (809) | 3% | 3% | | 3 | 76.0 | 18.1 | 9.8 | 0.5 | 801.3 | 785.3 | 36.6 | 764.7 | 21.5 | 0 | **96%** | -0.12 | 0.009 | |
| GW-5 (812) | 5% | 5% | | 4 | 81.0 | 11.9 | 10.5 | 0.3 | 804.7 | 789.4 | 39.1 | 765.6 | 24.5 | 0 | **97%** | -0.18 | 0.016 | |
| GW-6 (815) | 5% | 5% | | 2 | 72.0 | 13.8 | 12.3 | 1.1 | 811.6 | 797 | 42.9 | 768.7 | 29 | 0 | **98%** | -0.22 | 0.020 | |
| GW-7 (818) | 3% | 3% | | 2 | 71.0 | 20.1 | 12.1 | 0.4 | 813.5 | 799 | 37.7 | 775.8 | 27 | 0 | **86%** | -0.10 | 0.011 | |
| GW-8 (821) | 5% | 5% | | 3 | 79.0 | 20.8 | 13.8 | 0.2 | 824.9 | 811 | 44.9 | 780 | 33 | 0 | **94%** | -0.14 | 0.016 | |
| GW-9 (824) | 50% | 50% | | 7 | 78.0 | 43.7 | 17.4 | 1.4 | 860.1 | 838 | 75.4 | 784.7 | 67 | 0 | **80%** | -1.53 | 0.073 | |
| GW-10 (827) | 80% | 80% | | 16 | 75.0 | 50.8 | 20.3 | 2.6 | 853.7 | 835.6 | 56.9 | 796.8 | 53 | 0 | **73%** | -2.08 | 0.110 | |
| GW-11 (865) | 30% | 30% | | 11 | 83.0 | 40.5 | 23.4 | 0.2 | 855.8 | 833.1 | 79.4 | 776.39 | 56.5 | 0 | **100%** | -1.42 | 0.055 | |
| GW-12 (831) | 20% | 20% | | 6 | 81.0 | 44.0 | 21.5 | 0.8 | 897.3 | 881.0 | 61.0 | 836.3 | 50.0 | 0 | **90%** | -0.72 | 0.042 | |
| GW-13 (830) | 70% | 60% | | 12 | 80.0 | 45.9 | 17.7 | 0.5 | 855.2 | 836.5 | 62.1 | 793.1 | 53.0 | 0 | **82%** | -2.10 | 0.067 | |
| GW-14 (833) | 100% | 100% | | 18 | 77.0 | 58.8 | 23.6 | 0.8 | 833.1 | 816.1 | 48.0 | 785.1 | 41.8 | 156 | **74%** | -2.05 | 0.120 | |
| GW-15 (836) | 100% | 100% | | 19 | 84.0 | 63.7 | 22.1 | 0.2 | 847.7 | 833.4 | 46.9 | 800.8 | 38.0 | 179 | **86%** | -2.07 | 0.131 | |
| GW-16 (839) | 100% | 100% | | 15 | 74.0 | 63.5 | 22.9 | 0.5 | 851.5 | 835.8 | 50.4 | 801.1 | 36.8 | 231 | **94%** | -2.11 | 0.104 | |
| GW-17 (842) | 100% | 100% | | 20 | 83.0 | 56.7 | 27.5 | 0.3 | 882.2 | 856.0 | 92.2 | 790.0 | 79.0 | 99 | **84%** | -2.12 | 0.111 | |
| GW-19 (841) | 25% | 25% | | 8 | 84.0 | 54.1 | 24.0 | 0.1 | 905.97 | 889.8 | 64.1 | 841.9 | 50.0 | 0 | **96%** | -1.18 | 0.048 | |
| GW-20 (867) | 20% | 20% | | 6 | 79.0 | 32.8 | 22.0 | 0.4 | 856.32 | 837.1 | 66.6 | 789.7 | 49.5 | 0 | **96%** | -0.45 | 0.044 | |
| GW-21 (869) | 20% | 20% | | 7 | 76.0 | 26.4 | 22.2 | 1.4 | 810.0 | 795.1 | 25.9 | 784.1 | 13.5 | 0 | **81%** | -0.48 | 0.036 | |
| GW-22 (871) | 15% | 15% | | 6 | 75.0 | 34.8 | 18.8 | 0.2 | 815.62 | 796.0 | 37.3 | 778.3 | 22.5 | 0 | **79%** | -0.39 | 0.028 | |
| GW-26 (843) | 15% | 10% | | 5 | 74.0 | 41.4 | 21.2 | 0.4 | 881.21 | 865.7 | 61.0 | 820.2 | 50.0 | 0 | **91%** | -0.30 | 0.027 | |
| GW-27 (844) | 15% | 15% | | 6 | 73.0 | 31.9 | 20.1 | 0.0 | 857.02 | 841.2 | 46.7 | 810.3 | 31.0 | 0 | **100%** | -0.41 | 0.019 | |
| GW-33 (873) | 5% | 5% | | 4 | 94.0 | 25.0 | 14.8 | 2.9 | 815.63 | 797.9 | 41.8 | 773.8 | 24.5 | 0 | **98%** | -0.16 | 0.017 | |

| | | | | | Temp | CH4 | CO2 | O2 | Static | Diff. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase VII (851) | 10% | 10% | | | 79.0 | 23.1 | 15.0 | 0.1 | -0.28 | 0.026 | |
| Phase V CO (847) | 20% | 20% | | | 75.0 | 29.4 | 16.2 | 2.8 | -0.37 | 0.038 | |
| Phase IV CO (845) | 20% | 20% | | | 76.0 | 22.0 | 13.1 | 0.9 | -0.28 | 0.022 | |
| STOC 1 (853) | 100% | 100% | | | 79.0 | 56.7 | 24.5 | 0.1 | -2.14 | 0.127 | |
| STOC 2 (855) | 60% | 60% | | | 86.0 | 37.6 | 17.8 | 3.1 | -1.31 | 0.044 | |
| STOC 3 (857) | 10% | 10% | | | 80.0 | 32.2 | 11.3 | 2.5 | -0.35 | 0.022 | |
| STOC 8 (854) | 40% | 40% | | | 81.0 | 37.8 | 27.1 | 0.3 | -0.41 | 0.073 | |
| STOC 9 (856) | 5% | 5% | | | 71.0 | 26.9 | 20.3 | 0.3 | -0.14 | 0.014 | |
| STOC 10 | 30% | 30% | | | 94.0 | 40.4 | 22.5 | 0.1 | -0.27 | 0.029 | |
| STOC 11 | 5% | 5% | | | 89.0 | 29.5 | 23.7 | 0.2 | -0.12 | 0.015 | |
| Phase VI-E (849) | 5% | 5% | | | 80.0 | 24.1 | 15.2 | 2.9 | -0.14 | 0.010 | |
| STOC 12A | 50% | 50% | | | 81.0 | 52.8 | 30.1 | 0.7 | -1.08 | 0.026 | |
| STOC 13 (879) | 5% | 5% | | | 76.0 | 23.1 | 16.6 | 4.1 | -0.20 | 0.009 | |
| STOC 14 (881) | 5% | 5% | | | 75.0 | 36.6 | 16.2 | 3.4 | -0.16 | 0.013 | |
| STOC 15 (883) | 3% | 3% | | | 76.0 | 20.6 | 19.0 | 3.3 | -0.07 | 0.008 | |
| STOC 16 | 15% | 15% | | | 77.0 | 43.5 | 22.4 | 0.5 | -0.31 | 0.037 | |

| Well # | Start | End | Gallons |
|---|---|---|---|
| 14 | 184252 | 184564 | 156 |
| 15 | 262482 | 262840 | 179 |
| 16 | 295541 | 296003 | 231 |
| 17 | 469877 | 470075 | 99 |

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*** 8/21/2025 | Start Barometric Pressure 29.43 | Weather: 72 Degrees F, SSE 6 MPH, Fair

***Time*** 9:00 AM

Checked by: JES /SEH | 12:10 PM | End Barometric Pressure 29.39 | Weather: 75 Degrees F, E 7 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 | -1.9 | 231 | 72.6 | 46.6 | 30.5 | 0.8 | | | | | | | | - | - | |
| Flare End (781) | 100 | 100 | -1.8 | 232 | 73.6 | 46.5 | 30.4 | 0.9 | | | | | | | | - | - | |
| GW-1 (800) | 3% | 3% | | 2 | 77.0 | 13.1 | 15.6 | 1.8 | 806.5 | 791.6 | 38 | 768.5 | 23.5 | 0 | **98%** | -0.03 | 0.008 | |
| GW-2(803) | 3% | 3% | | 1 | 74.0 | 14.2 | 14.4 | 0.5 | 802.3 | 786.8 | 38.7 | 763.6 | 23.5 | 0 | **99%** | -0.09 | 0.004 | |
| GW-3 (806) | 5% | 5% | | 3 | 78.0 | 12.8 | 11.6 | 0.2 | 797.4 | 781.6 | 38.5 | 758.9 | 23.5 | 0 | **97%** | -0.12 | 0.018 | |
| GW-4 (809) | 3% | 3% | | 2 | 77.0 | 10.9 | 10.1 | 0.4 | 801.3 | 785.3 | 36.1 | 765.2 | 21.5 | 0 | **93%** | -0.11 | 0.007 | |
| GW-5 (812) | 5% | 5% | | 2 | 83.0 | 12.2 | 10.8 | 0.6 | 804.7 | 789.4 | 39.6 | 765.1 | 24.5 | 0 | **99%** | -0.18 | 0.013 | |
| GW-6 (815) | 5% | 5% | | 3 | 82.0 | 14.8 | 11.4 | 1.3 | 811.6 | 797 | 42.4 | 769.2 | 29 | 0 | **96%** | -0.22 | 0.016 | |
| GW-7 (818) | 3% | 3% | | 1 | 74.0 | 17.6 | 12.5 | 0.3 | 813.5 | 799 | 37.6 | 775.9 | 27 | 0 | **86%** | -0.09 | 0.009 | |
| GW-8 (821) | 5% | 5% | | 2 | 80.0 | 15.2 | 14.0 | 0.1 | 824.9 | 811 | 44.8 | 780.1 | 33 | 0 | **94%** | -0.18 | 0.010 | |
| GW-9 (824) | 50% | 50% | | 8 | 77.0 | 44.4 | 17.0 | 1.8 | 860.1 | 838 | 75.9 | 784.2 | 67 | 0 | **80%** | -1.24 | 0.070 | |
| GW-10 (827) | 80% | 80% | | 18 | 78.0 | 51.3 | 20.1 | 2.5 | 853.7 | 835.6 | 56.8 | 796.9 | 53 | 0 | **73%** | -1.81 | 0.107 | |
| GW-11 (865) | 30% | 30% | | 12 | 81.0 | 39.6 | 23.5 | 0.4 | 855.8 | 833.1 | 79.4 | 776.39 | 56.5 | 0 | **100%** | -1.30 | 0.051 | |
| GW-12 (831) | 20% | 20% | | 8 | 80.0 | 45.2 | 20.9 | 0.6 | 897.3 | 881.0 | 61.2 | 836.1 | 50.0 | 0 | **90%** | -0.67 | 0.038 | |
| GW-13 (830) | 60% | 60% | | 12 | 82.0 | 42.1 | 18.0 | 0.5 | 855.2 | 836.5 | 62.0 | 793.2 | 53.0 | 0 | **82%** | -1.53 | 0.060 | |
| GW-14 (833) | 100% | 100% | | 17 | 76.0 | 60.0 | 23.7 | 0.7 | 833.1 | 816.1 | 48.5 | 784.6 | 41.8 | 28.5 | **75%** | -1.81 | 0.122 | |
| GW-15 (836) | 100% | 100% | | 16 | 83.0 | 64.2 | 22.3 | 0.1 | 847.7 | 833.4 | 46.7 | 801.0 | 38.0 | 90.5 | **85%** | -1.71 | 0.108 | |
| GW-16 (839) | 100% | 100% | | 14 | 75.0 | 63.8 | 22.4 | 0.2 | 851.5 | 835.8 | 51.2 | 800.3 | 36.8 | 0 | **96%** | -1.66 | 0.115 | |
| GW-17 (842) | 100% | 100% | | 19 | 85.0 | 55.3 | 27.6 | 0.5 | 882.2 | 856.0 | 92.6 | 789.6 | 79.0 | 989 | **84%** | -1.59 | 0.097 | |
| GW-19 (841) | 25% | 25% | | 8 | 83.0 | 51.9 | 25.0 | 0.0 | 905.97 | 889.8 | 64.1 | 841.9 | 50.0 | 0 | **96%** | -1.08 | 0.039 | |
| GW-20 (867) | 20% | 20% | | 5 | 80.0 | 29.8 | 23.1 | 0.6 | 856.32 | 837.1 | 66.5 | 789.8 | 49.5 | 0 | **95%** | -0.67 | 0.036 | |
| GW-21 (869) | 20% | 20% | | 6 | 77.0 | 26.1 | 21.9 | 1.9 | 810.0 | 795.1 | 26.0 | 784.0 | 13.5 | 0 | **82%** | -0.52 | 0.029 | |
| GW-22 (871) | 15% | 15% | | 5 | 76.0 | 35.0 | 20.2 | 0.5 | 815.62 | 796.0 | 37.7 | 777.9 | 22.5 | 0 | **80%** | -0.44 | 0.027 | |
| GW-26 (843) | 10% | 10% | | 6 | 74.0 | 39.3 | 20.5 | 0.6 | 881.21 | 865.7 | 62.0 | 819.2 | 50.0 | 0 | **93%** | -0.35 | 0.015 | |
| GW-27 (844) | 15% | 15% | | 5 | 72.0 | 30.4 | 19.9 | 0.2 | 857.02 | 841.2 | 46.4 | 810.6 | 31.0 | 0 | **99%** | -0.38 | 0.021 | |
| GW-33 (873) | 5% | 5% | | 3 | 95.0 | 25.1 | 14.4 | 3.1 | 815.63 | 797.9 | 41.6 | 774.0 | 24.5 | 0 | **97%** | -0.11 | 0.011 | |

| | | | | | Temp | CH4 | CO2 | O2 | Static | Diff. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase VII (851) | 10% | 10% | | | 80.0 | 42.3 | 28.3 | 0.2 | -0.22 | 0.021 | |
| Phase V CO (847) | 20% | 20% | | | 77.0 | 30.0 | 16.2 | 2.4 | -0.33 | 0.033 | |
| Phase IV CO (845) | 20% | 20% | | | 81.0 | 24.8 | 15.4 | 1.4 | -0.33 | 0.029 | |
| STOC 1 (853) | 100% | 100% | | | 76.0 | 58.5 | 28.5 | 0.1 | -2.01 | 0.118 | |
| STOC 2 (855) | 60% | 60% | | | 90.0 | 31.7 | 15.7 | 1.9 | -1.37 | 0.053 | |
| STOC 3 (857) | 10% | 10% | | | 81.0 | 27.6 | 11.3 | 2.5 | -0.40 | 0.018 | |
| STOC 8 (854) | 40% | 40% | | | 82.0 | 45.6 | 28.9 | 0.1 | -0.53 | 0.065 | |
| STOC 9 (856) | 5% | 5% | | | 73.0 | 27.3 | 21.8 | 0.8 | -0.12 | 0.009 | |
| STOC 10 | 30% | 30% | | | 96.0 | 48.0 | 30.0 | 0.0 | -0.35 | 0.032 | |
| STOC 11 | 5% | 5% | | | 82.0 | 35.0 | 24.8 | 0.1 | -0.09 | 0.010 | |
| Phase VI-E (849) | 5% | 5% | | | 79.0 | 23.8 | 15.3 | 3.0 | -0.11 | 0.014 | |
| STOC 12A | 50% | 50% | | | 80.0 | 53.7 | 29.3 | 0.5 | -1.19 | 0.033 | |
| STOC 13 (879) | 5% | 5% | | | 78.0 | 22.0 | 15.4 | 4.1 | -0.13 | 0.011 | |
| STOC 14 (881) | 5% | 5% | | | 74.0 | 35.4 | 18.2 | 2.8 | -0.08 | 0.008 | |
| STOC 15 (883) | 3% | 3% | | | 75.0 | 16.3 | 16.0 | 3.2 | -0.03 | 0.002 | |
| STOC 16 | 15% | 15% | | | 78.0 | 44.5 | 22.5 | 0.3 | -0.25 | 0.022 | |

| Well # | Start | End | Gallons |
|---|---|---|---|
| 14 | 184564 | 184621 | 28.5 |
| 15 | 262840 | 263021 | 90.5 |
| 16 | 296003 | 296003 | 0 |
| 17 | 470075 | 472053 | 989 |

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 2025**

**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: 8/21/25
Checked by: Jadd Stilwell Date: 8/21/25

# 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 | 35.1 | 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% | | |

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## Gas Balance Sheet 2025

Page 1

Taken by: JES | ***Date*** 9/17/2025 | Start Barometric Pressure 29.36 | Weather: 75 Degree F, S 6 MPH, Fair

***Time*** 10:00 AM

Checked by: JES /SEH | 13:00 PM | End Barometric Pressure 29.33 | Weather: 83 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 | -2.3 | 259 | 70.3 | 41.7 | 28.7 | 1.1 | | | | | | | | - | - | |
| Flare End (781) | 100 | 100 | -2.3 | 256.9 | 74.7 | 41.9 | 28.7 | 1.1 | | | | | | | | - | - | |
| GW-1 (800) | 3% | 3% | | 2 | 71.0 | 19.0 | 13.5 | 1.3 | 806.5 | 791.6 | 37.8 | 768.7 | 23.5 | 0 | **97%** | -0.06 | 0.007 | |
| GW-2(803) | 3% | 3% | | 2 | 70.0 | 16.6 | 10.6 | 0.9 | 802.3 | 786.8 | 38.7 | 763.6 | 23.5 | 0 | **99%** | -0.13 | 0.006 | |
| GW-3 (806) | 5% | 5% | | 4 | 72.0 | 12.5 | 11.0 | 0.7 | 797.4 | 781.6 | 38.5 | 758.9 | 23.5 | 0 | **97%** | -0.17 | 0.010 | |
| GW-4 (809) | 3% | 3% | | 2 | 72.0 | 13.9 | 13.1 | 0.8 | 801.3 | 785.3 | 37 | 764.3 | 21.5 | 0 | **98%** | -0.06 | 0.013 | |
| GW-5 (812) | 5% | 5% | | 5 | 69.0 | 10.8 | 10.2 | 0.2 | 804.7 | 789.4 | 39.5 | 765.2 | 24.5 | 0 | **99%** | -0.15 | 0.017 | |
| GW-6 (815) | 5% | 5% | | 2 | 71.0 | 12.7 | 12.7 | 0.4 | 811.6 | 797 | 42.2 | 769.4 | 29 | 0 | **95%** | -0.16 | 0.022 | |
| GW-7 (818) | 3% | 3% | | 1 | 68.0 | 15.0 | 13.4 | 0.7 | 813.5 | 799 | 38.1 | 775.4 | 27 | 0 | **87%** | -0.08 | 0.009 | |
| GW-8 (821) | 5% | 5% | | 5 | 73.0 | 23.8 | 10.8 | 0.3 | 824.9 | 811 | 45.2 | 779.7 | 33 | 0 | **95%** | -0.21 | 0.012 | |
| GW-9 (824) | 50% | 50% | | 14 | 76.0 | 41.2 | 18.0 | 0.9 | 860.1 | 838 | 74.7 | 785.4 | 67 | 0 | **79%** | -1.82 | 0.063 | |
| GW-10 (827) | 80% | 80% | | 16 | 72.0 | 48.5 | 20.1 | 3.1 | 853.7 | 835.6 | 59 | 794.7 | 53 | 0 | **77%** | -2.08 | 0.096 | |
| GW-11 (865) | 30% | 30% | | 10 | 77.0 | 44.0 | 23.9 | 0.8 | 855.8 | 833.1 | 78.9 | 776.89 | 56.5 | 0 | **99%** | -1.15 | 0.044 | |
| GW-12 (831) | 20% | 20% | | 8 | 76.0 | 42.3 | 22.3 | 0.4 | 897.3 | 881.0 | 60.4 | 836.9 | 50.0 | 0 | **88%** | -0.66 | 0.061 | |
| GW-13 (830) | 60% | 60% | | 18 | 75.0 | 53.7 | 18.1 | 0.5 | 855.2 | 836.5 | 62.4 | 792.8 | 53.0 | 0 | **82%** | -1.47 | 0.079 | |
| GW-14 (833) | 100% | 100% | | 20 | 71.0 | 64.1 | 22.1 | 1.4 | 833.1 | 816.1 | 50.3 | 782.8 | 41.8 | 66 | **80%** | -2.17 | 0.118 | |
| GW-15 (836) | 100% | 100% | | 18 | 74.0 | 65.8 | 23.2 | 0.2 | 847.7 | 833.4 | 46.5 | 801.2 | 38.0 | 411 | **85%** | -2.20 | 0.121 | |
| GW-16 (839) | 100% | 100% | | 22 | 70.0 | 63.1 | 25.4 | 0.2 | 851.5 | 835.8 | 49.9 | 801.6 | 36.8 | 1 | **93%** | -2.05 | 0.125 | |
| GW-17 (842) | 100% | 100% | | 17 | 81.0 | 60.0 | 28.2 | 0.0 | 882.2 | 856.0 | 91.3 | 790.9 | 79.0 | 474 | **82%** | -2.17 | 0.101 | |
| GW-19 (841) | 25% | 25% | | 8 | 75.0 | 55.1 | 23.8 | 0.3 | 905.97 | 889.8 | 63.6 | 842.4 | 50.0 | 0 | **95%** | -1.24 | 0.072 | |
| GW-20 (867) | 20% | 20% | | 7 | 70.0 | 33.4 | 19.0 | 0.7 | 856.32 | 837.1 | 67.5 | 788.8 | 49.5 | 0 | **97%** | -0.68 | 0.058 | |
| GW-21 (869) | 20% | 20% | | 6 | 74.0 | 24.2 | 16.9 | 2.2 | 810.0 | 795.1 | 26.7 | 783.3 | 13.5 | 0 | **87%** | -0.54 | 0.030 | |
| GW-22 (871) | 15% | 15% | | 4 | 74.0 | 39.7 | 15.5 | 0.5 | 815.62 | 796.0 | 36.8 | 778.8 | 22.5 | 0 | **76%** | -0.39 | 0.034 | |
| GW-26 (843) | 10% | 10% | | 5 | 73.0 | 44.5 | 21.8 | 0.5 | 881.21 | 865.7 | 60.6 | 820.6 | 50.0 | 0 | **90%** | -0.29 | 0.017 | |
| GW-27 (844) | 15% | 15% | | 6 | 69.0 | 32.8 | 17.2 | 0.8 | 857.02 | 841.2 | 45.9 | 811.1 | 31.0 | 0 | **97%** | -0.36 | 0.024 | |
| GW-33 (873) | 5% | 5% | | 4 | 92.0 | 24.5 | 16.0 | 3.5 | 815.63 | 797.9 | 41.6 | 774.0 | 24.5 | 0 | **97%** | -0.18 | 0.012 | |

| | | | | | Temp | CH4 | CO2 | O2 | Static | Diff. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase VII (851) | 10% | 10% | | | 84.0 | 42.5 | 28.0 | 0.3 | -0.20 | 0.018 | |
| Phase V CO (847) | 20% | 20% | | | 81.0 | 30.9 | 15.2 | 2.9 | -0.35 | 0.040 | |
| Phase IV CO (845) | 20% | 20% | | | 79.0 | 25.2 | 16.1 | 1.5 | -0.24 | 0.035 | |
| STOC 1 (853) | 100% | 100% | | | 78.0 | 58.0 | 28.9 | 0.3 | -1.85 | 0.121 | |
| STOC 2 (855) | 60% | 60% | | | 91.0 | 32.0 | 14.6 | 2.2 | -1.30 | 0.067 | |
| STOC 3 (857) | 10% | 10% | | | 84.0 | 28.1 | 12.5 | 2.1 | -0.35 | 0.023 | |
| STOC 8 (854) | 40% | 40% | | | 84.0 | 44.4 | 28.7 | 0.3 | -0.47 | 0.051 | |
| STOC 9 (856) | 5% | 5% | | | 79.0 | 26.8 | 21.3 | 0.5 | -0.16 | 0.015 | |
| STOC 10 | 30% | 30% | | | 95.0 | 49.3 | 30.4 | 0.2 | -0.29 | 0.038 | |
| STOC 11 | 5% | 5% | | | 80.0 | 34.7 | 25.0 | 0.0 | -0.08 | 0.014 | |
| Phase VI-E (849) | 5% | 5% | | | 81.0 | 24.8 | 15.4 | 3.1 | -0.17 | 0.018 | |
| STOC 12A | 50% | 50% | | | 82.0 | 54.0 | 29.5 | 0.6 | -0.99 | 0.049 | |
| STOC 13 (879) | 5% | 5% | | | 80.0 | 21.8 | 15.0 | 4.3 | -0.12 | 0.012 | |
| STOC 14 (881) | 5% | 5% | | | 79.0 | 33.3 | 18.8 | 2.1 | -0.17 | 0.014 | |
| STOC 15 (883) | 3% | 3% | | | 80.0 | 15.4 | 16.5 | 3.3 | -0.08 | 0.007 | |
| STOC 16 | 15% | 15% | | | 81.0 | 46.8 | 22.7 | 0.2 | -0.22 | 0.012 | |

| Well # | Start | End | Gallons |
|---|---|---|---|
| 14 | 184621 | 184753 | 66 |
| 15 | 263021 | 263843 | 411 |
| 16 | 296003 | 296005 | 1 |
| 17 | 472053 | 473001 | 474 |

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 2025**

**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
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Client: La Crosse County Scope ID:
Project: Gas Balance Page: 1
Prepared by: Jadd Stiwell Date: 9/17/25
Checked by: Jadd Stilwell Date: 9/17/25

# 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 2025

Page 1

Taken by: JES | ***Date*** 10/22/2025 | Start Barometric Pressure 29.71 | Weather: 76 Degrees F, S 6 MPH, Fair

***Time*** 10:30 AM

Checked by: JES /SEH | 1:30 PM | End Barometric Pressure 29.61 | Weather: 83 Degrees F, SW 9 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 | -2.0 | 224.9 | 63.7 | 47.6 | 31.4 | 1.1 | | | | | | | | - | - | |
| Flare End (781) | 100 | 100 | -1.9 | 195.3 | 63.9 | 48.0 | 31.3 | 1.0 | | | | | | | | - | - | |
| GW-1 (800) | 3% | 3% | | 2 | 62.0 | 18.6 | 10.1 | 0.8 | 806.5 | 791.6 | 37.6 | 768.9 | 23.5 | 0 | **97%** | -0.09 | 0.004 | |
| GW-2(803) | 3% | 3% | | 1 | 60.0 | 18.5 | 8.4 | 0.5 | 802.3 | 786.8 | 38.4 | 763.9 | 23.5 | 0 | **97%** | -0.06 | 0.010 | |
| GW-3 (806) | 5% | 5% | | 3 | 66.0 | 17.9 | 10.6 | 0.2 | 797.4 | 781.6 | 38.6 | 758.8 | 23.5 | 0 | **97%** | -0.13 | 0.012 | |
| GW-4 (809) | 3% | 3% | | 2 | 62.0 | 22.1 | 12.5 | 0.4 | 801.3 | 785.3 | 37.1 | 764.2 | 21.5 | 0 | **98%** | -0.10 | 0.008 | |
| GW-5 (812) | 5% | 5% | | 3 | 61.0 | 15.4 | 14.2 | 0.1 | 804.7 | 789.4 | 39.5 | 765.2 | 24.5 | 0 | **99%** | -0.14 | 0.016 | |
| GW-6 (815) | 5% | 5% | | 2 | 63.0 | 13.0 | 11.6 | 0.7 | 811.6 | 797 | 41 | 770.6 | 29 | 0 | **91%** | -0.13 | 0.014 | |
| GW-7 (818) | 3% | 3% | | 2 | 59.0 | 13.8 | 12.8 | 0.9 | 813.5 | 799 | 38.2 | 775.3 | 27 | 0 | **88%** | -0.07 | 0.011 | |
| GW-8 (821) | 5% | 5% | | 4 | 70.0 | 29.9 | 12.4 | 2.1 | 824.9 | 811 | 45 | 779.9 | 33 | 0 | **94%** | -0.14 | 0.021 | |
| GW-9 (824) | 50% | 50% | | 12 | 66.0 | 54.2 | 17.9 | 0.3 | 860.1 | 838 | 75.3 | 784.8 | 67 | 0 | **79%** | -1.54 | 0.062 | |
| GW-10 (827) | 80% | 80% | | 15 | 64.0 | 50.1 | 20.3 | 3.3 | 853.7 | 835.6 | 58.9 | 794.8 | 53 | 0 | **77%** | -1.91 | 0.088 | |
| GW-11 (865) | 30% | 30% | | 9 | 65.0 | 48.0 | 23.1 | 0.4 | 855.8 | 833.1 | 78.8 | 776.99 | 56.5 | 0 | **99%** | -1.04 | 0.058 | |
| GW-12 (831) | 20% | 20% | | 8 | 67.0 | 40.4 | 22.3 | 0.2 | 897.3 | 881.0 | 65.0 | 832.3 | 50.0 | 0 | **98%** | -0.48 | 0.046 | |
| GW-13 (830) | 60% | 60% | | 16 | 66.0 | 63.3 | 20.1 | 0.2 | 855.2 | 836.5 | 62.2 | 793.0 | 53.0 | 0 | **82%** | -1.38 | 0.072 | |
| GW-14 (833) | 100% | 100% | | 19 | 75.0 | 64.7 | 28.4 | 0.1 | 833.1 | 816.1 | 50.3 | 782.8 | 41.8 | 76.5 | **80%** | -1.84 | 0.105 | |
| GW-15 (836) | 100% | 100% | | 20 | 78.0 | 66.3 | 26.3 | 0.0 | 847.7 | 833.4 | 46.5 | 801.2 | 38.0 | 429.5 | **85%** | -1.73 | 0.111 | |
| GW-16 (839) | 100% | 100% | | 18 | 62.0 | 65.0 | 28.9 | 0.2 | 851.5 | 835.8 | 49.9 | 801.6 | 36.8 | 4.5 | **93%** | -1.70 | 0.107 | |
| GW-17 (842) | 100% | 100% | | 16 | 70.0 | 61.8 | 33.3 | 0.0 | 882.2 | 856.0 | 91.2 | 791.0 | 79.0 | 347 | **82%** | -1.85 | 0.096 | |
| GW-19 (841) | 25% | 25% | | 8 | 69.0 | 41.1 | 20.0 | 0.5 | 905.97 | 889.8 | 63.4 | 842.6 | 50.0 | 0 | **94%** | -0.49 | 0.051 | |
| GW-20 (867) | 20% | 20% | | 9 | 69.0 | 34.4 | 25.7 | 0.4 | 856.32 | 837.1 | 67.6 | 788.7 | 49.5 | 0 | **98%** | -0.44 | 0.047 | |
| GW-21 (869) | 20% | 20% | | 7 | 62.0 | 25.0 | 20.2 | 0.9 | 810.0 | 795.1 | 26.5 | 783.5 | 13.5 | 0 | **86%** | -0.37 | 0.033 | |
| GW-22 (871) | 15% | 15% | | 6 | 72.0 | 45.6 | 30.3 | 0.1 | 815.62 | 796.0 | 36.7 | 778.9 | 22.5 | 0 | **76%** | -0.34 | 0.029 | |
| GW-26 (843) | 10% | 10% | | 4 | 65.0 | 44.9 | 38.1 | 1.0 | 881.21 | 865.7 | 60.3 | 820.9 | 50.0 | 0 | **90%** | -0.25 | 0.024 | |
| GW-27 (844) | 15% | 25% | | 5 | 64.0 | 40.8 | 35.7 | 0.3 | 857.02 | 841.2 | 46.0 | 811.0 | 31.0 | 0 | **97%** | -0.28 | 0.022 | |
| GW-33 (873) | 5% | 15% | | 3 | 92.0 | 29.1 | 24.0 | 3.8 | 815.63 | 797.9 | 41.5 | 774.1 | 24.5 | 0 | **97%** | -0.14 | 0.008 | |

| | | | | | Temp | CH4 | CO2 | O2 | Static | Diff. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase VII (851) | 10% | 15% | | | 82.0 | 45.6 | 33.3 | 0.2 | -0.18 | 0.012 | |
| Phase V CO (847) | 20% | 20% | | | 56.0 | 31.0 | 16.7 | 2.2 | -0.27 | 0.022 | |
| Phase IV CO (845) | 20% | 20% | | | 60.0 | 26.9 | 18.1 | 2.6 | -0.29 | 0.030 | |
| STOC 1 (853) | 100% | 100% | | | 64.0 | 60.6 | 30.5 | 0.3 | -1.91 | 0.119 | |
| STOC 2 (855) | 60% | 40% | | | 62.0 | 27.7 | 11.8 | 0.8 | -1.22 | 0.087 | |
| STOC 3 (857) | 10% | 10% | | | 59.0 | 23.5 | 12 | 3.1 | -0.26 | 0.015 | |
| STOC 8 (854) | 40% | 65% | | | 74.0 | 48.4 | 32.1 | 0.2 | -0.52 | 0.061 | |
| STOC 9 (856) | 5% | 30% | | | 61.0 | 27.3 | 22.0 | 1.8 | -0.12 | 0.005 | |
| STOC 10 | 30% | 40% | | | 89.0 | 50.9 | 35.7 | 0.1 | -0.44 | 0.052 | |
| STOC 11 | 20% | 35% | | | 83.0 | 44.5 | 29.5 | 0.2 | -0.16 | 0.021 | |
| Phase VI-E (849) | 5% | 5% | | | 67.0 | 23.0 | 15.3 | 3.6 | -0.11 | 0.013 | |
| STOC 12A | 50% | 50% | | | 74.0 | 54.8 | 28.5 | 0.5 | -0.85 | 0.066 | |
| STOC 13 (879) | 5% | 5% | | | 59.0 | 20.2 | 15.4 | 4.1 | -0.10 | 0.009 | |
| STOC 14 (881) | 5% | 5% | | | 62.0 | 32.7 | 19.0 | 2.5 | -0.14 | 0.012 | |
| STOC 15 (883) | 3% | 3% | | | 62.0 | 14.2 | 15.9 | 3.2 | -0.11 | 0.005 | |
| STOC 16 | 15% | 15% | | | 63.0 | 40.5 | 22.5 | 0.3 | -0.27 | 0.023 | |

| Well # | Start | End | Gallons |
|---|---|---|---|
| 14 | 184753 | 184906 | 76.5 |
| 15 | 263843 | 264702 | 429.5 |
| 16 | 296005 | 296014 | 4.5 |
| 17 | 473001 | 473695 | 347 |

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 2025**

**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: 10/22/25
Checked by: Jadd Stilwell Date: 10/22/25

# 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 2025

Page 1

Taken by: JES | ***Date*** 11/19/2025 | Start Barometric Pressure 29.51 | Weather: 36 Degrees F, SSW 8 MPH,Cloudy

***Time*** 12:00 PM

Checked by: JES /SEH | 2:00 PM | End Barometric Pressure 29.47 | Weather: 40 Degrees F, SSW 6 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 | -2.4 | 262.8 | 58.3 | 40.5 | 27.9 | 1.6 | | | | | | | | - | - | |
| Flare End (781) | 100 | 100 | -2.2 | 255.6 | 58.3 | 41.6 | 28.3 | 1.3 | | | | | | | | - | - | |
| GW-1 (800) | 3% | 3% | | 1 | 42.5 | 18.4 | 7.1 | 0.3 | 806.5 | 791.6 | 37.1 | 769.4 | 23.5 | 0 | **94%** | -0.07 | 0.004 | |
| GW-2(803) | 3% | 3% | | 2 | 42.0 | 19.9 | 5.6 | 0.2 | 802.3 | 786.8 | 38 | 764.3 | 23.5 | 0 | **96%** | -0.05 | 0.009 | |
| GW-3 (806) | 5% | 5% | | 4 | 61.0 | 20.1 | 10.1 | 0.3 | 797.4 | 781.6 | 38.7 | 758.7 | 23.5 | 0 | **97%** | -0.17 | 0.012 | |
| GW-4 (809) | 3% | 3% | | 2 | 49.0 | 26.3 | 10.9 | 0.2 | 801.3 | 785.3 | 37.2 | 764.1 | 21.5 | 0 | **99%** | -0.11 | 0.013 | |
| GW-5 (812) | 5% | 5% | | 2 | 56.0 | 17.6 | 16.2 | 0.2 | 804.7 | 789.4 | 39.4 | 765.3 | 24.5 | 0 | **98%** | -0.17 | 0.005 | |
| GW-6 (815) | 5% | 5% | | 4 | 47.0 | 13.5 | 13.1 | 0.9 | 811.6 | 797 | 41.8 | 769.8 | 29 | 0 | **94%** | -0.15 | 0.008 | |
| GW-7 (818) | 3% | 3% | | 3 | 42.0 | 11.8 | 13.0 | 1.1 | 813.5 | 799 | 38.3 | 775.2 | 27 | 0 | **88%** | -0.08 | 0.009 | |
| GW-8 (821) | 5% | 5% | | 4 | 67.0 | 36.8 | 13.8 | 2.9 | 824.9 | 811 | 44.8 | 780.1 | 33 | 0 | **94%** | -0.22 | 0.015 | |
| GW-9 (824) | 50% | 70% | | 10 | 52.0 | 67.0 | 17.8 | 0.1 | 860.1 | 838 | 75.5 | 784.6 | 67 | 0 | **80%** | -1.77 | 0.068 | |
| GW-10 (827) | 80% | 90% | | 14 | 56.0 | 61.0 | 14.9 | 3.5 | 853.7 | 835.6 | 58.8 | 794.9 | 53 | 0 | **77%** | -2.34 | 0.087 | |
| GW-11 (865) | 30% | 50% | | 11 | 64.0 | 50.9 | 28.4 | 0.1 | 855.8 | 833.1 | 78.7 | 777.09 | 56.5 | 0 | **99%** | -1.38 | 0.068 | |
| GW-12 (831) | 20% | 20% | | 9 | 61.0 | 37.8 | 23.2 | 0.1 | 897.3 | 881.0 | 61.2 | 836.1 | 50.0 | 0 | **90%** | -0.52 | 0.062 | |
| GW-13 (830) | 60% | 70% | | 15 | 60.0 | 78.0 | 21.9 | 0.1 | 855.2 | 836.5 | 62.0 | 793.2 | 53.0 | 0 | **82%** | -2.34 | 0.099 | |
| GW-14 (833) | 100% | 100% | | 21 | 74.0 | 67.0 | 32.2 | 0.2 | 833.1 | 816.1 | 50.3 | 782.8 | 41.8 | 576 | **80%** | -2.10 | 0.125 | |
| GW-15 (836) | 100% | 100% | | 19 | 80.0 | 69.2 | 30.7 | 0.1 | 847.7 | 833.4 | 46.8 | 800.9 | 38.0 | 1361 | **86%** | -2.17 | 0.092 | |
| GW-16 (839) | 100% | 100% | | 15 | 51.0 | 67.0 | 32.8 | 0.1 | 851.5 | 835.8 | 50.0 | 801.5 | 36.8 | 741 | **93%** | -2.22 | 0.107 | |
| GW-17 (842) | 100% | 100% | | 20 | 47.0 | 62.8 | 37.0 | 0.0 | 882.2 | 856.0 | 91.1 | 791.1 | 79.0 | 2066 | **82%** | -2.17 | 0.088 | |
| GW-19 (841) | 25% | 25% | | 7 | 67.0 | 27.8 | 18.6 | 0.6 | 905.97 | 889.8 | 63.2 | 842.8 | 50.0 | 0 | **94%** | -1.15 | 0.061 | |
| GW-20 (867) | 20% | 20% | | 11 | 68.0 | 35.5 | 32.7 | 0.1 | 856.32 | 837.1 | 67.8 | 788.5 | 49.5 | 0 | **98%** | -0.63 | 0.044 | |
| GW-21 (869) | 20% | 20% | | 8 | 45.0 | 25.3 | 22.2 | 0.1 | 810.0 | 795.1 | 26.7 | 783.3 | 13.5 | 0 | **87%** | -0.58 | 0.039 | |
| GW-22 (871) | 15% | 35% | | 10 | 70.0 | 53.1 | 48.3 | 0.0 | 815.62 | 796.0 | 36.5 | 779.1 | 22.5 | 0 | **75%** | -0.50 | 0.028 | |
| GW-26 (843) | 10% | 15% | | 7 | 62.0 | 47.8 | 47.0 | 1.1 | 881.21 | 865.7 | 60.0 | 821.2 | 50.0 | 0 | **89%** | -0.29 | 0.034 | |
| GW-27 (844) | 15% | 25% | | 8 | 56.0 | 53.9 | 40.4 | 0.1 | 857.02 | 841.2 | 46.2 | 810.8 | 31.0 | 0 | **98%** | -0.34 | 0.026 | |
| GW-33 (873) | 15% | 25% | | 3 | 91.0 | 30.2 | 25.0 | 4.1 | 815.63 | 797.9 | 41.5 | 774.1 | 24.5 | 0 | **97%** | -0.44 | 0.011 | |

| | | | | | Temp | CH4 | CO2 | O2 | Static | Diff. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase VII (851) | 15% | 30% | | | 81.0 | 52.9 | 42.3 | 0.2 | -0.36 | 0.011 | |
| Phase V CO (847) | 20% | 20% | | | 47.0 | 32.1 | 18.6 | 2.3 | -0.32 | 0.029 | |
| Phase IV CO (845) | 20% | 20% | | | 43.0 | 28.9 | 19.6 | 3.1 | -0.33 | 0.034 | |
| STOC 1 (853) | 100% | 100% | | | 46.0 | 63.7 | 36.2 | 0.1 | -2.58 | 0.112 | |
| STOC 2 (855) | 40% | 40% | | | 47.0 | 22.8 | 10.8 | 0.5 | -1.34 | 0.060 | |
| STOC 3 (857) | 10% | 10% | | | 40.0 | 17.3 | 11.1 | 3.7 | -0.22 | 0.025 | |
| STOC 8 (854) | 65% | 65% | | | 60.0 | 54.8 | 36.6 | 0.1 | -0.79 | 0.043 | |
| STOC 9 (856) | 30% | 30% | | | 46.0 | 28.5 | 22.9 | 2.7 | -0.39 | 0.020 | |
| STOC 10 | 40% | 40% | | | 88.0 | 54.4 | 38.3 | 0.1 | -0.75 | 0.066 | |
| STOC 11 | 35% | 35% | | | 82.0 | 53.3 | 37.5 | 0.1 | -0.51 | 0.062 | |
| Phase VI-E (849) | 5% | 5% | | | 52.0 | 22.9 | 15.1 | 3.8 | -0.18 | 0.031 | |
| STOC 12A | 50% | 50% | | | 67.0 | 55.1 | 28.7 | 0.3 | -1.38 | 0.072 | |
| STOC 13 (879) | 5% | 5% | | | 45.0 | 19.7 | 15.2 | 4.4 | -0.13 | 0.018 | |
| STOC 14 (881) | 5% | 5% | | | 48.0 | 30.3 | 19.1 | 2.2 | -0.10 | 0.012 | |
| STOC 15 (883) | 3% | 3% | | | 46.0 | 12.0 | 15.5 | 3.1 | -0.07 | 0.009 | |
| STOC 16 | 15% | 15% | | | 53.0 | 39.6 | 22.7 | 0.4 | -0.33 | 0.025 | |

| Well # | Start | End | Gallons |
|---|---|---|---|
| 14 | 184906 | 186058 | 576 |
| 15 | 264702 | 267424 | 1361 |
| 16 | 296014 | 297496 | 741 |
| 17 | 473695 | 477827 | 2066 |

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 2025**

**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: 11/19/25
Checked by: Jadd Stilwell Date: 11/19/25

# 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 2025

Page 1

Taken by: JES/JD | ***Date*** 12/1/2025 | Start Barometric Pressure 29.67 | Weather: 16 Degrees F, SSW 7 MPH Cloudy

***Time*** 7:00 AM

Checked by: JES /SEH | 9:50 PM | End Barometric Pressure 29.61 | Weather: 16 Degrees F,S 7 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 | -2.3 | 253.4 | 55.2 | 40.7 | 27.4 | 1.6 | | | | | | | | - | - | |
| Flare End (781) | 100 | 100 | -2.2 | 247.6 | 55.4 | 41.2 | 27.6 | 1.4 | | | | | | | | - | - | |
| GW-1 (800) | 3% | 3% | | 2 | 43.0 | 16.6 | 6.6 | 0.2 | 806.5 | 791.6 | 37.2 | 769.3 | 23.5 | 0 | **95%** | -0.07 | 0.007 | |
| GW-2(803) | 3% | 3% | | 2 | 41.0 | 17.0 | 4.8 | 0.3 | 802.3 | 786.8 | 38.1 | 764.2 | 23.5 | 0 | **96%** | -0.09 | 0.010 | |
| GW-3 (806) | 5% | 5% | | 1 | 58.0 | 19.8 | 10.7 | 0.5 | 797.4 | 781.6 | 38.5 | 758.9 | 23.5 | 0 | **97%** | -0.15 | 0.001 | |
| GW-4 (809) | 3% | 3% | | 2 | 50.0 | 24.4 | 11.0 | 0.2 | 801.3 | 785.3 | 37 | 764.3 | 21.5 | 0 | **98%** | -0.10 | 0.003 | |
| GW-5 (812) | 5% | 5% | | 3 | 55.0 | 16.4 | 15.7 | 0.4 | 804.7 | 789.4 | 39.3 | 765.4 | 24.5 | 0 | **98%** | -0.20 | 0.007 | |
| GW-6 (815) | 5% | 5% | | 3 | 45.0 | 13.9 | 13.4 | 1.1 | 811.6 | 797 | 41.7 | 769.9 | 29 | 0 | **93%** | -0.15 | 0.010 | |
| GW-7 (818) | 3% | 3% | | 2 | 41.0 | 10.5 | 13.1 | 1.5 | 813.5 | 799 | 38.3 | 775.2 | 27 | 0 | **88%** | -0.03 | 0.002 | |
| GW-8 (821) | 5% | 5% | | 5 | 66.0 | 36.3 | 12.9 | 3.0 | 824.9 | 811 | 44.5 | 780.4 | 33 | 0 | **93%** | -0.22 | 0.012 | |
| GW-9 (824) | 70% | 70% | | 12 | 53.0 | 48.6 | 16.7 | 0.4 | 860.1 | 838 | 75.5 | 784.6 | 67 | 0 | **80%** | -1.71 | 0.051 | |
| GW-10 (827) | 90% | 90% | | 18 | 58.0 | 52.2 | 15.0 | 2.8 | 853.7 | 835.6 | 58.7 | 795 | 53 | 0 | **77%** | -2.11 | 0.088 | |
| GW-11 (865) | 50% | 50% | | 12 | 62.0 | 48.1 | 25.5 | 0.8 | 855.8 | 833.1 | 78.6 | 777.19 | 56.5 | 0 | **99%** | -1.51 | 0.063 | |
| GW-12 (831) | 20% | 20% | | 7 | 59.0 | 35.3 | 22.2 | 0.2 | 897.3 | 881.0 | 61.3 | 836.0 | 50.0 | 0 | **90%** | -0.73 | 0.057 | |
| GW-13 (830) | 70% | 70% | | 16 | 63.0 | 71.1 | 21.6 | 0.5 | 855.2 | 836.5 | 62.4 | 792.8 | 53.0 | 0 | **82%** | -2.16 | 0.079 | |
| GW-14 (833) | 100% | 100% | | 21 | 72.0 | 66.0 | 30.9 | 0.3 | 833.1 | 816.1 | 50.3 | 782.8 | 41.8 | 347.5 | **80%** | -2.17 | 0.122 | |
| GW-15 (836) | 100% | 100% | | 19 | 76.0 | 67.2 | 31.1 | 0.3 | 847.7 | 833.4 | 46.7 | 801.0 | 38.0 | 285 | **85%** | -2.08 | 0.108 | |
| GW-16 (839) | 100% | 100% | | 23 | 48.0 | 63.8 | 31.5 | 0.1 | 851.5 | 835.8 | 49.9 | 801.6 | 36.8 | 173 | **93%** | -2.25 | 0.111 | |
| GW-17 (842) | 100% | 100% | | 18 | 46.0 | 60.9 | 34.2 | 0.7 | 882.2 | 856.0 | 91.4 | 790.8 | 79.0 | 209 | **83%** | -2.19 | 0.090 | |
| GW-19 (841) | 25% | 25% | | 9 | 69.0 | 27.1 | 18.6 | 0.5 | 905.97 | 889.8 | 63.3 | 842.7 | 50.0 | 0 | **94%** | -0.84 | 0.061 | |
| GW-20 (867) | 20% | 20% | | 7 | 68.0 | 34.1 | 29.6 | 0.4 | 856.32 | 837.1 | 67.7 | 788.6 | 49.5 | 0 | **98%** | -0.57 | 0.057 | |
| GW-21 (869) | 20% | 20% | | 6 | 44.0 | 22.3 | 22.0 | 0.6 | 810.0 | 795.1 | 26.5 | 783.5 | 13.5 | 0 | **86%** | -0.48 | 0.053 | |
| GW-22 (871) | 35% | 35% | | 9 | 77.0 | 47.6 | 43.7 | 0.9 | 815.62 | 796.0 | 36.6 | 779.0 | 22.5 | 0 | **75%** | -0.52 | 0.047 | |
| GW-26 (843) | 15% | 15% | | 5 | 64.0 | 46.5 | 44.4 | 1.2 | 881.21 | 865.7 | 60.0 | 821.2 | 50.0 | 0 | **89%** | -0.36 | 0.043 | |
| GW-27 (844) | 25% | 25% | | 7 | 58.0 | 52.1 | 39.3 | 0.2 | 857.02 | 841.2 | 46.2 | 810.8 | 31.0 | 0 | **98%** | -0.39 | 0.028 | |
| GW-33 (873) | 25% | 25% | | 6 | 97.0 | 28.4 | 22.7 | 3.9 | 815.63 | 797.9 | 41.4 | 774.2 | 24.5 | 0 | **97%** | -0.33 | 0.021 | |

| | | | | | Temp | CH4 | CO2 | O2 | Static | Diff. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase VII (851) | 10% | 10% | | | 77.0 | 50.5 | 39.3 | 0.4 | -0.18 | 0.012 | |
| Phase V CO (847) | 20% | 20% | | | 45.0 | 32.3 | 17.7 | 2.2 | -0.27 | 0.017 | |
| Phase IV CO (845) | 20% | 20% | | | 42.0 | 27.2 | 19.5 | 2.8 | -0.32 | 0.029 | |
| STOC 1 (853) | 100% | 100% | | | 47.0 | 61.6 | 35.7 | 0.4 | -2.07 | 0.113 | |
| STOC 2 (855) | 40% | 40% | | | 46.0 | 20.6 | 12.6 | 0.9 | -0.85 | 0.032 | |
| STOC 3 (857) | 10% | 10% | | | 41.0 | 16.4 | 11.4 | 3.4 | -0.25 | 0.015 | |
| STOC 8 (854) | 65% | 65% | | | 56.0 | 55.9 | 32.1 | 0.5 | -0.91 | 0.071 | |
| STOC 9 (856) | 30% | 30% | | | 44.0 | 30.6 | 21.9 | 2.2 | -0.42 | 0.034 | |
| STOC 10 | 40% | 40% | | | 89.0 | 50.9 | 38.8 | 0.4 | -0.48 | 0.055 | |
| STOC 11 | 35% | 35% | | | 78.0 | 49.1 | 36.9 | 0.3 | -0.25 | 0.038 | |
| Phase VI-E (849) | 5% | 5% | | | 51.0 | 21.0 | 15.3 | 4.0 | -0.13 | 0.013 | |
| STOC 12A | 50% | 50% | | | 66.0 | 54.3 | 28.8 | 0.5 | -1.14 | 0.056 | |
| STOC 13 (879) | 5% | 5% | | | 43.0 | 18.2 | 15.4 | 4.1 | -0.20 | 0.017 | |
| STOC 14 (881) | 5% | 5% | | | 47.0 | 30.1 | 19.0 | 2.4 | -0.13 | 0.011 | |
| STOC 15 (883) | 3% | 3% | | | 44.0 | 11.8 | 15.5 | 3.4 | -0.09 | 0.010 | |
| STOC 16 | 15% | 15% | | | 56.0 | 39.3 | 22.4 | 0.5 | -0.27 | 0.018 | |

| Well # | Start | End | Gallons |
|---|---|---|---|
| 14 | 186058 | 186753 | 347.5 |
| 15 | 267424 | 267994 | 285 |
| 16 | 297496 | 297842 | 173 |
| 17 | 477827 | 478245 | 209 |

Cycle = .5 gallons

`

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# Air Permit 05-MHR-210 Compliance Demonstration

## Closed and Active Landfills

**Monthly Gas Well Deviation Report[1]** **December 2025**

**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: 12/1/25
Checked by: Jadd Stilwell Date: 12/1/25

# 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 | 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.

**Attachment C**
**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

2025 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 (2022-2025) | Significance | Cause |
|---|---|---|---|---|---|---|---|---|---|
| MW-3 (006) | 5/3/2025 | Chloride, Dissolved | 137 mg/L | 125 mg/L | 130 mg/L | Remain an Exceedance | Decreasing | Significantly decreasing since Fall 2024 | Downgradient of former unlined LF |
| MW-3A (032) | 5/3/2025 | Specific Conductivity | 1586 umhos/cm | 1400 umhos/cm | -- | Exceeds | Slightly Increasing | Decreasing since Fall 2023 | Downgradient of former unlined LF |
| | 11/3/2025 | | 1515 umhos/cm | | | | | | |
| | 5/3/2025 | Chloride, Dissolved | 165 mg/L | 125 mg/L | -- | Exceeds | Slightly Increasing | Decreasing since Spring 2024 | |
| | 11/2/2025 | | 141 mg/L | | | | | | |
| MW-20 (039) | 5/3/2025 | Tetrachloroethene | 1.6 ug/L | 0.5 ug/L | -- | Exceeds | Decreasing | -- | Downgradient of former unlined LF |
| MW-20A (072) | 5/3/2025 | Specific Conductivity | 1099 umhos/cm | 950 umhos/cm | -- | Exceeds | Decreasing | Decreasing | Downgradient of former unlined LF |
| | | Hardness, Dissolved | 606 mg/L | 503 mg/L | -- | Exceeds | Decreasing | -- | |
| | | 1,2-Dichloropropane | 0.89 ug/L | 0.5 ug/L | -- | Exceeds | Slightly Increasing | Lowest Concentration Since 2022 | |
| | | Benzene | 1.5 ug/L | 0.5 ug/L | -- | Exceeds | Seasonably Stable | Decreasing since Spring 2024 | |
| | | Tetrahydrofuran | 25.2 ug/L | 10 ug/L | -- | Exceeds | Fluctuating periods of increasing and decrease | Lowest concetration since May 2013 | |
| | | Trichloroethene | 3.3 ug/L | 0.5 ug/L | -- | Exceeds | Generally Decreasing | Slight increase since Spring 2024 | |
| | | Vinyl chloride | 0.91 ug/L | 0.02 ug/L | -- | Exceeds | Slight Increasing | General decreasing since May 2020 | |
| MW-24 (040) | 5/2/2025 | Lead, Dissolved | 7.3 ug/L | 1.5 ug/L | -- | Exceeds | Typically Undetected | Hasn't been detected since Fall 2002 | Downgradient of former unlined LF |
| MW-32 (043) | 5/3/2025 | Specific Conductivity | 1145 umhos/cm | 970 umhos/cm | -- | Exceeds | Slightly Increasing | Slightly increasing since May 2024 | Downgradient of former unlined LF |
| | 11/3/2025 | | 1253 umhos/cm | | | | | | |
| | 5/3/2025 | Alkalinity, Dissolved | 600 mg/L | 490 mg/L | -- | Exceeds | Generally stable | Generally decreasing since Spring 2023 | |
| | 11/3/2025 | | 606 mg/L | | | | | | |
| | 5/3/2025 | Hardness, Dissolved | 699 mg/L | 500 mg/L | -- | Exceeds | Decreasing | Generally Decreasing | |
| | 11/3/2025 | | 578 mg/L | | | | | | |
| MW-32 (043) DUP | 5/3/2025 | Alkalinity, Dissolved | 606 mg/L | 490 mg/L | -- | Exceeds | Generally stable | Generally decreasing since Spring 2023 | |
| MW-32P (044) | 5/3/2025 | Specific Conductivity | 1161 umhos/cm | 890 umhos/cm | -- | Exceeds | Slightly Decreasing | Stablizing | Downgradient of former unlined LF |
| | 11/3/2025 | | 1149 umhos/cm | | | | | | |
| | 5/3/2025 | Alkalinity, Dissolved | 547 mg/L | 510 mg/L | -- | Exceeds | Decreasing | Stablizing | |
| | 11/3/2025 | | 543 mg/L | | | | | | |
| | 5/3/2025 | Hardness, Dissolved | 678 mg/L | 490 mg/L | -- | Exceeds | Generally Decreasing | -- | |
| | 11/3/2025 | | 538 mg/L | | | | | | |
| MW-32P (044) DUP | 11/3/2025 | Alkalinity, Dissolved | 541 mg/L | 510 mg/L | -- | Exceeds | Decreasing | Stablizing | Downgradient of former unlined LF |
| | 11/3/2025 | Hardness, Dissolved | 557 mg/L | 490 mg/L | | Exceeds | Generally Decreasing | -- | |
| MW-33 (045) | 5/3/2025 | Specific Conductivity | 795.4 umhos/cm | 760 umhos/cm | -- | Exceeds | Slightly Increasing | Generally decreasing since Spring 2023 | Downgradient of former unlined LF |
| | 11/3/2025 | | 773 umhos/cm | | | | | | |
| | 5/3/2025 | Hardness, Dissolved | 452 umhos/cm | 420 mg/L | -- | Exceeds | Slightly Increasing | -- | |
| MW-33P (046) | 5/3/2025 | Chloride, Dissolved | 170 mg/L | 125 mg/L | -- | Exceeds | Increasing | -- | Downgradient of former unlined LF |
| | 11/3/2025 | | 167 mg/L | | | | | | |
| | 5/3/2025 | Specific Conductivity | 1504 umhos/cm | 1300 umhos/cm | -- | Exceeds | Generally Increasing | -- | |
| | 11/3/2025 | | 1344 umhos/cm | | | | | | |
| | 5/3/2025 | Tetrahydrofuran | 13.8 ug/L | 10 ug/L | -- | Exceeds | Generally Increasing | Highest Concentration in May 2025 | |
| | 5/3/2025 | Hardness, Dissolved | 736 mg/L | 640 mg/L | | Exceeds | Generally Increasing | November 2025: first decrease in two years | |
| MW-42R (052) | 11/3/2025 | Trichloroethene | 0.75 ug/L | 0.5 ug/L | -- | Exceeds | Seasonably Stable | -- | Downgradient of former unlined LF |
| MW-42P (051) | 5/3/2025 | Sulfate, Dissolved | 132 mg/l | 125 mg/L | -- | Exceeds | Consistently Decresaing | Undetected in most recent sampling | Downgradient of former unlined LF |
| MW-54 (092) | 5/2/2025 | Boron, Dissolved | 206 ug/L | 200 ug/L | 1000 ug/L | No longer an exceedance | Generally Decreasing | Consistently decreasing since Spring 2023 | Proximity to the unlined C&D LF and/ or naturally occuring fluctuations in the aquifer |
| MW-54A (094) | 11/2/2025 | Specific Conductivity | 927 umhos/cm | 900 umhos/cm | -- | Exceeds | Generally Decreasing | Appears stabilized since Spring 2024 | Proximity to the unlined C&D LF and/ or naturally occuring fluctuations in the aquifer |
| | | Hardness, Dissolved | 482 mg/L | 460 mg/L | -- | Exceeds | Slightly decreasing | Stabilized (anaomly Fall 2023) | |
| | | Sulfate, Dissolved | 148 mg/L | 125 mg/L | -- | Exceeds | Generally Decreasing | Only sampled in Fall 2023 through Fall 2025 | |
| MW-55B (025) | 5/3/2025 | Specific Conductivity | 1433 umhos/cm | 810 umhos/cm | -- | Exceeds | Silghtly Decreasing | -- | Downgradient of former unlined LF |
| | 11/3/2025 | | 1431 umhos/cm | | | | | | |
| | 5/3/2025 | Alkalinity, Dissolved | 594 mg/L | 440 mg/L | -- | Exceeds | Generally Decreasing | Staiblized since Spring 2023 | |
| | 11/3/2025 | | 577 mg/L | | | | | | |
| | 5/3/2025 | Hardness, Dissolved | 815 mg/L | 430 mg/L | -- | Exceeds | Slightly Decreasing | -- | |
| | 11/3/2025 | | 638 mg/L | | | | | | |
| | 5/3/2025 | Chloride, Dissolved | 148 mg/L | 125 mg/L | -- | Exceeds | Decreasing | -- | |
| | 11/3/2025 | | 142 mg/L | | | | | | |

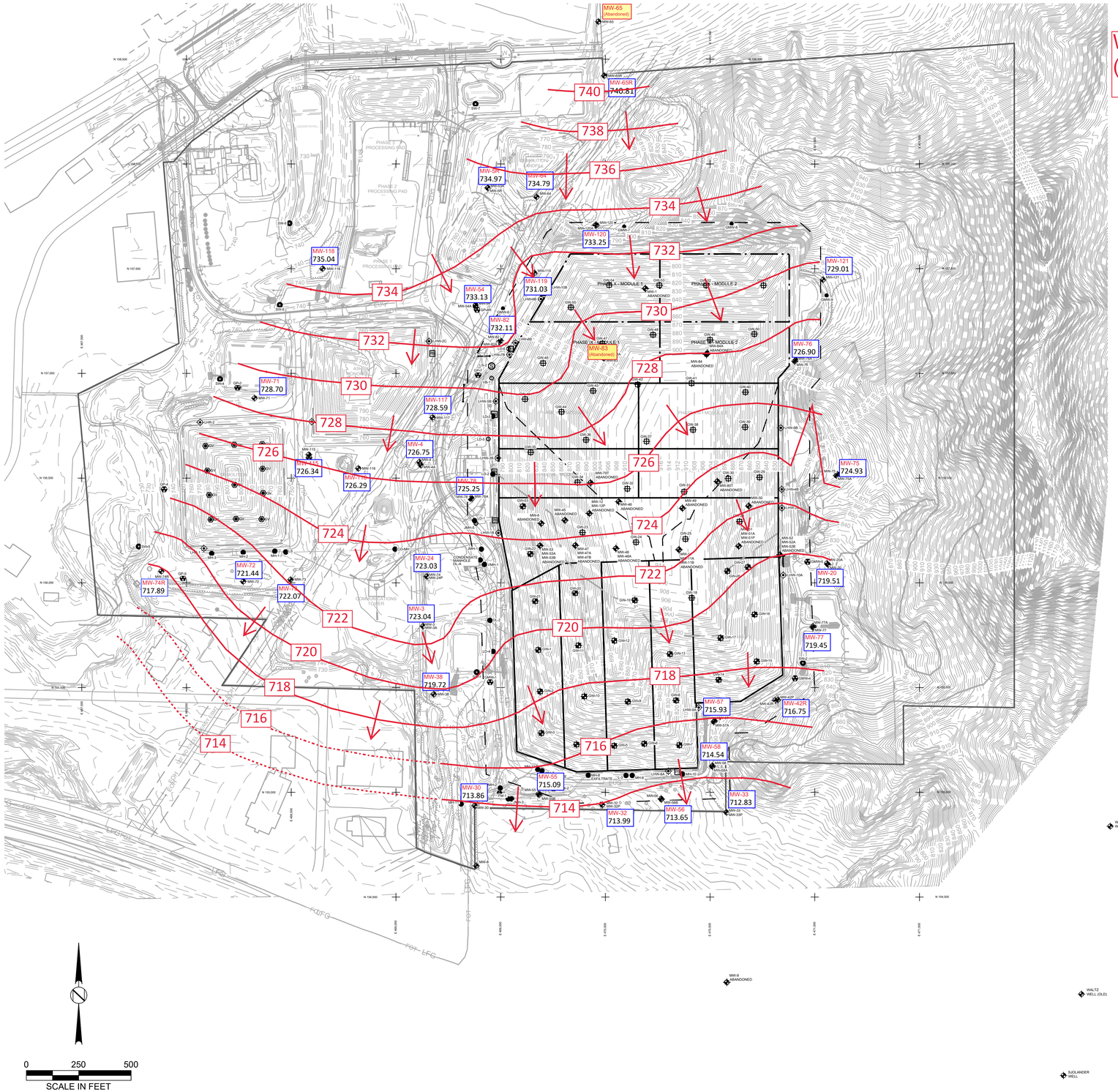
2025 Exceedance and Trend Summary
La Crosse County Solid Waste
WDNR Lic. No. 3253

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| MW-56 (026) | 5/3/2025 | Specific Conductivity | 1098 umhos/cm | 860 umhos/cm | -- | Exceeds | Stable | -- | Downgradient of former unlined LF |
| | 11/3/2025 | | 1089 umhos/cm | | | | | | |
| | 5/3/2025 | Alkalinity, Dissolved | 553 mg/L | 470 mg/L | -- | Exceeds | Stable | -- | |
| | 11/3/2025 | | 569 mg/L | | | | | | |
| | 5/3/2025 | Hardness, Dissolved | 662 mg/L | 470 mg/L | -- | Exceeds | Slightly Increasing | Significant Decreasing in most recent sampling | |
| | 11/3/2025 | | 563 mg/L | | | | | | |
| MW-56B (027) | 5/3/2025 | Specific Conductivity | 915.6 umhos/cm | 700 umhos/cm | -- | Exceeds | Slightly Decreasing | Stabilized since Spring 2024 | Downgradient of former unlined LF |
| | 11/3/2025 | | 945 umhos/cm | | | | | | |
| | 5/3/2025 | Alkalinity, Dissolved | 413 mg/L | 390 mg/L | -- | Exceeds | Slightly Decreasing | Stabilized since Fall 2022 | |
| | 11/3/2025 | | 411 mgL | | | | | | |
| | 5/3/2025 | Hardness, Dissolved | 481 mg/L | 380 mg/L | -- | Exceeds | Slightly Increasing | Significant decreasing in most recent sampling event | |
| | 11/3/2025 | | 390 mg/L | | | | | | |
| | 5/3/2025 | Benzene | 0.89 ug/L | 0.5 ug/L | -- | Exceeds | Increasing | -- | |
| MW-57A (068) | 5/3/2025 | Chloride, Dissolved | 126 mg/L | 125 mg/L | 250 mg/L | No longer an exceedance | Slightly Decreasing | -- | Downgradient of former unlined LF |
| | | Tetrachloroethene | 1.1 ug/L | 0.5 ug/L | -- | Exceeds | Increasing | Not typically detected | |
| | 11/3/2025 | Sulfate, Dissolved | 165 mg/L | 125 mg/L | -- | Exceeds | Insufficent Data | Only 2.5 years of data | |
| MW-58 (069) | 5/3/2025 | Specific Conductivity | 714.4 umhos/cm | 580 umhos/cm | -- | Exceeds | Generally Decreasing | Stable since Spring 2024 | Downgradient of former unlined LF |
| | 11/3/2025 | | 714 umhos/cm | | | | | | |
| | 5/3/2025 | Hardness, Dissolved | 397 mg/L | 320 mg/L | -- | Exceeds | Generally Increasing | Signficant Decline in most recent sampling | |
| | 11/3/2025 | Alkalinity, Dissolved | 342 mg/L | 320 mg/L | -- | Exceeds | Slightly Increasing | No exceedance in May 2025 | |
| MW-58A (070) | 5/3/2025 | Specific Conductivity | 1530 umhos/cm | 1100 umhos/cm | -- | Exceeds | Seasonably Stable | -- | Downgradient of former unlined LF |
| | 11/3/2025 | | 1575 umhos/cm | | | | | | |
| | 5/3/2025 | Alkalinity, Dissolved | 568 mg/L | 540 mg/L | -- | Exceeds | Slightly Increasing | Significant Increase in Fall 2025 | |
| | 11/3/2025 | | 674 mg/L | | | | | | |
| | 5/3/2025 | Hardness, Dissolved | 766 mg/L | 600 mg/L | -- | Exceeds | Mostly Stable | Signficiant Decrease from Spring 2025 to Fall 2025 (most recent) | |
| | 11/3/2025 | | 628 mg/L | | | | | | |
| MW-64 (073) | 5/2/2025 | Boron, Dissolved | 800 ug/L | 200 ug/L | 5000 ug/L | No longer an exceedance | Decreasing | No samples collected for 2022, and Spring 2023. Consistently decreasing since Fall 2023 | Proximity to the unlined C&D LF and/ or naturally occuring fluctuations in the |
| | 11/1/2025 | | 815 ug/L | | | | | | |
| MW-75 (218) | 5/3/2025 | Tetrachloroethene | 6.6 ug/L | 0.5 ug/L | -- | Exceeds | Generally Decreasing | Signficantly decreasing every other year | Downgradient of former unlined LF |
| | | Trichloroethene | 3.7 ug/L | 0.5 ug/L | -- | Exceeds | Generally Decreasing | -- | |
| | | Vinyl Chloride | 0.48 ug/L | 0.02 ug/L | -- | Exceeds | Generally Decreasing | -- | |
| MW-75A (220) | 5/3/2025 | Benzene | 0.62 ug/L | 0.5 ug/L | -- | Exceeds | Generally Decreasing | -- | Downgradient of former unlined LF |
| | | Vinyl chloride | 0.4 ug/L | 0.02 ug/L | -- | Exceeds | Slightly Decreasing | Only detected in Spring 2022 and Fall 2025 | |
| MW-76 (222) | 5/2/2025 | Trichloroethene | 1.3 ug/L | 0.5 ug/L | -- | Exceeds | Slightly Decreasing | Significantly decreasing since Spring 2023 | Downgradient of former unlined LF |
| MW-77A (081) | 5/3/2025 | Benzene | 0.91 ug/L | 0.5 ug/L | -- | Exceeds | Slightly Increasing | -- | Downgradient of former unlined LF |
| | | Trichloroethene | 0.62 ug/L | 0.5 ug/L | -- | Exceeds | Slighly Increasing | -- | |
| MW-78 (096) | 5/2/2025 | Chloride, Dissolved | 226 mg/L | 125 mg/L | 780 mg/L | No longer an exceedance | Generally Increasing | Signficant Decrease in most recent sampling | Proximity to the unlined C&D LF and/ or naturally occuring fluctuations in the aquifer |
| | | Boron, Dissolved | 432 ug/L | 200 ug/L | -- | Exceeds | Insufficent Data | -- | |
| MW-82 (226) | 5/2/2025 | Boron, Dissolved | 860 ug/L | 200 ug/L | -- | Exceeds | Generally Decreasing | May 2025 result not typical | Proximity to the unlined C&D LF and/ or naturally occuring fluctuations in the aquifer |
| | | Sulfate, Dissolved | 126 mg/L | 125 mg/L | -- | Exceeds | Generally Increasing | Significant Decrease in most recent sampling event | |
| MW-82A (228) | 5/2/2025 | Tetrahydrofuran | 55.5 ug/L | 10 ug/L | -- | Exceeds | Increasing | Undetected in all four years except most recent sampling event | Proximity to the unlined C&D LF and/ or naturally occuring fluctuations in the aquifer |
| | 11/2/2025 | Boron, Dissolved | 902 ug/L | 200 ug/L | -- | Exceeds | Generally Decreasing | Steadily decreasing from Fall 2023 through Spring 2025. Not sampled in 2022 and Spring 2023. | |
| | | Sulfate, Dissolved | 181 ug/L | 125 ug/L | -- | Exceeds | Generally Decreasing | Steadily decreasing from Fall 2023 through Spring 2025. Not sampled in 2022 and Spring 2023. | |
| MW-118 (090) | 5/3/2025 | Specific Conductivity | 854 umhos/cm | 840 umhos/cm | -- | Exceeds | Decreasing | Decreasing | Proximity to the unlined C&D LF and/ or naturally occuring fluctuations in the aquifer |

E-3 – Groundwater Elevation Contour Map

PLOTTED: 8/8/2022 8:11:23 PM
MODIFIED: 8/8/2022 6:01:30 PM
USER: NPETERSON

# Water Table Contour Map (November 2025)




| Item | Frequency | Description of Activities |
|---|---|---|
| **Landfill Surface Care** | | |
| Site Inspection & Compliance Certification | Annual | Comprehensive inspection of the facility grounds including site access/security, final cover condition, monitoring points, storm water devices, landfill gas and leachate transfer systems. |
| Landfill Final Cover Maintenance | As Needed | Repair erosion as needed. Fillll low areas to maintain positive drainage. |
| Mowing | Annual or As Needed | Final cover and exterior areas as needed. |
| Access Road Maintenance | As Needed | Grading and snow removal. |
| Storm Water Control Structures | Annual | Remove sediment and debris as needed to maintain functionality. Repair erosion and replace components as needed. |
| Settlement | Every 5 Years | Via topographic and settlement hub survey |
| **Gas Extraction System** | | |
| Gas Well | Inspect During Monitoring Events | Inspect for cracked or broken wellheads, signs of flow restriction and air intrusion. Adjust valve settings as needed to improve system performance. Replace wellhead/well as needed. |
| Blower and Flare | Inspect During Monitoring Events | Provide maintanance of individual components in accordance with manufacturer recommendations |
| Gas System Performance | As Needed | Evaluate for potential blockages in gas piping due to reduced system performance. Televise piping if needed. |
| **Leachate Collection System** | | |
| Side Slope Riser Pump & Controls | Annual | Ensure pump and controls are functional. Perform maintenance in accordance with pump manufacturer recommendations. Repair/replace pumps and controls as needed. |
| Leachate Collection Pipe Cleaning | Annual | All leachate collection lines |
| Leachate Collection Pipe Televising | Every 5 Years | All leachate collection lines |
| **Monitoring Devices** | | |
| Groundwater Monitoring Wells, Gas Probes, Leachate Headwells | Annual | Inspect for damage to PVC casing and protective steel casing. Ensure devices are accessible and have caps/lids with locks. Repair/replace as needed. |
| **Reporting** | | |
| Annual Site Report | Annually | Include information and documentation of all above items and environmental monitoring results. |

LEGEND:

- GROUNDWATER MONITORING WELL
- PRIVATE WELL
- EXISTING MONITORING WELL OR PIEZOMETER TO BE ABANDONED
- EXISTING GAS MONITORING WELL
- EXISTING GAS EXTRACTION WELL
- PROPOSED GAS EXTRACTION WELL
- EXISTING GAS VENT
- PROPOSED GAS MONITORING WELL
- EXISTING LEACHATE HEAD WELL LOCATION
- PROPOSED LEACHATE HEAD WELL LOCATION
- EXISTING LEACHATE PUMP BUILDING LOCATION
- PROPOSED LEACHATE PUMP BUILDING
- EXISTING LEAK DETECTION MANHOLE
- PROPOSED LEAK DETECTION MANHOLE
- EXISTING SURFACE WATER SAMPLING POINT LOCATION
- PROPOSED DESIGN MANAGEMENT ZONE (DMZ)
- APPROXIMATE PROPERTY BOUNDARY
- EXISTING APPROVED WASTE LIMITS
- PROPOSED EXPANSION WASTE LIMITS
- VERTICAL EXPANSION LIMIT

| NO | DATE | BY | REMARKS |
|---|---|---|---|
| | 08/04/2022 | DRH | ISSUED FOR REVIEW |

REVISIONS

| DESIGNED | CHECKED |
|---|---|
| TTR | DRH |
| DRAWN | CHECKED |
| NRP | TTR |
| DATE | APPROVED |
| 08/04/2022 | DRH |

PLANS PREPARED BY:
SEH
329 JAY STREET
SUITE 301
LA CROSSE, WI 54601-4034
PHONE: 1.608.782.3161
www.sehinc.com

PLANS PREPARED FOR:
LA CROSSE SOLID WASTE DEPT
3200 BERLIN DRIVE
LA CROSSE, WI 54601

PROJECT/CONTRACT NO: LA CROSSE
SEH PROJECT NO: LACSW 165588
FILE NAME: LA165588_46

LA CROSSE COUNTY LANDFILL
PHASE 2 NORTH EXPANSION PLAN OF OPERATIONS
LA CROSSE, WISCONSIN

**LONG-TERM CARE PLAN**

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46 OF 46

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# E-4 – Environmental Monitoring Device Condition Report

**Monitoring Well, Gas Probe, Leachate/Lysimeter, and Leachate Head Well Condition Report - 2025**
**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 | Comments | 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 | New Lock | 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 | NO | 2121 | New Lock | 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 | | | | | Abandoned | |
| MW-83A | 231 | 3253 | YES | YES | YES | | | | | Abandoned | |
| 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 | | | | | Abandoned | |
| 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

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**Gas Probe Monitoring Data**
**2025**

| | |
|---|---|
| Date: | 2/25/2025 |
| Barometric Pressure | 28.98 |
| (MM of Mercury) Inches X | 25.4 |
| Barometric Trend | Steady |
| Weather Conditions | Sunny - Calm |

| Gas Probe ID | GP-4 | | GP-7 | GP-8 |
|---|---|---|---|---|
| DNR ID | 717 | 718 | 707 | 709 |
| Pressure (Inches of H20) | -0.21 | -0.21 | 0.00 | 0.01 |
| Methane Gas % | 0.0 | 0.0 | 0.00 | 0.0 |
| CO2 % | 0.1 | 0.1 | 1.0 | 4.6 |
| Oxygen % | 21.6 | 21.6 | 21.1 | 16.1 |
| Sample Depth | **12** | **60** | **12** | **12** |
| Sample Time | 9:40 AM | 9:45 AM | 10:15 AM | 10:35 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) | 0.42 | -0.03 | -0.02 | -0.03 | -0.04 |
| Methane Gas % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 0.1 | 4.1 | 5.1 | 2.6 | 3.4 |
| Oxygen % | 21.7 | 18.2 | 15.3 | 20.3 | 18.8 |
| Sample Depth | Top of Well | Top of Well | Top of Well | Top of Well | Top of Well |
| Sample Time | 10:45 AM | 10:50 AM | 10:38 AM | 11:00 AM | 10:55 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) | -0.03 | -0.03 | -0.10 | -0.19 | -0.34 |
| Methane Gas % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Oxygen % | 21.9 | 21.8 | 21.9 | 21.9 | 21.8 |
| Sample Depth | Top of Well | Top of Well | Top of Well | Top of Well | Top of Well |
| Sample Time | 10:12 AM | 10:08 AM | 10:04 AM | 9:58 AM | 9:55 AM |

| | |
|---|---|
| Sampled by | Bryce Gerke, Kirk Hackbarth, Jackie Davis and Jadd Stilwell |
| Comments | GP-7 was watered out, water removed sample taken. The lock for GMW- |

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**Gas Probe Monitoring Data**
**2025**

Date: 5/8/2025
Barometric Pressure (MM of Mercury) Inches X 25.4: Start - 29.44 and End - 29.44
Barometric Trend: Steady
Weather Conditions: Sunny / Windy

| Gas Probe ID | GP-4 | | GP-7 | GP-8 |
|---|---|---|---|---|
| DNR ID | 717 | 718 | 707 | 709 |
| Pressure (Inches of H20) | -0.32 | -0.32 | 0.00 | -0.06 |
| Methane Gas % | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 0.1 | 0.1 | 2.8 | 3.1 |
| Oxygen % | 21.3 | 21.4 | 20.6 | 16.9 |
| Sample Depth | **12** | **60** | **12** | **12** |
| Sample Time | 9:05 AM | 9:10 AM | 1:30 PM | 10:00 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) | -0.23 | -0.06 | -0.14 | -0.05 | -0.06 |
| Methane Gas % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 0.1 | 3.0 | 1.9 | 2.6 | 2.5 |
| Oxygen % | 21.1 | 17.9 | 15.8 | 18.4 | 18 |
| Sample Depth | Top of Well | Top of Well | Top of Well | Top of Well | Top of Well |
| Sample Time | 10:10 AM | 10:15 AM | 10:05 AM | 10:25 AM | 10:15 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) | -0.06 | -0.06 | -0.1 | -0.23 | -0.47 |
| Methane Gas % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| Oxygen % | 21.3 | 21.5 | 21.5 | 21.5 | 21.6 |
| Sample Depth | Top of Well | Top of Well | Top of Well | Top of Well | Top of Well |
| Sample Time | 9:45 AM | 9:40 AM | 9:35 AM | 9:30 AM | 9:25 AM |

Sampled by: John Warnecke, Kirk Hackbarth, Jackie Davis and Jadd Stilwell
Comments: GP-7 was watered out, water removed sample taked. GP-4 casing had se

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**Gas Probe Monitoring Data**
**2025**

Date: 8/12/2025
Barometric Pressure Start: 28.99 End: 29.13
(MM of Mercury) Inches X 25.4
Barometric Trend Increasing
Weather Conditions Partly Cloudy and Calm

| Gas Probe ID | GP-4 | | GP-7 | GP-8 |
|---|---|---|---|---|
| DNR ID | 717 | 718 | 707 | 709 |
| Pressure (Inches of H20) | -0.03 | -0.03 | 0.00 | 0.00 |
| Methane Gas % | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 3.4 | 3.4 | 3.1 | 7.5 |
| Oxygen % | 16.5 | 16.5 | 16.5 | 9.2 |
| Sample Depth | **12** | **60** | **12** | **12** |
| Sample Time | 10:05 AM | 10:10 AM | 10:40 AM | 10:45 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) | -0.01 | -0.01 | 0.00 | -0.01 | -0.01 |
| Methane Gas % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 1.8 | 4.2 | 5.1 | 4.9 | 4.6 |
| Oxygen % | 15.5 | 14.6 | 11.6 | 12.3 | 14.5 |
| Sample Depth | Top of Well | Top of Well | Top of Well | Top of Well | Top of Well |
| Sample Time | 10:55 AM | 11:00 AM | 10:49 AM | 11:15 AM | 11:05 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 | -0.02 | -0.04 | -0.10 |
| Methane Gas % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 2.7 | 2.2 | 1.4 | 1.6 | 2.5 |
| Oxygen % | 15.9 | 18.0 | 18.4 | 18.2 | 17.2 |
| Sample Depth | Top of Well | Top of Well | Top of Well | Top of Well | Top of Well |
| Sample Time | 10:38 AM | 10:35 AM | 10:30 AM | 10:25 AM | 10:20 AM |

Sampled by John Warnecke and Kirk Hackbarth
Comments

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# Gas Probe Monitoring Data
# 2025

| | |
|---|---|
| Date: | 11/13/2025 |
| Barometric Pressure | 29.33 |
| (MM of Mercury) Inches X | 25.4 |
| Barometric Trend | Steady |
| Weather Conditions | Partly Cloudy |

| Gas Probe ID | GP-4 | | GP-7 | GP-8 |
|---|---|---|---|---|
| DNR ID | 717 | 718 | 707 | 709 |
| Pressure (Inches of H20) | -0.03 | -0.03 | 0.10 | 0.14 |
| Methane Gas % | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 0.1 | 0.1 | 0.1 | 8.8 |
| Oxygen % | 21.4 | 21.4 | 21.9 | 11.8 |
| Sample Depth | **12** | **60** | **12** | **12** |
| Sample Time | 10:20 AM | 10:28 AM | 11:15 AM | 11:25 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) | 0.18 | 0.10 | 0.12 | 0.09 | 0.10 |
| Methane Gas % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 0.2 | 6.3 | 7.1 | 6.7 | 5.6 |
| Oxygen % | 21.8 | 16.2 | 12.2 | 16.8 | 16.8 |
| Sample Depth | Top of Well | Top of Well | Top of Well | Top of Well | Top of Well |
| Sample Time | 11:35 AM | 11:45 AM | 11:30 AM | 11:55 AM | 11:50 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) | 0.09 | 0.09 | 0.10 | 0.03 | -0.11 |
| Methane Gas % | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO2 % | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Oxygen % | 21.6 | 21.6 | 21.5 | 21.6 | 21.5 |
| Sample Depth | Top of Well | Top of Well | Top of Well | Top of Well | Top of Well |
| Sample Time | 11:05 AM | 11:00 AM | 10:55 AM | 10:45 AM | 10:35 AM |

| | |
|---|---|
| Sampled by | Bryce Gerke, Kirk Hackbarth |
| Comments | GP-7 - left bailer in casing. |

# 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 2025**
**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 | 7/7/2025 | 6 | 1415 | 800 | | Passed through without issue |
| CO 7B | CO 7A | 7/7/2025 | 6 | 1370 | 800 | | Passed through without issue |
| CO 6B | CO 6A | 7/7/2025 | 6 | 1352 | 800 | | Passed through without issue |
| CO 5A | CO 5C | 7/7/2025 | 6 | 975 | 800 | 550 | Passed through without issue |
| CO 5C | CO 5A | 7/7/2025 | 6 | 975 | 250 | 550 | Passed through without issue |
| CO 5G | CO 5D | 7/7/2025 | 6 | 705 | 600 | 550 | Passed through without issue |
| CO 5D | CO 5G | 7/7/2025 | 6 | 705 | 200 | 200 | Passed through without issue |
| CO 5L | MH-10 | 7/7/2025 | 6 | 455 | 500 | | Passed through without issue |
| CO 5B | CO 5F | 7/7/2025 | 6 | 450 | 450 | 450 | Passed through without issue |
| CO 4B | CO 4A | 7/7/2025 | 6 | 1070 | 650 | | Passed through without issue |
| MH-9, CO 3B | CO 3A | 7/7/2025 | 6 | 1092 | 600 | | Passed through without issue |
| MH-9, CO 3L | MH-10 | 7/7/2025 | 6 | 240 | 600 | | Passed through without issue |
| MH-8, CO 5E | JMH-3, CO 7E | 7/7/2025 | 6 | 458 | 550 | | Passed through without issue |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MH-8, CO 4E | CO 2E | 7/7/2025 | 6 | 1355 | 700 | | Passed through without issue |
| MH-8, CO 2B | CO 2A | 7/7/2025 | 6 | 1083 | 120 | | Hit blockage at 120'. Couldn't pass through pipe. |
| MH-7, CO 3E | CO 1E | 7/7/2025 | 6 | 1100 | 600 | | Passed through without issue |
| MH-13, CO 1C | CO 1B | 7/7/2025 | 6 | 1100 | 600 | | Passed through without issue |
| MH-13, CO 1D | CO 1A | 7/7/2025 | 6 | 1100 | 600 | | Passed through without issue |
| CO 1A | MH-13, CO 1D | 7/7/2025 | 6 | 1100 | 600 | | Passed through without issue |
| CO 1E | MH-7, CO 3E | 7/7/2025 | 6 | 1100 | 600 | | Passed through without issue |
| CO 2E | MH-8, CO 4E | 7/7/2025 | 6 | 1355 | 600 | | Passed through without issue |
| CO 1B | MH-13, CO 1C | 7/7/2025 | 6 | 1100 | 600 | | Passed through without issue |
| CO 6A | CO 6B | 7/7/2025 | 6 | 1352 | 700 | | Passed through without issue |
| LD-3 | JMH-1 | 7/7/2025 | 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 | 7/7/2025 | 6 | 1370 | 700 | | Passed through without issue |
| CO 8A | CO 8B | 7/7/2025 | 6 | 1415 | 750 | | Passed through without issue |
| CO 4A | CO 4B | 7/7/2025 | 6 | 1070 | 650 | | Passed through without issue |
| CO 3A | MH-9, CO 3B | 7/7/2025 | 6 | 1092 | 650 | | Passed through without issue |
| CO 2A | MH-8, CO 2B | 7/7/2025 | 6 | 1083 | 600 | | Hit blockage at 600' |
| CO 1F | MH 13 | 7/7/2025 | 6 | 205 | 190 | | Very heavy mineral buildup. Made it 190' with grenade. Jetted with rotator after. |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| JMH-3, CO 6E | MH 7 | 7/7/2025 | 6 | 265 | 265 | | Passed through without issue |
| JMH-3, CO 7E | MH 8 | 7/7/2025 | 6 | 402 | 410 | | Passed through without issue |
| JMH 4D | Through JMH 2 to CO 1F | 7/7/2025 | 6 | 50 | 60 | | Passed through without issue |
| JMH-1 | LD 4 | 7/7/2025 | 6 | 500 | 550 | | Passed through without issue |
| JMH 2, CO FM-1 | LD 4 | 7/7/2025 | 6 | 653 | 700 | | Passed through without issue |
| JMH 4B | Through MH-8 to MH-9 | 7/7/2025 | 6 | 458 | 500 | | Passed through without issue |
| JMH 4C | JMH 3 | 7/7/2025 | 8 | 100 | 100 | | Passed through without issue |
| FM 2 | JMH 4 | 7/7/2025 | 8 | 100 | 125 | | Passed through without issue |
| MH 11 | FM 2 | 7/7/2025 | 8 | 75 | 75 | | Passed through without issue |
| Load out Pad | JMH-4 | 7/7/2025 | 6 | 100 | 100 | | Passed through without issue |

**La Crosse County Landfill 2025**
**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) | Water Jet (ft) | Comments: |
|---|---|---|---|---|---|---|
| CO 3L | CO 2L | 7/7/2025 | 6 | 200 | 200 | Passed through without issue |
| CO 3A | CO 3B | 7/7/2025 | 6 | 635 | 500 | Passed through without issue |
| CO 2L | CO 1L | 7/7/2025 | 6 | 200 | 200 | Passed through without issue |
| CO 2A | CO 2B | 7/7/2025 | 6 | 635 | 500 | Passed through without issue |
| CO 1L | LS | 7/7/2025 | 6 | 65 | 75 | Passed through without issue |
| CO 1A | CO 1B | 7/7/2025 | 6 | 635 | 500 | Passed through without issue |
| CO 3B | CO 3A | 7/7/2025 | 6 | 635 | 250 | Passed through without issue |

**La Crosse County Landfill 2025**
**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) | Water Jet (ft) | TV Length (ft) | Comments: |
|---|---|---|---|---|---|---|---|
| CO 4B | CO 5B | 7/7/2025 | 6 | 575 | 575 | 178 m | Passed through without issue |
| CO 1B | CO 2B | 7/7/2025 | 6 | 460 | 460 | 475 | Passed through without issue |
| CO 3B | CO 6B | 7/7/2025 | 6 | 405 | 350 | 100 | Passed through without issue |
| CO 6B | CO 3B | 7/7/2025 | 6 | 405 | 250 | 415 | Passed through without issue |

# F-2 – Annual Manhole Inspections

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**Monthly Landfill Inspections**
**2025**

| Date | Capped Surface *Condition | MH Inspections | Scale Inspection | Others/ Comments |
|---|---|---|---|---|
| 1/28/2025 | BG/JW | BG/JW | BG/JW | |
| 2/24/2025 | BG/JW | BG/JW | BG/JW | |
| 3/28/2025 | BG/MG | BG/MG | BG/MG | |
| 4/22/2025 | BG/JW | BG/JW | BG/JW | |
| 5/8/2025 | BG/JW | BG/JW | BG/JW | |
| 6/19/2025 | BG/JW | BG/JW | BG/JW | |
| 7/23/2025 | BG/JW | BG/JW | BG/JW | |
| 8/13/2025 | BG/JW | BG/JW | BG/JW | |
| 9/24/2025 | BG/JW | BG/JW | BG/JW | |
| 10/8/2025 | JW | JW | JW | |
| 11/11/2025 | BG/JW | BG/JW | BG/JW | |
| 12/18/2025 | BG/JW | BG/JW | BG/JW | |

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**Annual Manhole Inspection**

5/8/2025

| | 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

Building a Better World for All of Us®

# MEMORANDUM

TO: Jadd Stilwell, Solid Waste Director
Jackie Davis, Operations Manager

FROM: Ryan Shimko, PE (Lic. GA, IN, KY, TN, WI)

DATE: February 20, 2026

RE: CY 2025 Annual Reporting for the RD&D Plan, Leachate Recirculation Plan, & Organic Stability Plan – La Crosse County Landfill (Lic. #3253)
SEH No. 189184

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)<br>NR 507.215(1) | Liquid Mass Balance | "Liquid Mass Balance Data"<br>Table G-1 & Figure G-1 |
| NR 506.135(5)(b)<br>NR 507.215(2) | Leachate Head Levels | "Monthly Leachate Head Levels"<br>Table G-2 |
| NR 506.135(5)(c) | Liquid Mass Balance Graphs | Figure G-1 |
| NR 506.135(5)(d)<br>NR 507.215(3) | Leachate chemistry data | "Leachate Quality Monitoring Data"<br>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)<br>NR 507.215(4)(a) | Landfill gas data<br>Assessment of liquid in each gas well | "Landfill Gas"<br>"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 2025, 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 2025, liquid application occurred mostly in Phase VIII with some liquid applied in Phase VII in May. 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 2025, leachate head elevations in these drainage basins were maintained at 1-foot or less except in Phase VI between July to November at LHW-1B (low end of Phase VI) where leachate head measurements ranged from 1.3-ft to 1.9-feet in depth. These slight exceedances in Phase VI are mostly due to higher rainfall experienced between April through July in CY2025. Rainfall depths experienced over these months can be seen in Table G-1. Leachate head levels returned to compliance in December.

### 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 plateauing with alkalinity decreasing since May 2022. VOC concentrations have been stable with less data fluctuation occurring since approximately 2019 compared to the initial years of liquids application. Implementation of the Household Hazardous Materials (HHM) facility and product reuse room have likely attributed to reduction and stabilization of VOCs in leachate. 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. Hardness appears to be on a recent increasing trend beginning in May of 2023. 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. STOCs 4, 5, 6, and 7 were abandoned in July 2025. 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 2025 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 2025. 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 2025 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 2028 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 2025.

### Leachate Collection and Conveyance System Modifications

No modifications to the leachate collection and conveyance system occurred in 2025.

## 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 3rd renewal for the RD&D Plan in February 2026. 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 2025. 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 2025, 86,298 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 63,853 tons of MSW converted to electricity. This accounts for approximately 50% 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 2025, approximately 200 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 2025, approximately 2,403 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 2025, the major waste streams continue to be MSW including Xcel reject material (31% Cat 1 and 15% Cat 31), C&D (25%), combustor ash residue (9%), 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 2025. 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 2025 – Phase VI
Figure G-1B Liquid Mass Balance for Calendar Year 2025 – Phase VII
Figure G-1C Liquid Mass Balance for Calendar Year 2025 – Phase VIII

Figure G-1D Liquid Mass Balance for Calendar Year 2025 – 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 2025

# Tables

**Table G-1**
**Liquid Mass Balance**
**2025 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-25 | 77,988 | 0 | 0 | 0.03 | 5,775 | 85,615 | 0 | 0 | 0.03 | 5,686 |
| Feb-25 | 76,621 | 0 | 0 | 0.69 | 132,832 | 57,998 | 0 | 0 | 0.69 | 130,771 |
| Mar-25 | 86,997 | 0 | 0 | 3.27 | 629,509 | 101,826 | 0 | 0 | 3.27 | 619,743 |
| Apr-25 | 67,144 | 0 | 0 | 5.2 | 1,001,055 | 116,330 | 0 | 0 | 5.2 | 985,524 |
| May-25 | 95,714 | 0 | 0 | 3.08 | 592,932 | 129,662 | 0 | 10,012 | 3.08 | 583,733 |
| Jun-25 | 141,425 | 0 | 0 | 6.27 | 1,207,041 | 159,471 | 0 | 0 | 6.27 | 1,188,314 |
| Jul-25 | 139,715 | 0 | 0 | 4.64 | 893,249 | 123,832 | 0 | 0 | 4.64 | 879,390 |
| Aug-25 | 136760 | 0 | 0 | 2.83 | 544,805 | 115,221 | 0 | 0 | 2.83 | 536,352 |
| Sep-25 | 122,996 | 0 | 0 | 3.72 | 716,139 | 115,692 | 0 | 0 | 3.72 | 705,028 |
| Oct-25 | 86,199 | 0 | 0 | 1.6 | 308,017 | 60,758 | 0 | 0 | 1.6 | 303,238 |
| Nov-25 | 93,454 | 0 | 0 | 1.18 | 227,162 | 76,683 | 0 | 0 | 1.18 | 223,638 |
| Dec-25 | 102,987 | 0 | 0 | 0.92 | 177,110 | 84,483 | 0 | 0 | 0.92 | 174,362 |
| **2025 Total** | **1,228,000** | **0** | **0** | **33.43** | **6,435,627** | **1,227,571** | **0** | **10,012** | **33.43** | **6,335,779** |

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**
**2025 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-25 | 129,979 | 0 | 0 | 0.03 | 7,804 | 293,582 | 0 | 0 | 0.03 | 19,265 |
| Feb-25 | 107,880 | 0 | 0 | 0.69 | 179,483 | 242,499 | 0 | 0 | 0.69 | 443,086 |
| Mar-25 | 218,743 | 0 | 0 | 3.27 | 850,592 | 407,566 | 0 | 0 | 3.27 | 2,099,844 |
| Apr-25 | 202,345 | 0 | 0 | 5.2 | 1,352,624 | 385,819 | 0 | 0 | 5.2 | 3,339,202 |
| May-25 | 229,587 | 0 | 0 | 3.08 | 801,170 | 454,963 | 0 | 10,012 | 3.08 | 1,977,835 |
| Jun-25 | 284,873 | 0 | 20,512 | 6.27 | 1,630,952 | 585,769 | 0 | 20,512 | 6.27 | 4,026,307 |
| Jul-25 | 290,973 | 0 | 0 | 4.64 | 1,206,957 | 554,520 | 0 | 0 | 4.64 | 2,979,596 |
| Aug-25 | 281,188 | 0 | 0 | 2.83 | 736,140 | 533,169 | 0 | 0 | 2.83 | 1,817,297 |
| Sep-25 | 243,033 | 0 | 0 | 3.72 | 967,646 | 481,721 | 0 | 0 | 3.72 | 2,388,814 |
| Oct-25 | 114,856 | 0 | 0 | 1.6 | 416,192 | 261,813 | 0 | 0 | 1.6 | 1,027,447 |
| Nov-25 | 137,160 | 0 | 19,116 | 1.18 | 306,942 | 307,297 | 0 | 19,116 | 1.18 | 757,742 |
| Dec-25 | 150,276 | 0 | 19,116 | 0.92 | 239,310 | 337,746 | 0 | 19,116 | 0.92 | 590,782 |
| **2025 Total** | **2,390,893** | **0** | **58,744** | **33.43** | **8,695,811** | **4,846,464** | **0** | **68,756** | **33.43** | **21,467,217** |

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**
**2025 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 | 1/28/2025 | 65 | 762.3 | **0.6** |
| #3253 / 671 LHW-2B | Phase VI - High End | 156,357 | 470,843 | 823.8 | 773.4 | 165 | 1/28/2025 | 165 | 773.4 | **0** |
| #3253 / 672 LHW-3B | Phase VII - Low End | 156,605 | 469,483 | 782.3 | 761.8 | 66 | 1/28/2025 | 66 | 761.8 | **0** |
| #3253 / 673 LHW-4B | Phase VII - High End | 156,446 | 470,834 | 821.8 | 773.3 | 154.7 | 1/28/2025 | 154.7 | 773.3 | **0** |
| #3253 / 674 LHW-5B | Phase VIII - Low End | 156,868 | 469,477 | 783.8 | 746.8 | 118.9 | 1/28/2025 | 118.9 | 746.8 | **0** |
| #3253 / 675 LHW-6B | Phase VIII - High End | 156,740 | 470,837 | 823.8 | 756.9 | 210.1 | 1/28/2025 | 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 | 2/25/2025 | 64.3 | 762.6 | **0.9** |
| #3253 / 671 LHW-2B | Phase VI - High End | 156,357 | 470,843 | 823.8 | 773.4 | 165 | 2/25/2025 | 165 | 773.4 | **0** |
| #3253 / 672 LHW-3B | Phase VII - Low End | 156,605 | 469,483 | 782.3 | 761.8 | 66 | 2/25/2025 | 66 | 761.8 | **0** |
| #3253 / 673 LHW-4B | Phase VII - High End | 156,446 | 470,834 | 821.8 | 773.3 | 154.7 | 2/25/2025 | 154.7 | 773.3 | **0** |
| #3253 / 674 LHW-5B | Phase VIII - Low End | 156,868 | 469,477 | 783.8 | 746.8 | 118.9 | 2/25/2025 | 118.9 | 746.8 | **0** |
| #3253 / 675 LHW-6B | Phase VIII - High End | 156,740 | 470,837 | 823.8 | 756.9 | 210.1 | 2/25/2025 | 210.1 | 756.9 | **0** |

**Table G-2**
**Monthly Leachate Headwell Measurements**
**2025 Annual Report**
**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 | 3/28/2025 | 65.3 | 762.2 | **0.5** |
| #3253 / 671 LHW-2B | Phase VI - High End | 156,357 | 470,843 | 823.8 | 773.4 | 165 | 3/28/2025 | 165 | 773.4 | **0** |
| #3253 / 672 LHW-3B | Phase VII - Low End | 156,605 | 469,483 | 782.3 | 761.8 | 66 | 3/28/2025 | 66 | 761.8 | **0** |
| #3253 / 673 LHW-4B | Phase VII - High End | 156,446 | 470,834 | 821.8 | 773.3 | 154.7 | 3/28/2025 | 154.7 | 773.3 | **0** |
| #3253 / 674 LHW-5B | Phase VIII - Low End | 156,868 | 469,477 | 783.8 | 746.8 | 118.9 | 3/28/2025 | 118.9 | 746.8 | **0** |
| #3253 / 675 LHW-6B | Phase VIII - High End | 156,740 | 470,837 | 823.8 | 756.9 | 210.1 | 3/28/2025 | 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 | 4/29/2025 | 64.1 | 762.6 | **0.9** |
| #3253 / 671 LHW-2B | Phase VI - High End | 156,357 | 470,843 | 823.8 | 773.4 | 165 | 4/29/2025 | 165 | 773.4 | **0.0** |
| #3253 / 672 LHW-3B | Phase VII - Low End | 156,605 | 469,483 | 782.3 | 761.8 | 66 | 4/29/2025 | 66 | 761.8 | **0** |
| #3253 / 673 LHW-4B | Phase VII - High End | 156,446 | 470,834 | 821.8 | 773.3 | 154.7 | 4/29/2025 | 154.7 | 773.3 | **0** |
| #3253 / 674 LHW-5B | Phase VIII - Low End | 156,868 | 469,477 | 783.8 | 746.8 | 118.9 | 4/29/2025 | 118.9 | 746.8 | **0** |
| #3253 / 675 LHW-6B | Phase VIII - High End | 156,740 | 470,837 | 823.8 | 756.9 | 210.1 | 4/29/2025 | 210.1 | 756.9 | **0** |

**Table G-2**
**Monthly Leachate Headwell Measurements**
**2025 Annual Report**
**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 | 5/8/2025 | 63.8 | 762.7 | **1.0** |
| #3253 / 671 LHW-2B | Phase VI - High End | 156,357 | 470,843 | 823.8 | 773.4 | 165 | 5/8/2025 | 165 | 773.4 | **0.0** |
| #3253 / 672 LHW-3B | Phase VII - Low End | 156,605 | 469,483 | 782.3 | 761.8 | 66 | 5/8/2025 | 66 | 761.8 | **0.0** |
| #3253 / 673 LHW-4B | Phase VII - High End | 156,446 | 470,834 | 821.8 | 773.3 | 154.7 | 5/8/2025 | 154.7 | 773.3 | **0.0** |
| #3253 / 674 LHW-5B | Phase VIII - Low End | 156,868 | 469,477 | 783.8 | 746.8 | 118.9 | 5/8/2025 | 118.9 | 746.8 | **0.0** |
| #3253 / 675 LHW-6B | Phase VIII - High End | 156,740 | 470,837 | 823.8 | 756.9 | 210.1 | 5/8/2025 | 210.1 | 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 | 6/19/2025 | 63.9 | 762.7 | **1.0** |
| #3253 / 671 LHW-2B | Phase VI - High End | 156,357 | 470,843 | 823.8 | 773.4 | 165 | 6/19/2025 | 165 | 773.4 | **0** |
| #3253 / 672 LHW-3B | Phase VII - Low End | 156,605 | 469,483 | 782.3 | 761.8 | 66 | 6/19/2025 | 66 | 761.8 | **0** |
| #3253 / 673 LHW-4B | Phase VII - High End | 156,446 | 470,834 | 821.8 | 773.3 | 154.7 | 6/19/2025 | 154.7 | 773.3 | **0** |
| #3253 / 674 LHW-5B | Phase VIII - Low End | 156,868 | 469,477 | 783.8 | 746.8 | 118.9 | 6/19/2025 | 118.9 | 746.8 | **0.0** |
| #3253 / 675 LHW-6B | Phase VIII - High End | 156,740 | 470,837 | 823.8 | 756.9 | 210.1 | 6/19/2025 | 210.1 | 756.9 | **0.0** |

**Table G-2**
**Monthly Leachate Headwell Measurements**
**2025 Annual Report**
**La Crosse County Landfill (Lic. #3253)**

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 | 7/23/2025 | 61 | 763.6 | **1.9** |
| #3253 / 671 LHW-2B | Phase VI - High End | 156,357 | 470,843 | 823.8 | 773.4 | 165 | 7/23/2025 | 165 | 773.4 | **0** |
| #3253 / 672 LHW-3B | Phase VII - Low End | 156,605 | 469,483 | 782.3 | 761.8 | 66 | 7/23/2025 | 66 | 761.8 | **0** |
| #3253 / 673 LHW-4B | Phase VII - High End | 156,446 | 470,834 | 821.8 | 773.3 | 154.7 | 7/23/2025 | 154.7 | 773.3 | **0** |
| #3253 / 674 LHW-5B | Phase VIII - Low End | 156,868 | 469,477 | 783.8 | 746.8 | 118.9 | 7/23/2025 | 118.9 | 746.8 | **0** |
| #3253 / 675 LHW-6B | Phase VIII - High End | 156,740 | 470,837 | 823.8 | 756.9 | 210.1 | 7/23/2025 | 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 | 8/13/2025 | 61 | 763.6 | **1.9** |
| #3253 / 671 LHW-2B | Phase VI - High End | 156,357 | 470,843 | 823.8 | 773.4 | 165 | 8/13/2025 | 165 | 773.4 | **0.0** |
| #3253 / 672 LHW-3B | Phase VII - Low End | 156,605 | 469,483 | 782.3 | 761.8 | 66 | 8/13/2025 | 66 | 761.8 | **0** |
| #3253 / 673 LHW-4B | Phase VII - High End | 156,446 | 470,834 | 821.8 | 773.3 | 154.7 | 8/13/2025 | 154.7 | 773.3 | **0** |
| #3253 / 674 LHW-5B | Phase VIII - Low End | 156,868 | 469,477 | 783.8 | 746.8 | 118.9 | 8/13/2025 | 118.9 | 746.8 | **0** |
| #3253 / 675 LHW-6B | Phase VIII - High End | 156,740 | 470,837 | 823.8 | 756.9 | 210.1 | 8/13/2025 | 210.1 | 756.9 | **0** |

**Table G-2**
**Monthly Leachate Headwell Measurements**
**2025 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 | 9/24/2025 | 61.5 | 763.4 | **1.7** |
| #3253 / 671 LHW-2B | Phase VI - High End | 156,357 | 470,843 | 823.8 | 773.4 | 165 | 9/24/2025 | 165 | 773.4 | **0** |
| #3253 / 672 LHW-3B | Phase VII - Low End | 156,605 | 469,483 | 782.3 | 761.8 | 66 | 9/24/2025 | 66 | 761.8 | **0** |
| #3253 / 673 LHW-4B | Phase VII - High End | 156,446 | 470,834 | 821.8 | 773.3 | 154.7 | 9/24/2025 | 154.7 | 773.3 | **0** |
| #3253 / 674 LHW-5B | Phase VIII - Low End | 156,868 | 469,477 | 783.8 | 746.8 | 118.9 | 9/24/2025 | 118.9 | 746.8 | **0.0** |
| #3253 / 675 LHW-6B | Phase VIII - High End | 156,740 | 470,837 | 823.8 | 756.9 | 210.1 | 9/24/2025 | 210.1 | 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 | 10/17/2025 | 62 | 763.3 | **1.6** |
| #3253 / 671 LHW-2B | Phase VI - High End | 156,357 | 470,843 | 823.8 | 773.4 | 165 | 10/17/2025 | 165 | 773.4 | **0** |
| #3253 / 672 LHW-3B | Phase VII - Low End | 156,605 | 469,483 | 782.3 | 761.8 | 66 | 10/17/2025 | 66 | 761.8 | **0** |
| #3253 / 673 LHW-4B | Phase VII - High End | 156,446 | 470,834 | 821.8 | 773.3 | 154.7 | 10/17/2025 | 154.7 | 773.3 | **0** |
| #3253 / 674 LHW-5B | Phase VIII - Low End | 156,868 | 469,477 | 783.8 | 746.8 | 118.9 | 10/17/2025 | 118.9 | 746.8 | **0** |
| #3253 / 675 LHW-6B | Phase VIII - High End | 156,740 | 470,837 | 823.8 | 756.9 | 210.1 | 10/17/2025 | 210.1 | 756.9 | **0.0** |

**Table G-2**
**Monthly Leachate Headwell Measurements**
**2025 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 | 11/12/2025 | 63 | 763.0 | **1.3** |
| #3253 / 671 LHW-2B | Phase VI - High End | 156,357 | 470,843 | 823.8 | 773.4 | 165 | 11/12/2025 | 165 | 773.4 | **0** |
| #3253 / 672 LHW-3B | Phase VII - Low End | 156,605 | 469,483 | 782.3 | 761.8 | 66 | 11/12/2025 | 66 | 761.8 | **0** |
| #3253 / 673 LHW-4B | Phase VII - High End | 156,446 | 470,834 | 821.8 | 773.3 | 154.7 | 11/12/2025 | 154.7 | 773.3 | **0** |
| #3253 / 674 LHW-5B | Phase VIII - Low End | 156,868 | 469,477 | 783.8 | 746.8 | 118.9 | 11/12/2025 | 118.9 | 746.8 | **0.0** |
| #3253 / 675 LHW-6B | Phase VIII - High End | 156,740 | 470,837 | 823.8 | 756.9 | 210.1 | 11/12/2025 | 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 | 12/18/2025 | 64 | 762.6 | **0.9** |
| #3253 / 671 LHW-2B | Phase VI - High End | 156,357 | 470,843 | 823.8 | 773.4 | 165 | 12/18/2025 | 165 | 773.4 | **0** |
| #3253 / 672 LHW-3B | Phase VII - Low End | 156,605 | 469,483 | 782.3 | 761.8 | 66 | 12/18/2025 | 66 | 761.8 | **0** |
| #3253 / 673 LHW-4B | Phase VII - High End | 156,446 | 470,834 | 821.8 | 773.3 | 154.7 | 12/18/2025 | 154.7 | 773.3 | **0** |
| #3253 / 674 LHW-5B | Phase VIII - Low End | 156,868 | 469,477 | 783.8 | 746.8 | 118.9 | 12/18/2025 | 118.9 | 746.8 | **0** |
| #3253 / 675 LHW-6B | Phase VIII - High End | 156,740 | 470,837 | 823.8 | 756.9 | 210.1 | 12/18/2025 | 210.1 | 756.9 | **0** |

**Table G-3**
**Leachate Application Summary**
**2025 Annual Report**
**La Crosse County Landfill (Lic. #3253)**

| 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<br>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<br>Phase VIII Module 1 |
| 2023 | 47,954 | 0 | 27.67 | Phase VIII Module 2 |
| 2024 | 10,549 | 0 | 37.62 | Phase VII Module 1 |
| 2025 | 68,756 | 0 | 33.43 | Phase VII and Phase VIII |
| **Total** | **2,917,848** | **0** | **368.42** | **--** |

# Table G-4
# Waste Composition
# 2025 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 | 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% |
| 2025 | 40,992 | 31% | 66 | 0% | 0 | 0% | 0 | 0% | 2,579 | 2% | 3,282 | 2% | 8,534 | 6% | 11,448 | 9% | 11,334 | 9% | 141 | 0% | 32,501 | 25% | 773 | 1% | 0 | 0% | 52 | 0.04% | 19,686 | 15% | 131,386 | 67,311 | 51% |
| **Average Last 3 Years** | **39,346** | **31%** | **81** | **0%** | **0** | **0%** | **0** | **0%** | **1,211** | **1%** | **5,319** | **4%** | **7,886** | **6%** | **10,530** | **8%** | **11,003** | **9%** | **743** | **1%** | **29,706** | **23%** | **697** | **1%** | **0** | **0%** | **59** | **0%** | **20,358** | **16%** | **126,940** | **66,931** | **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.

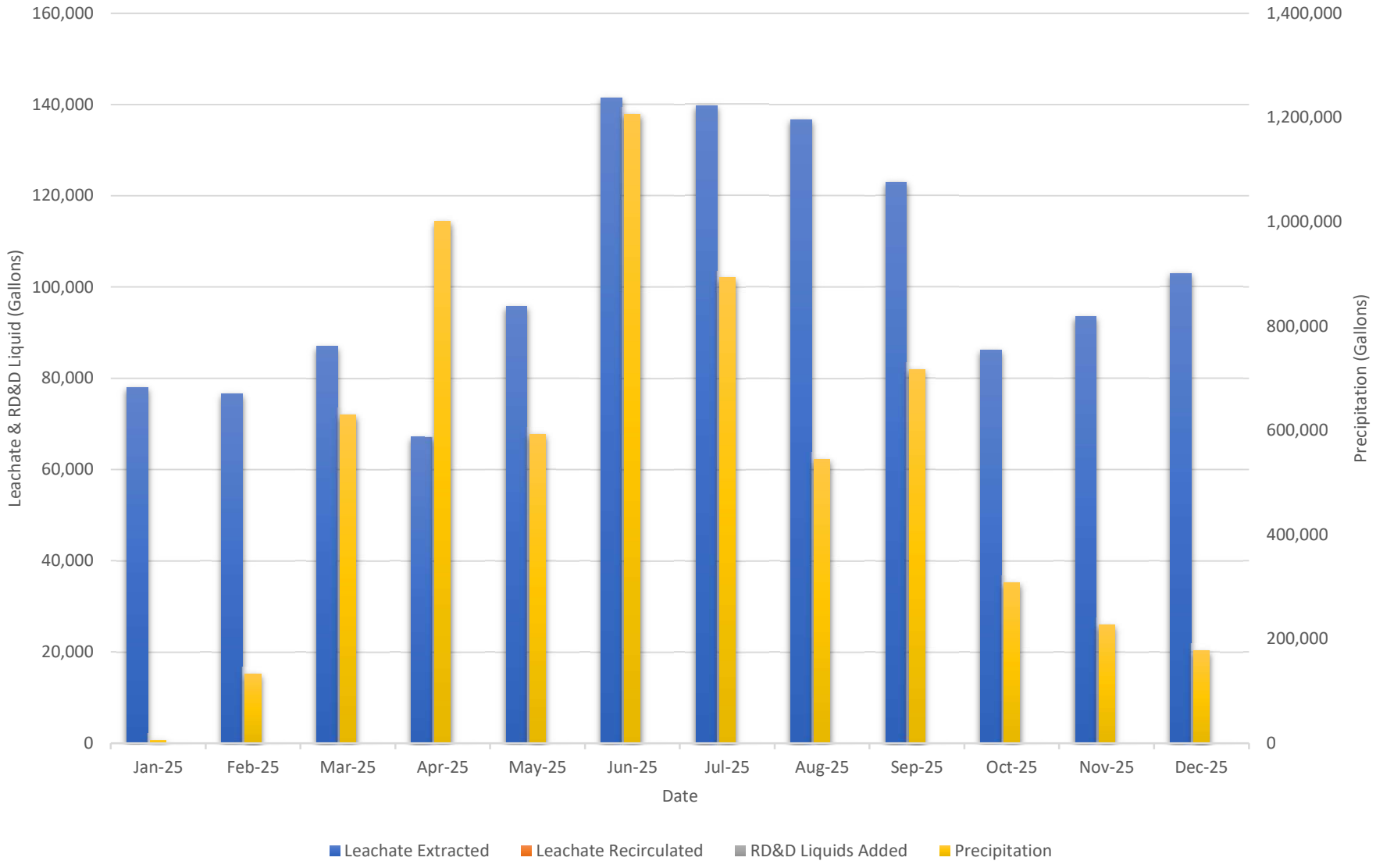
3 - Total tonnage reported includes both MSW Landfill and Ash Monofill. Ash Monofill closed in 2024.

4 - Up to 2009 CD material was placed in separate CD landfill.

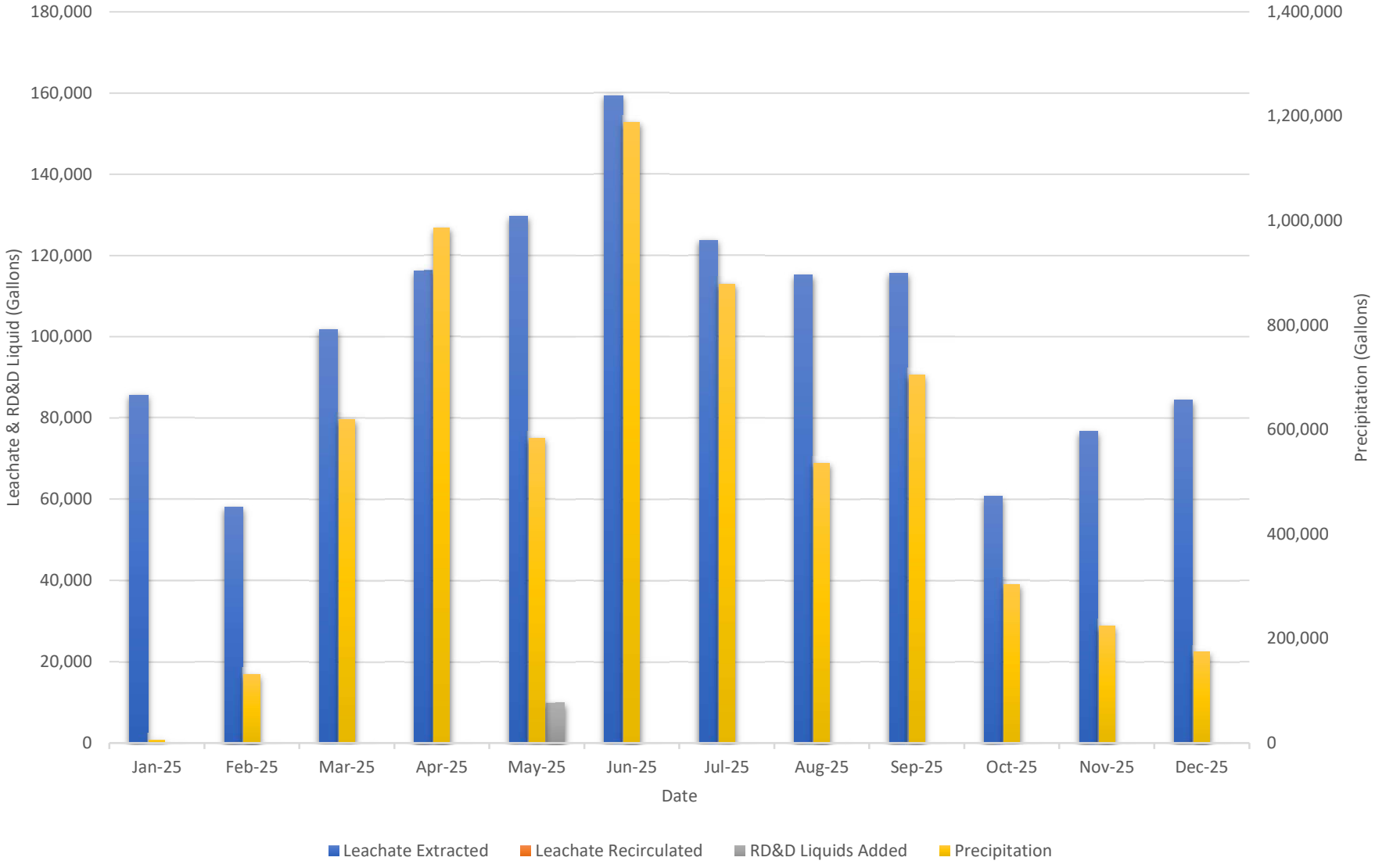
5- Category 31 includes RDF Plant reject and residue MSW material sent back to the Landfill. This waste is considered degradable, and therefore is included in 2021-2024 degradable tonnage.

# Figures

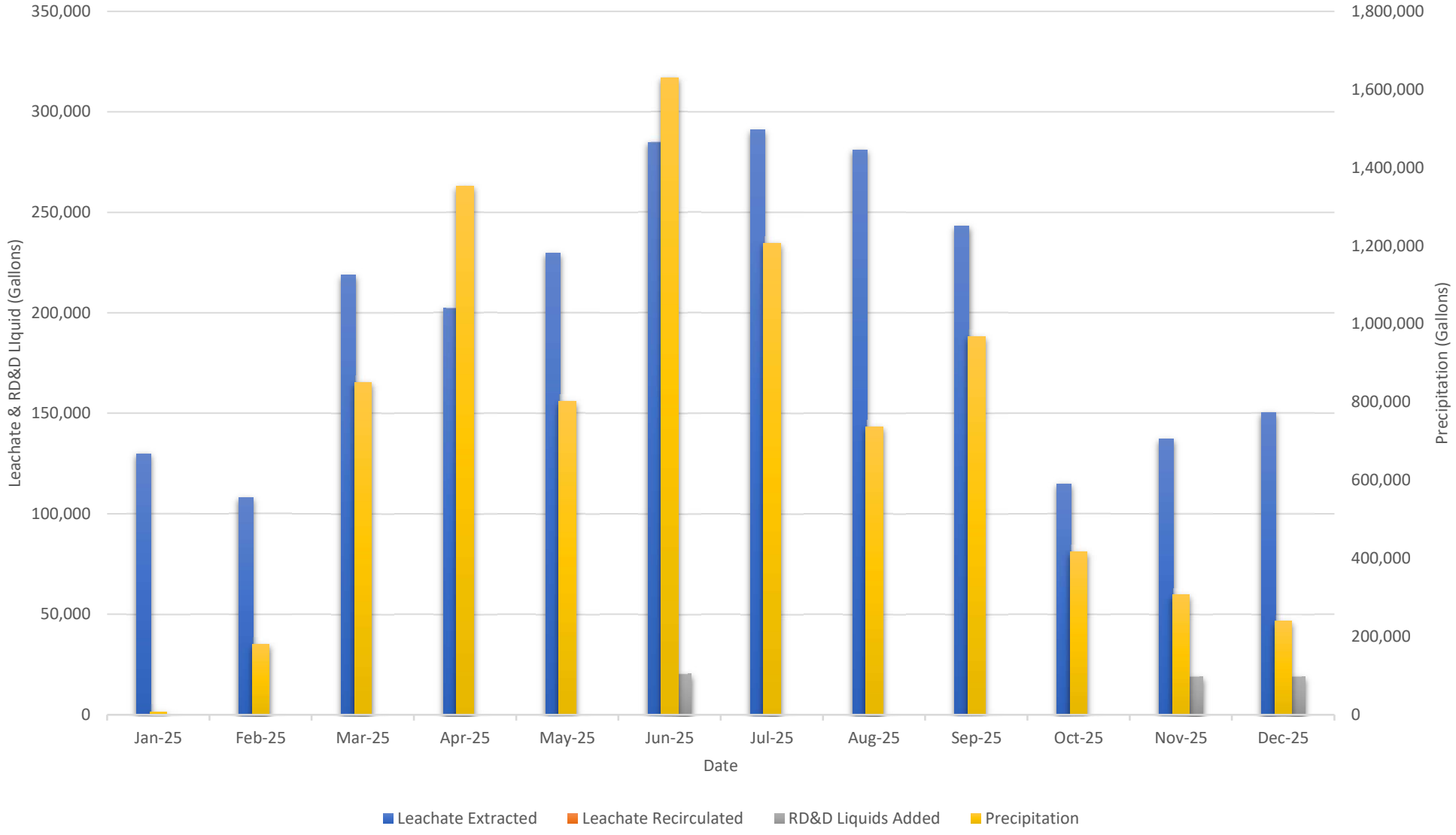
# Figure G-1A
# Liquid Mass Balance for Calendar Year 2025 - Phase VI
# La Crosse County Landfill Lic. #3253



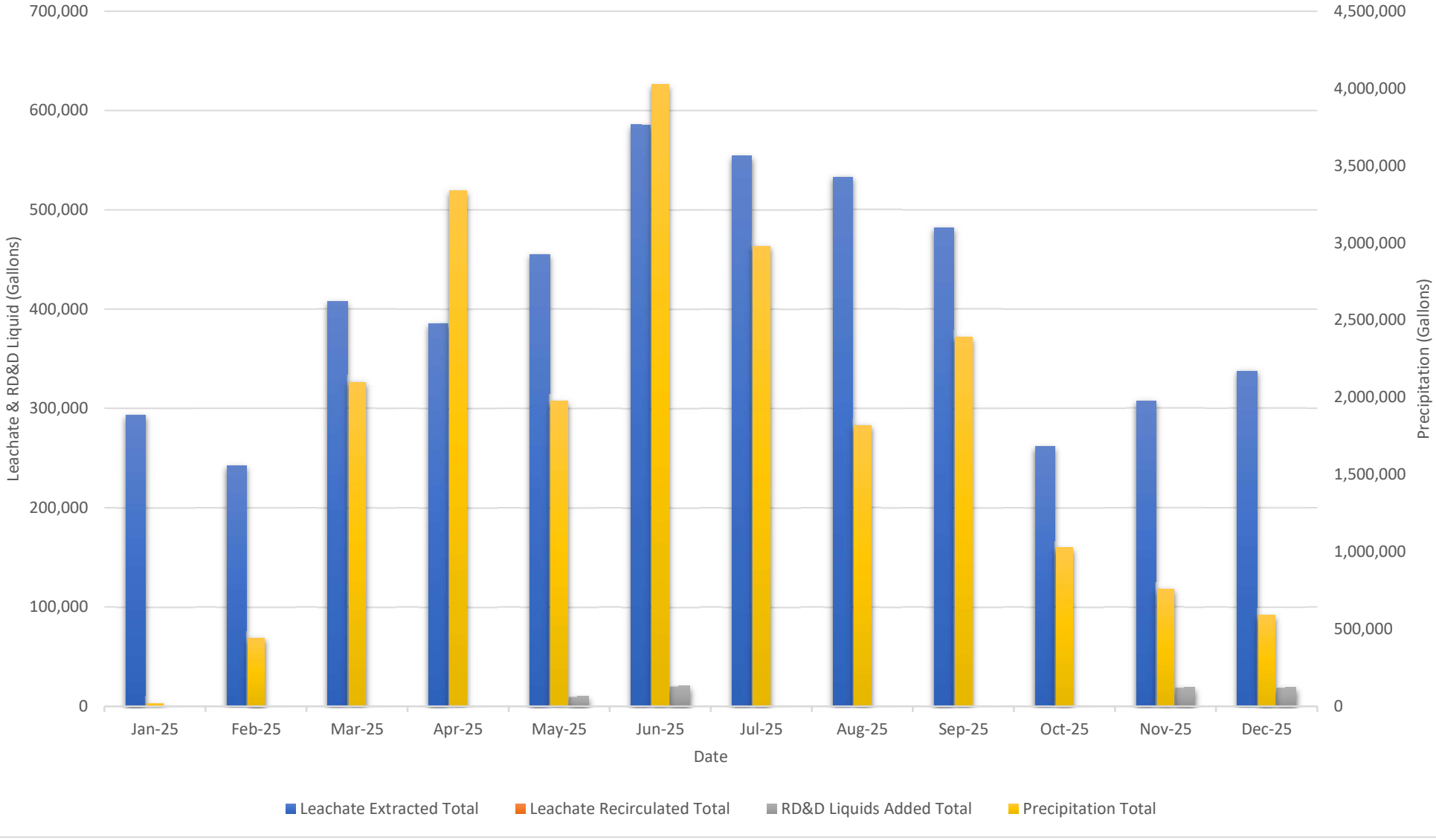
# Figure G-1B
# Liquid Mass Balance for Calendar Year 2025 - Phase VII
# La Crosse County Landfill Lic. #3253



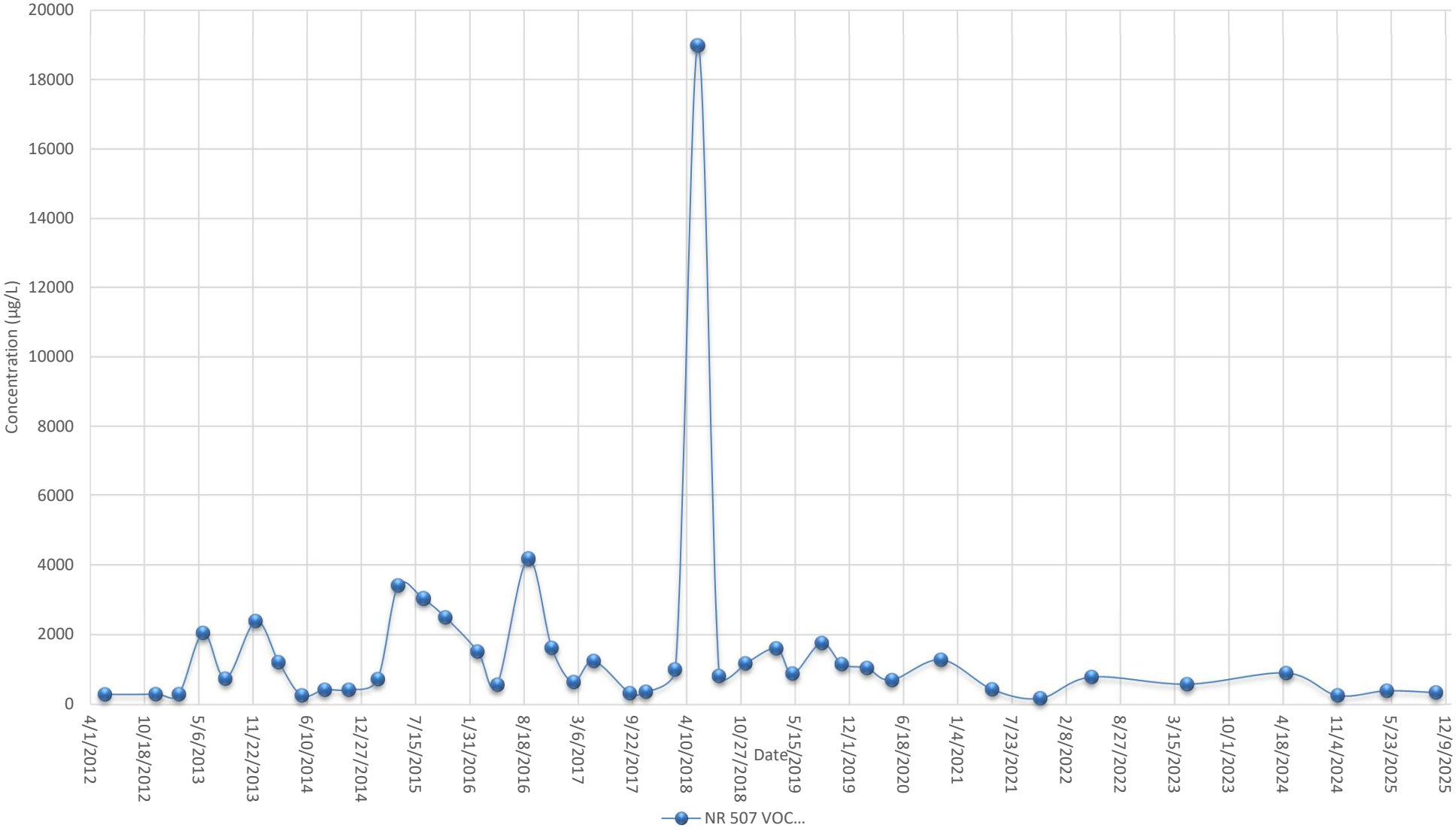
# Figure G-1C
# Liquid Mass Balance for Calendar Year 2025 - Phase VIII
# La Crosse County Landfill Lic. #3253



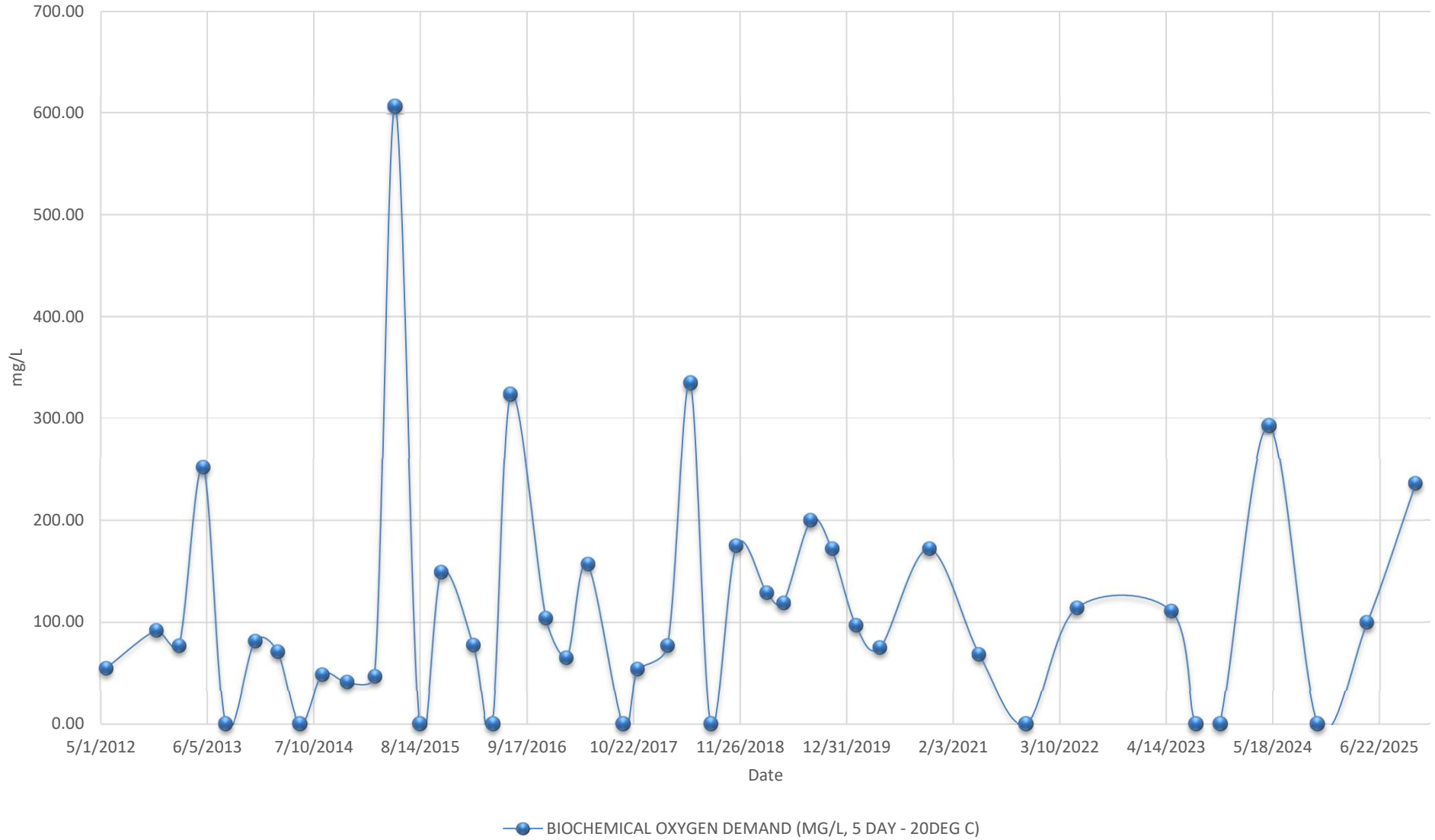
# Figure G-1D
# Liquid Mass Balance for Calendar Year 2025 - Total Phases VI through VIII
# La Crosse County Landfill Lic. #3253



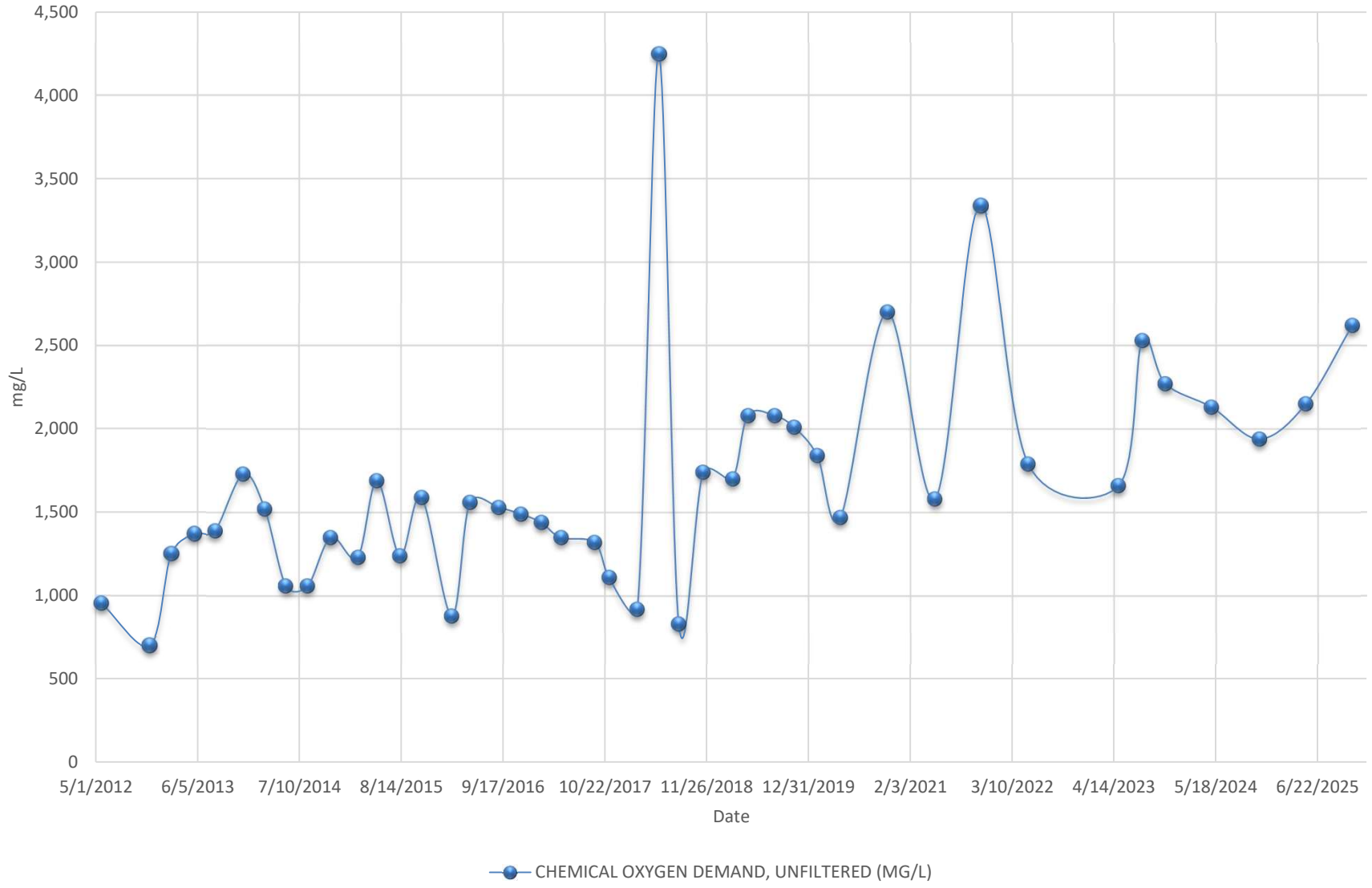
# Figure G-2
# NR 507 VOC Appendix III - GEMS Point ID 451
# La Crosse County Landfill Lic. #3253



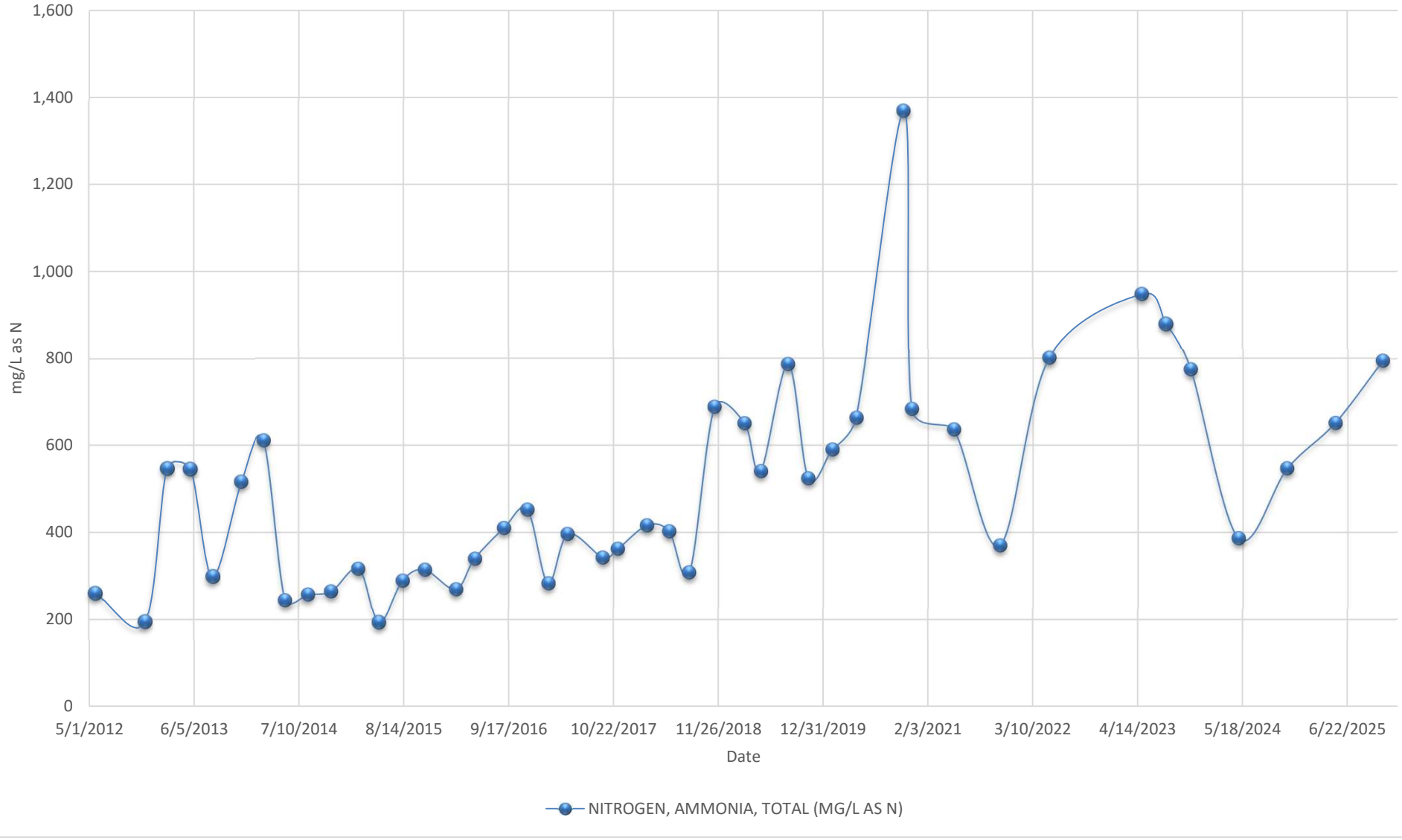
# FIGURE G-3
# BIOCHEMICAL OXYGEN DEMAND (MG/L, 5 DAY - 20DEG C) - GEMS POINT ID 451
# LA CROSSE COUNTY LANDFILL LIC. #3253



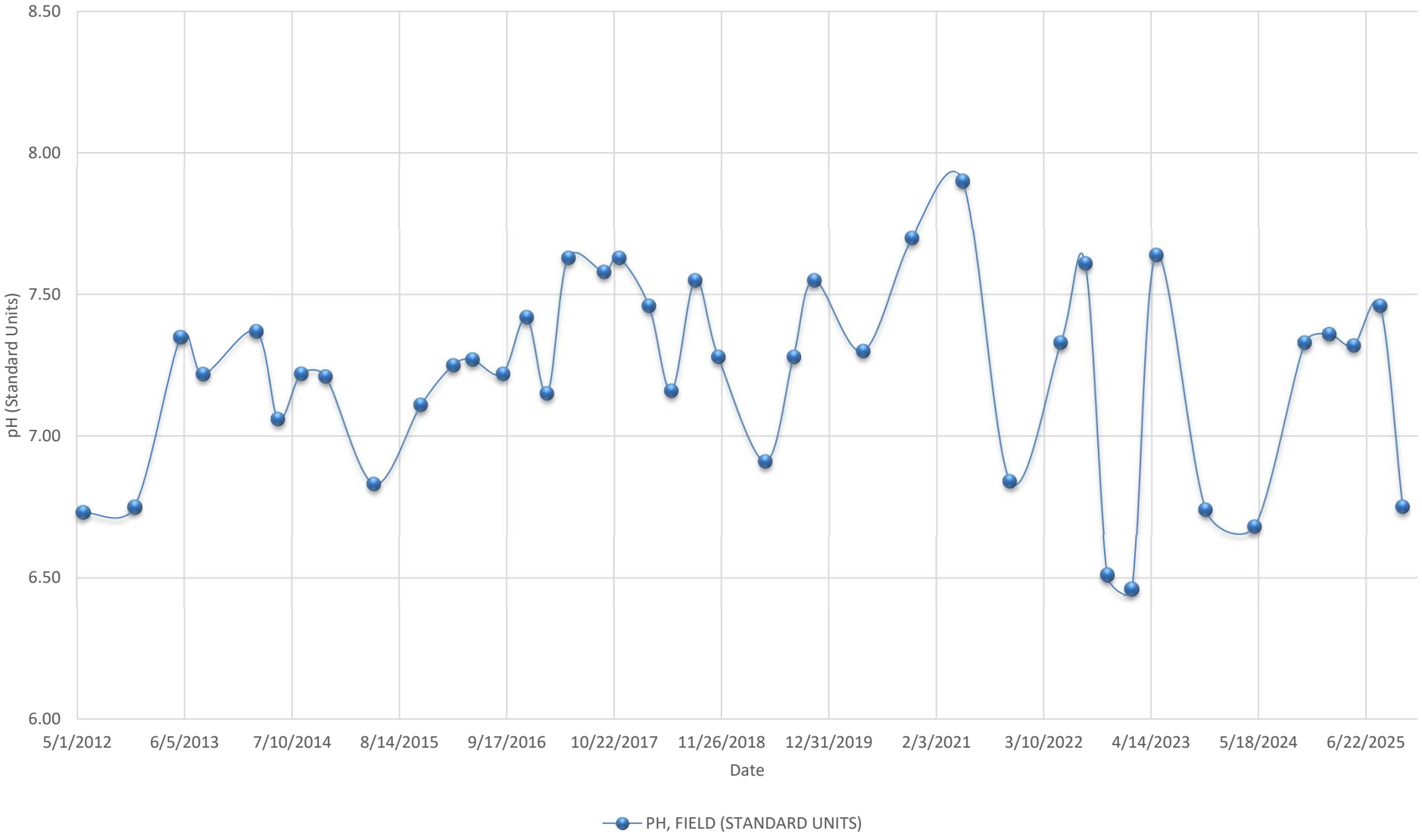
# FIGURE G-4
# CHEMICAL OXYGEN DEMAND, UNFILTERED (MG/L) - GEMS POINT ID 451
# LA CROSSE COUNTY LANDFILL LIC. #3253



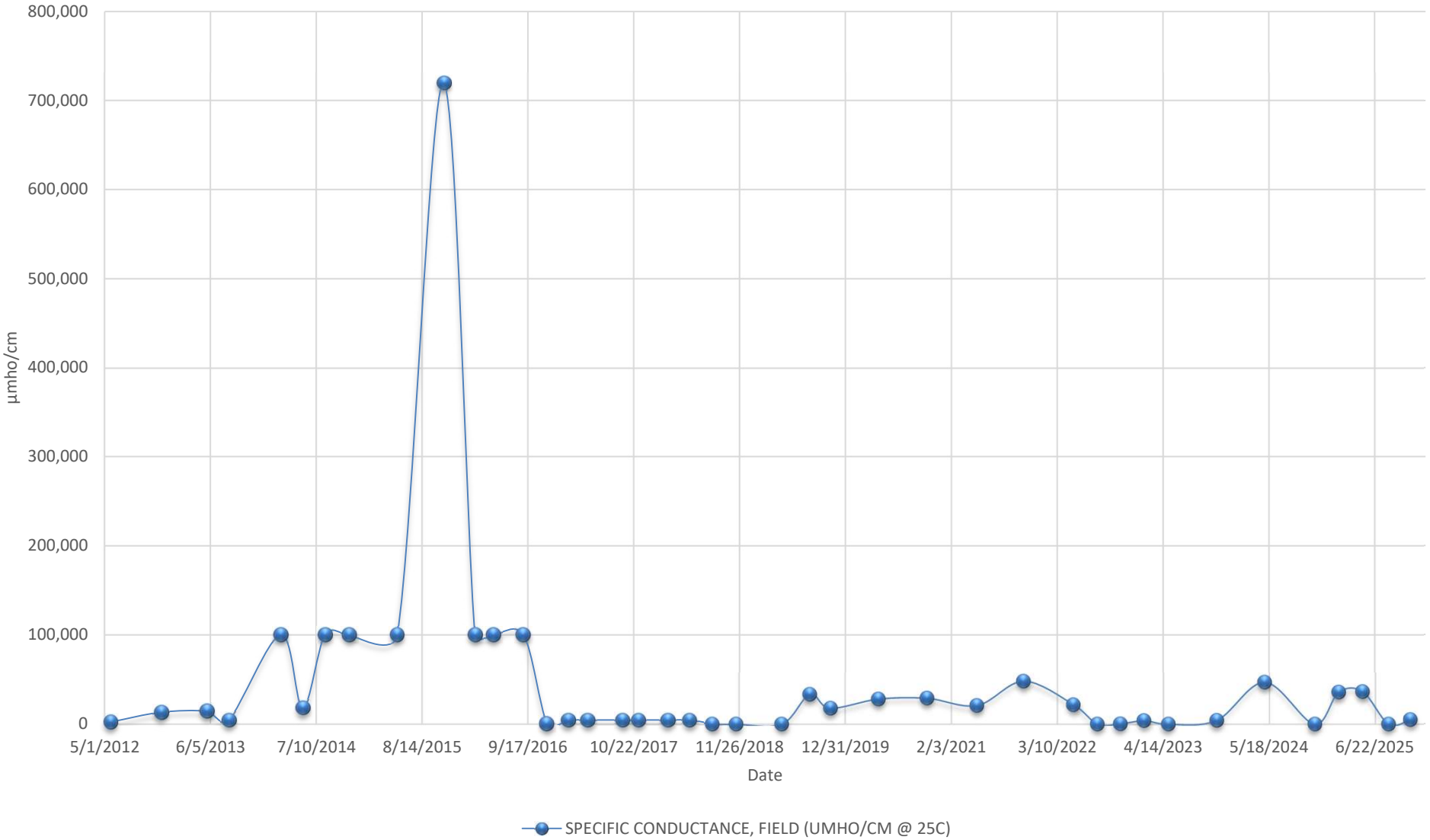
# FIGURE G-5
# NITROGEN, AMMONIA, TOTAL (MG/L AS N) - GEMS POINT ID 451
# LA CROSSE COUNTY LANDFILL LIC. #3253



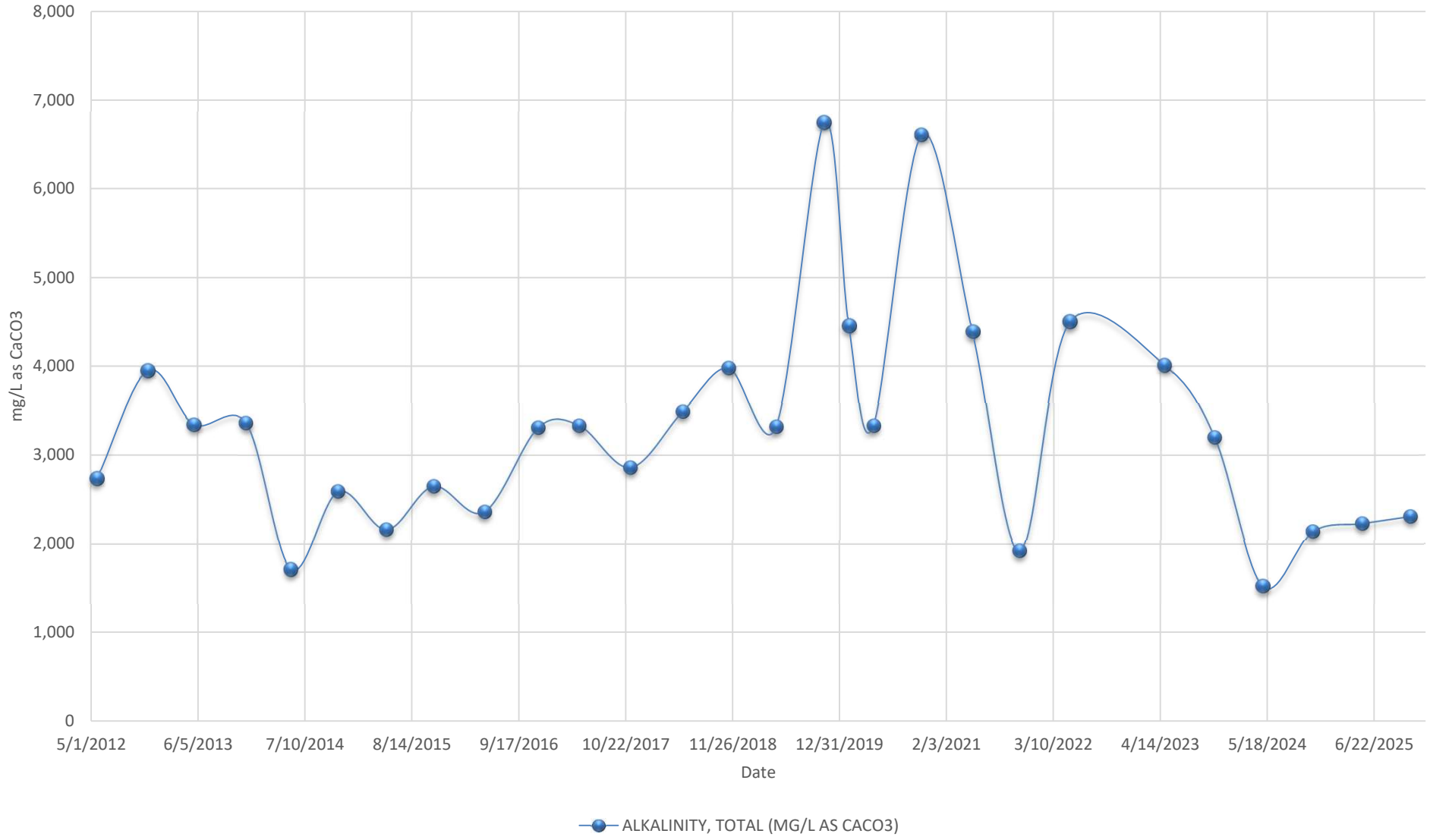
# FIGURE G-6
# PH, FIELD (STANDARD UNITS) - GEMS POINT ID 451
# LA CROSSE COUNTY LANDFILL LIC. #3253



# 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

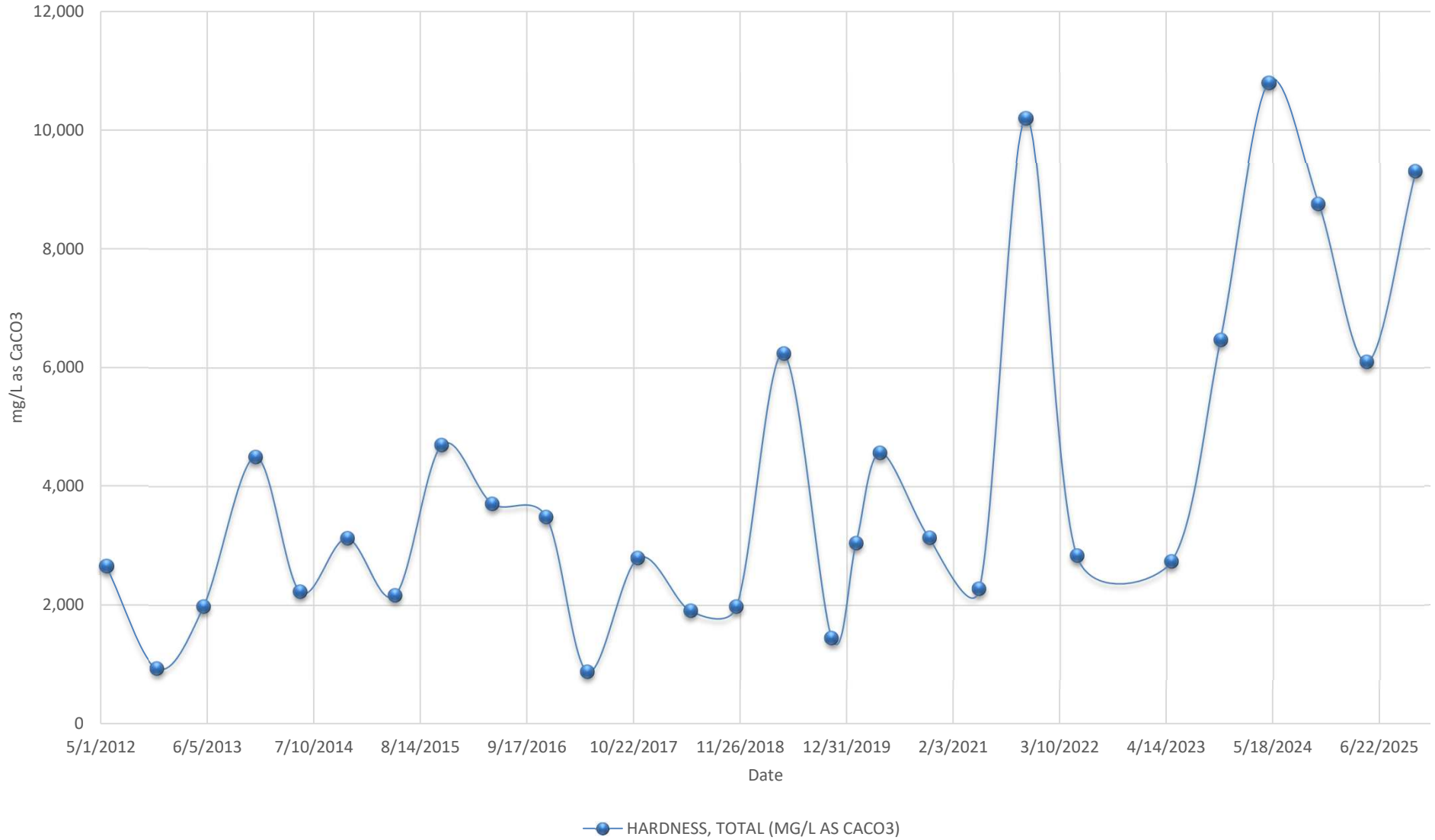
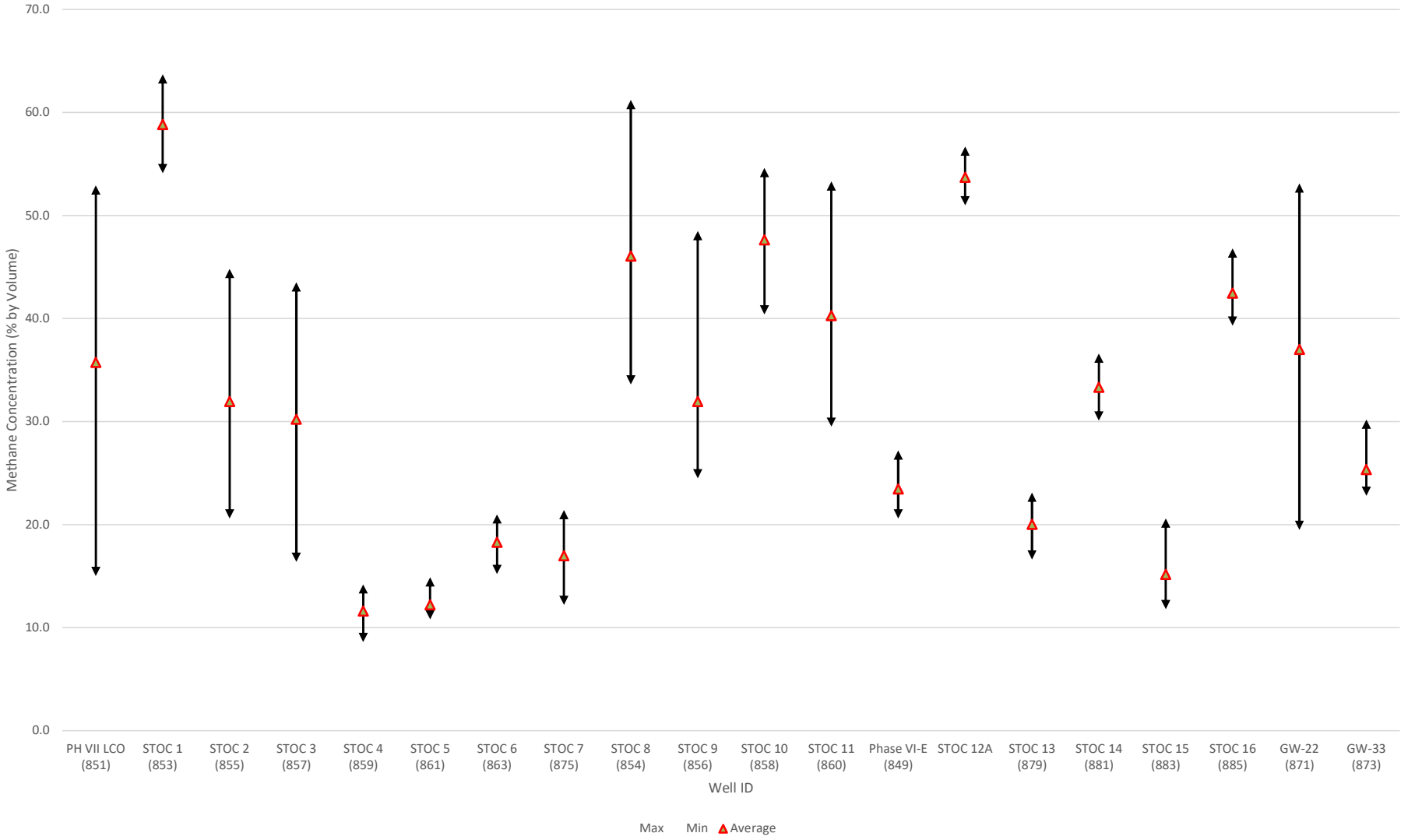


**FIGURE G-10**
**METHANE CONCENTRATION OF WELLS IN LIQUID APPLICATION AREA IN 2025**
**LA CROSSE COUNTY LANDFILL LIC. #3253**



# 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 16, 2026

RE: La Crosse County - Solid Waste Department
2025 Landfill Capacity Calculations
SEH No. LACSW 189184 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 Phase I through Phase VIII of the municipal solid waste (MSW), landfill and internal Ash Overlay, as of December 31, 2025. 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 31, 2024 and December 31, 2025, and the remaining permitted air space as of January 1, 2026:

| Waste Type | Density[1] | Remaining Permitted Air Space and Site Life[2] |
|---|---|---|
| MSW Landfill | 2,095 lb./CY | 4,204,491 CY / 34.1 – 35.1 years ([3]) |
| MSW Landfill – Ash Overlay | 2,561 lb./CY | 33,703 CY / 3.2 – 3.6 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, 2026. 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 now closed 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 3.

The “2025 MSW Landfill Ash Overlay Air Space Consumption and Density” subsection below presents the volume of ash placed in the MSW Landfill during 2025 and its density. Based on average fill volumes and remaining life span of the 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


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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 2025 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:

### 2025 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, 2025 to calculate the volume of ash placed in the MSW Landfill - Ash Overlay. Topographic data obtained from the 2025 survey in the ash overlay area is provided in Figure 3. Using Civil 3D software, the volume of ash and asbestos fill placed in the MSW Landfill – Ash Overlay between December 31, 2024 and December 31, 2025 was calculated as 9,300 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 3.

The amount of air space consumed by ash and asbestos waste in the MSW Ash Overlay between January 1, 2025 and December 31, 2025 was 9,300 CY. The tonnage of ash and asbestos placed between January 1, 2025 and December 31, 2025 was 11,908 tons, and ash density was calculated to be 2,561 lb/cy. While ash density is considerably higher than in 2024, this is expected as construction and movement of waste in 2024 brought a lower density compared to the 5-year average.

### 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, 2025 is 33,703 CY. If all ash waste were placed in the proposed Ash Overlay footprint, with an annual filling rate of 9,300 CY, the remaining site life is approximately 3.6 years. However, if the 5-year average annual filling rate of 10,670 CY is used, the remaining site life is approximately 3.2 years. The 5-year average, averages the current filling rate 9,300 CY with the prior active four years filling rates of 14,039 CY, 10,518 CY, 9,993 CY, and 9,499 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 9,300 CY is used, then as of January 1, 2026 a total of 46,500 CY of ash volume capacity is needed through 2030. If the remaining waste capacity in the MSW Landfill – Ash Overlay is 33,703 CY, then an additional 12,797 CY of air space for ash would be needed through 2030 within the MSW Landfill. If the 5-year average ash filling rate of 10,670 CY is used instead, then approximately 53,350 CY of airspace capacity is needed, which means an additional 19,647 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 3 and Figure 5 presents the current maximum Ash Overlay extents.

**MSW LANDFILL:**

**2025 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, 2025. 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, 31 and special wastes). Note this does not include RDF ash (Cat. 20) and asbestos (Cat. 6 – Special Waste) waste since it was placed with ash in the MSW Ash Overlay. Topographic data obtained from this survey is provided in Figures 2 through 5. Figure 2 presents filling in Phase VI through Phase VIII between the period from December 31, 2024 and December 31, 2025. After a correction for a net 5,468 CY of intermediate cover added in Phase VI through Phase VIII Module 2 over the area shown on Figure 2 during the 2025 survey period, the amount of MSW placed in Phase VI through Phase VIII during the 2025 survey period is 114,050 CY.

The amount of airspace consumed by Cat. 1, 19, 25, 27, 30, 31 and special wastes in the MSW landfill between January 1, 2025 and December 31, 2025 was 114,050 CY. The tonnage of the aforementioned wastes placed between January 1, 2025 and December 31, 2025 was 119,478 tons, and a MSW waste density was calculated to be 2,095 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, 2025 and December 31, 2025 is 123,350 CY (114,050 CY + 9,300 CY). Densities for previous years are presented in the table below. With scale records showing 131,386 tons of ash, asbestos and MSW waste placed in 2025, the density is approximately 2,138 lb./CY.

| MSW Landfill | | | |
|---|---|---|---|
| **Year** | **Tonnage Received (Tons)** | **Volume Used (CY)** | **Density (lb./CY)** |
| 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 |
| 2025 | 131,386 | 123,350 | 2,130 |
| avg | **117,837** | **119,745** | **1,986** |

Constructed air space is that portion of the fill volume that is within the existing constructed footprint. Figure 4 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 1,118,626 CY. Figure 5 shows 33,703 CY of remaining air space designated for ash filling in Phases I through V, as of December 31, 2025.

The remaining MSW Landfill constructed air space, calculated using Civil 3D software, as of December 31, 2025 is 1,118,626 CY. This assumes that areas outside current waste filling locations as shown on Figure 4 have 18 inches of intermediate cover, equating to approximately 58,273 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, 2026 is 1,118,626 CY. Using the average fill volume of 119,745 CY, which is based on the five year average fill volume; the remaining constructed site life for Phases I through VIII is approximately 9.3 years. At this year's MSW and Ash Overlay annual filling rate of 123,350 CY the remaining constructed air space provides approximately 9.1 years of remaining life as of January 1, 2026, 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 | 1,118,626 |
| Phase IX through Phase X | 3,085,865 |
| Total | 4,204,491 |

The total remaining permitted waste air space of the MSW Landfill is 4,204,491 CY. Using the average fill volumes of the previous five years; the remaining permitted site life for Phases I through X is 35.1 years. Using this years' fill volume, the remaining permitted site life for Phases I through X is 34.1 years. Fill rates and volumes for the MSW Landfill for previous years are presented in the table on Page 3.

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\189184\4-prelim-dsgn-rpts\annual airspace memo\2025 annual airspace memo_final\2025 seh airspace letter.docx




NOTES:

1. CONTOUR INTERVAL IS 2-FOOT.
2. TOPOGRAPHIC BASE MAP UPDATED WITH MOST RECENT SURVEY PERFORMED BY PARAGON ASSOCIATES ON DECEMBER 31, 2025.

N

200 0 200 400
scale 100 feet

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SEH Project | LACSW 189184 | Rev.# | Plan Revision Issue Description | Date | Rev.# | Sheet Revision Issue Description | Date | PLANS PREPARED FOR: | LA CROSSE COUNTY LANDFILL<br>2025 ANNUAL VOLUME REPORT<br>LA CROSSE, WISCONSIN |
| Drawn By | BRH | | | | | | | LA CROSSE SOLID WASTE DEPT<br>3200 BERLIN DRIVE<br>LA CROSSE, WI 54601 | **2025 EXISTING CONDITIONS** |
| Designed By | BRH | | | | | | | | |
| Checked By | TTR | | | | | | | | |

SEH
PHONE: 608.782.3161
329 JAY STREET, SUITE 301
LA CROSSE, WI 54601-4034
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Save: 2/6/2026 2:37 PM bheinrich Plot: 2/6/2026 2:42 PM X:\IKO\LLACSW\189184\5-final-dsgn\51-drawings\85-HeavyCiv\2025 ANNUAL SURVEY\SHEETS\LA189184_FIG 1.dwg

PHASE VIII - MODULE 1

PHASE VIII - MODULE 2

PHASE VII - MODULE 1

PHASE VII - MODULE 2

PHASE VI

PHASE I

PHASE II

PHASE III

PHASE IV

PHASE V

ADDED
12,016 CY

REMOVED
382 CY

REMOVED
6,166 CY

NOTES:

1. CONTOUR INTERVAL IS 2-FOOT.
2. EXISTING GRADE CONTOURS WITHIN WASTE LIMITS PRODUCED BY SURVEY BY PARAGON ASSOCIATES ON DECEMBER 31, 2024.
3. PROPOSED GRADE CONTOURS WITHIN WASTE LIMITS PRODUCED BY MOST RECENT SURVEY BY PARAGON ASSOCIATES ON DECEMBER 31, 2025.

LEGEND:

- MAJOR GROUND CONTOUR (DEC. 2024)
- MAJOR GROUND CONTOUR (DEC. 2025)
- 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: 12,016 CY (ADDED)
- 6,548 CY (REMOVED)
= 5,468 CY (FILL)

INTERMEDIATE COVER CHANGE = 5,468 CY <ADDED>
(TO BE REMOVED FROM THE VOLUME CALCULATION)

**MSW LANDFILL - WASTE FILL VOLUME**
DESCRIPTION: DEC. 2024 TO DEC. 2025 WASTE FILL VOLUME
BASE SURFACE: EXISTING GRADE - DEC 2024
COMPARISON SURFACE: EXISTING GRADE - DEC 2025

CUT: 15,909 CY
FILL: 135,427 CY
NET: 119,518 CY <FILL>

MSW LANDFILL - WASTE FILL VOLUME
= 119,518 CY - 5,468 CY= **114,050 CY**

N

60 0 60 120
scale 30 feet

Save: 2/4/2026 3:52 PM bheinrich Plot: 2/6/2026 2:42 PM X:\KO\LA\CSW\189184\5-final-dsgn\51-drawings\85-HeavyCiv\2025 ANNUAL SURVEY\SHEETS\LA189184_FIG 2.dwg

| | |
|---|---|
| SEH Project | LACSW 189184 |
| Drawn By | BRH |
| Designed By | BRH |
| Checked By | TTR |

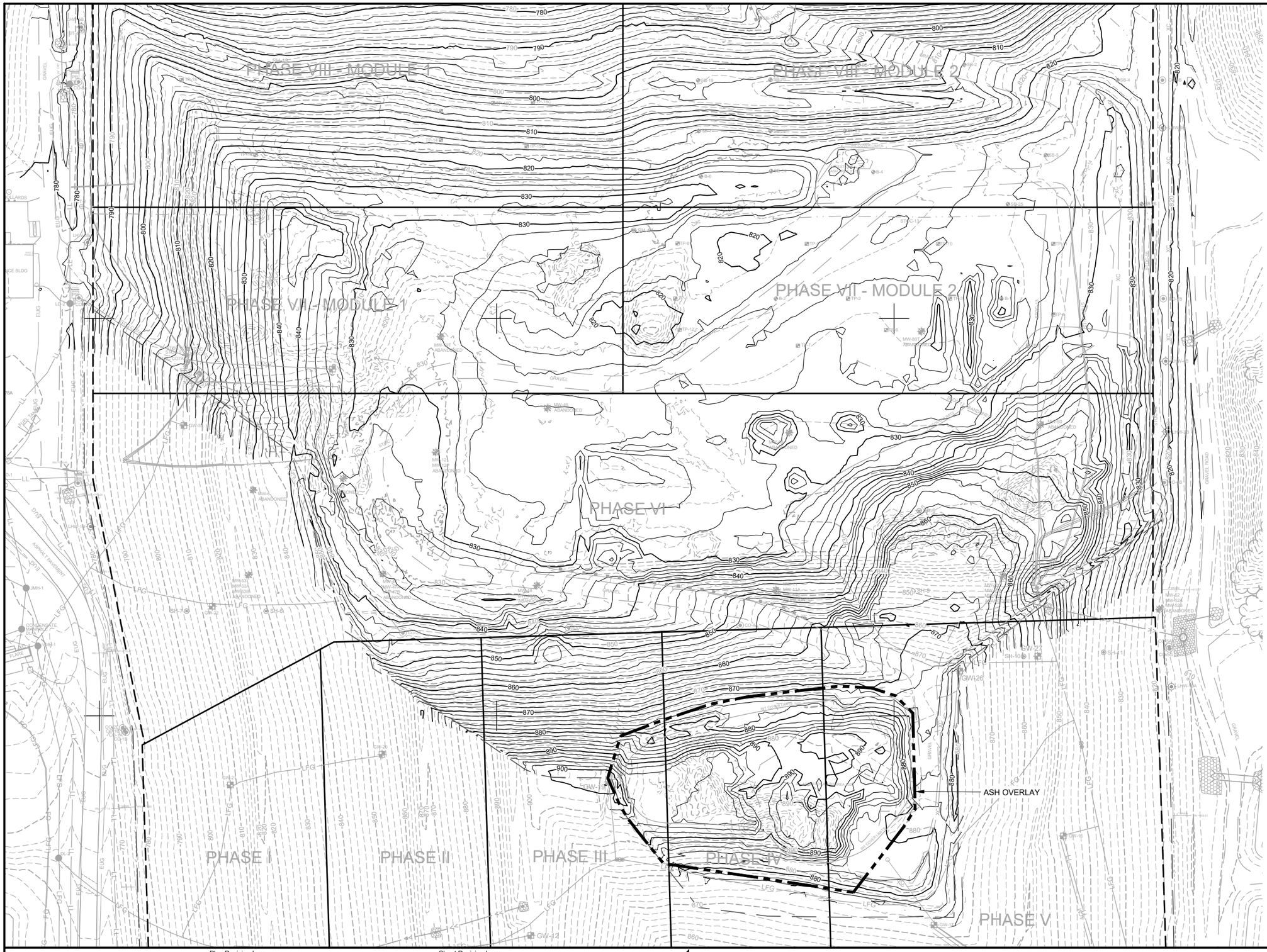
| Rev.# | Plan Revision Issue Description | Date |
|---|---|---|
| | | |

| Rev.# | Sheet Revision Issue Description | Date |
|---|---|---|
| | | |

SEH
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329 JAY STREET, SUITE 301
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PLANS PREPARED FOR:
LA CROSSE SOLID WASTE DEPT
3200 BERLIN DRIVE
LA CROSSE, WI 54601

LA CROSSE COUNTY LANDFILL
2025 ANNUAL VOLUME REPORT
LA CROSSE, WISCONSIN
**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 31, 2024.
3. PROPOSED GRADE CONTOURS WITHIN WASTE LIMITS PRODUCED BY MOST RECENT SURVEY BY PARAGON ASSOCIATES ON DECEMBER 31, 2025.
4. THE MSW LANDFILL ASH OVERLAY ACCEPTS BOTH ASH AND ASBESTOS WASTE.

LEGEND:

- 760 — MAJOR GROUND CONTOUR (DEC. 2024)
- 760 — MAJOR GROUND CONTOUR (DEC. 2025)
- APPROVED WASTE LIMITS
- VOLUME ANALYSIS CALC. BOUNDARY

VOLUME ANALYSIS:

**MSW LANDFILL (ASH OVERLAY)** - WASTE FILL VOLUME
DESCRIPTION: DEC. 2024 TO DEC 2025 WASTE FILL VOLUME
BASE SURFACE: EXISTING GRADE - DEC 2024
COMPARISON SURFACE: EXISTING GRADE - DEC 2025

CUT: 1,279 CY
FILL: 10,579 CY
NET: 9,300 CY <FILL>

MSW LANDFILL (ASH OVERLAY) - WASTE FILL VOLUME = **9,300 CY**

N

60 0 60 120
scale 30 feet

Save: 2/5/2026 2:27 PM bheinrich Plot: 2/6/2026 2:42 PM X:\KOLL\LACSW\189184\5-final-dsgn\51-drawings\85-HeavyCiv\2025 ANNUAL SURVEY\SHEETS\LA189184_FIG 3.dwg

| | | Rev.# | Plan Revision Issue Description | Date | Rev.# | Sheet Revision Issue Description | Date |
|---|---|---|---|---|---|---|---|
| SEH Project | LACSW 189184 | | | | | | |
| Drawn By | BRH | | | | | | |
| Designed By | BRH | | | | | | |
| Checked By | TTR | | | | | | |

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PLANS PREPARED FOR:
LA CROSSE SOLID WASTE DEPT
3200 BERLIN DRIVE
LA CROSSE, WI 54601

LA CROSSE COUNTY LANDFILL
2025 ANNUAL VOLUME REPORT
LA CROSSE, WISCONSIN

**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, 2025.
3. PROPOSED CONTOURS REPRESENT PROPOSED TOP OF WASTE ELEVATIONS.

LEGEND:

- 760 — MAJOR GROUND CONTOUR (DEC. 2025)
- 880 — PROPOSED TOP OF WASTE
- APPROVED WASTE LIMITS
- VOLUME ANALYSIS CALC. BOUNDARY
- APPROXIMATE AREA OF INTERMEDIATE COVER (18-INCH)

VOLUME ANALYSIS:

INTERMEDIATE COVER VOLUME ≈ 58,273 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. 2025)
COMPARISON SURFACE: FINAL WASTE GRADES

CUT: 31,416 CY
FILL: 1,091,769 CY
NET: 1,060,353 CY <FILL>

MSW REMAINING CONSTRUCTED WASTE CAPACITY
= 1,060,353 CY + 58,273 CY= **1,118,626 CY**

*(INCLUDES ASH OVERLAY)*

N

80 0 80 160
scale 40 feet

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEH Project | LACSW 189184 | Rev.# | Plan Revision Issue Description | Date | Rev.# | Sheet Revision Issue Description | Date |
| Drawn By | BRH | | | | | | |
| Designed By | BRH | | | | | | |
| Checked By | TTR | | | | | | |

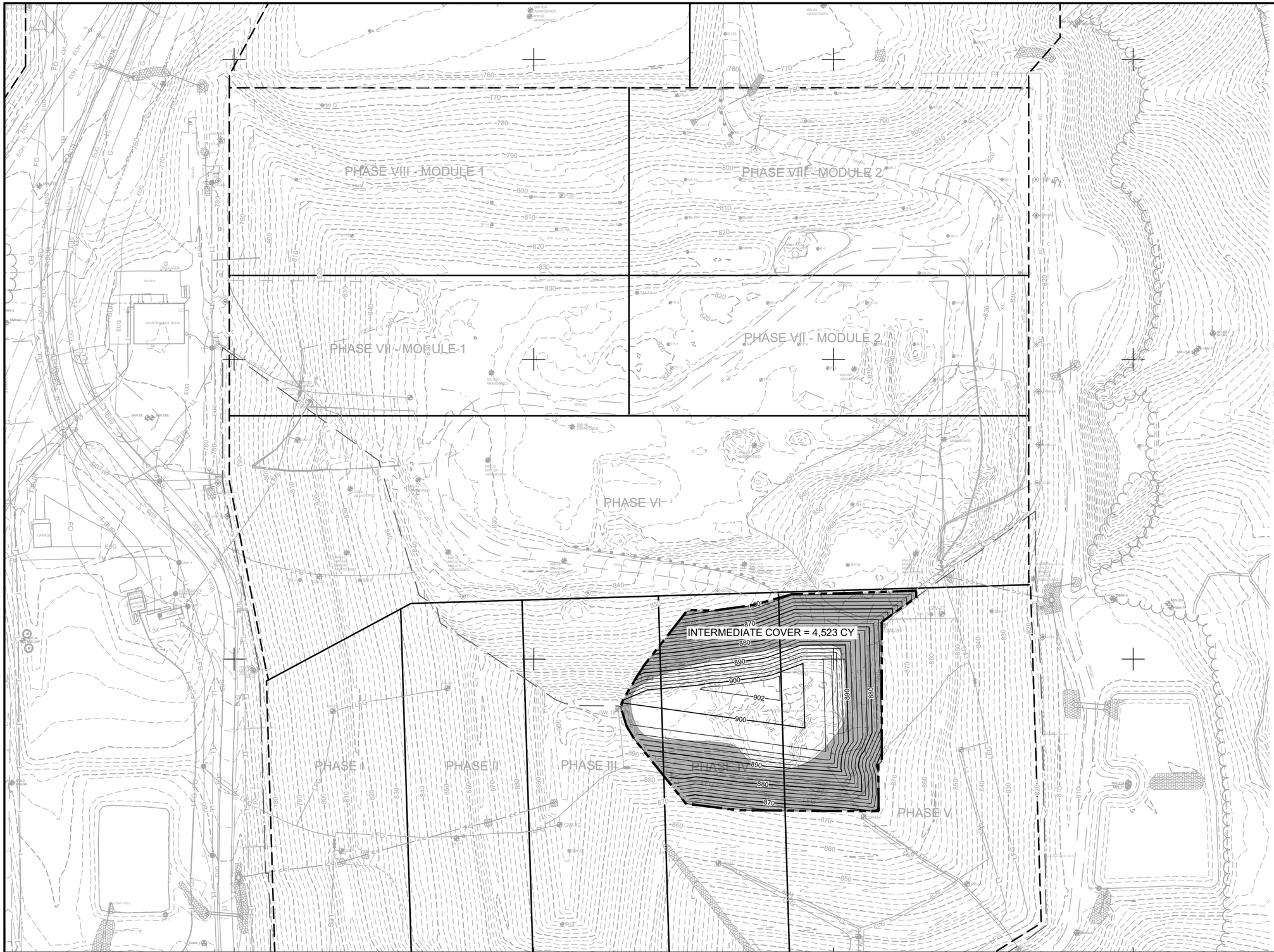
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LA CROSSE, WI 54601-4034
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PLANS PREPARED FOR:

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

LA CROSSE COUNTY LANDFILL
2025 ANNUAL VOLUME REPORT
LA CROSSE, WISCONSIN

**MSW LANDFILL - REMAINING 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, 2025.
3. PROPOSED CONTOURS REPRESENT PROPOSED TOP OF ASH OVERLAY WASTE ELEVATIONS.

LEGEND:

- 760 — MAJOR GROUND CONTOUR (DEC. 2025)
- 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 ≈ 4,523 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. 2025)
COMPARISON SURFACE: MAX TOP OF ASH WASTE

CUT: 2,197 CY
FILL: 31,377 CY
NET: 29,180 CY <FILL>

ASH OVERLAY REMAINING WASTE CAPACITY
= 29,180 CY + 4,523 CY = **33,703 CY**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEH Project | LACSW 189184 | Rev.# | Plan Revision Issue Description | Date | Rev.# | Sheet Revision Issue Description | Date |
| Drawn By | BRH | | | | | | |
| Designed By | BRH | | | | | | |
| Checked By | TTR | | | | | | |

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LA CROSSE COUNTY LANDFILL
2025 ANNUAL VOLUME REPORT
LA CROSSE, WISCONSIN
**MSW LANDFILL (ASH OVERLAY) - REMAINING ASH WASTE FILL**



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# 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 PPM | N/A |
| DRO 0-22,000 PPM | N/A |

Total time in active and passive processing = 3-31 months (15-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 | 22000 | |
| **Sub-total 2024** | | 550.81 | | |
| 2025 | Dairyland Power Cooperative | 0.76 | Local spill assumed >2,000 | |

| | | | | |
|---|---|---|---|---|
| 2025 | Kronebusch Farms | 10.89 | 647 | |
| 2025 | City of La Crosse | 15.52 | Local spill assumed >2,000 | |
| 2025 | Marlin Homes | 2.15 | Local spill assumed >2,000 | |
| 2025 | Dairyland Power Cooperative | 0.37 | Local spill assumed >2,000 | |
| 2025 | Dairyland Power Cooperative | 2.08 | Local spill assumed >2,000 | |
| 2025 | United States Army-Ft. McCoy | 81.85 | 970 | 9400 |
| 2025 | C Lindstrom LLC | 9.05 | 7700 | 46 |
| **Sub-total 2025** | | 122.67 | | |
| **Total** | | **1954.59** | | |

**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 accepted soils in 2025. The pile will be closed January 1st, 2026, and a new pile will be started.

**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 soils are currently being processed, and 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 2025.

**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 2025.

**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 2025 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 2025.

**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 2025 Annual Report.

# La Crosse County Landfill
## Application for Special Waste Disposal

### PART A: WASTE GENERATOR INFORMATION

1. Generator Name Isaac Kromkowski
2. Generator Mailing Address 31745 Cty Rd S
   Dakota MN 55925
3. Facility Address (site of waste generation) 36028 Cty Rd 12 Dakota
4. Generator City Dakota
5. Generator State/Zip 55925
6. General Contact Person Isaac Kromkowski
   Phone # and email 507-429-7341 Kromkowskifarms@yahoo.com
7. Technical Contact Person Same
   Phone # and email

---

1. Name of Waste Combine Fire Soil
2. Process Generating Waste Combine fire
3. Waste Color Dirt
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____
8. Flash Point (cc) ____None ____<140F ____140-199F ____>200
9. a. Waste Composition:

| | Range |
|---|---|
| _____ | _____ to _____% |
| _____ | _____ to _____% |
| _____ | _____ to _____% |
| _____ | _____ to _____% |
| _____ | _____ to _____% |

Test Provided

| b. Does Waste Contain | Yes | No | Do Not Know |
|---|---|---|---|
| PCBS | ___ | ___ | _____ |
| Cyanide | ___ | ___ | _____ |
| Sulfide | ___ | ___ | _____ |
| Phenol | ___ | ___ | _____ |
| Chlorinated Solvents | ___ | ___ | _____ |
| Aromatic Solvents | ___ | ___ | _____ |

10. Analytical Laboratory Ayers Labs
11. Date of Analysis Supplied

**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 ____
   - [X] One-time Disposal
   - [ ] On-going Disposal

   Frequency ____
3. Hauler Name and Address Hartes
4. Bill to Name and Address Isaac Kronbusch
   31745 City Rd S
   Duluth MN 55925

**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 [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 Isaac Kronabusch
10. Title Owner
11. Name (Type or print) Isaac Kronabusch
12. Date 5-3-25

**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

Kronebusch, Isaac
Attn: Isaac Kronebusch
31745 Cty Rd S
Dakota, MN 55925

Date: April 28, 2025
Client No: 12744

Sample No: 25D0346-01
Sample Site: N/A
Sample Collected: 09-Apr-25 10:00
Sample Received: 10-Apr-25 08:53

| Parameter | Result | Units | LOD | LOQ/RL | Dilution | Prepared | Analyzed | Method | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Laboratory Results** | | | | | | | | | |
| Diesel range organics | **647** | **mg/kg (dry wt.)** | 18.0 | 47.0 | 1 | 17-Apr-25 15:50 | 23-Apr-25 08:44 | WI DNR Method | Sub-5 |
| **Subcontracted** | | | | | | | | | |
| Particle Size Distribution (Sieve) | **38** | **% passing** | | | 1 | 13-Apr-25 09:55 | 13-Apr-25 09:55 | ASTM D421-85 | Sub-5 |

Submitted by:
Davy Laboratories

*Cody A. Ritchie*
Cody A. Ritchie, 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 #5 - 9/19/2024

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

# LABORATORY ANALYSIS REPORT

Kronebusch, Isaac
Attn: Isaac Kronebusch
31745 Cty Rd S
Dakota, MN 55925

Date: April 28, 2025
Client No: 12744

## 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 | No |
| 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 United States Army-Fort McCoy
2. Generator Mailing Address 2171 South 8th Avenue
   Fort McCoy, WI 54656
3. Facility Address (site of waste generation) 2960 West 13th Avenue
4. Generator City Fort McCoy
5. Generator State/Zip Wisconsin/54656
6. General Contact Person Jeffrey Beaty
   Phone # and email 502-898-8034/jeffrey.j.beaty.civ@army.mil
7. Technical Contact Person Jeffrey Beaty
   Phone # and email 502-898-8034/jeffrey.j.beaty.civ@army.mil

---

1. Name of Waste Central Vehicle Wash Rack POL Contaminated Soil
2. Process Generating Waste Vehicle Cleaning
3. Waste Color Brown/Tan/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 |
|---|---|
| Solids = 90.6% | _____ to _____% |
| Sieve Analysis (P200) = 22.2% | _____ to _____% |
| TCLP Benzene = <10ug/L or 0.010mg/L | _____ to _____% |
| WI GRO = 9400ug/Kg or 9.4mg/Kg | _____ to _____% |
| WI DRO =970 mg/Kg | _____ 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 Chicago
11. Date of Analysis 27 Aug-11Sep2025

## PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge __X__Yes _____No
Tank interiors _____Yes __X__No
Vehicle types Military Vehicles

## 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 Excavation (608-372-4203)
   15341 State Highway 131
   Tomah, WI 54660

4. Bill to Name and Address CCS King George 2 LLC
   2218 Recycling Road
   Fort McCoy, WI 54656

**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 Wamsley / GM 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 YAEGER.AARON.JAMES.1267504500 Digitally signed by YAEGER.AARON.JAMES.1267504500 Date: 2025.09.25 12:26:52 -05'00'

10. Title Chief, Environmental Compliance Branch

11. Name (Type or print) Aaron Yaeger

12. Date 25-Sep-2025

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Jeff Beaty
US Army
2171 S. 8th Avenue.
Fort McCoy, Wisconsin 54656

Generated 9/11/2025 3:26:01 PM

## JOB DESCRIPTION

Fort McCoy - Soils Total/TCLP

## JOB NUMBER

500-273743-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.



my EOL

# Eurofins Chicago

## Job Notes

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

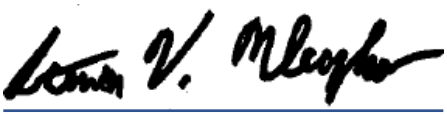
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed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

## Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

## Authorization



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9/11/2025 3:26:01 PM

Authorized for release by
Steve Mleczko, Project Manager II
Steve.Mleczko@et.eurofinsus.com
(708)534-5200

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**Job Narrative**
**500-273743-1**

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

**Receipt**
The samples were received on 8/28/2025 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C.

**GC/MS VOA**
Method 8260D: The continuing calibration verification (CCV) analyzed in 500-832878 was above the method criteria for the following analyte(s): Hexachlorobutadiene, Naphthalene, 1,1,1,2-Tetrachloroethane and 1,2,4-Trichlorobenzene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The method blank for analytical batch 500-832878 contained Chloroform above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The laboratory control sample (LCS) for 832295 recovered outside control limits for Bromomethane, Chloroethane. This is a prepped 5035 LCS. All daily instrument LCS were acceptable, and the data have been reported.(LCS 500-832295/22-A)

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

**GC/MS Semi VOA**
Method 8270E: The continuing calibration verification (CCV) analyzed in 500-832192 was above the method criteria for the following analyte(s): Benzo[b]fluoranthene, Diethyl phthalate, Indeno[1,2,3-cd]pyrene, 2-Nitroaniline, Nitrobenzene, Nitrobenzene-d5 (Surr) and 2,4,6-Tribromophenol (Surr). As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-832192 was below the method criteria for the following analyte(s): Hexachlorocyclopentadiene, 4-Nitrophenol and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following sample was diluted due to the nature of the sample matrix: Wash Rack (500-273743-1). Elevated reporting limits (RLs) are provided.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-832190 was above the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene, 2-Nitroaniline, N-Nitrosodi-n-propylamine, 2,2'-oxybis[1-chloropropane], Phenol and Pyridine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The laboratory control sample (LCS) for preparation batch 500-832145 and analytical batch 500-832190 recovered outside control limits for the following analytes: 2,4-Dimethylphenol, 2,2'-oxybis[1-chloropropane] and Pyridine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-832190 was below the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any

detection for the affected analyte(s) is considered estimated.

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

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

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

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

**Metals**
Method 6010D - TCLP: The method blank for preparation batch 500-832354 and 500-832598 and analytical batch 500-832922 contained Barium, Chromium and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

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

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

# Detection Summary

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

## Client Sample ID: Wash Rack

## Lab Sample ID: 500-273743-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 0.026 | J | 0.061 | 0.018 | mg/Kg | 50 | ☼ | 8260D | Total/NA |
| 1,3,5-Trimethylbenzene | 0.022 | J | 0.061 | 0.018 | mg/Kg | 50 | ☼ | 8260D | Total/NA |
| Benzo[a]anthracene | 0.056 | J | 0.070 | 0.015 | mg/Kg | 2 | ☼ | 8270E | Total/NA |
| Bis(2-ethylhexyl) phthalate | 0.91 | | 0.35 | 0.27 | mg/Kg | 2 | ☼ | 8270E | Total/NA |
| Chrysene | 0.032 | J | 0.070 | 0.018 | mg/Kg | 2 | ☼ | 8270E | Total/NA |
| Diethyl phthalate | 0.17 | J | 0.35 | 0.032 | mg/Kg | 2 | ☼ | 8270E | Total/NA |
| Fluoranthene | 0.047 | J | 0.070 | 0.016 | mg/Kg | 2 | ☼ | 8270E | Total/NA |
| Phenanthrene | 0.016 | J | 0.070 | 0.015 | mg/Kg | 2 | ☼ | 8270E | Total/NA |
| Pyrene | 0.073 | | 0.070 | 0.019 | mg/Kg | 2 | ☼ | 8270E | Total/NA |
| WI Gasoline Range Organics (C5-C10) | 9400 | | 1800 | 910 | ug/Kg | 50 | ☼ | WI-GRO | Total/NA |
| Diesel Range Organics [C10-C28] | 970 | | 68 | 44 | mg/Kg | 20 | ☼ | WI-DRO | Total/NA |
| Arsenic | 1.2 | | 1.0 | 0.35 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Barium | 34 | | 1.0 | 0.12 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Cadmium | 1.9 | | 0.20 | 0.036 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Chromium | 6.8 | | 1.0 | 0.50 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Lead | 9.5 | | 0.50 | 0.23 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Barium | 0.45 | B | 0.010 | 0.0012 | mg/L | 1 | | 6010D | TCLP |
| Cadmium | 0.013 | | 0.0020 | 0.00043 | mg/L | 1 | | 6010D | TCLP |
| Free Liquid | PASS | | | | No Unit | 1 | | 9095B | Total/NA |
| Sieve Size 3 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 2 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 1.5 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 1 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 0.75 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 0.375 inch - Percent Finer | 80.2 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #4 - Percent Finer | 69.7 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #10 - Percent Finer | 62.9 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #20 - Percent Finer | 61.4 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #40 - Percent Finer | 56.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #60 - Percent Finer | 44.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #80 - Percent Finer | 34.7 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #100 - Percent Finer | 29.2 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #200 - Percent Finer | 22.2 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 1 - Percent Finer | 11.9 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 2 - Percent Finer | 6.5 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 3 - Percent Finer | 5.9 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 4 - Percent Finer | 4.4 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 5 - Percent Finer | 3.5 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 6 - Percent Finer | 2.6 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 7 - Percent Finer | 2.3 | | | | % Finer | 1 | | D422 | Total/NA |
| Gravel | 30.3 | | | | % | 1 | | D422 | Total/NA |
| Sand | 47.5 | | | | % | 1 | | D422 | Total/NA |
| Coarse Sand | 6.8 | | | | % | 1 | | D422 | Total/NA |
| Medium Sand | 6.9 | | | | % | 1 | | D422 | Total/NA |
| Fine Sand | 33.8 | | | | % | 1 | | D422 | Total/NA |
| Silt | 18.7 | | | | % | 1 | | D422 | Total/NA |
| Clay | 3.5 | | | | % | 1 | | D422 | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

## Client Sample ID: B2960

## Lab Sample ID: 500-273743-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.052 | J B | 0.11 | 0.051 | mg/Kg | 50 | ☼ | 8260D | Total/NA |
| Diethyl phthalate | 0.13 | J | 0.17 | 0.015 | mg/Kg | 1 | ☼ | 8270E | Total/NA |
| WI Gasoline Range Organics (C5-C10) | 1800 | | 1700 | 830 | ug/Kg | 50 | ☼ | WI-GRO | Total/NA |
| Diesel Range Organics [C10-C28] | 860 | | 69 | 45 | mg/Kg | 20 | ☼ | WI-DRO | Total/NA |
| Arsenic | 0.96 | | 0.95 | 0.32 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Barium | 23 | | 0.95 | 0.11 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Cadmium | 0.14 | J | 0.19 | 0.034 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Chromium | 3.6 | | 0.95 | 0.47 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Lead | 2.5 | | 0.47 | 0.22 | mg/Kg | 1 | ☼ | 6010D | Total/NA |
| Barium | 0.46 | B | 0.010 | 0.0012 | mg/L | 1 | | 6010D | TCLP |
| Cadmium | 0.0022 | | 0.0020 | 0.00043 | mg/L | 1 | | 6010D | TCLP |
| Chromium | 0.0032 | J B | 0.010 | 0.0017 | mg/L | 1 | | 6010D | TCLP |
| Lead | 0.0036 | J | 0.0050 | 0.0027 | mg/L | 1 | | 6010D | TCLP |
| Selenium | 0.0054 | J B | 0.010 | 0.0053 | mg/L | 1 | | 6010D | TCLP |
| Free Liquid | PASS | | | | No Unit | 1 | | 9095B | Total/NA |
| Sieve Size 3 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 2 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 1.5 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 1 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 0.75 inch - Percent Finer | 100.0 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size 0.375 inch - Percent Finer | 97.5 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #4 - Percent Finer | 93.7 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #10 - Percent Finer | 90.3 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #20 - Percent Finer | 88.8 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #40 - Percent Finer | 80.9 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #60 - Percent Finer | 57.8 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #80 - Percent Finer | 34.5 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #100 - Percent Finer | 21.2 | | | | % Finer | 1 | | D422 | Total/NA |
| Sieve Size #200 - Percent Finer | 9.8 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 1 - Percent Finer | 8.6 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 2 - Percent Finer | 7.1 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 3 - Percent Finer | 5.6 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 4 - Percent Finer | 4.7 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 5 - Percent Finer | 3.7 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 6 - Percent Finer | 3.2 | | | | % Finer | 1 | | D422 | Total/NA |
| Hydrometer Reading 7 - Percent Finer | 2.7 | | | | % Finer | 1 | | D422 | Total/NA |
| Gravel | 6.3 | | | | % | 1 | | D422 | Total/NA |
| Sand | 83.9 | | | | % | 1 | | D422 | Total/NA |
| Coarse Sand | 3.4 | | | | % | 1 | | D422 | Total/NA |
| Medium Sand | 9.4 | | | | % | 1 | | D422 | Total/NA |
| Fine Sand | 71.1 | | | | % | 1 | | D422 | Total/NA |
| Silt | 6.1 | | | | % | 1 | | D422 | Total/NA |
| Clay | 3.7 | | | | % | 1 | | D422 | Total/NA |

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260D | Volatile Organic Compounds by GC/MS | SW846 | EET CHI |
| 8270E | Semivolatile Organic Compounds (GC/MS) | SW846 | EET CHI |
| WI-GRO | Wisconsin - Gasoline Range Organics (GC) | WI-GRO | EET CHI |
| 8082A | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | EET CHI |
| WI-DRO | Wisconsin - Diesel Range Organics (GC) | WI-DRO | EET CHI |
| 6010D | Metals (ICP) | SW846 | EET CHI |
| 7470A | Mercury (CVAA) | SW846 | EET CHI |
| 7471B | Mercury (CVAA) | SW846 | EET CHI |
| 9095B | Paint Filter | SW846 | EET CHI |
| Moisture | Percent Moisture | EPA | EET CHI |
| D422 | Grain Size | ASTM | EET BUR |
| 1311 | TCLP Extraction | SW846 | EET CHI |
| 3010A | Preparation, Total Metals | SW846 | EET CHI |
| 3050B | Preparation, Metals | SW846 | EET CHI |
| 3541 | Automated Soxhlet Extraction | SW846 | EET CHI |
| 3546 | Microwave Extraction | SW846 | EET CHI |
| 5030B | Purge and Trap | SW846 | EET CHI |
| 5035 | Closed System Purge and Trap | SW846 | EET CHI |
| 7470A | Preparation, Mercury | SW846 | EET CHI |
| 7471B | Preparation, Mercury | SW846 | EET CHI |
| WI DRO PREP | Wisconsin Extraction (Diesel Range Organics) | WI-DRO | EET CHI |
| WI GRO | Closed System Purge and Trap | WI-GRO | EET CHI |

**Protocol References:**

ASTM = ASTM International
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.
WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

**Laboratory References:**

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990
EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

# Sample Summary

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Sample Origin |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Solid | 08/27/25 09:20 | 08/28/25 09:15 | Wisconsin |
| 500-273743-2 | B2960 | Solid | 08/27/25 08:45 | 08/28/25 09:15 | Wisconsin |

## Client Sample ID: Wash Rack

**Date Collected: 08/27/25 09:20**
**Date Received: 08/28/25 09:15**

## Lab Sample ID: 500-273743-1

**Matrix: Solid**
**Percent Solids: 90.6**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.0075 | | 0.015 | 0.0075 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Bromobenzene | <0.036 | | 0.061 | 0.036 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Bromochloromethane | <0.030 | | 0.061 | 0.030 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Bromodichloromethane | <0.035 | | 0.061 | 0.035 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Bromoform | <0.059 | | 0.061 | 0.059 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Bromomethane | <0.11 | *- | 0.18 | 0.11 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Carbon tetrachloride | <0.025 | | 0.061 | 0.025 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Chlorobenzene | <0.025 | | 0.061 | 0.025 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Chloroethane | <0.029 | *- | 0.30 | 0.029 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Chloroform | <0.056 | | 0.12 | 0.056 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Chloromethane | <0.048 | | 0.30 | 0.048 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 2-Chlorotoluene | <0.022 | | 0.061 | 0.022 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 4-Chlorotoluene | <0.021 | | 0.061 | 0.021 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| cis-1,2-Dichloroethene | <0.025 | | 0.061 | 0.025 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| cis-1,3-Dichloropropene | <0.032 | | 0.061 | 0.032 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Dibromochloromethane | <0.051 | | 0.061 | 0.051 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,2-Dibromo-3-Chloropropane | <0.25 | | 0.30 | 0.25 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,2-Dibromoethane | <0.034 | | 0.061 | 0.034 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Dibromomethane | <0.035 | | 0.061 | 0.035 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,2-Dichlorobenzene | <0.029 | | 0.061 | 0.029 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,3-Dichlorobenzene | <0.025 | | 0.061 | 0.025 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,4-Dichlorobenzene | <0.028 | | 0.061 | 0.028 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Dichlorodifluoromethane | <0.11 | | 0.18 | 0.11 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,1-Dichloroethane | <0.022 | | 0.061 | 0.022 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,2-Dichloroethane | <0.035 | | 0.061 | 0.035 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,1-Dichloroethene | <0.029 | | 0.061 | 0.029 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,2-Dichloropropane | <0.023 | | 0.061 | 0.023 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,3-Dichloropropane | <0.034 | | 0.061 | 0.034 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 2,2-Dichloropropane | <0.030 | | 0.30 | 0.030 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,1-Dichloropropene | <0.020 | | 0.061 | 0.020 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Ethylbenzene | <0.010 | | 0.015 | 0.010 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Hexachlorobutadiene | <0.033 | | 0.061 | 0.033 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Isopropylbenzene | <0.018 | | 0.061 | 0.018 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Isopropyl ether | <0.023 | | 0.061 | 0.023 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Methylene Chloride | <0.13 | | 0.30 | 0.13 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Methyl tert-butyl ether | <0.026 | | 0.061 | 0.026 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Naphthalene | <0.027 | | 0.061 | 0.027 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| n-Butylbenzene | <0.020 | | 0.061 | 0.020 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| N-Propylbenzene | <0.020 | | 0.061 | 0.020 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| p-Isopropyltoluene | <0.018 | | 0.061 | 0.018 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| sec-Butylbenzene | <0.017 | | 0.061 | 0.017 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Styrene | <0.019 | | 0.061 | 0.019 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| tert-Butylbenzene | <0.016 | | 0.061 | 0.016 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,1,1,2-Tetrachloroethane | <0.041 | | 0.061 | 0.041 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,1,2,2-Tetrachloroethane | <0.039 | | 0.061 | 0.039 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Tetrachloroethene | <0.024 | | 0.061 | 0.024 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Toluene | <0.013 | | 0.015 | 0.013 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| trans-1,2-Dichloroethene | <0.027 | | 0.061 | 0.027 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| trans-1,3-Dichloropropene | <0.039 | | 0.061 | 0.039 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |

## Client Sample ID: Wash Rack

**Date Collected: 08/27/25 09:20**
**Date Received: 08/28/25 09:15**

## Lab Sample ID: 500-273743-1

**Matrix: Solid**
**Percent Solids: 90.6**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | <0.021 | | 0.061 | 0.021 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,2,4-Trichlorobenzene | <0.019 | | 0.061 | 0.019 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,1,1-Trichloroethane | <0.027 | | 0.061 | 0.027 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,1,2-Trichloroethane | <0.045 | | 0.061 | 0.045 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Trichloroethene | <0.0090 | | 0.030 | 0.0090 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Trichlorofluoromethane | <0.027 | | 0.061 | 0.027 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| 1,2,3-Trichloropropane | <0.091 | | 0.12 | 0.091 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| **1,2,4-Trimethylbenzene** | **0.026** | **J** | 0.061 | 0.018 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| **1,3,5-Trimethylbenzene** | **0.022** | **J** | 0.061 | 0.018 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Vinyl chloride | <0.029 | | 0.061 | 0.029 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |
| Xylenes, Total | <0.014 | | 0.030 | 0.014 | mg/Kg | ☼ | 08/27/25 09:20 | 09/08/25 19:27 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *72 - 124* | *08/27/25 09:20* | *09/08/25 19:27* | *50* |
| *Dibromofluoromethane (Surr)* | *84* | | *75 - 120* | *08/27/25 09:20* | *09/08/25 19:27* | *50* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *75 - 126* | *08/27/25 09:20* | *09/08/25 19:27* | *50* |
| *Toluene-d8 (Surr)* | *102* | | *75 - 120* | *08/27/25 09:20* | *09/08/25 19:27* | *50* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <10 | | 20 | 10 | ug/L | | | 09/09/25 13:39 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *75 - 126* | | *09/09/25 13:39* | *20* |
| *Toluene-d8 (Surr)* | *98* | | *75 - 120* | | *09/09/25 13:39* | *20* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *72 - 124* | | *09/09/25 13:39* | *20* |
| *Dibromofluoromethane (Surr)* | *101* | | *75 - 120* | | *09/09/25 13:39* | *20* |

### Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | <0.014 | | 0.070 | 0.014 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Acenaphthylene | <0.012 | | 0.070 | 0.012 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Anthracene | <0.014 | | 0.070 | 0.014 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| **Benzo[a]anthracene** | **0.056** | **J** | 0.070 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Benzo[a]pyrene | <0.068 | | 0.070 | 0.068 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Benzo[b]fluoranthene | <0.067 | | 0.070 | 0.067 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Benzo[g,h,i]perylene | <0.031 | | 0.070 | 0.031 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Benzoic acid | <0.43 | | 3.5 | 0.43 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Benzo[k]fluoranthene | <0.027 | | 0.070 | 0.027 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Benzyl alcohol | <0.17 | | 1.4 | 0.17 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Bis(2-chloroethoxy)methane | <0.026 | | 0.35 | 0.026 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Bis(2-chloroethyl)ether | <0.032 | | 0.35 | 0.032 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| **Bis(2-ethylhexyl) phthalate** | **0.91** | | 0.35 | 0.27 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 4-Bromophenyl phenyl ether | <0.048 | | 0.35 | 0.048 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Butyl benzyl phthalate | <0.035 | | 0.35 | 0.035 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Carbazole | <0.028 | | 0.35 | 0.028 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 4-Chloroaniline | <0.73 | | 1.4 | 0.73 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 4-Chloro-3-methylphenol | <0.059 | | 0.70 | 0.059 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2-Chloronaphthalene | <0.026 | | 0.35 | 0.026 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2-Chlorophenol | <0.023 | | 0.35 | 0.023 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |

## Client Sample ID: Wash Rack
**Date Collected: 08/27/25 09:20**
**Date Received: 08/28/25 09:15**

## Lab Sample ID: 500-273743-1
**Matrix: Solid**
**Percent Solids: 90.6**

### Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Chlorophenyl phenyl ether | <0.092 | | 0.35 | 0.092 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| **Chrysene** | **0.032** | **J** | 0.070 | 0.018 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Dibenz(a,h)anthracene | <0.070 | | 0.070 | 0.070 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Dibenzofuran | <0.025 | | 0.35 | 0.025 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 1,2-Dichlorobenzene | <0.028 | | 0.35 | 0.028 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 1,3-Dichlorobenzene | <0.032 | | 0.35 | 0.032 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 1,4-Dichlorobenzene | <0.033 | | 0.35 | 0.033 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 3,3'-Dichlorobenzidine | <0.31 | | 0.35 | 0.31 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,4-Dichlorophenol | <0.025 | | 0.70 | 0.025 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| **Diethyl phthalate** | **0.17** | **J** | 0.35 | 0.032 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,4-Dimethylphenol | <0.16 | *+ | 0.70 | 0.16 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Dimethyl phthalate | <0.015 | | 0.35 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Di-n-butyl phthalate | <0.022 | | 0.35 | 0.022 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 4,6-Dinitro-2-methylphenol | <0.39 | | 1.4 | 0.39 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,4-Dinitrophenol | <0.41 | | 1.4 | 0.41 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,4-Dinitrotoluene | <0.040 | | 0.35 | 0.040 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,6-Dinitrotoluene | <0.049 | | 0.35 | 0.049 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Di-n-octyl phthalate | <0.49 | | 0.70 | 0.49 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| **Fluoranthene** | **0.047** | **J** | 0.070 | 0.016 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Fluorene | <0.021 | | 0.070 | 0.021 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Hexachlorobenzene | <0.013 | | 0.14 | 0.013 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Hexachlorobutadiene | <0.039 | | 0.35 | 0.039 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Hexachlorocyclopentadiene | <0.74 | | 1.4 | 0.74 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Hexachloroethane | <0.035 | | 0.35 | 0.035 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Indeno[1,2,3-cd]pyrene | <0.068 | | 0.070 | 0.068 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Isophorone | <0.036 | | 0.35 | 0.036 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 1-Methylnaphthalene | <0.013 | | 0.14 | 0.013 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2-Methylnaphthalene | <0.014 | | 0.14 | 0.014 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2-Methylphenol | <0.037 | | 0.35 | 0.037 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 3 & 4 Methylphenol | <0.051 | | 0.35 | 0.051 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Naphthalene | <0.013 | | 0.070 | 0.013 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2-Nitroaniline | <0.038 | | 0.35 | 0.038 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 3-Nitroaniline | <0.032 | | 0.70 | 0.032 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 4-Nitroaniline | <0.052 | | 0.70 | 0.052 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Nitrobenzene | <0.022 | | 0.070 | 0.022 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2-Nitrophenol | <0.047 | | 0.70 | 0.047 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 4-Nitrophenol | <0.76 | | 1.4 | 0.76 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| N-Nitrosodi-n-propylamine | <0.040 | | 0.14 | 0.040 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| N-Nitrosodiphenylamine | <0.14 | | 0.35 | 0.14 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,2'-oxybis[1-chloropropane] | <0.050 | *+ | 0.35 | 0.050 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Pentachlorophenol | <0.78 | | 1.4 | 0.78 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| **Phenanthrene** | **0.016** | **J** | 0.070 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Phenol | <0.030 | | 0.35 | 0.030 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| **Pyrene** | **0.073** | | 0.070 | 0.019 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| Pyridine | <0.46 | *+ | 1.4 | 0.46 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 1,2,4-Trichlorobenzene | <0.050 | | 0.35 | 0.050 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,4,5-Trichlorophenol | <0.026 | | 0.70 | 0.026 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |
| 2,4,6-Trichlorophenol | <0.024 | | 0.70 | 0.024 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 20:12 | 2 |

## Client Sample ID: Wash Rack

**Date Collected: 08/27/25 09:20**
**Date Received: 08/28/25 09:15**

## Lab Sample ID: 500-273743-1

**Matrix: Solid**
**Percent Solids: 90.6**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *96* | | *43 - 145* | *09/02/25 07:27* | *09/02/25 20:12* | *2* |
| *2-Fluorophenol (Surr)* | *91* | | *31 - 166* | *09/02/25 07:27* | *09/02/25 20:12* | *2* |
| *Nitrobenzene-d5 (Surr)* | *105* | | *37 - 147* | *09/02/25 07:27* | *09/02/25 20:12* | *2* |
| *Phenol-d5 (Surr)* | *93* | | *30 - 153* | *09/02/25 07:27* | *09/02/25 20:12* | *2* |
| *Terphenyl-d14 (Surr)* | *95* | | *42 - 157* | *09/02/25 07:27* | *09/02/25 20:12* | *2* |
| *2,4,6-Tribromophenol (Surr)* | *104* | | *31 - 143* | *09/02/25 07:27* | *09/02/25 20:12* | *2* |

### Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **WI Gasoline Range Organics (C5-C10)** | **9400** | | 1800 | 910 | ug/Kg | ☼ | 08/27/25 09:20 | 09/05/25 23:42 | 50 |

### Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | <7.2 | | 18 | 7.2 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 13:47 | 1 |
| PCB-1221 | <7.2 | | 18 | 7.2 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 13:47 | 1 |
| PCB-1232 | <5.0 | | 18 | 5.0 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 13:47 | 1 |
| PCB-1242 | <7.1 | | 18 | 7.1 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 13:47 | 1 |
| PCB-1248 | <8.7 | | 18 | 8.7 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 13:47 | 1 |
| PCB-1254 | <6.2 | | 18 | 6.2 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 13:47 | 1 |
| PCB-1260 | <6.9 | | 18 | 6.9 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 13:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *90* | | *49 - 129* | *08/29/25 15:41* | *09/03/25 13:47* | *1* |
| *DCB Decachlorobiphenyl* | *98* | | *37 - 121* | *08/29/25 15:41* | *09/03/25 13:47* | *1* |

### Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **970** | | 68 | 44 | mg/Kg | ☼ | 08/28/25 13:06 | 09/02/25 11:10 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Nonane* | | | | *08/28/25 13:06* | *09/02/25 11:10* | *20* |

### Method: SW846 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **1.2** | | 1.0 | 0.35 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 18:56 | 1 |
| **Barium** | **34** | | 1.0 | 0.12 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 18:56 | 1 |
| **Cadmium** | **1.9** | | 0.20 | 0.036 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 18:56 | 1 |
| **Chromium** | **6.8** | | 1.0 | 0.50 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 18:56 | 1 |
| **Lead** | **9.5** | | 0.50 | 0.23 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 18:56 | 1 |
| Selenium | <0.59 | | 1.0 | 0.59 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 18:56 | 1 |
| Silver | <0.13 | | 0.50 | 0.13 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 18:56 | 1 |

### Method: SW846 6010D - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.0037 | | 0.010 | 0.0037 | mg/L | | 09/04/25 13:40 | 09/05/25 23:31 | 1 |
| **Barium** | **0.45** | **B** | 0.010 | 0.0012 | mg/L | | 09/04/25 13:40 | 09/05/25 23:31 | 1 |
| **Cadmium** | **0.013** | | 0.0020 | 0.00043 | mg/L | | 09/04/25 13:40 | 09/05/25 23:31 | 1 |
| Chromium | <0.0017 | | 0.010 | 0.0017 | mg/L | | 09/04/25 13:40 | 09/05/25 23:31 | 1 |
| Lead | <0.0027 | | 0.0050 | 0.0027 | mg/L | | 09/04/25 13:40 | 09/05/25 23:31 | 1 |
| Selenium | <0.0053 | | 0.010 | 0.0053 | mg/L | | 09/04/25 13:40 | 09/05/25 23:31 | 1 |
| Silver | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 09/04/25 13:40 | 09/05/25 23:31 | 1 |

## Client Sample ID: Wash Rack

**Date Collected: 08/27/25 09:20**
**Date Received: 08/28/25 09:15**

## Lab Sample ID: 500-273743-1

**Matrix: Solid**
**Percent Solids: 90.6**

### Method: SW846 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 09/05/25 14:55 | 09/08/25 12:11 | 1 |

### Method: SW846 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.0069 | | 0.017 | 0.0069 | mg/Kg | ☼ | 09/10/25 15:15 | 09/11/25 08:37 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Free Liquid (SW846 9095B) | PASS | | | | No Unit | | | 09/11/25 03:50 | 1 |

### Method: ASTM D422 - Grain Size

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sieve Size 3 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size 2 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size 1.5 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size 1 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size 0.75 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size 0.375 inch - Percent Finer | 80.2 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #4 - Percent Finer | 69.7 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #10 - Percent Finer | 62.9 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #20 - Percent Finer | 61.4 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #40 - Percent Finer | 56.0 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #60 - Percent Finer | 44.0 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #80 - Percent Finer | 34.7 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #100 - Percent Finer | 29.2 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Sieve Size #200 - Percent Finer | 22.2 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Hydrometer Reading 1 - Percent Finer | 11.9 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Hydrometer Reading 2 - Percent Finer | 6.5 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Hydrometer Reading 3 - Percent Finer | 5.9 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Hydrometer Reading 4 - Percent Finer | 4.4 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Hydrometer Reading 5 - Percent Finer | 3.5 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Hydrometer Reading 6 - Percent Finer | 2.6 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Hydrometer Reading 7 - Percent Finer | 2.3 | | | | % Finer | | | 08/29/25 15:05 | 1 |
| Gravel | 30.3 | | | | % | | | 08/29/25 15:05 | 1 |
| Sand | 47.5 | | | | % | | | 08/29/25 15:05 | 1 |
| Coarse Sand | 6.8 | | | | % | | | 08/29/25 15:05 | 1 |
| Medium Sand | 6.9 | | | | % | | | 08/29/25 15:05 | 1 |
| Fine Sand | 33.8 | | | | % | | | 08/29/25 15:05 | 1 |
| Silt | 18.7 | | | | % | | | 08/29/25 15:05 | 1 |
| Clay | 3.5 | | | | % | | | 08/29/25 15:05 | 1 |

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

**Client Sample ID: B2960**
**Date Collected: 08/27/25 08:45**
**Date Received: 08/28/25 09:15**

**Lab Sample ID: 500-273743-2**
**Matrix: Solid**
**Percent Solids: 94.5**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.0068 | | 0.014 | 0.0068 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Bromobenzene | <0.033 | | 0.055 | 0.033 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Bromochloromethane | <0.027 | | 0.055 | 0.027 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Bromodichloromethane | <0.031 | | 0.055 | 0.031 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Bromoform | <0.053 | | 0.055 | 0.053 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Bromomethane | <0.099 | *- | 0.17 | 0.099 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Carbon tetrachloride | <0.023 | | 0.055 | 0.023 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Chlorobenzene | <0.023 | | 0.055 | 0.023 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Chloroethane | <0.026 | *- | 0.28 | 0.026 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| **Chloroform** | **0.052** | **J B** | 0.11 | 0.051 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Chloromethane | <0.043 | | 0.28 | 0.043 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 2-Chlorotoluene | <0.020 | | 0.055 | 0.020 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 4-Chlorotoluene | <0.019 | | 0.055 | 0.019 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| cis-1,2-Dichloroethene | <0.023 | | 0.055 | 0.023 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| cis-1,3-Dichloropropene | <0.029 | | 0.055 | 0.029 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Dibromochloromethane | <0.046 | | 0.055 | 0.046 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2-Dibromo-3-Chloropropane | <0.22 | | 0.28 | 0.22 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2-Dibromoethane | <0.031 | | 0.055 | 0.031 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Dibromomethane | <0.032 | | 0.055 | 0.032 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2-Dichlorobenzene | <0.026 | | 0.055 | 0.026 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,3-Dichlorobenzene | <0.022 | | 0.055 | 0.022 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,4-Dichlorobenzene | <0.025 | | 0.055 | 0.025 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Dichlorodifluoromethane | <0.097 | | 0.17 | 0.097 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,1-Dichloroethane | <0.020 | | 0.055 | 0.020 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2-Dichloroethane | <0.032 | | 0.055 | 0.032 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,1-Dichloroethene | <0.026 | | 0.055 | 0.026 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2-Dichloropropane | <0.021 | | 0.055 | 0.021 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,3-Dichloropropane | <0.031 | | 0.055 | 0.031 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 2,2-Dichloropropane | <0.027 | | 0.28 | 0.027 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,1-Dichloropropene | <0.018 | | 0.055 | 0.018 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Ethylbenzene | <0.0094 | | 0.014 | 0.0094 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Hexachlorobutadiene | <0.030 | | 0.055 | 0.030 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Isopropylbenzene | <0.016 | | 0.055 | 0.016 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Isopropyl ether | <0.021 | | 0.055 | 0.021 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Methylene Chloride | <0.12 | | 0.28 | 0.12 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Methyl tert-butyl ether | <0.024 | | 0.055 | 0.024 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Naphthalene | <0.024 | | 0.055 | 0.024 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| n-Butylbenzene | <0.018 | | 0.055 | 0.018 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| N-Propylbenzene | <0.018 | | 0.055 | 0.018 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| p-Isopropyltoluene | <0.016 | | 0.055 | 0.016 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| sec-Butylbenzene | <0.015 | | 0.055 | 0.015 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Styrene | <0.017 | | 0.055 | 0.017 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| tert-Butylbenzene | <0.015 | | 0.055 | 0.015 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,1,1,2-Tetrachloroethane | <0.037 | | 0.055 | 0.037 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,1,2,2-Tetrachloroethane | <0.036 | | 0.055 | 0.036 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Tetrachloroethene | <0.021 | | 0.055 | 0.021 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Toluene | <0.012 | | 0.014 | 0.012 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| trans-1,2-Dichloroethene | <0.024 | | 0.055 | 0.024 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| trans-1,3-Dichloropropene | <0.035 | | 0.055 | 0.035 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |

**Client Sample ID: B2960**
**Date Collected: 08/27/25 08:45**
**Date Received: 08/28/25 09:15**

**Lab Sample ID: 500-273743-2**
**Matrix: Solid**
**Percent Solids: 94.5**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | <0.019 | | 0.055 | 0.019 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2,4-Trichlorobenzene | <0.017 | | 0.055 | 0.017 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,1,1-Trichloroethane | <0.025 | | 0.055 | 0.025 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,1,2-Trichloroethane | <0.040 | | 0.055 | 0.040 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Trichloroethene | <0.0082 | | 0.028 | 0.0082 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Trichlorofluoromethane | <0.024 | | 0.055 | 0.024 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2,3-Trichloropropane | <0.082 | | 0.11 | 0.082 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,2,4-Trimethylbenzene | <0.017 | | 0.055 | 0.017 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| 1,3,5-Trimethylbenzene | <0.016 | | 0.055 | 0.016 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Vinyl chloride | <0.026 | | 0.055 | 0.026 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |
| Xylenes, Total | <0.013 | | 0.028 | 0.013 | mg/Kg | ☼ | 08/27/25 08:45 | 09/08/25 19:51 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *72 - 124* | *08/27/25 08:45* | *09/08/25 19:51* | *50* |
| *Dibromofluoromethane (Surr)* | *81* | | *75 - 120* | *08/27/25 08:45* | *09/08/25 19:51* | *50* |
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *75 - 126* | *08/27/25 08:45* | *09/08/25 19:51* | *50* |
| *Toluene-d8 (Surr)* | *104* | | *75 - 120* | *08/27/25 08:45* | *09/08/25 19:51* | *50* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <10 | | 20 | 10 | ug/L | | | 09/09/25 13:16 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *107* | | *75 - 126* | | *09/09/25 13:16* | *20* |
| *Toluene-d8 (Surr)* | *98* | | *75 - 120* | | *09/09/25 13:16* | *20* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *72 - 124* | | *09/09/25 13:16* | *20* |
| *Dibromofluoromethane (Surr)* | *103* | | *75 - 120* | | *09/09/25 13:16* | *20* |

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | <0.0068 | | 0.033 | 0.0068 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Acenaphthylene | <0.0056 | | 0.033 | 0.0056 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Anthracene | <0.0068 | | 0.033 | 0.0068 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Benzo[a]anthracene | <0.0070 | | 0.033 | 0.0070 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Benzo[a]pyrene | <0.032 | | 0.033 | 0.032 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Benzo[b]fluoranthene | <0.032 | | 0.033 | 0.032 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Benzo[g,h,i]perylene | <0.015 | | 0.033 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Benzoic acid | <0.20 | | 1.7 | 0.20 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Benzo[k]fluoranthene | <0.013 | | 0.033 | 0.013 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Benzyl alcohol | <0.081 | | 0.67 | 0.081 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Bis(2-chloroethoxy)methane | <0.012 | | 0.17 | 0.012 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Bis(2-chloroethyl)ether | <0.015 | | 0.17 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.13 | | 0.17 | 0.13 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 4-Bromophenyl phenyl ether | <0.023 | | 0.17 | 0.023 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Butyl benzyl phthalate | <0.017 | | 0.17 | 0.017 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Carbazole | <0.013 | | 0.17 | 0.013 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 4-Chloroaniline | <0.35 | | 0.67 | 0.35 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 4-Chloro-3-methylphenol | <0.028 | | 0.33 | 0.028 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2-Chloronaphthalene | <0.012 | | 0.17 | 0.012 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2-Chlorophenol | <0.011 | | 0.17 | 0.011 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |

**Client Sample ID: B2960**
**Date Collected: 08/27/25 08:45**
**Date Received: 08/28/25 09:15**

**Lab Sample ID: 500-273743-2**
**Matrix: Solid**
**Percent Solids: 94.5**

## Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Chlorophenyl phenyl ether | <0.044 | | 0.17 | 0.044 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Chrysene | <0.0088 | | 0.033 | 0.0088 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Dibenz(a,h)anthracene | <0.033 | | 0.033 | 0.033 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Dibenzofuran | <0.012 | | 0.17 | 0.012 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 1,2-Dichlorobenzene | <0.014 | | 0.17 | 0.014 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 1,3-Dichlorobenzene | <0.015 | | 0.17 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 1,4-Dichlorobenzene | <0.016 | | 0.17 | 0.016 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 3,3'-Dichlorobenzidine | <0.15 | | 0.17 | 0.15 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,4-Dichlorophenol | <0.012 | | 0.33 | 0.012 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| **Diethyl phthalate** | **0.13** | **J** | 0.17 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,4-Dimethylphenol | <0.074 | *+ | 0.33 | 0.074 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Dimethyl phthalate | <0.0072 | | 0.17 | 0.0072 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Di-n-butyl phthalate | <0.011 | | 0.17 | 0.011 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.19 | | 0.67 | 0.19 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,4-Dinitrophenol | <0.19 | | 0.67 | 0.19 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,4-Dinitrotoluene | <0.019 | | 0.17 | 0.019 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,6-Dinitrotoluene | <0.023 | | 0.17 | 0.023 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Di-n-octyl phthalate | <0.23 | | 0.33 | 0.23 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Fluoranthene | <0.0077 | | 0.033 | 0.0077 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Fluorene | <0.0098 | | 0.033 | 0.0098 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Hexachlorobenzene | <0.0064 | | 0.067 | 0.0064 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Hexachlorobutadiene | <0.019 | | 0.17 | 0.019 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Hexachlorocyclopentadiene | <0.35 | | 0.67 | 0.35 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Hexachloroethane | <0.017 | | 0.17 | 0.017 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.032 | | 0.033 | 0.032 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Isophorone | <0.017 | | 0.17 | 0.017 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 1-Methylnaphthalene | <0.0059 | | 0.067 | 0.0059 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2-Methylnaphthalene | <0.0067 | | 0.067 | 0.0067 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2-Methylphenol | <0.018 | | 0.17 | 0.018 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 3 & 4 Methylphenol | <0.024 | | 0.17 | 0.024 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Naphthalene | <0.0060 | | 0.033 | 0.0060 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2-Nitroaniline | <0.018 | | 0.17 | 0.018 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 3-Nitroaniline | <0.015 | | 0.33 | 0.015 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 4-Nitroaniline | <0.025 | | 0.33 | 0.025 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Nitrobenzene | <0.011 | | 0.033 | 0.011 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2-Nitrophenol | <0.023 | | 0.33 | 0.023 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 4-Nitrophenol | <0.36 | | 0.67 | 0.36 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| N-Nitrosodi-n-propylamine | <0.019 | | 0.067 | 0.019 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| N-Nitrosodiphenylamine | <0.066 | | 0.17 | 0.066 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.024 | *+ | 0.17 | 0.024 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Pentachlorophenol | <0.37 | | 0.67 | 0.37 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Phenanthrene | <0.0072 | | 0.033 | 0.0072 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Phenol | <0.014 | | 0.17 | 0.014 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Pyrene | <0.0091 | | 0.033 | 0.0091 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Pyridine | <0.22 | *+ | 0.67 | 0.22 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 1,2,4-Trichlorobenzene | <0.024 | | 0.17 | 0.024 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,4,5-Trichlorophenol | <0.013 | | 0.33 | 0.013 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,4,6-Trichlorophenol | <0.011 | | 0.33 | 0.011 | mg/Kg | ☼ | 09/02/25 07:27 | 09/02/25 18:37 | 1 |

## Client Sample ID: B2960
**Date Collected: 08/27/25 08:45**
**Date Received: 08/28/25 09:15**

## Lab Sample ID: 500-273743-2
**Matrix: Solid**
**Percent Solids: 94.5**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl (Surr) | 83 | | 43 - 145 | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2-Fluorophenol (Surr) | 74 | | 31 - 166 | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Nitrobenzene-d5 (Surr) | 90 | | 37 - 147 | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Phenol-d5 (Surr) | 76 | | 30 - 153 | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| Terphenyl-d14 (Surr) | 91 | | 42 - 157 | 09/02/25 07:27 | 09/02/25 18:37 | 1 |
| 2,4,6-Tribromophenol (Surr) | 99 | | 31 - 143 | 09/02/25 07:27 | 09/02/25 18:37 | 1 |

### Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| WI Gasoline Range Organics (C5-C10) | 1800 | | 1700 | 830 | ug/Kg | ☼ | 08/27/25 08:45 | 09/06/25 00:15 | 50 |

### Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | <6.9 | | 17 | 6.9 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 14:32 | 1 |
| PCB-1221 | <6.9 | | 17 | 6.9 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 14:32 | 1 |
| PCB-1232 | <4.7 | | 17 | 4.7 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 14:32 | 1 |
| PCB-1242 | <6.8 | | 17 | 6.8 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 14:32 | 1 |
| PCB-1248 | <8.3 | | 17 | 8.3 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 14:32 | 1 |
| PCB-1254 | <5.9 | | 17 | 5.9 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 14:32 | 1 |
| PCB-1260 | <6.6 | | 17 | 6.6 | ug/Kg | ☼ | 08/29/25 15:41 | 09/03/25 14:32 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 89 | | 49 - 129 | 08/29/25 15:41 | 09/03/25 14:32 | 1 |
| DCB Decachlorobiphenyl | 117 | | 37 - 121 | 08/29/25 15:41 | 09/03/25 14:32 | 1 |

### Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 860 | | 69 | 45 | mg/Kg | ☼ | 08/28/25 13:06 | 09/02/25 11:31 | 20 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| n-Nonane | | | | 08/28/25 13:06 | 09/02/25 11:31 | 20 |

### Method: SW846 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.96 | | 0.95 | 0.32 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 19:01 | 1 |
| Barium | 23 | | 0.95 | 0.11 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 19:01 | 1 |
| Cadmium | 0.14 | J | 0.19 | 0.034 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 19:01 | 1 |
| Chromium | 3.6 | | 0.95 | 0.47 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 19:01 | 1 |
| Lead | 2.5 | | 0.47 | 0.22 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 19:01 | 1 |
| Selenium | <0.56 | | 0.95 | 0.56 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 19:01 | 1 |
| Silver | <0.12 | | 0.47 | 0.12 | mg/Kg | ☼ | 09/09/25 08:54 | 09/10/25 19:01 | 1 |

### Method: SW846 6010D - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.0037 | | 0.010 | 0.0037 | mg/L | | 09/04/25 13:40 | 09/05/25 23:35 | 1 |
| Barium | 0.46 | B | 0.010 | 0.0012 | mg/L | | 09/04/25 13:40 | 09/05/25 23:35 | 1 |
| Cadmium | 0.0022 | | 0.0020 | 0.00043 | mg/L | | 09/04/25 13:40 | 09/05/25 23:35 | 1 |
| Chromium | 0.0032 | J B | 0.010 | 0.0017 | mg/L | | 09/04/25 13:40 | 09/05/25 23:35 | 1 |
| Lead | 0.0036 | J | 0.0050 | 0.0027 | mg/L | | 09/04/25 13:40 | 09/05/25 23:35 | 1 |
| Selenium | 0.0054 | J B | 0.010 | 0.0053 | mg/L | | 09/04/25 13:40 | 09/05/25 23:35 | 1 |
| Silver | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 09/04/25 13:40 | 09/05/25 23:35 | 1 |

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

**Client Sample ID: B2960**
**Date Collected: 08/27/25 08:45**
**Date Received: 08/28/25 09:15**

**Lab Sample ID: 500-273743-2**
**Matrix: Solid**
**Percent Solids: 94.5**

### Method: SW846 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 09/05/25 14:55 | 09/08/25 12:13 | 1 |

### Method: SW846 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.0068 | | 0.016 | 0.0068 | mg/Kg | ☼ | 09/10/25 15:15 | 09/11/25 08:39 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Free Liquid (SW846 9095B) | PASS | | | | No Unit | | | 09/11/25 04:00 | 1 |

### Method: ASTM D422 - Grain Size

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sieve Size 3 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size 2 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size 1.5 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size 1 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size 0.75 inch - Percent Finer | 100.0 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size 0.375 inch - Percent Finer | 97.5 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #4 - Percent Finer | 93.7 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #10 - Percent Finer | 90.3 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #20 - Percent Finer | 88.8 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #40 - Percent Finer | 80.9 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #60 - Percent Finer | 57.8 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #80 - Percent Finer | 34.5 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #100 - Percent Finer | 21.2 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Sieve Size #200 - Percent Finer | 9.8 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Hydrometer Reading 1 - Percent Finer | 8.6 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Hydrometer Reading 2 - Percent Finer | 7.1 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Hydrometer Reading 3 - Percent Finer | 5.6 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Hydrometer Reading 4 - Percent Finer | 4.7 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Hydrometer Reading 5 - Percent Finer | 3.7 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Hydrometer Reading 6 - Percent Finer | 3.2 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Hydrometer Reading 7 - Percent Finer | 2.7 | | | | % Finer | | | 08/29/25 15:07 | 1 |
| Gravel | 6.3 | | | | % | | | 08/29/25 15:07 | 1 |
| Sand | 83.9 | | | | % | | | 08/29/25 15:07 | 1 |
| Coarse Sand | 3.4 | | | | % | | | 08/29/25 15:07 | 1 |
| Medium Sand | 9.4 | | | | % | | | 08/29/25 15:07 | 1 |
| Fine Sand | 71.1 | | | | % | | | 08/29/25 15:07 | 1 |
| Silt | 6.1 | | | | % | | | 08/29/25 15:07 | 1 |
| Clay | 3.7 | | | | % | | | 08/29/25 15:07 | 1 |

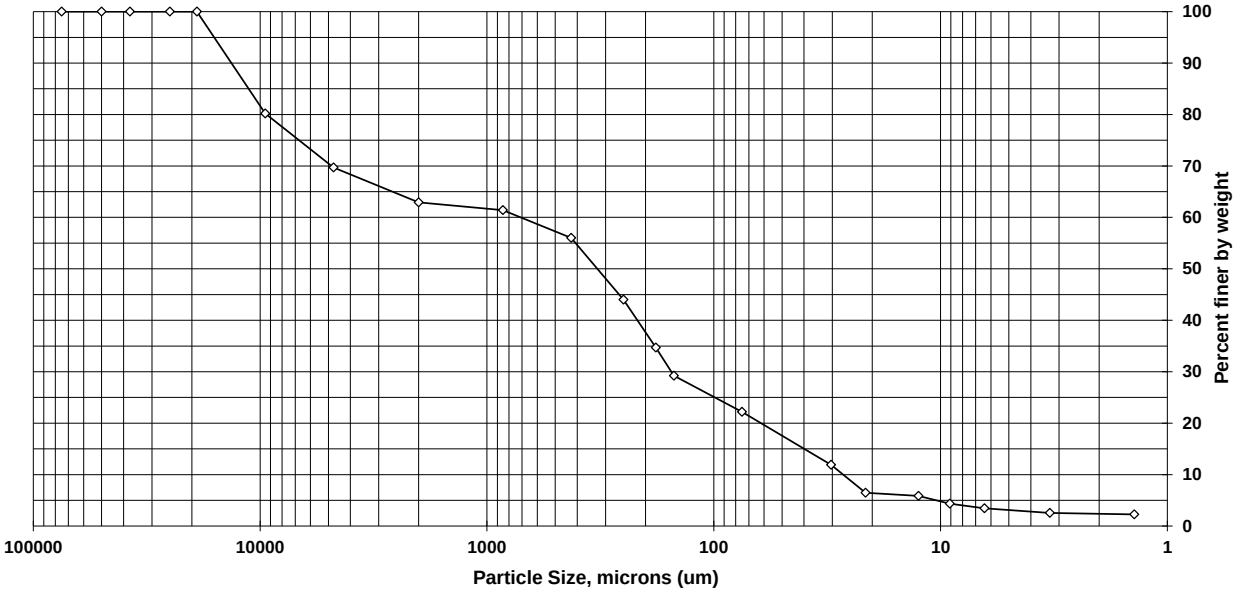
# Particle Size of Soils by ASTM D422

**Sample ID:** Wash Rack
**Lab ID:** 500-273743-H-1

**Percent Solids:** 93.0%
**Specific Gravity:** 2.650

**Date Received:** 8/28/2025
**Start Date:** 8/29/2025
**End Date:** 9/5/2025

**Shape (> #10):** subangular
**Non-soil material:** plant
**Hardness (> #10):** hard




| Sieve size | Particle size, um | Percent finer | Incremental percent |
|---|---|---|---|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 80.2 | 19.8 |
| #4 | 4750 | 69.7 | 10.5 |
| #10 | 2000 | 62.9 | 6.8 |
| #20 | 850 | 61.4 | 1.5 |
| #40 | 425 | 56.0 | 5.4 |
| #60 | 250 | 44.0 | 12.0 |
| #80 | 180 | 34.7 | 9.3 |
| #100 | 150 | 29.2 | 5.5 |
| #200 | 75 | 22.2 | 7.0 |
| Hyd1 | 30.4 | 11.9 | 10.3 |
| Hyd2 | 21.4 | 6.5 | 5.4 |
| Hyd3 | 12.5 | 5.9 | 0.6 |
| Hyd4 | 9.1 | 4.4 | 1.5 |
| Hyd5 | 6.4 | 3.5 | 0.9 |
| Hyd6 | 3.3 | 2.6 | 0.9 |
| Hyd7 | 1.4 | 2.3 | 0.3 |
| | | | |

| Soil Classification | Percent of sample |
|---|---|
| Gravel | 30.3 |
| Sand | 47.5 |
| Coarse Sand | 6.8 |
| Medium Sand | 6.9 |
| Fine Sand | 33.8 |
| Silt | 18.7 |
| Clay | 3.5 |
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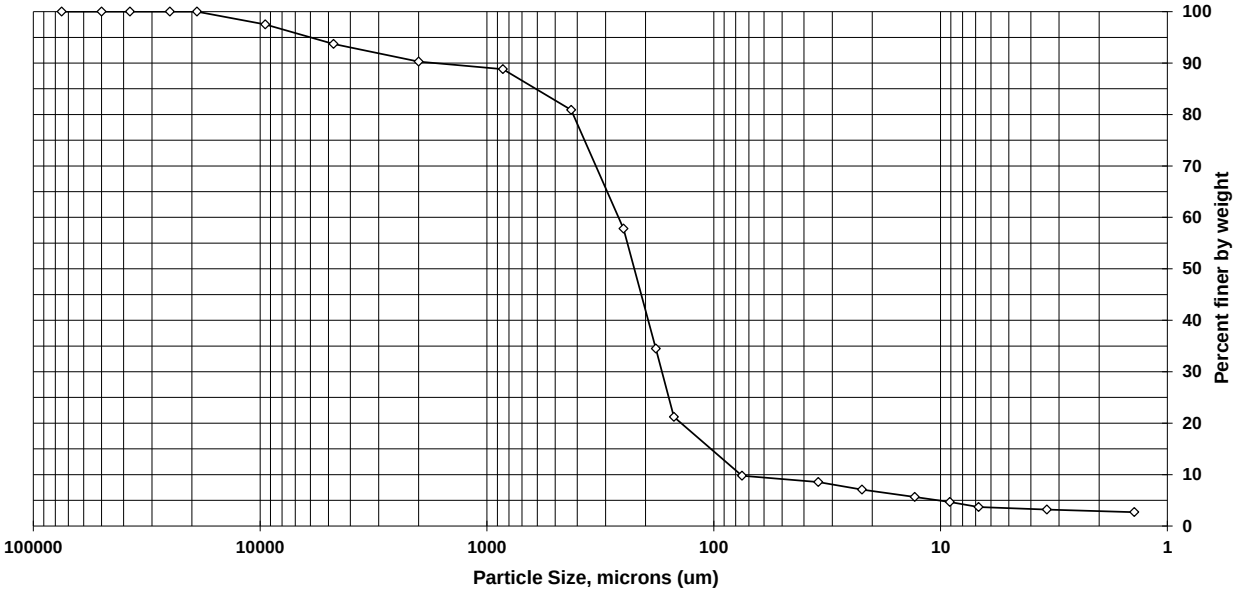
# Particle Size of Soils by ASTM D422

**Sample ID:** B2960
**Lab ID:** 500-273743-H-2

**Percent Solids:** 96.1%
**Specific Gravity:** 2.650

**Date Received:** 8/28/2025
**Start Date:** 8/29/2025
**End Date:** 9/5/2025

**Shape (> #10):** subangular
**Non-soil material:** plant
**Hardness (> #10):** hard




| Sieve size | Particle size, um | Percent finer | Incremental percent |
|---|---|---|---|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 97.5 | 2.5 |
| #4 | 4750 | 93.7 | 3.8 |
| #10 | 2000 | 90.3 | 3.4 |
| #20 | 850 | 88.8 | 1.5 |
| #40 | 425 | 80.9 | 7.9 |
| #60 | 250 | 57.8 | 23.1 |
| #80 | 180 | 34.5 | 23.3 |
| #100 | 150 | 21.2 | 13.3 |
| #200 | 75 | 9.8 | 11.4 |
| Hyd1 | 34.6 | 8.6 | 1.2 |
| Hyd2 | 22.2 | 7.1 | 1.5 |
| Hyd3 | 13 | 5.6 | 1.5 |
| Hyd4 | 9.1 | 4.7 | 1.0 |
| Hyd5 | 6.8 | 3.7 | 1.0 |
| Hyd6 | 3.4 | 3.2 | 0.5 |
| Hyd7 | 1.4 | 2.7 | 0.5 |
| | | | |

| Soil Classification | Percent of sample |
|---|---|
| Gravel | 6.3 |
| Sand | 83.9 |
| Coarse Sand | 3.4 |
| Medium Sand | 9.4 |
| Fine Sand | 71.1 |
| Silt | 6.1 |
| Clay | 3.7 |
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**Sediment Grain Size - D422**

| | |
|---|---|
| Client | |
| Client Sample ID | Wash Rack |
| Lab Sample ID | 500-273743-H-1 |

| | |
|---|---|
| Date Received | 8/28/2025 |
| Start Date | 08/29/2025 15:05 |
| End Date | 09/05/2025 11:44 |

**Dry Weight Determination**

| | | |
|---|---|---|
| Tin Weight | 0.97 | g |
| Wet Sample + Tin | 27.27 | g |
| Dry Sample + Tin | 25.44 | g |
| % Moisture | 6.96 | % |

| | |
|---|---|
| Non-soil material: | plant |
| Shape (> #10): | subangular |
| Hardness (> #10): | hard |

| | |
|---|---|
| Date/Time in oven | 08/29/2025 15:06 |
| Date/Time out of oven | 09/01/2025 10:54 |

| Sample Weights | Tare (g) | Pan+Samp (g) | Samp (g) |
|---|---|---|---|
| Sample Weight (Wet) | 47.83 | 334.44 | 286.61 |
| Sample Weight (Oven Dried) | | | 267 |

| Sample Split (oven dried) | Tare (g) | Pan+Samp (g) | Samp (g) |
|---|---|---|---|
| Sample >=#10 | | | 99.1 |
| Sample <#10 | | | 168 |
| % Passing #10 | | | 58.6 |

**Hydrometer Data**

| | |
|---|---|
| Serial Number | 503315 |
| Calib. Date (mm/dd/yyyy) | 05/05/2025 |
| Low Temp (C) | 17.0 |
| Reading at Low Temp | 1.0050 |
| High Temp (C) | 23.0 |
| Reading at High Temp | 1.0035 |
| Hydrometer Cal Slope | -0.00025 |
| Hydrometer Cal Intercept | 1.00925 |
| Default Soil Gravity | 2.6500 |

**Gravel/Sand Fraction (Sieves)**

| Sample Fraction | Size (um) | Pan Tare (g) | Pan+Sample (g) | Sample | | % Finer | Classification | Sub Class |
|---|---|---|---|---|---|---|---|---|
| 3 inch | 75000 | | | 0.00 | g | 100.0 | Gravel | |
| 2 inch | 50000 | | | 0.00 | g | 100.0 | Gravel | |
| 1.5 inch | 37500 | | | 0.00 | g | 100.0 | Gravel | |
| 1 inch | 25000 | | | 0.00 | g | 100.0 | Gravel | |
| 3/4 inch | 19000 | | | 0.00 | g | 100.0 | Gravel | |
| 3/8 inch | 9500 | 447.11 | 500.06 | 52.95 | g | 80.2 | Gravel | |
| #4 | 4750 | 487.82 | 515.74 | 27.92 | g | 69.7 | Gravel | |
| #10 | 2000 | 462.33 | 480.55 | 18.22 | g | 62.9 | Sand | Coarse |
| #20 | 850 | 371.14 | 375.15 | 4.01 | g | 61.4 | Sand | Medium |
| #40 | 425 | 352.99 | 367.34 | 14.35 | g | 56.0 | Sand | Medium |
| #60 | 250 | 350.75 | 382.90 | 32.15 | g | 44.0 | Sand | Fine |
| #80 | 180 | 318.09 | 342.88 | 24.79 | g | 34.7 | Sand | Fine |
| #100 | 150 | 327.06 | 341.78 | 14.72 | g | 29.2 | Sand | Fine |
| #200 | 75 | 311.50 | 330.29 | 18.79 | g | 22.2 | Sand | Fine |
| | | | | 0.00 | g | 22.2 | | |

**Adjusted Hydrometer Sample Mass**

| | |
|---|---|
| Hydrometer Sample Mass (g) | 267 |

**Silt/Clay Fraction (Hydrometer Test)**

| Hydrometer Test Time (min) | Actual | Spec. Gravity | Temp C | Particle Size (Micron) | % Finer | Classification | Sub Class |
|---|---|---|---|---|---|---|---|
| 2 | 2 | 1.0240 | 20.0 | 30.4 | 11.9 | Silt | |
| 5 | 5 | 1.0150 | 20.0 | 21.4 | 6.47 | Silt | |
| 15 | 15 | 1.0140 | 20.0 | 12.5 | 5.86 | Silt | |
| 30 | 30 | 1.0115 | 20.0 | 9.1 | 4.36 | Silt | |
| 60 | 63 | 1.0100 | 20.0 | 6.4 | 3.46 | Silt | |
| 250 | 241 | 1.0085 | 20.0 | 3.3 | 2.56 | Clay | |
| 1440 | 1388 | 1.0080 | 20.0 | 1.4 | 2.26 | Clay | |

**Sediment Grain Size - D422**

| | |
|---|---|
| Client | |
| Client Sample ID | B2960 |
| Lab Sample ID | 500-273743-H-2 |

| | |
|---|---|
| Date Received | 8/28/2025 |
| Start Date | 08/29/2025 15:07 |
| End Date | 09/05/2025 11:57 |

**Dry Weight Determination**

| | | |
|---|---|---|
| Tin Weight | 0.97 | g |
| Wet Sample + Tin | 23.97 | g |
| Dry Sample + Tin | 23.08 | g |
| % Moisture | 3.87 | % |

| | |
|---|---|
| Non-soil material: | plant |
| Shape (> #10): | subangular |
| Hardness (> #10): | hard |

| | |
|---|---|
| Date/Time in oven | 08/29/2025 15:08 |
| Date/Time out of oven | 09/01/2025 10:54 |

| Sample Weights | Tare (g) | Pan+Samp (g) | Samp (g) |
|---|---|---|---|
| Sample Weight (Wet) | 47.72 | 218.76 | 171.04 |
| Sample Weight (Oven Dried) | | | 164 |

| Sample Split (oven dried) | Tare (g) | Pan+Samp (g) | Samp (g) |
|---|---|---|---|
| Sample >=#10 | | | 16.1 |
| Sample <#10 | | | 148 |
| % Passing #10 | | | 86.5 |

**Hydrometer Data**

| | |
|---|---|
| Serial Number | 503315 |
| Calib. Date (mm/dd/yyyy) | 05/05/2025 |
| Low Temp (C) | 17.0 |
| Reading at Low Temp | 1.0050 |
| High Temp (C) | 23.0 |
| Reading at High Temp | 1.0035 |
| Hydrometer Cal Slope | -0.00025 |
| Hydrometer Cal Intercept | 1.00925 |
| Default Soil Gravity | 2.6500 |

**Gravel/Sand Fraction (Sieves)**

| Sample Fraction | Size (um) | Pan Tare (g) | Pan+Sample (g) | Sample | | % Finer | Classification | Sub Class |
|---|---|---|---|---|---|---|---|---|
| 3 inch | 75000 | | | 0.00 | g | 100.0 | Gravel | |
| 2 inch | 50000 | | | 0.00 | g | 100.0 | Gravel | |
| 1.5 inch | 37500 | | | 0.00 | g | 100.0 | Gravel | |
| 1 inch | 25000 | | | 0.00 | g | 100.0 | Gravel | |
| 3/4 inch | 19000 | | | 0.00 | g | 100.0 | Gravel | |
| 3/8 inch | 9500 | 447.11 | 451.26 | 4.15 | g | 97.5 | Gravel | |
| #4 | 4750 | 487.82 | 494.12 | 6.30 | g | 93.7 | Gravel | |
| #10 | 2000 | 462.33 | 467.94 | 5.61 | g | 90.3 | Sand | Coarse |
| #20 | 850 | 371.14 | 373.54 | 2.40 | g | 88.8 | Sand | Medium |
| #40 | 425 | 352.99 | 365.98 | 12.99 | g | 80.9 | Sand | Medium |
| #60 | 250 | 350.75 | 388.70 | 37.95 | g | 57.8 | Sand | Fine |
| #80 | 180 | 318.09 | 356.25 | 38.16 | g | 34.5 | Sand | Fine |
| #100 | 150 | 327.06 | 348.88 | 21.82 | g | 21.2 | Sand | Fine |
| #200 | 75 | 311.50 | 330.22 | 18.72 | g | 9.8 | Sand | Fine |
| | | | | 0.00 | g | 9.8 | | |

**Adjusted Hydrometer Sample Mass**

| | |
|---|---|
| Hydrometer Sample Mass (g) | 164 |

**Silt/Clay Fraction (Hydrometer Test)**

| Hydrometer Test Time (min) | Actual | Spec. Gravity | Temp C | Particle Size (Micron) | % Finer | Classification | Sub Class |
|---|---|---|---|---|---|---|---|
| 2 | 2 | 1.0130 | 20.0 | 34.6 | 8.57 | Silt | |
| 5 | 5 | 1.0115 | 20.0 | 22.2 | 7.1 | Silt | |
| 15 | 15 | 1.0100 | 20.0 | 13 | 5.63 | Silt | |
| 30 | 31 | 1.0090 | 20.0 | 9.1 | 4.65 | Silt | |
| 60 | 57 | 1.0080 | 20.0 | 6.8 | 3.67 | Silt | |
| 250 | 235 | 1.0075 | 20.0 | 3.4 | 3.18 | Clay | |
| 1440 | 1382 | 1.0070 | 20.0 | 1.4 | 2.69 | Clay | |

# Definitions/Glossary

Client: US Army
Job ID: 500-273743-1
Project/Site: Fort McCoy - Soils Total/TCLP

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| *- | LCS and/or LCSD is outside acceptance limits, low biased. |
| 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. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### 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: 832295

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 5035 | |
| 500-273743-2 | B2960 | Total/NA | Solid | 5035 | |
| LB3 500-832295/21-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 500-832295/22-A | Lab Control Sample | Total/NA | Solid | 5035 | |

### Leach Batch: 832582

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | TCLP | Solid | 1311 | |
| 500-273743-2 | B2960 | TCLP | Solid | 1311 | |

### Analysis Batch: 832878

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 8260D | 832295 |
| 500-273743-2 | B2960 | Total/NA | Solid | 8260D | 832295 |
| MB 500-832878/7 | Method Blank | Total/NA | Solid | 8260D | |
| LCS 500-832878/4 | Lab Control Sample | Total/NA | Solid | 8260D | |
| LCSD 500-832878/5 | Lab Control Sample Dup | Total/NA | Solid | 8260D | |

### Analysis Batch: 833061

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LB3 500-832295/21-A | Method Blank | Total/NA | Solid | 8260D | 832295 |
| MB 500-833061/8 | Method Blank | Total/NA | Solid | 8260D | |
| LCS 500-832295/22-A | Lab Control Sample | Total/NA | Solid | 8260D | 832295 |
| LCS 500-833061/4 | Lab Control Sample | Total/NA | Solid | 8260D | |
| LCSD 500-833061/5 | Lab Control Sample Dup | Total/NA | Solid | 8260D | |

### Analysis Batch: 833063

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | TCLP | Solid | 8260D | 832582 |
| 500-273743-2 | B2960 | TCLP | Solid | 8260D | 832582 |
| MB 500-833063/8 | Method Blank | Total/NA | Solid | 8260D | |
| LCS 500-833063/4 | Lab Control Sample | Total/NA | Solid | 8260D | |

## GC/MS Semi VOA

### Prep Batch: 832145

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 3546 | |
| 500-273743-2 | B2960 | Total/NA | Solid | 3546 | |
| MB 500-832145/1-A | Method Blank | Total/NA | Solid | 3546 | |
| LCS 500-832145/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |

### Analysis Batch: 832190

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 500-832145/1-A | Method Blank | Total/NA | Solid | 8270E | 832145 |
| LCS 500-832145/2-A | Lab Control Sample | Total/NA | Solid | 8270E | 832145 |

### Analysis Batch: 832192

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 8270E | 832145 |
| 500-273743-2 | B2960 | Total/NA | Solid | 8270E | 832145 |

# QC Association Summary

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

## GC VOA

### Prep Batch: 832295

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 5035 | |
| 500-273743-2 | B2960 | Total/NA | Solid | 5035 | |
| LB3 500-832295/21-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 500-832295/23-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 500-832295/24-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

### Analysis Batch: 832787

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | WI-GRO | 832295 |
| 500-273743-2 | B2960 | Total/NA | Solid | WI-GRO | 832295 |
| LB3 500-832295/21-A | Method Blank | Total/NA | Solid | WI-GRO | 832295 |
| LCS 500-832295/23-A | Lab Control Sample | Total/NA | Solid | WI-GRO | 832295 |
| LCSD 500-832295/24-A | Lab Control Sample Dup | Total/NA | Solid | WI-GRO | 832295 |

## GC Semi VOA

### Prep Batch: 831890

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | WI DRO PREP | |
| 500-273743-2 | B2960 | Total/NA | Solid | WI DRO PREP | |
| MB 500-831890/1-A | Method Blank | Total/NA | Solid | WI DRO PREP | |
| LCS 500-831890/2-A | Lab Control Sample | Total/NA | Solid | WI DRO PREP | |
| LCSD 500-831890/3-A | Lab Control Sample Dup | Total/NA | Solid | WI DRO PREP | |

### Analysis Batch: 832058

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 500-831890/1-A | Method Blank | Total/NA | Solid | WI-DRO | 831890 |
| LCS 500-831890/2-A | Lab Control Sample | Total/NA | Solid | WI-DRO | 831890 |
| LCSD 500-831890/3-A | Lab Control Sample Dup | Total/NA | Solid | WI-DRO | 831890 |

### Prep Batch: 832112

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 3541 | |
| 500-273743-2 | B2960 | Total/NA | Solid | 3541 | |
| MB 500-832112/1-A | Method Blank | Total/NA | Solid | 3541 | |
| LCS 500-832112/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| 500-273743-1 MS | Wash Rack | Total/NA | Solid | 3541 | |
| 500-273743-1 MSD | Wash Rack | Total/NA | Solid | 3541 | |

### Analysis Batch: 832152

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | WI-DRO | 831890 |
| 500-273743-2 | B2960 | Total/NA | Solid | WI-DRO | 831890 |

### Analysis Batch: 832371

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 8082A | 832112 |
| 500-273743-2 | B2960 | Total/NA | Solid | 8082A | 832112 |
| MB 500-832112/1-A | Method Blank | Total/NA | Solid | 8082A | 832112 |
| LCS 500-832112/2-A | Lab Control Sample | Total/NA | Solid | 8082A | 832112 |
| 500-273743-1 MS | Wash Rack | Total/NA | Solid | 8082A | 832112 |

## GC Semi VOA (Continued)

### Analysis Batch: 832371 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 MSD | Wash Rack | Total/NA | Solid | 8082A | 832112 |

## Metals

### Leach Batch: 832354

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | TCLP | Solid | 1311 | |
| 500-273743-2 | B2960 | TCLP | Solid | 1311 | |
| LB 500-832354/1-B | Method Blank | TCLP | Solid | 1311 | |
| LB 500-832354/1-C | Method Blank | TCLP | Solid | 1311 | |

### Prep Batch: 832598

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | TCLP | Solid | 3010A | 832354 |
| 500-273743-2 | B2960 | TCLP | Solid | 3010A | 832354 |
| LB 500-832354/1-B | Method Blank | TCLP | Solid | 3010A | 832354 |
| LCS 500-832598/2-A | Lab Control Sample | Total/NA | Solid | 3010A | |

### Prep Batch: 832804

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | TCLP | Solid | 7470A | 832354 |
| 500-273743-2 | B2960 | TCLP | Solid | 7470A | 832354 |
| LB 500-832354/1-C | Method Blank | TCLP | Solid | 7470A | 832354 |
| MB 500-832804/12-A | Method Blank | Total/NA | Solid | 7470A | |
| LCS 500-832804/14-A | Lab Control Sample | Total/NA | Solid | 7470A | |

### Analysis Batch: 832922

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | TCLP | Solid | 6010D | 832598 |
| 500-273743-2 | B2960 | TCLP | Solid | 6010D | 832598 |
| LB 500-832354/1-B | Method Blank | TCLP | Solid | 6010D | 832598 |
| LCS 500-832598/2-A | Lab Control Sample | Total/NA | Solid | 6010D | 832598 |

### Analysis Batch: 832962

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | TCLP | Solid | 7470A | 832804 |
| 500-273743-2 | B2960 | TCLP | Solid | 7470A | 832804 |
| LB 500-832354/1-C | Method Blank | TCLP | Solid | 7470A | 832804 |
| MB 500-832804/12-A | Method Blank | Total/NA | Solid | 7470A | 832804 |
| LCS 500-832804/14-A | Lab Control Sample | Total/NA | Solid | 7470A | 832804 |

### Prep Batch: 833112

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 3050B | |
| 500-273743-2 | B2960 | Total/NA | Solid | 3050B | |
| MB 500-833112/1-A | Method Blank | Total/NA | Solid | 3050B | |
| LCS 500-833112/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |

### Prep Batch: 833332

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 7471B | |

## Metals (Continued)

### Prep Batch: 833332 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-2 | B2960 | Total/NA | Solid | 7471B | |
| MB 500-833332/12-A | Method Blank | Total/NA | Solid | 7471B | |
| LCS 500-833332/13-A | Lab Control Sample | Total/NA | Solid | 7471B | |

### Analysis Batch: 833485

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 6010D | 833112 |
| 500-273743-2 | B2960 | Total/NA | Solid | 6010D | 833112 |
| MB 500-833112/1-A | Method Blank | Total/NA | Solid | 6010D | 833112 |
| LCS 500-833112/2-A | Lab Control Sample | Total/NA | Solid | 6010D | 833112 |

### Analysis Batch: 833552

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 7471B | 833332 |
| 500-273743-2 | B2960 | Total/NA | Solid | 7471B | 833332 |
| MB 500-833332/12-A | Method Blank | Total/NA | Solid | 7471B | 833332 |
| LCS 500-833332/13-A | Lab Control Sample | Total/NA | Solid | 7471B | 833332 |

## General Chemistry

### Analysis Batch: 832087

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | Moisture | |
| 500-273743-2 | B2960 | Total/NA | Solid | Moisture | |
| 500-273743-1 DU | Wash Rack | Total/NA | Solid | Moisture | |

### Analysis Batch: 833429

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | 9095B | |
| 500-273743-2 | B2960 | Total/NA | Solid | 9095B | |

## Geotechnical

### Analysis Batch: 219821

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-273743-1 | Wash Rack | Total/NA | Solid | D422 | |
| 500-273743-2 | B2960 | Total/NA | Solid | D422 | |

# Surrogate Summary

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

## Method: 8260D - Volatile Organic Compounds by 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) |
| 500-273743-1 | Wash Rack | 98 | 84 | 100 | 102 |
| 500-273743-2 | B2960 | 98 | 81 | 96 | 104 |
| LB3 500-832295/21-A | Method Blank | 96 | 92 | 91 | 100 |
| LCS 500-832295/22-A | Lab Control Sample | 94 | 96 | 90 | 100 |
| LCS 500-832878/4 | Lab Control Sample | 102 | 81 | 98 | 100 |
| LCS 500-833061/4 | Lab Control Sample | 93 | 95 | 88 | 102 |
| LCS 500-833063/4 | Lab Control Sample | 93 | 101 | 105 | 99 |
| LCSD 500-832878/5 | Lab Control Sample Dup | 101 | 79 | 97 | 103 |
| LCSD 500-833061/5 | Lab Control Sample Dup | 93 | 96 | 90 | 101 |
| MB 500-832878/7 | Method Blank | 97 | 80 | 98 | 105 |
| MB 500-833061/8 | Method Blank | 98 | 97 | 91 | 101 |
| MB 500-833063/8 | Method Blank | 94 | 101 | 106 | 98 |

**Surrogate Legend**

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

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

**Matrix: Solid** — **Prep Type: TCLP**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | TOL | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (75-126) | (75-120) | (72-124) | (75-120) |
| 500-273743-1 | Wash Rack | 106 | 98 | 95 | 101 |
| 500-273743-2 | B2960 | 107 | 98 | 93 | 103 |

**Surrogate Legend**

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

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

**Matrix: Solid** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|---|---|---|---|---|---|---|---|
| | | FBP | 2FP | NBZ | PHL | TPHL | TBP |
| Lab Sample ID | Client Sample ID | (43-145) | (31-166) | (37-147) | (30-153) | (42-157) | (31-143) |
| 500-273743-1 | Wash Rack | 96 | 91 | 105 | 93 | 95 | 104 |
| 500-273743-2 | B2960 | 83 | 74 | 90 | 76 | 91 | 99 |
| LCS 500-832145/2-A | Lab Control Sample | 91 | 97 | 99 | 102 | 100 | 79 |
| MB 500-832145/1-A | Method Blank | 85 | 91 | 96 | 93 | 98 | 71 |

**Surrogate Legend**

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

# Surrogate Summary

Client: US Army
Project/Site: Fort McCoy - Soils Total/TCLP

Job ID: 500-273743-1

## 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) |
| 500-273743-1 | Wash Rack | 90 | 98 |
| 500-273743-1 MS | Wash Rack | 90 | 86 |
| 500-273743-1 MSD | Wash Rack | 88 | 110 |
| 500-273743-2 | B2960 | 89 | 117 |
| LCS 500-832112/2-A | Lab Control Sample | 97 | 70 |
| MB 500-832112/1-A | Method Blank | 75 | 88 |

**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 | |
| 500-273743-1 | Wash Rack | |
| 500-273743-2 | B2960 | |
| MB 500-831890/1-A | Method Blank | |

**Surrogate Legend**

C9 = n-Nonane

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

**Lab Sample ID: LB3 500-832295/21-A**
**Matrix: Solid**
**Analysis Batch: 833061**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 832295**

| Analyte | LB3 Result | LB3 Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.0061 | | 0.013 | 0.0061 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Bromobenzene | <0.030 | | 0.050 | 0.030 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Bromochloromethane | <0.025 | | 0.050 | 0.025 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Bromodichloromethane | <0.028 | | 0.050 | 0.028 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Bromoform | <0.048 | | 0.050 | 0.048 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Bromomethane | <0.090 | | 0.15 | 0.090 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Carbon tetrachloride | <0.021 | | 0.050 | 0.021 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Chlorobenzene | <0.021 | | 0.050 | 0.021 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Chloroethane | <0.024 | | 0.25 | 0.024 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Chloroform | <0.046 | | 0.10 | 0.046 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Chloromethane | <0.039 | | 0.25 | 0.039 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 2-Chlorotoluene | <0.018 | | 0.050 | 0.018 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 4-Chlorotoluene | <0.017 | | 0.050 | 0.017 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| cis-1,2-Dichloroethene | <0.021 | | 0.050 | 0.021 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| cis-1,3-Dichloropropene | <0.026 | | 0.050 | 0.026 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Dibromochloromethane | <0.041 | | 0.050 | 0.041 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2-Dibromo-3-Chloropropane | <0.20 | | 0.25 | 0.20 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2-Dibromoethane | <0.028 | | 0.050 | 0.028 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Dibromomethane | <0.029 | | 0.050 | 0.029 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2-Dichlorobenzene | <0.024 | | 0.050 | 0.024 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,3-Dichlorobenzene | <0.020 | | 0.050 | 0.020 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,4-Dichlorobenzene | <0.023 | | 0.050 | 0.023 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Dichlorodifluoromethane | <0.088 | | 0.15 | 0.088 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,1-Dichloroethane | <0.018 | | 0.050 | 0.018 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2-Dichloroethane | <0.029 | | 0.050 | 0.029 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,1-Dichloroethene | <0.024 | | 0.050 | 0.024 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2-Dichloropropane | <0.019 | | 0.050 | 0.019 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,3-Dichloropropane | <0.028 | | 0.050 | 0.028 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 2,2-Dichloropropane | <0.024 | | 0.25 | 0.024 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,1-Dichloropropene | <0.017 | | 0.050 | 0.017 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Ethylbenzene | <0.0086 | | 0.013 | 0.0086 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Hexachlorobutadiene | <0.027 | | 0.050 | 0.027 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Isopropylbenzene | <0.015 | | 0.050 | 0.015 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Isopropyl ether | <0.019 | | 0.050 | 0.019 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Methylene Chloride | <0.11 | | 0.25 | 0.11 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Methyl tert-butyl ether | <0.022 | | 0.050 | 0.022 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Naphthalene | <0.022 | | 0.050 | 0.022 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| n-Butylbenzene | <0.016 | | 0.050 | 0.016 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| N-Propylbenzene | <0.016 | | 0.050 | 0.016 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| p-Isopropyltoluene | <0.015 | | 0.050 | 0.015 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| sec-Butylbenzene | <0.014 | | 0.050 | 0.014 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Styrene | <0.015 | | 0.050 | 0.015 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| tert-Butylbenzene | <0.013 | | 0.050 | 0.013 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,1,1,2-Tetrachloroethane | <0.033 | | 0.050 | 0.033 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,1,2,2-Tetrachloroethane | <0.032 | | 0.050 | 0.032 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Tetrachloroethene | <0.019 | | 0.050 | 0.019 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Toluene | <0.011 | | 0.013 | 0.011 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| trans-1,2-Dichloroethene | <0.022 | | 0.050 | 0.022 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |

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

**Lab Sample ID: LB3 500-832295/21-A**
**Matrix: Solid**
**Analysis Batch: 833061**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 832295**

| Analyte | LB3 Result | LB3 Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | <0.032 | | 0.050 | 0.032 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2,3-Trichlorobenzene | <0.018 | | 0.050 | 0.018 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2,4-Trichlorobenzene | <0.015 | | 0.050 | 0.015 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,1,1-Trichloroethane | <0.023 | | 0.050 | 0.023 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,1,2-Trichloroethane | <0.037 | | 0.050 | 0.037 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Trichloroethene | <0.0074 | | 0.025 | 0.0074 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Trichlorofluoromethane | <0.022 | | 0.050 | 0.022 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2,3-Trichloropropane | <0.075 | | 0.10 | 0.075 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,2,4-Trimethylbenzene | <0.015 | | 0.050 | 0.015 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| 1,3,5-Trimethylbenzene | <0.014 | | 0.050 | 0.014 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Vinyl chloride | <0.023 | | 0.050 | 0.023 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |
| Xylenes, Total | <0.012 | | 0.025 | 0.012 | mg/Kg | | 09/02/25 18:14 | 09/09/25 15:15 | 50 |

| *Surrogate* | *LB3 %Recovery* | *LB3 Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *96* | | *72 - 124* | *09/02/25 18:14* | *09/09/25 15:15* | *50* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 120* | *09/02/25 18:14* | *09/09/25 15:15* | *50* |
| *1,2-Dichloroethane-d4 (Surr)* | *91* | | *75 - 126* | *09/02/25 18:14* | *09/09/25 15:15* | *50* |
| *Toluene-d8 (Surr)* | *100* | | *75 - 120* | *09/02/25 18:14* | *09/09/25 15:15* | *50* |

**Lab Sample ID: LCS 500-832295/22-A**
**Matrix: Solid**
**Analysis Batch: 833061**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832295**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 2.50 | 2.48 | | mg/Kg | | 99 | 70 - 120 |
| Bromobenzene | 2.50 | 2.54 | | mg/Kg | | 102 | 70 - 122 |
| Bromochloromethane | 2.50 | 2.60 | | mg/Kg | | 104 | 65 - 122 |
| Bromodichloromethane | 2.50 | 2.47 | | mg/Kg | | 99 | 69 - 120 |
| Bromoform | 2.50 | 2.57 | | mg/Kg | | 103 | 56 - 132 |
| Bromomethane | 2.50 | 0.531 | *- | mg/Kg | | 21 | 40 - 152 |
| Carbon tetrachloride | 2.50 | 2.13 | | mg/Kg | | 85 | 59 - 133 |
| Chlorobenzene | 2.50 | 2.62 | | mg/Kg | | 105 | 70 - 120 |
| Chloroethane | 2.50 | 0.652 | *- | mg/Kg | | 26 | 48 - 136 |
| Chloroform | 2.50 | 2.53 | | mg/Kg | | 101 | 70 - 120 |
| Chloromethane | 2.50 | 1.75 | | mg/Kg | | 70 | 56 - 152 |
| 2-Chlorotoluene | 2.50 | 2.37 | | mg/Kg | | 95 | 70 - 125 |
| 4-Chlorotoluene | 2.50 | 2.40 | | mg/Kg | | 96 | 68 - 124 |
| cis-1,2-Dichloroethene | 2.50 | 2.53 | | mg/Kg | | 101 | 70 - 125 |
| cis-1,3-Dichloropropene | 2.50 | 2.45 | | mg/Kg | | 98 | 64 - 127 |
| Dibromochloromethane | 2.50 | 2.54 | | mg/Kg | | 101 | 68 - 125 |
| 1,2-Dibromo-3-Chloropropane | 2.50 | 2.14 | | mg/Kg | | 86 | 56 - 123 |
| 1,2-Dibromoethane | 2.50 | 2.65 | | mg/Kg | | 106 | 70 - 125 |
| Dibromomethane | 2.50 | 2.52 | | mg/Kg | | 101 | 70 - 120 |
| 1,2-Dichlorobenzene | 2.50 | 2.62 | | mg/Kg | | 105 | 70 - 125 |
| 1,3-Dichlorobenzene | 2.50 | 2.58 | | mg/Kg | | 103 | 70 - 125 |
| 1,4-Dichlorobenzene | 2.50 | 2.58 | | mg/Kg | | 103 | 70 - 120 |
| Dichlorodifluoromethane | 2.50 | 1.26 | | mg/Kg | | 50 | 40 - 159 |
| 1,1-Dichloroethane | 2.50 | 2.23 | | mg/Kg | | 89 | 70 - 125 |

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

**Lab Sample ID: LCS 500-832295/22-A**
**Matrix: Solid**
**Analysis Batch: 833061**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832295**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 2.50 | 2.26 | | mg/Kg | | 90 | 68 - 127 |
| 1,1-Dichloroethene | 2.50 | 2.18 | | mg/Kg | | 87 | 67 - 122 |
| 1,2-Dichloropropane | 2.50 | 2.32 | | mg/Kg | | 93 | 67 - 130 |
| 1,3-Dichloropropane | 2.50 | 2.69 | | mg/Kg | | 107 | 62 - 136 |
| 2,2-Dichloropropane | 2.50 | 1.87 | | mg/Kg | | 75 | 58 - 139 |
| 1,1-Dichloropropene | 2.50 | 2.32 | | mg/Kg | | 93 | 70 - 121 |
| Ethylbenzene | 2.50 | 2.51 | | mg/Kg | | 100 | 70 - 123 |
| Hexachlorobutadiene | 2.50 | 2.61 | | mg/Kg | | 104 | 51 - 150 |
| Isopropylbenzene | 2.50 | 2.28 | | mg/Kg | | 91 | 70 - 126 |
| Methylene Chloride | 2.50 | 2.43 | | mg/Kg | | 97 | 69 - 125 |
| Methyl tert-butyl ether | 2.50 | 2.47 | | mg/Kg | | 99 | 55 - 123 |
| Naphthalene | 2.50 | 1.86 | | mg/Kg | | 75 | 53 - 144 |
| n-Butylbenzene | 2.50 | 2.28 | | mg/Kg | | 91 | 68 - 125 |
| N-Propylbenzene | 2.50 | 2.32 | | mg/Kg | | 93 | 69 - 127 |
| p-Isopropyltoluene | 2.50 | 2.38 | | mg/Kg | | 95 | 70 - 125 |
| sec-Butylbenzene | 2.50 | 2.31 | | mg/Kg | | 92 | 70 - 123 |
| Styrene | 2.50 | 2.68 | | mg/Kg | | 107 | 70 - 120 |
| tert-Butylbenzene | 2.50 | 2.31 | | mg/Kg | | 92 | 70 - 121 |
| 1,1,1,2-Tetrachloroethane | 2.50 | 2.58 | | mg/Kg | | 103 | 70 - 125 |
| 1,1,2,2-Tetrachloroethane | 2.50 | 2.55 | | mg/Kg | | 102 | 62 - 140 |
| Tetrachloroethene | 2.50 | 2.44 | | mg/Kg | | 98 | 70 - 128 |
| Toluene | 2.50 | 2.41 | | mg/Kg | | 97 | 70 - 125 |
| trans-1,2-Dichloroethene | 2.50 | 2.39 | | mg/Kg | | 96 | 70 - 125 |
| trans-1,3-Dichloropropene | 2.50 | 2.46 | | mg/Kg | | 98 | 62 - 128 |
| 1,2,3-Trichlorobenzene | 2.50 | 1.95 | | mg/Kg | | 78 | 51 - 145 |
| 1,2,4-Trichlorobenzene | 2.50 | 2.27 | | mg/Kg | | 91 | 57 - 137 |
| 1,1,1-Trichloroethane | 2.50 | 2.28 | | mg/Kg | | 91 | 70 - 125 |
| 1,1,2-Trichloroethane | 2.50 | 2.76 | | mg/Kg | | 111 | 71 - 130 |
| Trichloroethene | 2.50 | 2.48 | | mg/Kg | | 99 | 70 - 125 |
| Trichlorofluoromethane | 2.50 | 1.66 | | mg/Kg | | 66 | 55 - 128 |
| 1,2,3-Trichloropropane | 2.50 | 2.54 | | mg/Kg | | 102 | 50 - 133 |
| 1,2,4-Trimethylbenzene | 2.50 | 2.37 | | mg/Kg | | 95 | 70 - 123 |
| 1,3,5-Trimethylbenzene | 2.50 | 2.35 | | mg/Kg | | 94 | 70 - 123 |
| Vinyl chloride | 2.50 | 1.79 | | mg/Kg | | 72 | 64 - 126 |
| Xylenes, Total | 5.00 | 4.88 | | mg/Kg | | 98 | 70 - 125 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *96* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *90* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *100* | | *75 - 120* |

**Lab Sample ID: MB 500-832878/7**
**Matrix: Solid**
**Analysis Batch: 832878**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00012 | | 0.00025 | 0.00012 | mg/Kg | | | 09/08/25 12:51 | 1 |

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

**Lab Sample ID: MB 500-832878/7**
**Matrix: Solid**
**Analysis Batch: 832878**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | <0.00060 | | 0.0010 | 0.00060 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Bromochloromethane | <0.00050 | | 0.0010 | 0.00050 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Bromodichloromethane | <0.00057 | | 0.0010 | 0.00057 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Bromoform | <0.00096 | | 0.0010 | 0.00096 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Bromomethane | <0.0018 | | 0.0030 | 0.0018 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Carbon tetrachloride | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Chlorobenzene | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Chloroethane | <0.00047 | | 0.0050 | 0.00047 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Chloroform | 0.000948 | J | 0.0020 | 0.00092 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Chloromethane | <0.00079 | | 0.0050 | 0.00079 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 2-Chlorotoluene | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 4-Chlorotoluene | <0.00034 | | 0.0010 | 0.00034 | mg/Kg | | | 09/08/25 12:51 | 1 |
| cis-1,2-Dichloroethene | <0.00042 | | 0.0010 | 0.00042 | mg/Kg | | | 09/08/25 12:51 | 1 |
| cis-1,3-Dichloropropene | <0.00052 | | 0.0010 | 0.00052 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Dibromochloromethane | <0.00083 | | 0.0010 | 0.00083 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.0041 | | 0.0050 | 0.0041 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2-Dibromoethane | <0.00056 | | 0.0010 | 0.00056 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Dibromomethane | <0.00058 | | 0.0010 | 0.00058 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2-Dichlorobenzene | <0.00048 | | 0.0010 | 0.00048 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,3-Dichlorobenzene | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,4-Dichlorobenzene | <0.00045 | | 0.0010 | 0.00045 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Dichlorodifluoromethane | <0.0018 | | 0.0030 | 0.0018 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,1-Dichloroethane | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2-Dichloroethane | <0.00058 | | 0.0010 | 0.00058 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,1-Dichloroethene | <0.00048 | | 0.0010 | 0.00048 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2-Dichloropropane | <0.00037 | | 0.0010 | 0.00037 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,3-Dichloropropane | <0.00056 | | 0.0010 | 0.00056 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 2,2-Dichloropropane | <0.00048 | | 0.0050 | 0.00048 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,1-Dichloropropene | <0.00033 | | 0.0010 | 0.00033 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Ethylbenzene | <0.00017 | | 0.00025 | 0.00017 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Hexachlorobutadiene | <0.00054 | | 0.0010 | 0.00054 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Isopropylbenzene | <0.00029 | | 0.0010 | 0.00029 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Isopropyl ether | <0.00038 | | 0.0010 | 0.00038 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Methylene Chloride | <0.0021 | | 0.0050 | 0.0021 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Methyl tert-butyl ether | <0.00043 | | 0.0010 | 0.00043 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Naphthalene | <0.00044 | | 0.0010 | 0.00044 | mg/Kg | | | 09/08/25 12:51 | 1 |
| n-Butylbenzene | <0.00033 | | 0.0010 | 0.00033 | mg/Kg | | | 09/08/25 12:51 | 1 |
| N-Propylbenzene | <0.00032 | | 0.0010 | 0.00032 | mg/Kg | | | 09/08/25 12:51 | 1 |
| p-Isopropyltoluene | <0.00029 | | 0.0010 | 0.00029 | mg/Kg | | | 09/08/25 12:51 | 1 |
| sec-Butylbenzene | <0.00027 | | 0.0010 | 0.00027 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Styrene | <0.00031 | | 0.0010 | 0.00031 | mg/Kg | | | 09/08/25 12:51 | 1 |
| tert-Butylbenzene | <0.00026 | | 0.0010 | 0.00026 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.00067 | | 0.0010 | 0.00067 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00065 | | 0.0010 | 0.00065 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Tetrachloroethene | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Toluene | <0.00021 | | 0.00025 | 0.00021 | mg/Kg | | | 09/08/25 12:51 | 1 |
| trans-1,2-Dichloroethene | <0.00044 | | 0.0010 | 0.00044 | mg/Kg | | | 09/08/25 12:51 | 1 |
| trans-1,3-Dichloropropene | <0.00063 | | 0.0010 | 0.00063 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2,3-Trichlorobenzene | <0.00035 | | 0.0010 | 0.00035 | mg/Kg | | | 09/08/25 12:51 | 1 |

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

**Lab Sample ID: MB 500-832878/7**
**Matrix: Solid**
**Analysis Batch: 832878**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | <0.00031 | | 0.0010 | 0.00031 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,1,1-Trichloroethane | <0.00045 | | 0.0010 | 0.00045 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,1,2-Trichloroethane | <0.00073 | | 0.0010 | 0.00073 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Trichloroethene | <0.00015 | | 0.00050 | 0.00015 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Trichlorofluoromethane | <0.00044 | | 0.0010 | 0.00044 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2,3-Trichloropropane | <0.0015 | | 0.0020 | 0.0015 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,2,4-Trimethylbenzene | <0.00030 | | 0.0010 | 0.00030 | mg/Kg | | | 09/08/25 12:51 | 1 |
| 1,3,5-Trimethylbenzene | <0.00029 | | 0.0010 | 0.00029 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Vinyl chloride | <0.00047 | | 0.0010 | 0.00047 | mg/Kg | | | 09/08/25 12:51 | 1 |
| Xylenes, Total | <0.00024 | | 0.00050 | 0.00024 | mg/Kg | | | 09/08/25 12:51 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *72 - 124* | | *09/08/25 12:51* | *1* |
| *Dibromofluoromethane (Surr)* | *80* | | *75 - 120* | | *09/08/25 12:51* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *75 - 126* | | *09/08/25 12:51* | *1* |
| *Toluene-d8 (Surr)* | *105* | | *75 - 120* | | *09/08/25 12:51* | *1* |

**Lab Sample ID: LCS 500-832878/4**
**Matrix: Solid**
**Analysis Batch: 832878**

**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 | 0.0524 | | mg/Kg | | 105 | 70 - 120 |
| Bromobenzene | 0.0500 | 0.0519 | | mg/Kg | | 104 | 70 - 122 |
| Bromochloromethane | 0.0500 | 0.0561 | | mg/Kg | | 112 | 65 - 122 |
| Bromodichloromethane | 0.0500 | 0.0532 | | mg/Kg | | 106 | 69 - 120 |
| Bromoform | 0.0500 | 0.0539 | | mg/Kg | | 108 | 56 - 132 |
| Bromomethane | 0.0500 | 0.0444 | | mg/Kg | | 89 | 40 - 152 |
| Carbon tetrachloride | 0.0500 | 0.0546 | | mg/Kg | | 109 | 59 - 133 |
| Chlorobenzene | 0.0500 | 0.0522 | | mg/Kg | | 104 | 70 - 120 |
| Chloroethane | 0.0500 | 0.0505 | | mg/Kg | | 101 | 48 - 136 |
| Chloroform | 0.0500 | 0.0512 | | mg/Kg | | 102 | 70 - 120 |
| Chloromethane | 0.0500 | 0.0488 | | mg/Kg | | 98 | 56 - 152 |
| 2-Chlorotoluene | 0.0500 | 0.0471 | | mg/Kg | | 94 | 70 - 125 |
| 4-Chlorotoluene | 0.0500 | 0.0469 | | mg/Kg | | 94 | 68 - 124 |
| cis-1,2-Dichloroethene | 0.0500 | 0.0514 | | mg/Kg | | 103 | 70 - 125 |
| cis-1,3-Dichloropropene | 0.0500 | 0.0544 | | mg/Kg | | 109 | 64 - 127 |
| Dibromochloromethane | 0.0500 | 0.0594 | | mg/Kg | | 119 | 68 - 125 |
| 1,2-Dibromo-3-Chloropropane | 0.0500 | 0.0579 | | mg/Kg | | 116 | 56 - 123 |
| 1,2-Dibromoethane | 0.0500 | 0.0554 | | mg/Kg | | 111 | 70 - 125 |
| Dibromomethane | 0.0500 | 0.0540 | | mg/Kg | | 108 | 70 - 120 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0518 | | mg/Kg | | 104 | 70 - 125 |
| 1,3-Dichlorobenzene | 0.0500 | 0.0506 | | mg/Kg | | 101 | 70 - 125 |
| 1,4-Dichlorobenzene | 0.0500 | 0.0499 | | mg/Kg | | 100 | 70 - 120 |
| Dichlorodifluoromethane | 0.0500 | 0.0583 | | mg/Kg | | 117 | 40 - 159 |
| 1,1-Dichloroethane | 0.0500 | 0.0523 | | mg/Kg | | 105 | 70 - 125 |
| 1,2-Dichloroethane | 0.0500 | 0.0506 | | mg/Kg | | 101 | 68 - 127 |
| 1,1-Dichloroethene | 0.0500 | 0.0524 | | mg/Kg | | 105 | 67 - 122 |

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

**Lab Sample ID: LCS 500-832878/4**
**Matrix: Solid**
**Analysis Batch: 832878**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 0.0500 | 0.0545 | | mg/Kg | | 109 | 67 - 130 |
| 1,3-Dichloropropane | 0.0500 | 0.0539 | | mg/Kg | | 108 | 62 - 136 |
| 2,2-Dichloropropane | 0.0500 | 0.0528 | | mg/Kg | | 106 | 58 - 139 |
| 1,1-Dichloropropene | 0.0500 | 0.0491 | | mg/Kg | | 98 | 70 - 121 |
| Ethylbenzene | 0.0500 | 0.0499 | | mg/Kg | | 100 | 70 - 123 |
| Hexachlorobutadiene | 0.0500 | 0.0579 | | mg/Kg | | 116 | 51 - 150 |
| Isopropylbenzene | 0.0500 | 0.0505 | | mg/Kg | | 101 | 70 - 126 |
| Methylene Chloride | 0.0500 | 0.0513 | | mg/Kg | | 103 | 69 - 125 |
| Methyl tert-butyl ether | 0.0500 | 0.0550 | | mg/Kg | | 110 | 55 - 123 |
| Naphthalene | 0.0500 | 0.0622 | | mg/Kg | | 124 | 53 - 144 |
| n-Butylbenzene | 0.0500 | 0.0516 | | mg/Kg | | 103 | 68 - 125 |
| N-Propylbenzene | 0.0500 | 0.0472 | | mg/Kg | | 94 | 69 - 127 |
| p-Isopropyltoluene | 0.0500 | 0.0493 | | mg/Kg | | 99 | 70 - 125 |
| sec-Butylbenzene | 0.0500 | 0.0503 | | mg/Kg | | 101 | 70 - 123 |
| Styrene | 0.0500 | 0.0470 | | mg/Kg | | 94 | 70 - 120 |
| tert-Butylbenzene | 0.0500 | 0.0506 | | mg/Kg | | 101 | 70 - 121 |
| 1,1,1,2-Tetrachloroethane | 0.0500 | 0.0615 | | mg/Kg | | 123 | 70 - 125 |
| 1,1,2,2-Tetrachloroethane | 0.0500 | 0.0539 | | mg/Kg | | 108 | 62 - 140 |
| Tetrachloroethene | 0.0500 | 0.0506 | | mg/Kg | | 101 | 70 - 128 |
| Toluene | 0.0500 | 0.0510 | | mg/Kg | | 102 | 70 - 125 |
| trans-1,2-Dichloroethene | 0.0500 | 0.0504 | | mg/Kg | | 101 | 70 - 125 |
| trans-1,3-Dichloropropene | 0.0500 | 0.0555 | | mg/Kg | | 111 | 62 - 128 |
| 1,2,3-Trichlorobenzene | 0.0500 | 0.0531 | | mg/Kg | | 106 | 51 - 145 |
| 1,2,4-Trichlorobenzene | 0.0500 | 0.0587 | | mg/Kg | | 117 | 57 - 137 |
| 1,1,1-Trichloroethane | 0.0500 | 0.0512 | | mg/Kg | | 102 | 70 - 125 |
| 1,1,2-Trichloroethane | 0.0500 | 0.0532 | | mg/Kg | | 106 | 71 - 130 |
| Trichloroethene | 0.0500 | 0.0545 | | mg/Kg | | 109 | 70 - 125 |
| Trichlorofluoromethane | 0.0500 | 0.0442 | | mg/Kg | | 88 | 55 - 128 |
| 1,2,3-Trichloropropane | 0.0500 | 0.0556 | | mg/Kg | | 111 | 50 - 133 |
| 1,2,4-Trimethylbenzene | 0.0500 | 0.0489 | | mg/Kg | | 98 | 70 - 123 |
| 1,3,5-Trimethylbenzene | 0.0500 | 0.0460 | | mg/Kg | | 92 | 70 - 123 |
| Vinyl chloride | 0.0500 | 0.0473 | | mg/Kg | | 95 | 64 - 126 |
| Xylenes, Total | 0.100 | 0.0880 | | mg/Kg | | 88 | 70 - 125 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *102* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *81* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *100* | | *75 - 120* |

**Lab Sample ID: LCSD 500-832878/5**
**Matrix: Solid**
**Analysis Batch: 832878**

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0500 | 0.0525 | | mg/Kg | | 105 | 70 - 120 | 0 | 30 |
| Bromobenzene | 0.0500 | 0.0525 | | mg/Kg | | 105 | 70 - 122 | 1 | 30 |
| Bromochloromethane | 0.0500 | 0.0552 | | mg/Kg | | 110 | 65 - 122 | 2 | 30 |

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

**Lab Sample ID: LCSD 500-832878/5**
**Matrix: Solid**
**Analysis Batch: 832878**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | | | 0.0500 | 0.0524 | | mg/Kg | | 105 | 69 - 120 | 2 | 30 |
| Bromoform | | | 0.0500 | 0.0552 | | mg/Kg | | 110 | 56 - 132 | 2 | 30 |
| Bromomethane | | | 0.0500 | 0.0470 | | mg/Kg | | 94 | 40 - 152 | 6 | 30 |
| Carbon tetrachloride | | | 0.0500 | 0.0552 | | mg/Kg | | 110 | 59 - 133 | 1 | 30 |
| Chlorobenzene | | | 0.0500 | 0.0528 | | mg/Kg | | 106 | 70 - 120 | 1 | 30 |
| Chloroethane | | | 0.0500 | 0.0496 | | mg/Kg | | 99 | 48 - 136 | 2 | 30 |
| Chloroform | | | 0.0500 | 0.0515 | | mg/Kg | | 103 | 70 - 120 | 1 | 30 |
| Chloromethane | | | 0.0500 | 0.0471 | | mg/Kg | | 94 | 56 - 152 | 4 | 30 |
| 2-Chlorotoluene | | | 0.0500 | 0.0483 | | mg/Kg | | 97 | 70 - 125 | 3 | 30 |
| 4-Chlorotoluene | | | 0.0500 | 0.0476 | | mg/Kg | | 95 | 68 - 124 | 1 | 30 |
| cis-1,2-Dichloroethene | | | 0.0500 | 0.0522 | | mg/Kg | | 104 | 70 - 125 | 2 | 30 |
| cis-1,3-Dichloropropene | | | 0.0500 | 0.0552 | | mg/Kg | | 110 | 64 - 127 | 1 | 30 |
| Dibromochloromethane | | | 0.0500 | 0.0596 | | mg/Kg | | 119 | 68 - 125 | 0 | 30 |
| 1,2-Dibromo-3-Chloropropane | | | 0.0500 | 0.0599 | | mg/Kg | | 120 | 56 - 123 | 3 | 30 |
| 1,2-Dibromoethane | | | 0.0500 | 0.0552 | | mg/Kg | | 110 | 70 - 125 | 0 | 30 |
| Dibromomethane | | | 0.0500 | 0.0533 | | mg/Kg | | 107 | 70 - 120 | 1 | 30 |
| 1,2-Dichlorobenzene | | | 0.0500 | 0.0531 | | mg/Kg | | 106 | 70 - 125 | 2 | 30 |
| 1,3-Dichlorobenzene | | | 0.0500 | 0.0517 | | mg/Kg | | 103 | 70 - 125 | 2 | 30 |
| 1,4-Dichlorobenzene | | | 0.0500 | 0.0509 | | mg/Kg | | 102 | 70 - 120 | 2 | 30 |
| Dichlorodifluoromethane | | | 0.0500 | 0.0545 | | mg/Kg | | 109 | 40 - 159 | 7 | 30 |
| 1,1-Dichloroethane | | | 0.0500 | 0.0526 | | mg/Kg | | 105 | 70 - 125 | 1 | 30 |
| 1,2-Dichloroethane | | | 0.0500 | 0.0504 | | mg/Kg | | 101 | 68 - 127 | 1 | 30 |
| 1,1-Dichloroethene | | | 0.0500 | 0.0526 | | mg/Kg | | 105 | 67 - 122 | 0 | 30 |
| 1,2-Dichloropropane | | | 0.0500 | 0.0542 | | mg/Kg | | 108 | 67 - 130 | 1 | 30 |
| 1,3-Dichloropropane | | | 0.0500 | 0.0540 | | mg/Kg | | 108 | 62 - 136 | 0 | 30 |
| 2,2-Dichloropropane | | | 0.0500 | 0.0529 | | mg/Kg | | 106 | 58 - 139 | 0 | 30 |
| 1,1-Dichloropropene | | | 0.0500 | 0.0501 | | mg/Kg | | 100 | 70 - 121 | 2 | 30 |
| Ethylbenzene | | | 0.0500 | 0.0511 | | mg/Kg | | 102 | 70 - 123 | 2 | 30 |
| Hexachlorobutadiene | | | 0.0500 | 0.0592 | | mg/Kg | | 118 | 51 - 150 | 2 | 30 |
| Isopropylbenzene | | | 0.0500 | 0.0511 | | mg/Kg | | 102 | 70 - 126 | 1 | 30 |
| Methylene Chloride | | | 0.0500 | 0.0500 | | mg/Kg | | 100 | 69 - 125 | 3 | 30 |
| Methyl tert-butyl ether | | | 0.0500 | 0.0551 | | mg/Kg | | 110 | 55 - 123 | 0 | 30 |
| Naphthalene | | | 0.0500 | 0.0651 | | mg/Kg | | 130 | 53 - 144 | 5 | 30 |
| n-Butylbenzene | | | 0.0500 | 0.0530 | | mg/Kg | | 106 | 68 - 125 | 3 | 30 |
| N-Propylbenzene | | | 0.0500 | 0.0483 | | mg/Kg | | 97 | 69 - 127 | 2 | 30 |
| p-Isopropyltoluene | | | 0.0500 | 0.0506 | | mg/Kg | | 101 | 70 - 125 | 2 | 30 |
| sec-Butylbenzene | | | 0.0500 | 0.0521 | | mg/Kg | | 104 | 70 - 123 | 3 | 30 |
| Styrene | | | 0.0500 | 0.0483 | | mg/Kg | | 97 | 70 - 120 | 3 | 30 |
| tert-Butylbenzene | | | 0.0500 | 0.0520 | | mg/Kg | | 104 | 70 - 121 | 3 | 30 |
| 1,1,1,2-Tetrachloroethane | | | 0.0500 | 0.0619 | | mg/Kg | | 124 | 70 - 125 | 1 | 30 |
| 1,1,2,2-Tetrachloroethane | | | 0.0500 | 0.0546 | | mg/Kg | | 109 | 62 - 140 | 1 | 30 |
| Tetrachloroethene | | | 0.0500 | 0.0521 | | mg/Kg | | 104 | 70 - 128 | 3 | 30 |
| Toluene | | | 0.0500 | 0.0524 | | mg/Kg | | 105 | 70 - 125 | 3 | 30 |
| trans-1,2-Dichloroethene | | | 0.0500 | 0.0524 | | mg/Kg | | 105 | 70 - 125 | 4 | 30 |
| trans-1,3-Dichloropropene | | | 0.0500 | 0.0553 | | mg/Kg | | 111 | 62 - 128 | 0 | 30 |
| 1,2,3-Trichlorobenzene | | | 0.0500 | 0.0558 | | mg/Kg | | 112 | 51 - 145 | 5 | 30 |
| 1,2,4-Trichlorobenzene | | | 0.0500 | 0.0603 | | mg/Kg | | 121 | 57 - 137 | 3 | 30 |
| 1,1,1-Trichloroethane | | | 0.0500 | 0.0518 | | mg/Kg | | 104 | 70 - 125 | 1 | 30 |
| 1,1,2-Trichloroethane | | | 0.0500 | 0.0530 | | mg/Kg | | 106 | 71 - 130 | 0 | 30 |

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

**Lab Sample ID: LCSD 500-832878/5**
**Matrix: Solid**
**Analysis Batch: 832878**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | | | 0.0500 | 0.0548 | | mg/Kg | | 110 | 70 - 125 | 1 | 30 |
| Trichlorofluoromethane | | | 0.0500 | 0.0423 | | mg/Kg | | 85 | 55 - 128 | 4 | 30 |
| 1,2,3-Trichloropropane | | | 0.0500 | 0.0573 | | mg/Kg | | 115 | 50 - 133 | 3 | 30 |
| 1,2,4-Trimethylbenzene | | | 0.0500 | 0.0497 | | mg/Kg | | 99 | 70 - 123 | 2 | 30 |
| 1,3,5-Trimethylbenzene | | | 0.0500 | 0.0469 | | mg/Kg | | 94 | 70 - 123 | 2 | 30 |
| Vinyl chloride | | | 0.0500 | 0.0453 | | mg/Kg | | 91 | 64 - 126 | 4 | 30 |
| Xylenes, Total | | | 0.100 | 0.0901 | | mg/Kg | | 90 | 70 - 125 | 2 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *79* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *103* | | *75 - 120* |

**Lab Sample ID: MB 500-833061/8**
**Matrix: Solid**
**Analysis Batch: 833061**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00012 | | 0.00025 | 0.00012 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Bromobenzene | <0.00060 | | 0.0010 | 0.00060 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Bromochloromethane | <0.00050 | | 0.0010 | 0.00050 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Bromodichloromethane | <0.00057 | | 0.0010 | 0.00057 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Bromoform | <0.00096 | | 0.0010 | 0.00096 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Bromomethane | <0.0018 | | 0.0030 | 0.0018 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Carbon tetrachloride | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Chlorobenzene | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Chloroethane | <0.00047 | | 0.0050 | 0.00047 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Chloroform | <0.00092 | | 0.0020 | 0.00092 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Chloromethane | <0.00079 | | 0.0050 | 0.00079 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 2-Chlorotoluene | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 4-Chlorotoluene | <0.00034 | | 0.0010 | 0.00034 | mg/Kg | | | 09/09/25 11:03 | 1 |
| cis-1,2-Dichloroethene | <0.00042 | | 0.0010 | 0.00042 | mg/Kg | | | 09/09/25 11:03 | 1 |
| cis-1,3-Dichloropropene | <0.00052 | | 0.0010 | 0.00052 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Dibromochloromethane | <0.00083 | | 0.0010 | 0.00083 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.0041 | | 0.0050 | 0.0041 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2-Dibromoethane | <0.00056 | | 0.0010 | 0.00056 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Dibromomethane | <0.00058 | | 0.0010 | 0.00058 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2-Dichlorobenzene | <0.00048 | | 0.0010 | 0.00048 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,3-Dichlorobenzene | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,4-Dichlorobenzene | <0.00045 | | 0.0010 | 0.00045 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Dichlorodifluoromethane | <0.0018 | | 0.0030 | 0.0018 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,1-Dichloroethane | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2-Dichloroethane | <0.00058 | | 0.0010 | 0.00058 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,1-Dichloroethene | <0.00048 | | 0.0010 | 0.00048 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2-Dichloropropane | <0.00037 | | 0.0010 | 0.00037 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,3-Dichloropropane | <0.00056 | | 0.0010 | 0.00056 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 2,2-Dichloropropane | <0.00048 | | 0.0050 | 0.00048 | mg/Kg | | | 09/09/25 11:03 | 1 |

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

**Lab Sample ID: MB 500-833061/8**
**Matrix: Solid**
**Analysis Batch: 833061**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | <0.00033 | | 0.0010 | 0.00033 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Ethylbenzene | <0.00017 | | 0.00025 | 0.00017 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Hexachlorobutadiene | <0.00054 | | 0.0010 | 0.00054 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Isopropylbenzene | <0.00029 | | 0.0010 | 0.00029 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Isopropyl ether | <0.00038 | | 0.0010 | 0.00038 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Methylene Chloride | <0.0021 | | 0.0050 | 0.0021 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Methyl tert-butyl ether | <0.00043 | | 0.0010 | 0.00043 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Naphthalene | <0.00044 | | 0.0010 | 0.00044 | mg/Kg | | | 09/09/25 11:03 | 1 |
| n-Butylbenzene | <0.00033 | | 0.0010 | 0.00033 | mg/Kg | | | 09/09/25 11:03 | 1 |
| N-Propylbenzene | <0.00032 | | 0.0010 | 0.00032 | mg/Kg | | | 09/09/25 11:03 | 1 |
| p-Isopropyltoluene | <0.00029 | | 0.0010 | 0.00029 | mg/Kg | | | 09/09/25 11:03 | 1 |
| sec-Butylbenzene | <0.00027 | | 0.0010 | 0.00027 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Styrene | <0.00031 | | 0.0010 | 0.00031 | mg/Kg | | | 09/09/25 11:03 | 1 |
| tert-Butylbenzene | <0.00026 | | 0.0010 | 0.00026 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.00067 | | 0.0010 | 0.00067 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00065 | | 0.0010 | 0.00065 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Tetrachloroethene | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Toluene | <0.00021 | | 0.00025 | 0.00021 | mg/Kg | | | 09/09/25 11:03 | 1 |
| trans-1,2-Dichloroethene | <0.00044 | | 0.0010 | 0.00044 | mg/Kg | | | 09/09/25 11:03 | 1 |
| trans-1,3-Dichloropropene | <0.00063 | | 0.0010 | 0.00063 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2,3-Trichlorobenzene | <0.00035 | | 0.0010 | 0.00035 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2,4-Trichlorobenzene | <0.00031 | | 0.0010 | 0.00031 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,1,1-Trichloroethane | <0.00045 | | 0.0010 | 0.00045 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,1,2-Trichloroethane | <0.00073 | | 0.0010 | 0.00073 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Trichloroethene | <0.00015 | | 0.00050 | 0.00015 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Trichlorofluoromethane | <0.00044 | | 0.0010 | 0.00044 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2,3-Trichloropropane | <0.0015 | | 0.0020 | 0.0015 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,2,4-Trimethylbenzene | <0.00030 | | 0.0010 | 0.00030 | mg/Kg | | | 09/09/25 11:03 | 1 |
| 1,3,5-Trimethylbenzene | <0.00029 | | 0.0010 | 0.00029 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Vinyl chloride | <0.00047 | | 0.0010 | 0.00047 | mg/Kg | | | 09/09/25 11:03 | 1 |
| Xylenes, Total | <0.00024 | | 0.00050 | 0.00024 | mg/Kg | | | 09/09/25 11:03 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *72 - 124* | | *09/09/25 11:03* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *75 - 120* | | *09/09/25 11:03* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *91* | | *75 - 126* | | *09/09/25 11:03* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *75 - 120* | | *09/09/25 11:03* | *1* |

**Lab Sample ID: LCS 500-833061/4**
**Matrix: Solid**
**Analysis Batch: 833061**

**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 | 0.0458 | | mg/Kg | | 92 | 70 - 120 |
| Bromobenzene | 0.0500 | 0.0483 | | mg/Kg | | 97 | 70 - 122 |
| Bromochloromethane | 0.0500 | 0.0493 | | mg/Kg | | 99 | 65 - 122 |
| Bromodichloromethane | 0.0500 | 0.0480 | | mg/Kg | | 96 | 69 - 120 |
| Bromoform | 0.0500 | 0.0507 | | mg/Kg | | 101 | 56 - 132 |

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

**Lab Sample ID: LCS 500-833061/4**
**Matrix: Solid**
**Analysis Batch: 833061**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Bromomethane | 0.0500 | 0.0422 | | mg/Kg | | 84 | 40 - 152 |
| Carbon tetrachloride | 0.0500 | 0.0406 | | mg/Kg | | 81 | 59 - 133 |
| Chlorobenzene | 0.0500 | 0.0492 | | mg/Kg | | 98 | 70 - 120 |
| Chloroethane | 0.0500 | 0.0420 | | mg/Kg | | 84 | 48 - 136 |
| Chloroform | 0.0500 | 0.0480 | | mg/Kg | | 96 | 70 - 120 |
| Chloromethane | 0.0500 | 0.0409 | | mg/Kg | | 82 | 56 - 152 |
| 2-Chlorotoluene | 0.0500 | 0.0441 | | mg/Kg | | 88 | 70 - 125 |
| 4-Chlorotoluene | 0.0500 | 0.0450 | | mg/Kg | | 90 | 68 - 124 |
| cis-1,2-Dichloroethene | 0.0500 | 0.0468 | | mg/Kg | | 94 | 70 - 125 |
| cis-1,3-Dichloropropene | 0.0500 | 0.0502 | | mg/Kg | | 100 | 64 - 127 |
| Dibromochloromethane | 0.0500 | 0.0505 | | mg/Kg | | 101 | 68 - 125 |
| 1,2-Dibromo-3-Chloropropane | 0.0500 | 0.0509 | | mg/Kg | | 102 | 56 - 123 |
| 1,2-Dibromoethane | 0.0500 | 0.0513 | | mg/Kg | | 103 | 70 - 125 |
| Dibromomethane | 0.0500 | 0.0485 | | mg/Kg | | 97 | 70 - 120 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0492 | | mg/Kg | | 98 | 70 - 125 |
| 1,3-Dichlorobenzene | 0.0500 | 0.0482 | | mg/Kg | | 96 | 70 - 125 |
| 1,4-Dichlorobenzene | 0.0500 | 0.0487 | | mg/Kg | | 97 | 70 - 120 |
| Dichlorodifluoromethane | 0.0500 | 0.0473 | | mg/Kg | | 95 | 40 - 159 |
| 1,1-Dichloroethane | 0.0500 | 0.0413 | | mg/Kg | | 83 | 70 - 125 |
| 1,2-Dichloroethane | 0.0500 | 0.0423 | | mg/Kg | | 85 | 68 - 127 |
| 1,1-Dichloroethene | 0.0500 | 0.0408 | | mg/Kg | | 82 | 67 - 122 |
| 1,2-Dichloropropane | 0.0500 | 0.0438 | | mg/Kg | | 88 | 67 - 130 |
| 1,3-Dichloropropane | 0.0500 | 0.0513 | | mg/Kg | | 103 | 62 - 136 |
| 2,2-Dichloropropane | 0.0500 | 0.0406 | | mg/Kg | | 81 | 58 - 139 |
| 1,1-Dichloropropene | 0.0500 | 0.0427 | | mg/Kg | | 85 | 70 - 121 |
| Ethylbenzene | 0.0500 | 0.0486 | | mg/Kg | | 97 | 70 - 123 |
| Hexachlorobutadiene | 0.0500 | 0.0484 | | mg/Kg | | 97 | 51 - 150 |
| Isopropylbenzene | 0.0500 | 0.0437 | | mg/Kg | | 87 | 70 - 126 |
| Methylene Chloride | 0.0500 | 0.0434 | | mg/Kg | | 87 | 69 - 125 |
| Methyl tert-butyl ether | 0.0500 | 0.0459 | | mg/Kg | | 92 | 55 - 123 |
| Naphthalene | 0.0500 | 0.0568 | | mg/Kg | | 114 | 53 - 144 |
| n-Butylbenzene | 0.0500 | 0.0428 | | mg/Kg | | 86 | 68 - 125 |
| N-Propylbenzene | 0.0500 | 0.0442 | | mg/Kg | | 88 | 69 - 127 |
| p-Isopropyltoluene | 0.0500 | 0.0439 | | mg/Kg | | 88 | 70 - 125 |
| sec-Butylbenzene | 0.0500 | 0.0424 | | mg/Kg | | 85 | 70 - 123 |
| Styrene | 0.0500 | 0.0501 | | mg/Kg | | 100 | 70 - 120 |
| tert-Butylbenzene | 0.0500 | 0.0427 | | mg/Kg | | 85 | 70 - 121 |
| 1,1,1,2-Tetrachloroethane | 0.0500 | 0.0497 | | mg/Kg | | 99 | 70 - 125 |
| 1,1,2,2-Tetrachloroethane | 0.0500 | 0.0499 | | mg/Kg | | 100 | 62 - 140 |
| Tetrachloroethene | 0.0500 | 0.0474 | | mg/Kg | | 95 | 70 - 128 |
| Toluene | 0.0500 | 0.0467 | | mg/Kg | | 93 | 70 - 125 |
| trans-1,2-Dichloroethene | 0.0500 | 0.0448 | | mg/Kg | | 90 | 70 - 125 |
| trans-1,3-Dichloropropene | 0.0500 | 0.0492 | | mg/Kg | | 98 | 62 - 128 |
| 1,2,3-Trichlorobenzene | 0.0500 | 0.0540 | | mg/Kg | | 108 | 51 - 145 |
| 1,2,4-Trichlorobenzene | 0.0500 | 0.0496 | | mg/Kg | | 99 | 57 - 137 |
| 1,1,1-Trichloroethane | 0.0500 | 0.0426 | | mg/Kg | | 85 | 70 - 125 |
| 1,1,2-Trichloroethane | 0.0500 | 0.0534 | | mg/Kg | | 107 | 71 - 130 |
| Trichloroethene | 0.0500 | 0.0452 | | mg/Kg | | 90 | 70 - 125 |
| Trichlorofluoromethane | 0.0500 | 0.0417 | | mg/Kg | | 83 | 55 - 128 |

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

**Lab Sample ID: LCS 500-833061/4**
**Matrix: Solid**
**Analysis Batch: 833061**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | | | 0.0500 | 0.0486 | | mg/Kg | | 97 | 50 - 133 | | |
| 1,2,4-Trimethylbenzene | | | 0.0500 | 0.0445 | | mg/Kg | | 89 | 70 - 123 | | |
| 1,3,5-Trimethylbenzene | | | 0.0500 | 0.0442 | | mg/Kg | | 88 | 70 - 123 | | |
| Vinyl chloride | | | 0.0500 | 0.0424 | | mg/Kg | | 85 | 64 - 126 | | |
| Xylenes, Total | | | 0.100 | 0.0921 | | mg/Kg | | 92 | 70 - 125 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *93* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *95* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *88* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *102* | | *75 - 120* |

**Lab Sample ID: LCSD 500-833061/5**
**Matrix: Solid**
**Analysis Batch: 833061**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.0500 | 0.0453 | | mg/Kg | | 91 | 70 - 120 | 1 | 30 |
| Bromobenzene | | | 0.0500 | 0.0475 | | mg/Kg | | 95 | 70 - 122 | 2 | 30 |
| Bromochloromethane | | | 0.0500 | 0.0493 | | mg/Kg | | 99 | 65 - 122 | 0 | 30 |
| Bromodichloromethane | | | 0.0500 | 0.0479 | | mg/Kg | | 96 | 69 - 120 | 0 | 30 |
| Bromoform | | | 0.0500 | 0.0495 | | mg/Kg | | 99 | 56 - 132 | 2 | 30 |
| Bromomethane | | | 0.0500 | 0.0446 | | mg/Kg | | 89 | 40 - 152 | 5 | 30 |
| Carbon tetrachloride | | | 0.0500 | 0.0402 | | mg/Kg | | 80 | 59 - 133 | 1 | 30 |
| Chlorobenzene | | | 0.0500 | 0.0483 | | mg/Kg | | 97 | 70 - 120 | 2 | 30 |
| Chloroethane | | | 0.0500 | 0.0429 | | mg/Kg | | 86 | 48 - 136 | 2 | 30 |
| Chloroform | | | 0.0500 | 0.0478 | | mg/Kg | | 96 | 70 - 120 | 0 | 30 |
| Chloromethane | | | 0.0500 | 0.0429 | | mg/Kg | | 86 | 56 - 152 | 5 | 30 |
| 2-Chlorotoluene | | | 0.0500 | 0.0442 | | mg/Kg | | 88 | 70 - 125 | 0 | 30 |
| 4-Chlorotoluene | | | 0.0500 | 0.0448 | | mg/Kg | | 90 | 68 - 124 | 0 | 30 |
| cis-1,2-Dichloroethene | | | 0.0500 | 0.0468 | | mg/Kg | | 94 | 70 - 125 | 0 | 30 |
| cis-1,3-Dichloropropene | | | 0.0500 | 0.0494 | | mg/Kg | | 99 | 64 - 127 | 2 | 30 |
| Dibromochloromethane | | | 0.0500 | 0.0500 | | mg/Kg | | 100 | 68 - 125 | 1 | 30 |
| 1,2-Dibromo-3-Chloropropane | | | 0.0500 | 0.0519 | | mg/Kg | | 104 | 56 - 123 | 2 | 30 |
| 1,2-Dibromoethane | | | 0.0500 | 0.0502 | | mg/Kg | | 100 | 70 - 125 | 2 | 30 |
| Dibromomethane | | | 0.0500 | 0.0489 | | mg/Kg | | 98 | 70 - 120 | 1 | 30 |
| 1,2-Dichlorobenzene | | | 0.0500 | 0.0492 | | mg/Kg | | 98 | 70 - 125 | 0 | 30 |
| 1,3-Dichlorobenzene | | | 0.0500 | 0.0482 | | mg/Kg | | 96 | 70 - 125 | 0 | 30 |
| 1,4-Dichlorobenzene | | | 0.0500 | 0.0486 | | mg/Kg | | 97 | 70 - 120 | 0 | 30 |
| Dichlorodifluoromethane | | | 0.0500 | 0.0480 | | mg/Kg | | 96 | 40 - 159 | 2 | 30 |
| 1,1-Dichloroethane | | | 0.0500 | 0.0403 | | mg/Kg | | 81 | 70 - 125 | 2 | 30 |
| 1,2-Dichloroethane | | | 0.0500 | 0.0422 | | mg/Kg | | 84 | 68 - 127 | 0 | 30 |
| 1,1-Dichloroethene | | | 0.0500 | 0.0392 | | mg/Kg | | 78 | 67 - 122 | 4 | 30 |
| 1,2-Dichloropropane | | | 0.0500 | 0.0434 | | mg/Kg | | 87 | 67 - 130 | 1 | 30 |
| 1,3-Dichloropropane | | | 0.0500 | 0.0504 | | mg/Kg | | 101 | 62 - 136 | 2 | 30 |
| 2,2-Dichloropropane | | | 0.0500 | 0.0398 | | mg/Kg | | 80 | 58 - 139 | 2 | 30 |
| 1,1-Dichloropropene | | | 0.0500 | 0.0411 | | mg/Kg | | 82 | 70 - 121 | 4 | 30 |
| Ethylbenzene | | | 0.0500 | 0.0465 | | mg/Kg | | 93 | 70 - 123 | 4 | 30 |

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

**Lab Sample ID: LCSD 500-833061/5**
**Matrix: Solid**
**Analysis Batch: 833061**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | | | 0.0500 | 0.0496 | | mg/Kg | | 99 | 51 - 150 | 2 | 30 |
| Isopropylbenzene | | | 0.0500 | 0.0429 | | mg/Kg | | 86 | 70 - 126 | 2 | 30 |
| Methylene Chloride | | | 0.0500 | 0.0426 | | mg/Kg | | 85 | 69 - 125 | 2 | 30 |
| Methyl tert-butyl ether | | | 0.0500 | 0.0459 | | mg/Kg | | 92 | 55 - 123 | 0 | 30 |
| Naphthalene | | | 0.0500 | 0.0585 | | mg/Kg | | 117 | 53 - 144 | 3 | 30 |
| n-Butylbenzene | | | 0.0500 | 0.0426 | | mg/Kg | | 85 | 68 - 125 | 1 | 30 |
| N-Propylbenzene | | | 0.0500 | 0.0429 | | mg/Kg | | 86 | 69 - 127 | 3 | 30 |
| p-Isopropyltoluene | | | 0.0500 | 0.0429 | | mg/Kg | | 86 | 70 - 125 | 2 | 30 |
| sec-Butylbenzene | | | 0.0500 | 0.0417 | | mg/Kg | | 83 | 70 - 123 | 2 | 30 |
| Styrene | | | 0.0500 | 0.0490 | | mg/Kg | | 98 | 70 - 120 | 2 | 30 |
| tert-Butylbenzene | | | 0.0500 | 0.0419 | | mg/Kg | | 84 | 70 - 121 | 2 | 30 |
| 1,1,1,2-Tetrachloroethane | | | 0.0500 | 0.0487 | | mg/Kg | | 97 | 70 - 125 | 2 | 30 |
| 1,1,2,2-Tetrachloroethane | | | 0.0500 | 0.0494 | | mg/Kg | | 99 | 62 - 140 | 1 | 30 |
| Tetrachloroethene | | | 0.0500 | 0.0444 | | mg/Kg | | 89 | 70 - 128 | 6 | 30 |
| Toluene | | | 0.0500 | 0.0450 | | mg/Kg | | 90 | 70 - 125 | 4 | 30 |
| trans-1,2-Dichloroethene | | | 0.0500 | 0.0434 | | mg/Kg | | 87 | 70 - 125 | 3 | 30 |
| trans-1,3-Dichloropropene | | | 0.0500 | 0.0488 | | mg/Kg | | 98 | 62 - 128 | 1 | 30 |
| 1,2,3-Trichlorobenzene | | | 0.0500 | 0.0570 | | mg/Kg | | 114 | 51 - 145 | 5 | 30 |
| 1,2,4-Trichlorobenzene | | | 0.0500 | 0.0513 | | mg/Kg | | 103 | 57 - 137 | 3 | 30 |
| 1,1,1-Trichloroethane | | | 0.0500 | 0.0417 | | mg/Kg | | 83 | 70 - 125 | 2 | 30 |
| 1,1,2-Trichloroethane | | | 0.0500 | 0.0527 | | mg/Kg | | 105 | 71 - 130 | 1 | 30 |
| Trichloroethene | | | 0.0500 | 0.0442 | | mg/Kg | | 88 | 70 - 125 | 2 | 30 |
| Trichlorofluoromethane | | | 0.0500 | 0.0422 | | mg/Kg | | 84 | 55 - 128 | 1 | 30 |
| 1,2,3-Trichloropropane | | | 0.0500 | 0.0484 | | mg/Kg | | 97 | 50 - 133 | 0 | 30 |
| 1,2,4-Trimethylbenzene | | | 0.0500 | 0.0443 | | mg/Kg | | 89 | 70 - 123 | 1 | 30 |
| 1,3,5-Trimethylbenzene | | | 0.0500 | 0.0434 | | mg/Kg | | 87 | 70 - 123 | 2 | 30 |
| Vinyl chloride | | | 0.0500 | 0.0431 | | mg/Kg | | 86 | 64 - 126 | 2 | 30 |
| Xylenes, Total | | | 0.100 | 0.0896 | | mg/Kg | | 90 | 70 - 125 | 3 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *93* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *96* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *90* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *101* | | *75 - 120* |

**Lab Sample ID: MB 500-833063/8**
**Matrix: Solid**
**Analysis Batch: 833063**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.50 | | 1.0 | 0.50 | ug/L | | | 09/09/25 10:34 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *72 - 124* | | *09/09/25 10:34* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *75 - 120* | | *09/09/25 10:34* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *75 - 126* | | *09/09/25 10:34* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *75 - 120* | | *09/09/25 10:34* | *1* |

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

**Lab Sample ID: LCS 500-833063/4**
**Matrix: Solid**
**Analysis Batch: 833063**

**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 | 52.4 | | ug/L | | 105 | 70 - 120 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *93* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *101* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *99* | | *75 - 120* |

## Method: 8270E - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-832145/1-A**
**Matrix: Solid**
**Analysis Batch: 832190**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 832145**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | <0.0068 | | 0.033 | 0.0068 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Acenaphthylene | <0.0056 | | 0.033 | 0.0056 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Anthracene | <0.0068 | | 0.033 | 0.0068 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Benzo[a]anthracene | <0.0070 | | 0.033 | 0.0070 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Benzo[a]pyrene | <0.032 | | 0.033 | 0.032 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Benzo[b]fluoranthene | <0.032 | | 0.033 | 0.032 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Benzo[g,h,i]perylene | <0.015 | | 0.033 | 0.015 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Benzoic acid | <0.20 | | 1.7 | 0.20 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Benzo[k]fluoranthene | <0.013 | | 0.033 | 0.013 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Benzyl alcohol | <0.081 | | 0.67 | 0.081 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Bis(2-chloroethoxy)methane | <0.012 | | 0.17 | 0.012 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Bis(2-chloroethyl)ether | <0.015 | | 0.17 | 0.015 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.13 | | 0.17 | 0.13 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 4-Bromophenyl phenyl ether | <0.023 | | 0.17 | 0.023 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Butyl benzyl phthalate | <0.017 | | 0.17 | 0.017 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Carbazole | <0.013 | | 0.17 | 0.013 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 4-Chloroaniline | <0.35 | | 0.67 | 0.35 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 4-Chloro-3-methylphenol | <0.028 | | 0.33 | 0.028 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2-Chloronaphthalene | <0.012 | | 0.17 | 0.012 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2-Chlorophenol | <0.011 | | 0.17 | 0.011 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 4-Chlorophenyl phenyl ether | <0.044 | | 0.17 | 0.044 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Chrysene | <0.0088 | | 0.033 | 0.0088 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Dibenz(a,h)anthracene | <0.033 | | 0.033 | 0.033 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Dibenzofuran | <0.012 | | 0.17 | 0.012 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 1,2-Dichlorobenzene | <0.014 | | 0.17 | 0.014 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 1,3-Dichlorobenzene | <0.015 | | 0.17 | 0.015 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 1,4-Dichlorobenzene | <0.016 | | 0.17 | 0.016 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 3,3'-Dichlorobenzidine | <0.15 | | 0.17 | 0.15 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,4-Dichlorophenol | <0.012 | | 0.33 | 0.012 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Diethyl phthalate | <0.015 | | 0.17 | 0.015 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,4-Dimethylphenol | <0.074 | | 0.33 | 0.074 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Dimethyl phthalate | <0.0072 | | 0.17 | 0.0072 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Di-n-butyl phthalate | <0.011 | | 0.17 | 0.011 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-832145/1-A**
**Matrix: Solid**
**Analysis Batch: 832190**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 832145**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | <0.19 | | 0.67 | 0.19 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,4-Dinitrophenol | <0.19 | | 0.67 | 0.19 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,4-Dinitrotoluene | <0.019 | | 0.17 | 0.019 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,6-Dinitrotoluene | <0.023 | | 0.17 | 0.023 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Di-n-octyl phthalate | <0.23 | | 0.33 | 0.23 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Fluoranthene | <0.0077 | | 0.033 | 0.0077 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Fluorene | <0.0098 | | 0.033 | 0.0098 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Hexachlorobenzene | <0.0064 | | 0.067 | 0.0064 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Hexachlorobutadiene | <0.019 | | 0.17 | 0.019 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Hexachlorocyclopentadiene | <0.35 | | 0.67 | 0.35 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Hexachloroethane | <0.017 | | 0.17 | 0.017 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.032 | | 0.033 | 0.032 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Isophorone | <0.017 | | 0.17 | 0.017 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 1-Methylnaphthalene | <0.0059 | | 0.067 | 0.0059 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2-Methylnaphthalene | <0.0067 | | 0.067 | 0.0067 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2-Methylphenol | <0.018 | | 0.17 | 0.018 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 3 & 4 Methylphenol | <0.024 | | 0.17 | 0.024 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Naphthalene | <0.0060 | | 0.033 | 0.0060 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2-Nitroaniline | <0.018 | | 0.17 | 0.018 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 3-Nitroaniline | <0.015 | | 0.33 | 0.015 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 4-Nitroaniline | <0.025 | | 0.33 | 0.025 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Nitrobenzene | <0.011 | | 0.033 | 0.011 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2-Nitrophenol | <0.023 | | 0.33 | 0.023 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 4-Nitrophenol | <0.36 | | 0.67 | 0.36 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| N-Nitrosodi-n-propylamine | <0.019 | | 0.067 | 0.019 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| N-Nitrosodiphenylamine | <0.066 | | 0.17 | 0.066 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.024 | | 0.17 | 0.024 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Pentachlorophenol | <0.37 | | 0.67 | 0.37 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Phenanthrene | <0.0072 | | 0.033 | 0.0072 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Phenol | <0.014 | | 0.17 | 0.014 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Pyrene | <0.0091 | | 0.033 | 0.0091 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| Pyridine | <0.22 | | 0.67 | 0.22 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 1,2,4-Trichlorobenzene | <0.024 | | 0.17 | 0.024 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,4,5-Trichlorophenol | <0.013 | | 0.33 | 0.013 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |
| 2,4,6-Trichlorophenol | <0.011 | | 0.33 | 0.011 | mg/Kg | | 09/02/25 07:27 | 09/02/25 16:30 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *85* | | *43 - 145* | *09/02/25 07:27* | *09/02/25 16:30* | *1* |
| *2-Fluorophenol (Surr)* | *91* | | *31 - 166* | *09/02/25 07:27* | *09/02/25 16:30* | *1* |
| *Nitrobenzene-d5 (Surr)* | *96* | | *37 - 147* | *09/02/25 07:27* | *09/02/25 16:30* | *1* |
| *Phenol-d5 (Surr)* | *93* | | *30 - 153* | *09/02/25 07:27* | *09/02/25 16:30* | *1* |
| *Terphenyl-d14 (Surr)* | *98* | | *42 - 157* | *09/02/25 07:27* | *09/02/25 16:30* | *1* |
| *2,4,6-Tribromophenol (Surr)* | *71* | | *31 - 143* | *09/02/25 07:27* | *09/02/25 16:30* | *1* |

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-832145/2-A**
**Matrix: Solid**
**Analysis Batch: 832190**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832145**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 3.33 | 2.97 | | mg/Kg | | 89 | 63 - 109 |
| Acenaphthylene | 3.33 | 3.20 | | mg/Kg | | 96 | 61 - 115 |
| Anthracene | 3.33 | 3.44 | | mg/Kg | | 103 | 68 - 120 |
| Benzo[a]anthracene | 3.33 | 3.10 | | mg/Kg | | 93 | 70 - 121 |
| Benzo[a]pyrene | 3.33 | 3.47 | | mg/Kg | | 104 | 73 - 132 |
| Benzo[b]fluoranthene | 3.33 | 3.37 | | mg/Kg | | 101 | 68 - 123 |
| Benzo[g,h,i]perylene | 3.33 | 3.05 | | mg/Kg | | 92 | 65 - 126 |
| Benzoic acid | 6.67 | 5.33 | | mg/Kg | | 80 | 10 - 135 |
| Benzo[k]fluoranthene | 3.33 | 3.22 | | mg/Kg | | 97 | 64 - 128 |
| Benzyl alcohol | 3.33 | 2.63 | | mg/Kg | | 79 | 35 - 108 |
| Bis(2-chloroethoxy)methane | 3.33 | 3.14 | | mg/Kg | | 94 | 54 - 102 |
| Bis(2-chloroethyl)ether | 3.33 | 3.19 | | mg/Kg | | 96 | 49 - 99 |
| Bis(2-ethylhexyl) phthalate | 3.33 | 3.51 | | mg/Kg | | 105 | 70 - 139 |
| 4-Bromophenyl phenyl ether | 3.33 | 3.07 | | mg/Kg | | 92 | 57 - 124 |
| Butyl benzyl phthalate | 3.33 | 3.55 | | mg/Kg | | 106 | 65 - 140 |
| Carbazole | 3.33 | 3.37 | | mg/Kg | | 101 | 68 - 120 |
| 4-Chloroaniline | 3.33 | 2.76 | | mg/Kg | | 83 | 22 - 110 |
| 4-Chloro-3-methylphenol | 3.33 | 3.25 | | mg/Kg | | 98 | 57 - 113 |
| 2-Chloronaphthalene | 3.33 | 3.00 | | mg/Kg | | 90 | 60 - 107 |
| 2-Chlorophenol | 3.33 | 3.09 | | mg/Kg | | 93 | 50 - 102 |
| 4-Chlorophenyl phenyl ether | 3.33 | 2.86 | | mg/Kg | | 86 | 60 - 112 |
| Chrysene | 3.33 | 3.03 | | mg/Kg | | 91 | 70 - 123 |
| Dibenz(a,h)anthracene | 3.33 | 3.47 | | mg/Kg | | 104 | 66 - 125 |
| Dibenzofuran | 3.33 | 3.02 | | mg/Kg | | 91 | 64 - 112 |
| 1,2-Dichlorobenzene | 3.33 | 2.83 | | mg/Kg | | 85 | 47 - 94 |
| 1,3-Dichlorobenzene | 3.33 | 2.77 | | mg/Kg | | 83 | 47 - 92 |
| 1,4-Dichlorobenzene | 3.33 | 2.82 | | mg/Kg | | 85 | 46 - 92 |
| 3,3'-Dichlorobenzidine | 3.33 | 2.68 | | mg/Kg | | 80 | 36 - 131 |
| 2,4-Dichlorophenol | 3.33 | 3.03 | | mg/Kg | | 91 | 51 - 109 |
| Diethyl phthalate | 3.33 | 2.99 | | mg/Kg | | 90 | 66 - 115 |
| 2,4-Dimethylphenol | 3.33 | 3.25 | *+ | mg/Kg | | 97 | 48 - 93 |
| Dimethyl phthalate | 3.33 | 3.02 | | mg/Kg | | 91 | 65 - 114 |
| Di-n-butyl phthalate | 3.33 | 3.38 | | mg/Kg | | 101 | 69 - 125 |
| 4,6-Dinitro-2-methylphenol | 6.67 | 6.85 | | mg/Kg | | 103 | 36 - 138 |
| 2,4-Dinitrophenol | 6.67 | 5.72 | | mg/Kg | | 86 | 10 - 130 |
| 2,4-Dinitrotoluene | 3.33 | 3.15 | | mg/Kg | | 95 | 65 - 120 |
| 2,6-Dinitrotoluene | 3.33 | 3.14 | | mg/Kg | | 94 | 66 - 117 |
| Di-n-octyl phthalate | 3.33 | 3.34 | | mg/Kg | | 100 | 61 - 131 |
| Fluoranthene | 3.33 | 3.15 | | mg/Kg | | 95 | 66 - 123 |
| Fluorene | 3.33 | 3.05 | | mg/Kg | | 92 | 62 - 113 |
| Hexachlorobenzene | 3.33 | 3.03 | | mg/Kg | | 91 | 52 - 126 |
| Hexachlorobutadiene | 3.33 | 2.63 | | mg/Kg | | 79 | 42 - 103 |
| Hexachlorocyclopentadiene | 3.33 | 2.46 | | mg/Kg | | 74 | 10 - 100 |
| Hexachloroethane | 3.33 | 2.94 | | mg/Kg | | 88 | 45 - 95 |
| Indeno[1,2,3-cd]pyrene | 3.33 | 3.66 | | mg/Kg | | 110 | 66 - 131 |
| Isophorone | 3.33 | 3.22 | | mg/Kg | | 96 | 47 - 108 |
| 1-Methylnaphthalene | 3.33 | 2.95 | | mg/Kg | | 89 | 58 - 101 |
| 2-Methylnaphthalene | 3.33 | 3.04 | | mg/Kg | | 91 | 58 - 103 |

## Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-832145/2-A**
**Matrix: Solid**
**Analysis Batch: 832190**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832145**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| 2-Methylphenol | 3.33 | 3.48 | | mg/Kg | | 104 | 50 - 104 |
| 3 & 4 Methylphenol | 3.33 | 3.38 | | mg/Kg | | 101 | 49 - 109 |
| Naphthalene | 3.33 | 2.95 | | mg/Kg | | 89 | 54 - 98 |
| 2-Nitroaniline | 3.33 | 3.69 | | mg/Kg | | 111 | 61 - 126 |
| 3-Nitroaniline | 3.33 | 2.97 | | mg/Kg | | 89 | 44 - 124 |
| 4-Nitroaniline | 3.33 | 3.07 | | mg/Kg | | 92 | 60 - 115 |
| Nitrobenzene | 3.33 | 3.29 | | mg/Kg | | 99 | 52 - 105 |
| 2-Nitrophenol | 3.33 | 3.14 | | mg/Kg | | 94 | 41 - 114 |
| 4-Nitrophenol | 6.67 | 5.33 | | mg/Kg | | 80 | 45 - 126 |
| N-Nitrosodi-n-propylamine | 3.33 | 3.42 | | mg/Kg | | 103 | 48 - 110 |
| N-Nitrosodiphenylamine | 3.33 | 3.37 | | mg/Kg | | 101 | 67 - 112 |
| 2,2'-oxybis[1-chloropropane] | 3.33 | 3.75 | *+ | mg/Kg | | 112 | 43 - 111 |
| Pentachlorophenol | 6.67 | 5.40 | | mg/Kg | | 81 | 32 - 128 |
| Phenanthrene | 3.33 | 3.24 | | mg/Kg | | 97 | 65 - 115 |
| Phenol | 3.33 | 3.67 | | mg/Kg | | 110 | 52 - 110 |
| Pyrene | 3.33 | 3.29 | | mg/Kg | | 99 | 71 - 128 |
| Pyridine | 6.67 | 6.21 | *+ | mg/Kg | | 93 | 35 - 80 |
| 1,2,4-Trichlorobenzene | 3.33 | 2.76 | | mg/Kg | | 83 | 49 - 100 |
| 2,4,5-Trichlorophenol | 3.33 | 3.09 | | mg/Kg | | 93 | 48 - 121 |
| 2,4,6-Trichlorophenol | 3.33 | 2.93 | | mg/Kg | | 88 | 50 - 121 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *91* | | *43 - 145* |
| *2-Fluorophenol (Surr)* | *97* | | *31 - 166* |
| *Nitrobenzene-d5 (Surr)* | *99* | | *37 - 147* |
| *Phenol-d5 (Surr)* | *102* | | *30 - 153* |
| *Terphenyl-d14 (Surr)* | *100* | | *42 - 157* |
| *2,4,6-Tribromophenol (Surr)* | *79* | | *31 - 143* |

## Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

**Lab Sample ID: LB3 500-832295/21-A**
**Matrix: Solid**
**Analysis Batch: 832787**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 832295**

| Analyte | LB3 Result | LB3 Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| WI Gasoline Range Organics (C5-C10) | <750 | | 1500 | 750 | ug/Kg | | 09/02/25 18:14 | 09/05/25 18:03 | 50 |

**Lab Sample ID: LCS 500-832295/23-A**
**Matrix: Solid**
**Analysis Batch: 832787**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832295**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| WI Gasoline Range Organics (C5-C10) | 20000 | 19200 | | ug/Kg | | 96 | 80 - 120 |

## Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC) (Continued)

**Lab Sample ID: LCSD 500-832295/24-A**
**Matrix: Solid**
**Analysis Batch: 832787**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 832295**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WI Gasoline Range Organics (C5-C10) | | | 20000 | 18400 | | ug/Kg | | 92 | 80 - 120 | 4 | 20 |

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 500-832112/1-A**
**Matrix: Solid**
**Analysis Batch: 832371**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 832112**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | <6.6 | | 17 | 6.6 | ug/Kg | | 08/29/25 15:41 | 09/03/25 11:16 | 1 |
| PCB-1221 | <6.6 | | 17 | 6.6 | ug/Kg | | 08/29/25 15:41 | 09/03/25 11:16 | 1 |
| PCB-1232 | <4.5 | | 17 | 4.5 | ug/Kg | | 08/29/25 15:41 | 09/03/25 11:16 | 1 |
| PCB-1242 | <6.5 | | 17 | 6.5 | ug/Kg | | 08/29/25 15:41 | 09/03/25 11:16 | 1 |
| PCB-1248 | <7.9 | | 17 | 7.9 | ug/Kg | | 08/29/25 15:41 | 09/03/25 11:16 | 1 |
| PCB-1254 | <5.7 | | 17 | 5.7 | ug/Kg | | 08/29/25 15:41 | 09/03/25 11:16 | 1 |
| PCB-1260 | <6.3 | | 17 | 6.3 | ug/Kg | | 08/29/25 15:41 | 09/03/25 11:16 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *75* | | *49 - 129* | *08/29/25 15:41* | *09/03/25 11:16* | *1* |
| *DCB Decachlorobiphenyl* | *88* | | *37 - 121* | *08/29/25 15:41* | *09/03/25 11:16* | *1* |

**Lab Sample ID: LCS 500-832112/2-A**
**Matrix: Solid**
**Analysis Batch: 832371**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832112**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 167 | 170 | | ug/Kg | | 102 | 57 - 120 | | |
| PCB-1260 | | | 167 | 178 | | ug/Kg | | 107 | 61 - 125 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *97* | | *49 - 129* |
| *DCB Decachlorobiphenyl* | *70* | | *37 - 121* |

**Lab Sample ID: 500-273743-1 MS**
**Matrix: Solid**
**Analysis Batch: 832371**

**Client Sample ID: Wash Rack**
**Prep Type: Total/NA**
**Prep Batch: 832112**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | <7.2 | | 183 | 160 | | ug/Kg | ☼ | 87 | 57 - 120 | | |
| PCB-1260 | <6.9 | | 183 | 154 | | ug/Kg | ☼ | 84 | 61 - 125 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *90* | | *49 - 129* |
| *DCB Decachlorobiphenyl* | *86* | | *37 - 121* |

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 500-273743-1 MSD**
**Matrix: Solid**
**Analysis Batch: 832371**

**Client Sample ID: Wash Rack**
**Prep Type: Total/NA**
**Prep Batch: 832112**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | <7.2 | | 174 | 157 | | ug/Kg | ☼ | 90 | 57 - 120 | 2 | 30 |
| PCB-1260 | <6.9 | | 174 | 171 | | ug/Kg | ☼ | 98 | 61 - 125 | 10 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *88* | | *49 - 129* |
| *DCB Decachlorobiphenyl* | *110* | | *37 - 121* |

## Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

**Lab Sample ID: MB 500-831890/1-A**
**Matrix: Solid**
**Analysis Batch: 832058**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 831890**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | <2.6 | | 4.0 | 2.6 | mg/Kg | | 08/28/25 10:36 | 08/29/25 14:01 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Nonane* | | | | *08/28/25 10:36* | *08/29/25 14:01* | *1* |

**Lab Sample ID: LCS 500-831890/2-A**
**Matrix: Solid**
**Analysis Batch: 832058**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 831890**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 40.0 | 40.6 | | mg/Kg | | 102 | 70 - 120 |

**Lab Sample ID: LCSD 500-831890/3-A**
**Matrix: Solid**
**Analysis Batch: 832058**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 831890**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 40.0 | 39.6 | | mg/Kg | | 99 | 70 - 120 | 3 | 20 |

## Method: 6010D - Metals (ICP)

**Lab Sample ID: LCS 500-832598/2-A**
**Matrix: Solid**
**Analysis Batch: 832922**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832598**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 0.100 | 0.0979 | | mg/L | | 98 | 80 - 120 |
| Barium | 0.500 | 0.494 | | mg/L | | 99 | 80 - 120 |
| Cadmium | 0.0500 | 0.0459 | | mg/L | | 92 | 80 - 120 |
| Chromium | 0.200 | 0.178 | | mg/L | | 89 | 80 - 120 |
| Lead | 0.100 | 0.100 | | mg/L | | 100 | 80 - 120 |
| Selenium | 0.100 | 0.105 | | mg/L | | 105 | 80 - 120 |
| Silver | 0.0500 | 0.0473 | | mg/L | | 95 | 80 - 120 |

## Method: 6010D - Metals (ICP) (Continued)

**Lab Sample ID: MB 500-833112/1-A**
**Matrix: Solid**
**Analysis Batch: 833485**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 833112**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.34 | | 1.0 | 0.34 | mg/Kg | | 09/09/25 08:54 | 09/10/25 17:14 | 1 |
| Barium | <0.11 | | 1.0 | 0.11 | mg/Kg | | 09/09/25 08:54 | 09/10/25 17:14 | 1 |
| Cadmium | <0.036 | | 0.20 | 0.036 | mg/Kg | | 09/09/25 08:54 | 09/10/25 17:14 | 1 |
| Chromium | <0.50 | | 1.0 | 0.50 | mg/Kg | | 09/09/25 08:54 | 09/10/25 17:14 | 1 |
| Lead | <0.23 | | 0.50 | 0.23 | mg/Kg | | 09/09/25 08:54 | 09/10/25 17:14 | 1 |
| Selenium | <0.59 | | 1.0 | 0.59 | mg/Kg | | 09/09/25 08:54 | 09/10/25 17:14 | 1 |
| Silver | <0.13 | | 0.50 | 0.13 | mg/Kg | | 09/09/25 08:54 | 09/10/25 17:14 | 1 |

**Lab Sample ID: LCS 500-833112/2-A**
**Matrix: Solid**
**Analysis Batch: 833485**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 833112**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 10.0 | 9.75 | | mg/Kg | | 98 | 80 - 120 |
| Barium | 200 | 197 | | mg/Kg | | 98 | 80 - 120 |
| Cadmium | 5.00 | 4.77 | | mg/Kg | | 95 | 80 - 120 |
| Chromium | 20.0 | 18.7 | | mg/Kg | | 93 | 80 - 120 |
| Lead | 10.0 | 10.2 | | mg/Kg | | 102 | 80 - 120 |
| Selenium | 10.0 | 8.21 | | mg/Kg | | 82 | 80 - 120 |
| Silver | 5.00 | 4.25 | | mg/Kg | | 85 | 80 - 120 |

**Lab Sample ID: LB 500-832354/1-B**
**Matrix: Solid**
**Analysis Batch: 832922**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 832598**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.0037 | | 0.010 | 0.0037 | mg/L | | 09/04/25 13:40 | 09/05/25 22:22 | 1 |
| Barium | 0.00923 | J | 0.010 | 0.0012 | mg/L | | 09/04/25 13:40 | 09/05/25 22:22 | 1 |
| Cadmium | <0.00043 | | 0.0020 | 0.00043 | mg/L | | 09/04/25 13:40 | 09/05/25 22:22 | 1 |
| Chromium | 0.00267 | J | 0.010 | 0.0017 | mg/L | | 09/04/25 13:40 | 09/05/25 22:22 | 1 |
| Lead | <0.0027 | | 0.0050 | 0.0027 | mg/L | | 09/04/25 13:40 | 09/05/25 22:22 | 1 |
| Selenium | 0.00657 | J | 0.010 | 0.0053 | mg/L | | 09/04/25 13:40 | 09/05/25 22:22 | 1 |
| Silver | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 09/04/25 13:40 | 09/05/25 22:22 | 1 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-832804/12-A**
**Matrix: Solid**
**Analysis Batch: 832962**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 832804**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 09/05/25 14:55 | 09/08/25 11:50 | 1 |

**Lab Sample ID: LCS 500-832804/14-A**
**Matrix: Solid**
**Analysis Batch: 832962**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 832804**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 2.00 | 2.16 | | ug/L | | 108 | 80 - 120 |

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: LB 500-832354/1-C**
**Matrix: Solid**
**Analysis Batch: 832962**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 832804**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 09/05/25 14:55 | 09/08/25 11:52 | 1 |

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 500-833332/12-A**
**Matrix: Solid**
**Analysis Batch: 833552**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 833332**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.0069 | | 0.017 | 0.0069 | mg/Kg | | 09/10/25 15:15 | 09/11/25 07:53 | 1 |

**Lab Sample ID: LCS 500-833332/13-A**
**Matrix: Solid**
**Analysis Batch: 833552**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 833332**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.167 | 0.164 | | mg/Kg | | 98 | 80 - 120 |

# Lab Chronicle

Client: US Army
Job ID: 500-273743-1
Project/Site: Fort McCoy - Soils Total/TCLP

## Client Sample ID: Wash Rack
**Lab Sample ID: 500-273743-1**
**Date Collected: 08/27/25 09:20**
**Matrix: Solid**
**Date Received: 08/28/25 09:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| TCLP | Leach | 1311 | | | 832582 | TJ | EET CHI | 09/04/25 14:03 - 09/05/25 08:03 [1] |
| TCLP | Analysis | 8260D | | 20 | 833063 | PMF | EET CHI | 09/09/25 13:39 |
| TCLP | Leach | 1311 | | | 832354 | PA | EET CHI | 09/03/25 15:52 - 09/04/25 09:52 [1] |
| TCLP | Prep | 3010A | | | 832598 | S1Z | EET CHI | 09/04/25 13:40 - 09/04/25 19:40 [1] |
| TCLP | Analysis | 6010D | | 1 | 832922 | SJ | EET CHI | 09/05/25 23:31 |
| TCLP | Leach | 1311 | | | 832354 | PA | EET CHI | 09/03/25 15:52 - 09/04/25 09:52 [1] |
| TCLP | Prep | 7470A | | | 832804 | MJG | EET CHI | 09/05/25 14:55 - 09/05/25 16:55 [1] |
| TCLP | Analysis | 7470A | | 1 | 832962 | MJG | EET CHI | 09/08/25 12:11 |
| Total/NA | Analysis | 9095B | | 1 | 833429 | CLB | EET CHI | 09/11/25 03:50 |
| Total/NA | Analysis | Moisture | | 1 | 832087 | MF | EET CHI | 08/29/25 14:06 |
| Total/NA | Analysis | D422 | | 1 | 219821 | SML | EET BUR | 08/29/25 15:05 |

## Client Sample ID: Wash Rack
**Lab Sample ID: 500-273743-1**
**Date Collected: 08/27/25 09:20**
**Matrix: Solid**
**Date Received: 08/28/25 09:15**
**Percent Solids: 90.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 832295 | KP | EET CHI | 08/27/25 09:20 |
| Total/NA | Analysis | 8260D | | 50 | 832878 | W1T | EET CHI | 09/08/25 19:27 |
| Total/NA | Prep | 3546 | | | 832145 | SC | EET CHI | 09/02/25 07:27 |
| Total/NA | Analysis | 8270E | | 2 | 832192 | MM | EET CHI | 09/02/25 20:12 |
| Total/NA | Prep | 5035 | | | 832295 | KP | EET CHI | 08/27/25 09:20 |
| Total/NA | Analysis | WI-GRO | | 50 | 832787 | W1T | EET CHI | 09/05/25 23:42 |
| Total/NA | Prep | 3541 | | | 832112 | SV | EET CHI | 08/29/25 15:41 - 08/29/25 21:04 [1] |
| Total/NA | Analysis | 8082A | | 1 | 832371 | H7CM | EET CHI | 09/03/25 13:47 |
| Total/NA | Prep | WI DRO PREP | | | 831890 | FRG | EET CHI | 08/28/25 13:06 - 08/29/25 11:00 [1] |
| Total/NA | Analysis | WI-DRO | | 20 | 832152 | H7CM | EET CHI | 09/02/25 11:10 |
| Total/NA | Prep | 3050B | | | 833112 | BDE | EET CHI | 09/09/25 08:54 - 09/09/25 14:54 [1] |
| Total/NA | Analysis | 6010D | | 1 | 833485 | S1Z | EET CHI | 09/10/25 18:56 |
| Total/NA | Prep | 7471B | | | 833332 | MJG | EET CHI | 09/10/25 15:15 |
| Total/NA | Analysis | 7471B | | 1 | 833552 | MJG | EET CHI | 09/11/25 08:37 |

## Client Sample ID: B2960
**Lab Sample ID: 500-273743-2**
**Date Collected: 08/27/25 08:45**
**Matrix: Solid**
**Date Received: 08/28/25 09:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| TCLP | Leach | 1311 | | | 832582 | TJ | EET CHI | 09/04/25 14:03 - 09/05/25 08:03 [1] |
| TCLP | Analysis | 8260D | | 20 | 833063 | PMF | EET CHI | 09/09/25 13:16 |
| TCLP | Leach | 1311 | | | 832354 | PA | EET CHI | 09/03/25 15:52 - 09/04/25 09:52 [1] |
| TCLP | Prep | 3010A | | | 832598 | S1Z | EET CHI | 09/04/25 13:40 - 09/04/25 19:40 [1] |
| TCLP | Analysis | 6010D | | 1 | 832922 | SJ | EET CHI | 09/05/25 23:35 |
| TCLP | Leach | 1311 | | | 832354 | PA | EET CHI | 09/03/25 15:52 - 09/04/25 09:52 [1] |
| TCLP | Prep | 7470A | | | 832804 | MJG | EET CHI | 09/05/25 14:55 - 09/05/25 16:55 [1] |
| TCLP | Analysis | 7470A | | 1 | 832962 | MJG | EET CHI | 09/08/25 12:13 |

# Lab Chronicle

Client: US Army
Job ID: 500-273743-1
Project/Site: Fort McCoy - Soils Total/TCLP

## Client Sample ID: B2960
**Lab Sample ID: 500-273743-2**
**Date Collected: 08/27/25 08:45**
**Matrix: Solid**
**Date Received: 08/28/25 09:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 9095B | | 1 | 833429 | CLB | EET CHI | 09/11/25 04:00 |
| Total/NA | Analysis | Moisture | | 1 | 832087 | MF | EET CHI | 08/29/25 14:06 |
| Total/NA | Analysis | D422 | | 1 | 219821 | SML | EET BUR | 08/29/25 15:07 |

## Client Sample ID: B2960
**Lab Sample ID: 500-273743-2**
**Date Collected: 08/27/25 08:45**
**Matrix: Solid**
**Date Received: 08/28/25 09:15**
**Percent Solids: 94.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 832295 | KP | EET CHI | 08/27/25 08:45 |
| Total/NA | Analysis | 8260D | | 50 | 832878 | W1T | EET CHI | 09/08/25 19:51 |
| Total/NA | Prep | 3546 | | | 832145 | SC | EET CHI | 09/02/25 07:27 |
| Total/NA | Analysis | 8270E | | 1 | 832192 | MM | EET CHI | 09/02/25 18:37 |
| Total/NA | Prep | 5035 | | | 832295 | KP | EET CHI | 08/27/25 08:45 |
| Total/NA | Analysis | WI-GRO | | 50 | 832787 | W1T | EET CHI | 09/06/25 00:15 |
| Total/NA | Prep | 3541 | | | 832112 | SV | EET CHI | 08/29/25 15:41 - 08/29/25 21:04 [1] |
| Total/NA | Analysis | 8082A | | 1 | 832371 | H7CM | EET CHI | 09/03/25 14:32 |
| Total/NA | Prep | WI DRO PREP | | | 831890 | FRG | EET CHI | 08/28/25 13:06 - 08/29/25 11:00 [1] |
| Total/NA | Analysis | WI-DRO | | 20 | 832152 | H7CM | EET CHI | 09/02/25 11:31 |
| Total/NA | Prep | 3050B | | | 833112 | BDE | EET CHI | 09/09/25 08:54 - 09/09/25 14:54 [1] |
| Total/NA | Analysis | 6010D | | 1 | 833485 | S1Z | EET CHI | 09/10/25 19:01 |
| Total/NA | Prep | 7471B | | | 833332 | MJG | EET CHI | 09/10/25 15:15 |
| Total/NA | Analysis | 7471B | | 1 | 833552 | MJG | EET CHI | 09/11/25 08:39 |

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

**Laboratory References:**

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

# Accreditation/Certification Summary

Client: US Army
Job ID: 500-273743-1
Project/Site: Fort McCoy - Soils Total/TCLP

## Laboratory: Eurofins Chicago

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Wisconsin | State | 399172840 | 08-31-26 |

## Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| ANAB | Dept. of Defense ELAP | L2336 | 02-25-26 |
| Connecticut | State | PH-0751 | 09-30-25 |
| DE Haz. Subst. Cleanup Act (HSCA) | State | N/A | 05-20-26 |
| Florida | NELAP | E87467 | 06-30-26 |
| Minnesota | NELAP | 050-999-436 | 12-31-25 |
| New Hampshire | NELAP | 2006 | 09-04-25 |
| New Jersey | NELAP | VT972 | 09-02-25 |
| New York | NELAP | 10391 | 03-31-26 |
| Pennsylvania | NELAP | 68-00489 | 04-30-26 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-26 |
| USDA | US Federal Programs | 525-23-353-27750 | 12-19-26 |
| Virginia | NELAP | 460209 | 12-14-25 |
| Wisconsin | State | 399140830 | 08-31-25 |

**Eurofins Chicago**
18410 Crossing Drive Suite E
Tinley Park, IL 60487
Phone 708-534-5200 Fax 708 534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information | Sampler: Jeff Beaty | Lab PM: Fredrick, Sandie | Carrier Tracking No(s): | COC No: 500-139192-53391 1 |
|---|---|---|---|---|
| Client Contact: Jeff Beaty | Phone: 502-898-8034 | E-Mail: Sandra Fredrick@et eurofinsus com | State of Origin: | Page: Page 1 of 1 |
| Company: US Army | PWSID: | Analysis Requested | | Job #: 500-273743 |
| Address: 2171 S 8th Avenue | Due Date Requested: 12Sep25 | | | Preservation Codes: N None |
| City: Fort McCoy | TAT Requested (days): 14 Days | | | |
| State, Zip: WI, 54656 | Compliance Project: Δ Yes Δ No | | | |
| Phone: 502-898 8034 | PO #: Pay by Credit Card | | | |
| Email: jeffrey j beaty civ@army mil | WO #: | | | |
| Project Name: Fort McCoy - Soils Total/TCLP | Project #: 50020124 | | | |
| Site: FORT McCOY | SSOW#: | | | Other |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air DW=Drinking Water) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6010D, 7470A, 8082A, 8260D, 9095B | WI_GRO - WI GRO | WI_DRO - WI DRO | D422 - Grain Size (Sieve and Hydrometer) | 6010D, 7471B, 8270E | 8260D - VOC | 500-273743 COC | Total Number of containers | Special Instructions/Note. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code | | | | N | N | N | N | N | N | | | |
| 1 Wash Rack | 27Aug25 | 0920 | C | Solid | | | 1 | 1 | 1 | 1 | 1 | 1 | | 6 | |
| 2 B2960 | 27Aug25 | 0845 | C | Solid | | | 1 | 1 | 1 | 1 | 1 | 1 | | 6 | |
| | | | | Solid | | | | | | | | | | | |
| | | | | Solid | | | | | | | | | | | |

***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 |
|---|---|---|---|---|---|
| Jeffrey Beaty | 27 Aug 25 / 1013 0 | US Army | Angel Knapp | 08/28/25 0916 | EETA |
| Relinquished by: | Date/Time | Company | Received by: | Date/Time | Company |
| Relinquished by: | Date/Time | Company | Received by: | Date/Time | Company |

| Custody Seals Intact Δ Yes Δ No | Custody Seal No 2817738 | Cooler Temperature(s) °C and Other Remarks 33 → 25 48QT |
|---|---|---|


JEFF BEATY
U.S. ARMY
2171 SOUTH 8TH AVE
FORT MCCOY, WI 54656
UNITED STATES US
ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3908
TO SAMPLE RECEIPT
EUROFINS
18410 CROSSING DRI
SUITE E
TINLEY PARK IL 6048
(708) 534-5200
REF:
INV:
PO:
DEPT:
500-273743 Waybi
Part # 159469-434 RRDB2 EXP 04/26
RMA:
FedEx
Express
FedEx.
TRK# 0221 4722 8639 4047
THU - 28 AUG AA
PRIORITY OVERNIGHT
XP JOTA
60487
IL-US
ORD

**Eurofins Chicago**
18410 Crossing Drive Suite E
Tinley Park, IL 60487
Phone 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

500-273743 Chain of Custody

Environment Testing

| Client Information (Sub Contract Lab) | Sampler: N/A | Lab PM: Mleczko, Steve V | | |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: N/A | E-Mail: Steve.Mleczko@et.eurofinsus.com | State of Origin: Wisconsin | Page: Page 1 of 1 |
| Company: TestAmerica Laboratories, Inc | | Accreditations Required (See note): State Program - Wisconsin | | Job #: 500-273743-1 |
| Address: 530 Community Drive, Suite 11, | Due Date Requested: 9/11/2025 | | | |
| City: South Burlington | TAT Requested (days): N/A | | | |
| State, Zip: VT, 05403 | | | | |
| Phone: 802-660-1990(Tel) 802-660-1919(Fax) | PO #: N/A | | | |
| Email: N/A | WO #: N/A | | | |
| Project Name: Fort McCoy - Soils Total/TCLP | Project #: 50020124 | | | |
| Site: N/A | SSOW#: N/A | | | |

**Analysis Requested**

**Preservation Codes:** -

**Other:** N/A

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | D422Grain Size (Sieve and Hydrometer) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | |
| Wash Rack (500-273743-1) | 8/27/25 | 09 20 Central | G | Solid | | | X | 1 | |
| B2960 (500-273743-2) | 8/27/25 | 08 45 Central | G | Solid | | | X | 1 | |

Note Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago

| ***Possible Hazard Identification*** | ***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*** |
|---|---|
| *Unconfirmed* | ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months* |
| Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2 | Special Instructions/QC Requirements |

| Empty Kit Relinquished by | Date: | Time | Method of Shipment: |
|---|---|---|---|

| | Relinquished by: Stephanie Hernandez | Date/Time: 8/28/25 1630 | Company: EEIA | Received by: | Date/Time: 8/29/2025 9:50 | Company: Fedex |
|---|---|---|---|---|---|---|
| | Relinquished by | Date/Time | Company | Received by: | Date/Time | Company |
| | Relinquished by: | Date/Time | Company | Received by: | Date/Time | Company |

| Custody Seals Intact. Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks |
|---|---|---|

Ver: 10/10/2024



9/11/2025



ORIGIN ID:JOTA (708) 534-5200
EUROFINS CHICAGO
EUROFINS CHICAGO
18410 CROSSING DR STE E

TINLEY PARK, IL 60487
UNITED STATES US

SHIP DATE: 28AUG25
ACTWGT: 6.00 LB MAN
CAD: 0675905/CAFE3950

BILL SENDER

TO SAMPLE RECEIVING
EUROFINS
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF: 273743 SH

FedEx Express

FRI - 29 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 0201 4468 9408 6633

NX BRLTG

BTVA 05403
VT-US BTV

Part # 156148-434 RIT EXP 09/18

2858085

# Login Sample Receipt Checklist

Client: US Army

Job Number: 500-273743-1

**Login Number: 273743**
**List Number: 1**
**Creator: Knox, Angel**

**List Source: Eurofins Chicago**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 2.5 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: US Army

Job Number: 500-273743-1

**Login Number: 273743**
**List Number: 2**
**Creator: Khudaier, Zahraa**

**List Source: Eurofins Burlington**
**List Creation: 08/29/25 11:56 AM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | Lab does not accept radioactive samples. |
| The cooler's custody seal, if present, is intact. | True | 2858085 |
| 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 | 19.2ºC |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | N/A | |
| 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 | |

November 6, 2025

Josh King
King Scrap, LLC
W8971 Sand Road
Pepin, WI 54759 rockelmscrap@gmail.com

Re: Soil sampling results from Lindstrom Accident.
Durand, Wisconsin.
AET Project No. P-0048280.

Dear Mr. King:

Attached are laboratory results from the Lindstrom Accident site.

We appreciate the opportunity to serve you on this project. If you have any questions or require additional information, give me a call.

Sincerely,
**American Engineering Testing, Inc.**



Michael K. Neal, Professional Hydrologist
Geomorphologist

Direct Phone: 715-201-9116
Cell Phone: 715-894-6455
Email: mneal@teamAET.com


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eurofins | Environment Testing

**REVIEWED**
*By mneal at 8:16 am, Nov 06, 2025*

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Michael Neal
American Engineering Testing Inc.
1837 Cty Hwy OO
Chippewa Falls, Wisconsin 54729

Generated 11/6/2025 7:57:55 AM

## JOB DESCRIPTION

C Lindstrom Accident P-0048280

## JOB NUMBER

500-276846-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

## Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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

## Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

## Authorization



Generated
11/6/2025 7:57:55 AM

Authorized for release by
Steve Mleczko, Project Manager II
Steve.Mleczko@et.eurofinsus.com
(708)534-5200

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**Job Narrative**
**500-276846-1**

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

**Receipt**
The sample was received on 10/24/2025 9:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

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

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

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

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

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

# Detection Summary

Client: American Engineering Testing Inc.
Project/Site: C Lindstrom Accident P-0048280

Job ID: 500-276846-1

## Client Sample ID: S-1

## Lab Sample ID: 500-276846-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| WI Gasoline Range Organics (C5-C10) | 46 | | 1.7 | 0.87 | mg/Kg | 50 | ☼ | WI-GRO | Total/NA |
| WI Diesel Range Organics (C10-C28) | 7700 | | 830 | 550 | mg/Kg | 200 | ☼ | WI-DRO | Total/NA |
| Lead | 44 | | 0.46 | 0.21 | mg/Kg | 1 | ☼ | 6010D | Total/NA |

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: American Engineering Testing Inc.
Project/Site: C Lindstrom Accident P-0048280

Job ID: 500-276846-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260D | Volatile Organic Compounds by GC/MS | SW846 | EET CHI |
| WI-GRO | Wisconsin - Gasoline Range Organics (GC) | WI-GRO | EET CHI |
| WI-DRO | Wisconsin - Diesel Range Organics (GC) | WI-DRO | EET CHI |
| 6010D | Metals (ICP) | SW846 | EET CHI |
| Moisture | Percent Moisture | EPA | EET CHI |
| 3050B | Preparation, Metals | SW846 | EET CHI |
| 5035 | Closed System Purge and Trap | SW846 | EET CHI |
| WI DRO PREP | Wisconsin Extraction (Diesel Range Organics) | WI-DRO | EET CHI |
| WI GRO | Closed System Purge and Trap | WI-GRO | EET 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.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

**Laboratory References:**

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

# Sample Summary

Client: American Engineering Testing Inc.
Project/Site: C Lindstrom Accident P-0048280

Job ID: 500-276846-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Sample Origin |
|---|---|---|---|---|---|
| 500-276846-1 | S-1 | Solid | 10/23/25 11:00 | 10/24/25 09:30 | Wisconsin |

Client: American Engineering Testing Inc.
Project/Site: C Lindstrom Accident P-0048280

Job ID: 500-276846-1

**Client Sample ID: S-1**
**Date Collected: 10/23/25 11:00**
**Date Received: 10/24/25 09:30**

**Lab Sample ID: 500-276846-1**
**Matrix: Solid**
**Percent Solids: 91.7**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.0071 | | 0.014 | 0.0071 | mg/Kg | ☼ | 10/28/25 16:01 | 10/31/25 23:09 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *72 - 124* | *10/28/25 16:01* | *10/31/25 23:09* | *50* |
| *Dibromofluoromethane (Surr)* | *105* | | *75 - 120* | *10/28/25 16:01* | *10/31/25 23:09* | *50* |
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *75 - 126* | *10/28/25 16:01* | *10/31/25 23:09* | *50* |
| *Toluene-d8 (Surr)* | *97* | | *75 - 120* | *10/28/25 16:01* | *10/31/25 23:09* | *50* |

### Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **WI Gasoline Range Organics (C5-C10)** | **46** | | 1.7 | 0.87 | mg/Kg | ☼ | 10/28/25 16:01 | 11/03/25 16:29 | 50 |

### 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)** | **7700** | | 830 | 550 | mg/Kg | ☼ | 10/29/25 14:47 | 11/05/25 10:12 | 200 |

### Method: SW846 6010D - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **44** | | 0.46 | 0.21 | mg/Kg | ☼ | 10/30/25 07:15 | 11/01/25 00:42 | 1 |

Client: American Engineering Testing Inc.
Job ID: 500-276846-1
Project/Site: C Lindstrom Accident P-0048280

## 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: 840521

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-276846-1 | S-1 | Total/NA | Solid | WI GRO | |

### Analysis Batch: 841124

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-276846-1 | S-1 | Total/NA | Solid | 8260D | 840521 |
| MB 500-841124/9 | Method Blank | Total/NA | Solid | 8260D | |
| LCS 500-841124/5 | Lab Control Sample | Total/NA | Solid | 8260D | |
| LCSD 500-841124/7 | Lab Control Sample Dup | Total/NA | Solid | 8260D | |

## GC VOA

### Prep Batch: 840521

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-276846-1 | S-1 | Total/NA | Solid | WI GRO | |
| LB3 500-840521/16-A | Method Blank | Total/NA | Solid | WI GRO | |
| LCS 500-840521/18-A | Lab Control Sample | Total/NA | Solid | WI GRO | |
| LCSD 500-840521/19-A | Lab Control Sample Dup | Total/NA | Solid | WI GRO | |

### Analysis Batch: 841360

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-276846-1 | S-1 | Total/NA | Solid | WI-GRO | 840521 |
| LB3 500-840521/16-A | Method Blank | Total/NA | Solid | WI-GRO | 840521 |
| LCS 500-840521/18-A | Lab Control Sample | Total/NA | Solid | WI-GRO | 840521 |
| LCSD 500-840521/19-A | Lab Control Sample Dup | Total/NA | Solid | WI-GRO | 840521 |

## GC Semi VOA

### Prep Batch: 840707

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-276846-1 | S-1 | Total/NA | Solid | WI DRO PREP | |
| MB 500-840707/1-A | Method Blank | Total/NA | Solid | WI DRO PREP | |
| LCS 500-840707/2-A | Lab Control Sample | Total/NA | Solid | WI DRO PREP | |
| LCSD 500-840707/3-A | Lab Control Sample Dup | Total/NA | Solid | WI DRO PREP | |

### Analysis Batch: 841567

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 500-840707/1-A | Method Blank | Total/NA | Solid | WI-DRO | 840707 |
| LCS 500-840707/2-A | Lab Control Sample | Total/NA | Solid | WI-DRO | 840707 |
| LCSD 500-840707/3-A | Lab Control Sample Dup | Total/NA | Solid | WI-DRO | 840707 |

### Analysis Batch: 841656

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-276846-1 | S-1 | Total/NA | Solid | WI-DRO | 840707 |

## Metals

### Prep Batch: 840779

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-276846-1 | S-1 | Total/NA | Solid | 3050B | |
| MB 500-840779/1-A | Method Blank | Total/NA | Solid | 3050B | |
| LCS 500-840779/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |

# QC Association Summary

Client: American Engineering Testing Inc.
Project/Site: C Lindstrom Accident P-0048280

Job ID: 500-276846-1

## Metals

### Analysis Batch: 841206

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-276846-1 | S-1 | Total/NA | Solid | 6010D | 840779 |
| MB 500-840779/1-A | Method Blank | Total/NA | Solid | 6010D | 840779 |
| LCS 500-840779/2-A | Lab Control Sample | Total/NA | Solid | 6010D | 840779 |

## General Chemistry

### Analysis Batch: 839962

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-276846-1 | S-1 | Total/NA | Solid | Moisture | |

# Surrogate Summary

Client: American Engineering Testing Inc.
Project/Site: C Lindstrom Accident P-0048280

Job ID: 500-276846-1

## Method: 8260D - Volatile Organic Compounds by 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) |
| 500-276846-1 | S-1 | 108 | 105 | 109 | 97 |
| LCS 500-841124/5 | Lab Control Sample | 97 | 100 | 98 | 98 |
| LCSD 500-841124/7 | Lab Control Sample Dup | 93 | 100 | 97 | 93 |
| MB 500-841124/9 | Method Blank | 110 | 114 | 109 | 96 |

**Surrogate Legend**

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

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

**Lab Sample ID: MB 500-841124/9**
**Matrix: Solid**
**Analysis Batch: 841124**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00012 | | 0.00025 | 0.00012 | mg/Kg | | | 10/31/25 22:47 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *72 - 124* | | *10/31/25 22:47* | *1* |
| *Dibromofluoromethane (Surr)* | *114* | | *75 - 120* | | *10/31/25 22:47* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *75 - 126* | | *10/31/25 22:47* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *75 - 120* | | *10/31/25 22:47* | *1* |

**Lab Sample ID: LCS 500-841124/5**
**Matrix: Solid**
**Analysis Batch: 841124**

**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 | 0.0500 | | mg/Kg | | 100 | 70 - 120 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *100* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *98* | | *75 - 120* |

**Lab Sample ID: LCSD 500-841124/7**
**Matrix: Solid**
**Analysis Batch: 841124**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.0500 | 0.0493 | | mg/Kg | | 99 | 70 - 120 | 1 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *93* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *100* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *93* | | *75 - 120* |

## Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

**Lab Sample ID: LB3 500-840521/16-A**
**Matrix: Solid**
**Analysis Batch: 841360**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 840521**

| Analyte | LB3 Result | LB3 Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| WI Gasoline Range Organics (C5-C10) | <0.75 | | 1.5 | 0.75 | mg/Kg | | 10/28/25 16:04 | 11/03/25 15:54 | 50 |

## Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC) (Continued)

**Lab Sample ID: LCS 500-840521/18-A**
**Matrix: Solid**
**Analysis Batch: 841360**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 840521**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| WI Gasoline Range Organics (C5-C10) | 20.0 | 21.0 | | mg/Kg | | 105 | 80 - 120 |

**Lab Sample ID: LCSD 500-840521/19-A**
**Matrix: Solid**
**Analysis Batch: 841360**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 840521**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| WI Gasoline Range Organics (C5-C10) | 20.0 | 23.9 | | mg/Kg | | 119 | 80 - 120 | 13 | 20 |

## Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

**Lab Sample ID: MB 500-840707/1-A**
**Matrix: Solid**
**Analysis Batch: 841567**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 840707**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| WI Diesel Range Organics (C10-C28) | <2.6 | | 4.0 | 2.6 | mg/Kg | | 10/29/25 14:47 | 11/04/25 15:50 | 1 |

**Lab Sample ID: LCS 500-840707/2-A**
**Matrix: Solid**
**Analysis Batch: 841567**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 840707**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| WI Diesel Range Organics (C10-C28) | 40.0 | 43.4 | | mg/Kg | | 108 | 70 - 120 |

**Lab Sample ID: LCSD 500-840707/3-A**
**Matrix: Solid**
**Analysis Batch: 841567**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 840707**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| WI Diesel Range Organics (C10-C28) | 40.0 | 46.9 | | mg/Kg | | 117 | 70 - 120 | 8 | 20 |

## Method: 6010D - Metals (ICP)

**Lab Sample ID: MB 500-840779/1-A**
**Matrix: Solid**
**Analysis Batch: 841206**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 840779**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | <0.23 | | 0.50 | 0.23 | mg/Kg | | 10/30/25 07:15 | 11/01/25 00:06 | 1 |

**Lab Sample ID: LCS 500-840779/2-A**
**Matrix: Solid**
**Analysis Batch: 841206**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 840779**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Lead | 10.0 | 9.74 | | mg/Kg | | 97 | 80 - 120 |

# Lab Chronicle

Client: American Engineering Testing Inc.
Project/Site: C Lindstrom Accident P-0048280

Job ID: 500-276846-1

**Client Sample ID: S-1**
**Date Collected: 10/23/25 11:00**
**Date Received: 10/24/25 09:30**

**Lab Sample ID: 500-276846-1**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 839962 | RB | EET CHI | 10/27/25 08:52 |

**Client Sample ID: S-1**
**Date Collected: 10/23/25 11:00**
**Date Received: 10/24/25 09:30**

**Lab Sample ID: 500-276846-1**
**Matrix: Solid**
**Percent Solids: 91.7**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | WI GRO | | | 840521 | KP | EET CHI | 10/28/25 16:01 |
| Total/NA | Analysis | 8260D | | 50 | 841124 | W1T | EET CHI | 10/31/25 23:09 |
| Total/NA | Prep | WI GRO | | | 840521 | KP | EET CHI | 10/28/25 16:01 |
| Total/NA | Analysis | WI-GRO | | 50 | 841360 | PMF | EET CHI | 11/03/25 16:29 |
| Total/NA | Prep | WI DRO PREP | | | 840707 | FRG | EET CHI | 10/29/25 14:47 - 11/04/25 10:07 [1] |
| Total/NA | Analysis | WI-DRO | | 200 | 841656 | H7CM | EET CHI | 11/05/25 10:12 |
| Total/NA | Prep | 3050B | | | 840779 | BDE | EET CHI | 10/30/25 07:15 - 10/30/25 13:15 [1] |
| Total/NA | Analysis | 6010D | | 1 | 841206 | SJ | EET CHI | 11/01/25 00:42 |

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

**Laboratory References:**

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

# Accreditation/Certification Summary

Client: American Engineering Testing Inc.
Job ID: 500-276846-1
Project/Site: C Lindstrom Accident P-0048280

## Laboratory: Eurofins Chicago

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Wisconsin | State | 399172840 | 08-31-26 |

**Chicago**
18410 Crossing Drive, Suite E
Tinley Park, IL 60487
Phone 708 534 5200

eurofins | Environment Testing

# Chain of Custody Record

| Client Contact | Project Manager. Michael K. Neal | Site Contact: | Date: 10-23-25 | COC No |
|---|---|---|---|---|
| American Engineering Testing, Inc | Email: mneal@teamAET.com | Lab Contact: Steve Mleczko | Carrier: | 1 of 1 COCs |
| 1837 CTH OO | Analysis Turnaround Time | | | Job No 500-276846 |
| Chippewa Fall, WI 54729 | Calendar ( C ) or Work Days (W) | | | SDG No |
| 715-861-5045 Phone | TAT if different from Below | | | |
| 651-659-1379 FAX | ☒ 2 weeks | | | |
| Project Name C Lindstrom Accident | ☐ 1 week | | | |
| Site Durand, WI | ☐ 2 days | | | |
| P O # 18174 | ☐ 1 day | | | |
| AET Project # P-0048280 | 500-276846 COC | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | # of Cont. | Filtered Sample | DROs | GROs | Benzene | Lead | Sample Specific Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S-1 | 10-23-25 | 11:00 | G | Soil | 4 | | X | X | X | X | |

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

*Possible Hazard Identification*
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

*Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:

2.4 → 2.2

| Relinquished by | Company | Date/Time | Received by | Company | Date/Time |
|---|---|---|---|---|---|
| | AET | 10-23-25 16:30 | Fedex | | |
| Relinquished by | Company | Date/Time | Received by | Company | Date/Time |
| | | | | EETD | 10/24/25 0930 |
| Relinquished by | Company | Date/Time | Received by | Company | Date/Time |
| | | | | | |

# Login Sample Receipt Checklist

Client: American Engineering Testing Inc.

Job Number: 500-276846-1

**Login Number: 276846**

**List Source: Eurofins Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

| 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 | 2.2 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

3-20-2025

# 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) T30N, R14W, Sect 24, Town of Tiffany, Dunn Co.
4. Generator City Boyceville, WI
5. Generator State/Zip WI/unknown
6. General Contact Person Brian Kalweluge
   Phone # and email 608 792-2543, Brian.Kalweluge@Dairylandpower.com
7. Technical Contact Person SAME
   Phone # and email

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1. Name of Waste Soil and pig mats w/ hydraulic oil
2. Process Generating Waste Hydraulic line on equipment
3. Waste Color brown w/ blue tinted hydraulic oil
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 |
|---|---|
| C-Soil w/ hydraulic oil | 90 to 95 % |
| pig mats | 5 to 10 % |
| | ____ 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 None
11. Date of Analysis None

## 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 _X_Drum _____Paper Truck _____Dump Truck
_____Roll-off _X_Other Heavy Mil. trash bags

2. Waste Quantity/Units 2-3 55-gallon barrels equivalent

☒ One-time Disposal
☐ On-going Disposal

Frequency —

3. Hauler Name and Address Dairyland Power
3251 East Ave. South
La Crosse, WI 54602

4. Bill to Name and Address 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 | Kirk Hackbarth / 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 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 Brian Kalvelage
10. Title Water + Waste Specialist III
11. Name (Type or print) Brian Kalvelage
12. Date 3-20-2025

# 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 400 La Crosse Street
3. Facility Address (site of waste generation) 5432 33rd Street S.
4. Generator City La Crosse
5. Generator State/Zip WI / 54601
6. General Contact Person Derek Greebon
   Phone # and email 608-789-7505 / greebond@cityoflacrosse.org
7. Technical Contact Person John Wyciskalla
   Phone # and email 608.769.5046 / jwyciskalla@braunintertec.com

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1. Name of Waste sandy soil beneath asphalt pavement
2. Process Generating Waste Excavated soil beneath asphalt where gasoline spilled (~1 gallon)
3. Waste Color brown
4. Waste Odor x 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) _____ 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 | ____ | ____ | UNK |
| Cyanide | ____ | ____ | UNK |
| Sulfide | ____ | ____ | UNK |
| Phenol | ____ | ____ | UNK |
| Chlorinated Solvents | ____ | ____ | UNK |
| Aromatic Solvents | ____ | ____ | UNK |

10. Analytical Laboratory Pace Analytical

11. Date of Analysis May 20, 2025

## 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 6 cy / 1 unit

   ☑ One-time Disposal
   ☐ On-going Disposal

   Frequency 1

3. Hauler Name and Address Strupp Excavation
   N6200 County Rd XX
   Onalaska, WI 54650

4. Bill to Name and Address Braun Intertec Corp
   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 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 Derek Greebon

10. Title Superintendent of Water

11. Name (Type or print) Derek Greebon

12. Date May 30, 2025

# La Crosse County Landfill
# Application for Special Waste Disposal

## PART A: WASTE GENERATOR INFORMATION

1. Generator Name Merlin Homes
2. Generator Mailing Address N5733 County Rd Z
3. Facility Address (site of waste generation) _____
4. Generator City Onalaska
5. Generator State/Zip WI 54650
6. General Contact Person Mike Schulze
   Phone # and email 608-792-2360
7. Technical Contact Person same
   Phone # and email _____

---

1. Name of Waste gravel with fuel oil spill job.
2. Process Generating Waste Spill
3. Waste Color N/A
4. Waste Odor X None _____ Mild _____ Strong
5. Physical State _____ 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____
8. Flash Point (cc) _____ None _____<140F _____140-199F _____>200
9. a. Waste Composition:

| | Range |
|---|---|
| Soil | 0 to 99 % |
| | _____ 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 _____

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## 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
   _____Roll-off _____Other _____

2. Waste Quantity/Units Dump trailer

   [X] One-time Disposal
   [ ] On-going Disposal

   Frequency _____

3. Hauler Name and Address Marlin Homes
   W5733 County Rd Z
   Onalaska WI 54650

4. Bill to Name and Address _____

**To be Completed by La Crosse County Solid Waste**

| Waste Acceptance/Rejection | |
|---|---|
| 1) Does waste meet requirements of the current Plan of Operations? | [X] 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? | [X] Yes [ ] No |
| 5) Signature/Title | Jackie Doane / Ops 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 _____
10. Title Owner
11. Name (Type or print) _____
12. Date 6/19/25 JD

# 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 54601
3. Facility Address (site of waste generation) 2040 110th Ave, Dresser, WI 54009 (Polk County)
4. Generator City Dresser
5. Generator State/Zip Wisc.
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 Gravel and soil w/ mineral oil "(Luminol Tri)"
2. Process Generating Waste Malfunctioning CT unit inside substation
3. Waste Color Green/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 |
|---|---|
| % MX Rock/Soil | 90 to 99 % |
| % Oil | 1 to 10 % |
| | ____ to ____ % |
| | ____ to ____ % |
| | ____ to ____ % |

b. Does Waste Contain

| | Yes | No | Do Not Know |
|---|---|---|---|
| PCBS | ____ | ✓ | ____ |
| Cyanide | ____ | ✓ | ____ |
| Sulfide | ____ | ✓ | ____ |
| Phenol | ____ | ✓ | ____ |
| Chlorinated Solvents | ____ | ✓ | ____ |
| Aromatic Solvents | ____ | ✓ | ____ |

10. Analytical Laboratory NO - SDS sheet for oil can be provided on request
11. Date of Analysis NA

## 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
   _____Roll-off _____Other _____
2. Waste Quantity/Units 6-8 55-gallon Barrels

   ☒ One-time Disposal
   ☐ On-going Disposal

   Frequency NA
3. Hauler Name and Address Dairyland power
   3251 East Ave South
   LaCrosse, WI 54601
4. Bill to Name and Address Dairyland Power Cooperative
   3200 East Ave South
   LaCrosse, 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 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 NA.
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 and Waste Specialist
11. Name (Type or print) Brian Kalvelage
12. Date 7-8-2025

# 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 54601
3. Facility Address (site of waste generation) 5498 CTH "X", Eau Claire, 54703
4. Generator City Eau Claire (area), WI
5. Generator State/Zip 54703
6. General Contact Person Ahles, Tom
   Phone # and email —
7. Technical Contact Person Brian Kalvelage
   Phone # and email 608 792-2543, Brian.Kalvelage@Dairylandpower.com

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1. Name of Waste C-Soil w/ DTE-10 hydraulic oil (w/ blue tint) ~10 gallon spill
2. Process Generating Waste Tracked equipment hydraulic line leak
3. Waste Color brown/grey w/ blue tint (tint is added to hydraulics of all of our equipment now)
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 |
|---|---|
| 95% soil/gravel | 95 to 100 % |
| 5% hydraulic oil (DTE10) | ____ to 5 % |
| | ____ to ____ % |
| | ____ to ____ % |
| | ____ to ____ % |

b. Does Waste Contain

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

10. Analytical Laboratory SDS Available on request
11. Date of Analysis NA

## PART B: CAR WASH CATCH BASIS SLUDGE INFORMATION

Industrial discharge _____Yes _____No
Tank interiors _____Yes _____No NA
Vehicle types _____

## PART C: TRANSPORTATION INFORMATION

1. Method of delivery _____Drum _____Paper Truck ✓ Dump Truck
   _____Roll-off _____Other _____
2. Waste Quantity/Units One 55-gallon drum and 3 hvy mil. trash bags of c-soil.
   ☑ One-time Disposal
   ☐ On-going Disposal
   Frequency _____
3. Hauler Name and Address Dairyland Power Cooperative
   3251 East Ave South
   La Crosse, WI 54601
4. Bill to Name and Address Dairyland Power Cooperative
   3200 East Ave South
   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 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 NA.
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 + Waste Specialist III
11. Name (Type or print) Brian Kalvelage
12. Date 7-9-2025

# 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 2,549.11 of recycled asphalt shingles were received in 2025.

## 1.2 Tabulate the Location and Amount of Shingles Used by Individual Paving Project

For 2025, most of the 4,313.71 tons of processed shingles were sent out for incorporation into hot mix asphalt or aggregate. Minimal volumes remain. Processed shingles may also include asphalt shingles accepted and processed in 2025. The material was received by Mathy Construction and incorporated into aggregate material at two separate locations shown below. Unprocessed shingles received in 2025 will be processed in 2026.

| |
|---|
| 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 2025

| DATE | # OF LOADS | TONS | TOTAL SAMPLES REQUIRED | TOTAL SAMPLES SENT | TOTAL SAMPLES NON-ASBESTOS | TOTAL SAMPLES W/ASBESTOS | Date Shipped and Quantity |
|---|---|---|---|---|---|---|---|
| January | 2 | 3.56 | 0 | 0 | 0 | 0 | |
| February | 7 | 22.07 | 0 | 0 | 0 | 0 | |
| March | 26 | 75.03 | 1 | 1 | 1 | 0 | 4/3/2025 - 1 sample |
| April | 128 | 370.54 | 4 | 4 | 4 | 0 | 6/10/2025 - 4 samples |
| May | 162 | 494.25 | 5 | 5 | 5 | 0 | 6/10/2025 - 5 samples |
| June | 106 | 335.12 | 4 | 4 | 4 | 0 | 7/10/2025 - 4 samples |
| July | 116 | 361.17 | 4 | 4 | 4 | 0 | 8/11/2025 - 4 samples |
| August | 101 | 256.26 | 3 | 3 | 3 | 0 | 9/17/2025 - 3 samples |
| September | 93 | 258.50 | 3 | 3 | 3 | 0 | 10/22/2025 - 3 samples |
| October | 102 | 260.42 | 3 | 3 | 3 | 0 | 12/16/2025 - 3 samples |
| November | 41 | 99.03 | 1 | 1 | 1 | 0 | 12/16/2025 - 1 sample |
| December | 7 | 13.16 | 0 | 0 | 0 | 0 | |
| TOTALS | **891** | **2549.11** | **28** | **28** | **28** | 0 | |

## 1.5 Discuss the Positive Aspects of the Program

The Department received approval for shingle recycling in 2008 and we have been operating this recycling program since that time. 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.

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.

There are many key environmental benefits to recycling shingles. Roofing shingles are heavy and do not break down. Recycling them saves landfill space and extends landfill life. Since the shingles weigh approximately one ton per yard after processing, approximately 2,549 cubic yards of air space use will be avoided for 2025. Since the start of the program in 2008, over 104,000 tons of shingles have been sent for recycling. Recycled shingle product reduces raw material extraction. Asphalt shingles contain petroleum and aggregates. Recycling means less oil drilling and mining for new asphalt. 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.

Additionally, it creates a useful product to that can be used in road asphalt (hot-mix asphalt) and aggregate mix as a cost savings to end users. 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 2025. This is a highly visible recycling program that the community supports, and it aligns with State and County sustainability goals

