

UPS TRACKING NO. 1Z 6E3 809 03 9662 3327

June 11, 2025

Joshua Rilying
Illinois Environmental Protection Agency
Bureau of Land
Remedial Project Management Section
Site Remediation Program
2520 West Iles Avenue
P.O. Box 19276
Springfield, Illinois 62794-9276

**Re: 2010450028 – Winnebago County
South Beloit/PRS International
Site Remediation/Technical**

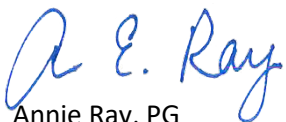
Dear Mr. Rilying:

Fehr Graham & Associates, LLC (Fehr Graham) is working on behalf of the City of South Beloit to complete Site investigation activities and SRP reporting pursuant to a comprehensive No Further Remediation letter for residential land use on the PRS International (CSB Shirland Avenue Property) Remediation Site located at 126 Shirland Avenue, South Beloit, Illinois 61080. Fehr Graham has prepared the enclosed *Amended Remedial Action Plan (Amended RAP)* to document the findings of pre-remediation sampling and treatability studies, and propose a revised remedial strategy based on the treatability results. The *Amended RAP* proposes soil excavation instead of in situ chemical oxidation for remediation of total petroleum hydrocarbons (TPH).

Please find enclosed the signed DRM-2 and two (2) copies of the report.

Should you have any questions or comments, please do not hesitate to contact us.

Sincerely,



Annie Ray, PG
Senior Project Hydrogeologist



Tony Guajardo, PG
Environmental Project Manager

AER/TG:lar

Enclosures

cc:

O:\South Beloit, City of\24-1907 - Shirland Avenue Amendments\PA Final\24-1907 - Shirland Ave 2026-06-10 Amended RAP Cover Letter.docx



Illinois Environmental Protection Agency

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Form to Request Review of Plans and Reports by the Illinois EPA under the Site Remediation Program (SRP) (Form DRM-2)

General Information

A Remediation Applicant requesting review of Site Remediation Program (SRP) plans and reports by the Illinois Environmental Protection Agency ("Illinois EPA") or by a Review and Evaluation Licensed Professional Engineer or Geologist ("RELPEG") must complete a DRM-2 Form. More than one plan or report may be submitted with this form.

Please ensure all required information is provided for all sections of this form. When completing this form, the letters "NA" may be used, but only if the requested information is not applicable. Justification must be stated for any failure to provide applicable requested information. This fillable form may be completed in Acrobat, a copy saved, printed, and signed before it is submitted to:

Illinois Environmental Protection Agency
Bureau of Land
Remedial Project Management Section
Site Remediation Program #24
2520 West Iles Avenue
PO Box 19276
Springfield, IL 62794-9276

To assist in implementing your plans or reports once they are approved by the Illinois EPA, you should keep a copy of every submittal and any relevant correspondence sent to the Illinois EPA, including correspondence received from the Illinois EPA.

*If a Review and Evaluation Licensed Professional Engineer or Geologist ("RELPEG") has been contracted to perform review and evaluation services, one additional copy of those plan(s) or report(s) must be included with the submittal. A RELPEG is a licensed professional engineer or geologist with whom a Remediation Applicant ("RA") has contracted to perform review and evaluation services under the direction of the Illinois EPA. The use of the RELPEG is an option available to an RA to obtain additional technical evaluation resources for a project. (See 58.7(c) of the Environmental Protection Act and 35 Illinois Administrative Code Part 740.235.)



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Site Remediation Program Form (DRM-2)

(To be Submitted with all Plans and Reports)

You may complete this form in Acrobat, save a copy, print, sign, and mail it to the address above.

I. Site Identification

Site Name: PRS International (CSB Shirland Avenue Property)

Street Address: 126 Shirland Avenue

City: South Beloit

State: IL

Zip Code: 61080

Phone: _____

Bureau of Land ID Number: 2010450028

II. Remediation Applicant

Applicant's Name: Ms. Sonya Hoppes

Company: City of South Beloit

Street Address: 519 Blackhawk Boulevard

P.O. Box: _____

City: South Beloit

State: IL

Zip Code: 61080

Phone: 815-389-3023

Email Address: s.hoppes@southbeloit.org

I hereby request that the Illinois EPA review and evaluate the attached project documents in accordance with the terms and conditions of the Environmental Protection Act (415 ILCS 5), implementing regulations, and the review and evaluation services agreement.

Remediation Applicant's Signature: _____

Date: _____

6/5/2026

III. Consultant

Contact's Name: Ms. Annie Ray, PG

Company: Fehr Graham & Associates, LLC (Fehr Graham)

Street Address: 200 Prairie Street, Suite 208

P.O. Box: _____

City: Rockford

State: IL

Zip Code: 61107

Phone: 815-394-4700

Email Address: aray@fehrgraham.com

IV. Professional Engineer's or Geologist's Seal or Stamp

Documents Submitted

- | | |
|--|---|
| ☐ Site Investigation Report - Comprehensive | ☐ Remedial Action Completion Report |
| ☐ Site Investigation Report - Focused | ☐ Sampling Plan |
| ☐ Remediation Objectives Report - Tier 1 or 2 | ☐ Dry Cleaner Trust Fund - Budget |
| ☐ Remediation Objectives Report - Tier 3 | ☐ Dry Cleaner Trust Fund - Reimbursement Request |
| ☒ Remedial Action Plan | ☐ Other: _____ |

I attest that all site investigations or remedial activities that are subject of this plan(s) or report(s) were performed under my direction, and this document and all attachments were prepared under my direction or reviewed by me, and to the best of my knowledge and belief, the work described in the plan and report has been designed or completed in accordance with the Illinois Environmental Protection Act (415 ILCS 5), 35 Ill. Adm. Code 740, and generally accepted engineering practices or principles of professional geology, and the information presented is accurate and complete.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 Felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Engineer's or

Geologist's Name: Seth Gronewold

Company: Fehr Graham & Associates, LLC (Fehr Graham)

Registration Number: 062-071468

Phone: (815) 394-4700

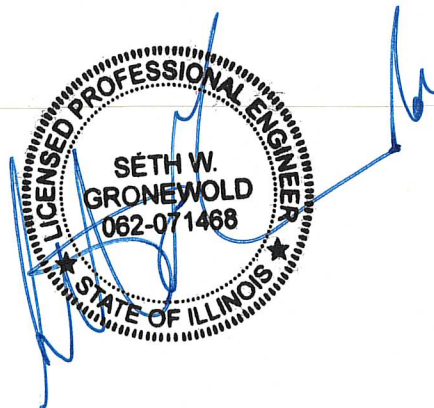
License Expiration Date: 11/30/2027

Signature: _____

Date: 6/10/26

Note: The authority of a Licensed Professional Geologist to certify documents submitted to the Illinois Environmental Protection Agency for review and evaluation pursuant to Title XVII of the Environmental Protection Act is limited to Site Investigation Reports (415 ILCS 58.7(f), as amended by P.A. 92-0735, effective July 25, 2002. A Licensed Professional Geologist cannot certify to Remediation Objectives Reports, Remedial Action Plans or Remedial Action Completion Reports.

Professional Engineer's or Geologist's
Seal or Stamp



Amended Remedial Action Plan

PRS International
(CSB Shirland Avenue Property)
126 Shirland Avenue
South Beloit, Illinois 61080

CA No. BF-00E02757

Project No.: 24-1907

June 4, 2026

Fehr Graham
200 Prairie Street
Rockford, Illinois 61107

City of South Beloit
519 Blackhawk Boulevard
South Beloit, Illinois 61080

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EXECUTIVE SUMMARY

Fehr Graham & Associates, LLC (Fehr Graham) has prepared this *Amended Remedial Action Plan (Amended RAP)* on behalf of the City of South Beloit (Remedial Applicant) for the CSB Shirland Avenue property located at 126 Shirland Avenue in South Beloit, Winnebago County, Illinois (Site). The purpose of this *Amended RAP* is to propose a revised remedial strategy in pursuit of Site closure through the Illinois Environmental Protection Agency (Illinois EPA) Site Remediation Program (SRP). The *Amended RAP* supersedes the *RAP* dated January 20, 2022, and subsequent correspondence dated February 28, 2023, which were conditionally approved by the SRP in a letter dated April 26, 2023.

The Site is comprised of approximately 11.04 acres of land located along the Illinois-Wisconsin state line in South Beloit. The Site is bounded to the west by Rock River, to the south by Turtle Creek and forested land, to the east by railroad tracks and industrial properties, and to the north by a parking lot and municipal pump house, followed by a baseball stadium on the north side of Shirland Avenue. The Site was historically developed with a large manufacturing facility from 1918 until 2007, used for refrigeration equipment manufacturing (1918 to at least 1958), steel products manufacturing (at least 1961 to 1972), an automotive body shop (early 1980s), and food distribution warehousing (1987-2007). Historical records indicate that past operations at the facility involved a foundry, machine shops, warehousing, woodworking, painting, welding, and railroad spurs. The Site has been vacant since the buildings were demolished in 2007. Redevelopment of the Site is planned to include parking lots for the adjoining baseball stadium and mixed-use commercial and public-use space.

Phase I Environmental Site Assessments completed at the Site (2009, 2017, 2020, 2024) identified recognized environmental conditions associated with historical industrial, manufacturing, and railroad operations. Initial soil and groundwater investigations completed in 2009 and 2010 identified various constituents of concern (COCs) in soil above the Illinois EPA *Tiered Approach to Corrective Action Objectives (TACO)* Tier 1 soil remediation objectives (SROs), including total petroleum hydrocarbons (TPH), benzene, and several polynuclear aromatic hydrocarbons (PNAs), and metals. In addition, manganese and lead were detected in groundwater above the *TACO* Tier 1 groundwater remediation objectives (GROs).

Additional Site investigations were completed in 2020 and 2021 to evaluate current Site conditions. In total, the investigations consisted of advancing 39 soil borings and installing 10 groundwater monitoring wells to facilitate the collection of 64 soil samples and 15 groundwater samples. Soil and groundwater samples were submitted for laboratory analysis of the comprehensive Target Compound List (TCL) parameters, VOCs, SVOCs, Inorganics, Pesticides, and PCBs, or a subset thereof as applicable for further delineation. Several soil samples were additionally analyzed for TPH based on the findings of the 2009-2010 investigations.

The investigations identified concentrations of benzene, trichloroethene, carbazole, N-Nitrosodi-n-propylamine, several PNAs and metals in soil above the Tier SROs, and manganese in groundwater above the Tier 1 groundwater remediation objectives (GROs). In addition, TPH was identified in soil at concentrations exceeding the soil attenuation capacity.

Soil and groundwater analytical results have been evaluated in accordance with *TACO*, using Tier 1 and Tier 2 assessments. This evaluation has revealed that the following exposure routes are exceeded at the Site: residential ingestion, construction worker ingestion, construction worker inhalation, and

groundwater ingestion. In addition, TPH concentrations represent a contaminant source area which must be addressed prior to excluding exposure routes through engineering or institutional controls. A *Comprehensive Site Investigation Report, Remedial Objectives Report, and Remedial Action Plan (CSIR/ROR/RAP)* were submitted to the Illinois EPA SRP in January 2022 and were conditionally approved following the *Response to Comments* submitted in February 2023.

A pre-remediation investigation was completed in 2025 for remediation design and planning. The pre-remediation investigation was completed to further evaluate chromium leachability, delineate lead and TPH remediation areas, and collect a bulk sample for TPH treatability studies. The TPH treatability evaluation was intended to determine the appropriate dosage of the proposed ISCO reagent for remediation; however, the results demonstrated that the proposed treatment method was not effective at the dosage rates evaluated. Therefore, the remediation strategy has been amended from ISCO to soil excavation.

The proposed remedial strategy consists of excavating soil with TPH exceeding the soil attenuation capacity, installing engineered barriers, and implementing institutional controls. Based on the completed Site characterization and remedial objectives evaluation, the selected remedial strategy is adequately protective of human health and the environment in consideration of future mixed commercial, parking, and public use of the Site.

1.0 Introduction

This *Amended Remedial Action Plan* has been designed to address the target compound list (TCL) constituents of concern (COCs) present in the subsurface at concentrations exceeding the applicable Site remedial objectives as presented in the *Comprehensive Site Investigation Report, Remedial Objectives Report, and Remedial Action Plan (CSIR/ROR/RAP)* (Fehr Graham, January 2022). The planned remedial strategy to mitigate potential receptor exposure to COCs at the Site is limited soil excavation for the Total Petroleum Hydrocarbon (TPH) source area, installation of engineered barriers, and implementation of institutional controls.

2.0 Pre-Remediation Sampling

A pre-remediation sampling investigation was completed in April 2025 by Fehr Graham. Locations of soil borings for the 2025 investigation were strategically selected to characterize the railroad right-of-way and to further investigate impacts identified in the 2020, 2021, and 2024 investigations to determine appropriate remedial techniques. Investigation and sampling methods were consistent with regulatory guidance and industry standards, in accordance with 35 Ill. Adm. Codes 740 and 742, and EPA SW-846. The specific physical and chemical methods utilized for the Site investigations are described in the following sections. The Site Vicinity Map is provided as Figure 1, and the Site Plan is included as Figure 2.

All samples collected at the Site in 2025 are presented in the sample and analysis summary in Table 1, and the sample locations are presented in Figure 3.

2.1 Pre-Remediation Sampling Activities

Fehr Graham mobilized to the Site on April 7 and 8, 2025, with the contracted environmental drilling company, Earth Solutions, Inc. of St. Charles, Illinois (Earth Solutions). Public utility locating services were completed prior to drilling activities. Earth Solutions advanced the soil borings using a track-mounted hydraulic GeoProbe® Model 7822DT. In each soil boring location, the sampler was advanced in intervals of 2.5 to 5 feet using a direct-push hammer attached to the probe. Continuous soil cores were collected during the soil boring advancement using Macro-Core® technology.

Sample cores were classified by a staff geologist and field-screened using a calibrated photoionization detector (PID). The PID readings and visual and olfactory observations were recorded on field forms and used to determine the soil sample intervals for laboratory analysis. Soil boring logs documenting the soil descriptions and PID measurements are included in Appendix A.

The 2025 investigation consisted of 26 soil borings (SB-12RR, SB-24R, SB-31R, SB-34R; SB-39 through SB-60) advanced to a maximum depth of 10 feet bgs to further characterize previously identified impacts.

- » Four (4) re-drill soil borings were advanced for chromium leachability evaluation (SB-12RR, SB-24R, SB-31R, and SB-34R). These locations were selected to re-evaluate sample locations that previously contained total chromium concentrations exceeding the pH-specific soil component-to-groundwater ingestion exposure route and had a calculated potential to migrate to surface water exceeding the derived water quality criteria. One (1) soil sample was collected from each of these borings from the same depth as historical samples for analysis of total chromium, SPLP chromium, and pH.
- » Twenty-two (22) soil borings were advanced for TPH delineation. Samples for TPH delineation included up to two (2) samples from each soil boring, collected from the depths exhibiting the greatest evidence of contamination (i.e., elevated PID readings, odor, staining) or depth

consistent with previously identified TPH impacts. TPH delineation samples were analyzed for Gasoline Range Organics (GRO; C06-C10), Diesel Range Organics (DRO; C10-C28), and Oil Range Organics (ORO; C28-C36).

- » Four (4) of the TPH delineation soil boring locations (SB-40, SB-41, SB-42, and SB-43) were additionally selected for delineation of lead impacts at SB-12 (2-4.5). One (1) sample was collected from each of the lead delineation locations from a depth of 2-3 feet below ground surface (bgs) for laboratory analysis of total lead and pH. Supplemental TCLP analysis was completed on samples containing elevated concentrations of total lead.

The staff geologist utilized new nitrile gloves for each soil sample and decontaminated reusable logging and/or sampling equipment between samples using Alconox® cleaning detergent and deionized water rinse. Soil samples were collected in laboratory-provided containers and stored on wet ice for transport to the laboratory under standard chain-of-custody procedures. Soil samples were submitted to Pace Analytical Services, LLC of Green Bay, Wisconsin, an NELAP-accredited environmental laboratory, for analysis of one or more of the following analytical suites:

- » Total Lead via US EPA Method 6020
- » TCLP Lead via US EPA Methods 1311/6010
- » Total Chromium via US EPA Method 6020
- » SPLP Chromium via US EPA Methods 1312/6010
- » pH via US EPA Method 9045
- » TPH via US EPA Method 8015

One additional (1) soil boring, TRSB-01, was advanced within the area of TPH impacts to facilitate collection of a bulk soil sample for laboratory treatability testing. The bulk soil sample was collected from a depth of 1.5 to 3.5 feet bgs and submitted to ReSolutions Partners, LLC of Madison, Wisconsin for TPH treatability evaluation.

2.2 Pre-Remediation Sampling Results

Soil analytical results were compared to *TACO* Tier 1 SROs for residential and construction worker receptors and Class I groundwater, as established in *TACO* Appendix B, and Tables A, B, and C, or the applicable default or Site-specific soil attenuation capacity.

Tabulated summaries of soil analytical results are presented in Table 2a (TPH) and Table 2b (Inorganics, pH, and SPLP/TCLP Methods). A summary of all exposure route exceedances identified at the Site is presented in Table 3. The laboratory analytical reports are included in Appendix B. Further discussion of the sample results is provided below.

2.2.1 Chromium Leachability Evaluation

Chromium was detected in soil above the pH-specific Tier 1 SROs for the soil component to groundwater ingestion exposure route in three (3) of the re-sample locations; however, the results of the SPLP analysis demonstrate the soil component to groundwater ingestion exposure route for chromium is not exceeded in any of the analyzed samples. Therefore, no further evaluation relative to the soil component to groundwater ingestion exposure route is necessary for chromium.

2.2.2 Lead Delineation

Four (4) samples were collected to delineate the concentration of total lead at SB-12 (2-4.5'). One (1) sample location, SB-41 (2-3')/DUP-PB, contained lead exceeding Tier 1 SROs. The total lead concentration of 1,370 mg/kg and TCLP lead concentration of 0.32 mg/L exceed the soil component to groundwater ingestion SROs (107 mg/kg total lead, pH-specific; and/or 0.0075 mg/L TCLP lead), the residential ingestion SRO (400 mg/kg) and the construction worker ingestion SRO (700 mg/kg). The TCLP lead concentration is below the RCRA toxicity characteristic threshold of 5.0 mg/L.

The results for total lead were below Tier 1 SROs for samples collected from SB-40 (2-3'), SB-42 (2-3') and SB-43 (2-3'), demonstrating delineation to the north, east, and west. Delineation of lead impacts to the south of SB-12A (2-4.5') and SB-41 (2-3') is achieved by historical sample location SB-23 (1.5-2.5). The lead delineation sample results are depicted in Figure 4.

2.2.3 TPH Delineation

TPH is used as an indicator of petroleum contamination but does not have exposure route SROs listed in *TACO*. In accordance with *TACO* Section 742.215, TPH is evaluated relative to the soil attenuation capacity, which may be default values listed in *TACO* or Site-specific values determined based on the fraction of organic carbon. For this evaluation, TPH concentrations have been compared to the default soil attenuation capacity for surface soils (6,000 mg/kg) and the Site-specific soil attenuation capacity for soils below one meter (15,500 mg/kg), as presented in the *CSIR/ROR/RAP*.

TPH concentrations ranging from 15,520 mg/kg to 27,870 mg/kg were identified in eight (8) samples collected from the upper meter, exceeding the applicable soil attenuation capacity of 6,000 mg/kg. In addition, TPH concentrations of 15,503 mg/kg and 18,770 mg/kg were identified in two (2) samples collected from depths below one (1) meter bgs, exceeding the applicable soil attenuation capacity of 15,500 mg/kg. The locations of soil samples containing TPH exceeding the soil attenuation capacity are depicted in Figure 5.

The TPH impacts are located in the vicinity of the historical oil house as depicted on Sanborn Fire Insurance Maps (1939, 1950) and have been better defined by the results of the pre-remediation investigation. The area of TPH impact is delineated to the south by SB-51 and SB-52, to the west by SB-59, to the east by SB-57, and to the north by SB-39 and SB-40. None of the down-gradient monitoring wells exhibited free phase or dissolved petroleum impacts.

2.2.4 Quality Assurance

Quality Assurance and Quality Control (QA/QC) was completed to ensure that the environmental data collected during this project is of the highest standard feasible, as appropriate for the intended application. The QA/QC for this project consisted of procedures for field sampling, chain-of-custody, laboratory analysis, and reporting in accordance with standard Site remediation protocol.

Samples were collected in accordance with industry-standard operating procedures and regulatory guidance, as applicable. Sample-handling procedures included field documentation, chain-of-custody documentation, sample shipment, and laboratory sample tracking.

QA/QC samples for the 2025 investigation included trip blanks, matrix spike/matrix duplicates (MS/MSDs), and field duplicates. Trip blanks were shipped with Site samples to evaluate if volatile constituents were introduced during sample shipping and handling, and MS/MSD and field duplicate samples were collected to evaluate laboratory precision.

Analytical results for QA/QC samples identified no detections of COCs in the trip blanks. The average relative percent difference for field duplicate samples was 26.2%, an acceptable value given the heterogeneity of soil. The QA/QC sample results demonstrate the reliability of laboratory data.

The laboratory is responsible for ensuring that the laboratory's data precision and accuracy are maintained in accordance with specifications. Internal laboratory duplicates and calibration checks are performed on one (1) of every 20 samples submitted for analysis. Other internal laboratory QA/QC is performed according to laboratory standard operating procedures.

2.3 TPH Treatability Evaluation

The proposed remediation strategy for TPH as presented in the *CSIR/ROR/RAP* (Fehr Graham, January 20, 2022) was in situ chemical oxidation (ISCO). The purpose of the treatability evaluation was to determine the appropriate dosage of the oxidant for effective treatment, prior to field implementation. ReSolution Partners, LLC completed the bench-scale treatability evaluation using three (3) dosage rates of the proposed oxidant (1.25 wt%, 2.5 wt%, and 3.75 wt%) and found that the treatment was ineffective in reducing TPH concentrations below the soil attenuation capacity remediation objectives. The results of the treatability study are presented in Table 2-1.

Table 2-1
Treatability Evaluation Results

Sample ID	Reagent	TPH (mg/kg)			
	wt %	GRO	DRO	ORO	RRO
		C06-C10	C10-C28	C20-C35	C25-C36
Baseline	--	1,310	11,500	27,200	21,200
TS1-SO-POX-1.25	1.25	303	9,210	23,600	18,200
TS1-SO-POX-2.5	2.50	618	5,850	15,400	12,200
TS1-SO-POX-3.75	3.75	525	9,450	25,200	19,500

3.0 Remedial Technology Selection

Exposure route exceedances represent a threat to human health and the environment that will be mitigated through the selected remedial strategy, which includes soil excavation and reliance on institutional controls to eliminate exposure routes. Implementation of the selected controls will be a requirement of an NFR letter and would be included with the property deed for the Site. A summary of the remedial technology selected to mitigate the TPH source area and each applicable exposure route is presented in *Table 3-1*.

Table 3-1
Remedial Strategy Summary

Free Product/Source Area		Mitigation Strategy
TPH Source Area		Excavation and off-Site Disposal
Receptor	Exposure Route	Mitigation Strategy
Residential & Industrial/Commercial	Soil Ingestion	Engineered Barriers
	Outdoor Inhalation	N/A
	Indoor Inhalation	Concrete slab or basement with no unsealed sumps
Construction Worker	Soil Ingestion	Construction Worker Notification
	Outdoor Inhalation	Construction Worker Notification
Class I Groundwater	Groundwater Ingestion	Groundwater Use Restriction

The original *CSIR/ROR/RAP* proposed in situ treatment of TPH impacts; however, the remediation approach has been revised due to unfavorable results of bench-scale treatability testing in the laboratory. Excavation and off-Site disposal has been selected as the remedial technology in lieu of the in situ treatment.

4.0 Remedial Excavations

Limited soil excavation will be completed to remove soils containing TPH above the soil attenuation capacity and the co-located elevated lead impacts. All excavated materials will be transported off-site for disposal at a permitted landfill facility.

Proposed excavation extents have been approximated based on the delineation sampling completed during the 2025 Site investigation. However, excavations may extend further until confirmation samples demonstrate objectives are achieved, in accordance with the confirmation sampling plan in Section 5.2. The proposed remedial excavation extents and associated COCs are summarized in *Table 4-1* and depicted in Figure 6.

Table 4-1
Proposed Excavation Areas and COCs

Excavation Area Label	Proposed Excavation Area (Sq. ft)	Excavation Depth (ft)	Soil Sample Location	COCs
Excavation 1S	2,412	5	SB-12, SB-23, SB-41, SB-44, SB-45, SB-47, SB-48, SB-50, SB-53	Lead TPH
Excavation 1D	909	9*	SB-46, SB-49	TPH

*Excavation 1D reflects a deeper portion of excavation located within the footprint of Excavation 1S, which will be excavated to 5 feet bgs. Excavation 1D will require an additional 4 feet of excavation for a total depth of 9 feet bgs.

Excavation areas will be backfilled with clean imported soil or virgin quarry materials. If soil is used as backfill, the borrow source will be sampled for Target Compound List (TCL) parameters at a rate of one (1) per 500 cubic yards. Virgin quarry materials will not be sampled, but documentation of the quarry source will be provided.

5.0 Confirmation Sampling

Excavation confirmation samples will be collected from the excavation sidewalls and floors in each excavation area to demonstrate effective removal of COCs in soil. The proposed confirmation sampling strategy and analytical parameters for the shallow and deep excavation areas, along with the existing investigation results that will be relied upon in lieu of additional confirmation samples, are detailed in the following sections. Confirmation samples may be collected from soil borings advanced during a pre-excavation sampling event and/or from the open excavation during remediation activities.

Confirmation samples will be labeled with a prefix denoting the excavation area (e.g., EX1S) and a two-digit numerical suffix (e.g., -01) followed by the sample depth interval. For example, a sample collected from 1-3 feet bgs in Excavation 1 may be labeled "EX1S-01 (1-3)".

5.1 Excavation 1S Confirmation Samples

Excavation 1S will be advanced for removal of shallow TPH impacts in soil from 1.5 to 3.5 feet bgs and the limited area of lead impacts in soil at SB-12 (2-4.5') and SB-41 (2-3'). The confirmation sampling strategy for each COC is described below.

5.1.1 Lead

The area of lead impacts is fully delineated vertically and laterally within the excavation area, as indicated by the sample result summarized in *Table 5-1*.

Table 5-1
Lead Delineation Samples

Sample ID	Lead Result (mg/kg)
SB-12RR (5-7.5')	8.67
SB-40 (2-3')	16.2
SB-42 (2-3')	20.9
SB-43 (2-3')	76.8
SB-23 (1.5-2.5')	45.4
SB-23 (5.5-6.5)	21.1

The existing lead delineation data will be relied upon as confirmation samples to demonstrate that Excavation 1S effectively removes the lead impacts identified at SB-12 and SB-41. Therefore, no additional excavation confirmation samples will be collected for lead.

5.1.2 TPH

The TPH excavation area is delineated by Site investigation samples, but additional confirmation samples will be collected in areas where investigation samples are not available at the appropriate locations and/or frequency to define the excavation perimeter. The following existing samples may be relied upon for Excavation 1S confirmation samples:

Table 5-2
Investigation Samples Used as Excavation Confirmation Samples - Shallow TPH

Sample ID	TPH Result (mg/kg)
SB-39 (2-3')	1,932.6
SB-40 (1.5-2.5')	542
SB-43 (1.5-2.5')	2,030.1
SB-51 (1.5-2.5')	531
SB-52 (1.5-2.5')	2,069.7
SB-57 (2-3')	890.5
SB-59 (1.5-2.5')	227

Additional confirmation samples will be collected to achieve a frequency of one (1) sample per 20 linear feet of excavation sidewall and one (1) sample per 400 square feet of excavation floor. Based on the layout of existing data and the proposed excavation dimensions, nine (9) additional sidewall confirmation samples and eight (8) floor samples are anticipated to verify objectives are achieved at the perimeters of Excavation 1S. The approximate locations of proposed additional confirmation samples are depicted in Figure 6.

Sidewall excavation confirmation samples for Excavation 1S will be collected from approximately 1 to 3 feet bgs, consistent with the depth of the shallow TPH impacts. Floor samples will be collected from the bottom of the excavation, which is anticipated to be approximately 5 to 5.5 feet bgs. Confirmation soil samples will be laboratory analyzed for TPH – GRO (C06-C10), DRO (C10-C28), and ORO (C28-C36) via US EPA Method 8015, and results will be compared to the applicable soil attenuation capacities for the Site (6,000 mg/kg for sidewall samples and 15,500 mg/kg for floor samples). Confirmation sample results which exceed the TPH soil attenuation capacity will prompt further excavation and confirmation sampling.

5.2 Excavation 1D Confirmation Samples

Excavation 1D will be advanced for removal of deeper TPH impacts in soil from 6 to 8 feet bgs within a limited portion of the footprint of Excavation 1S. Site investigation samples will be relied upon as the boundary confirmation samples, where analytical data demonstrates the objective is achieved. The following existing samples may be relied upon for Excavation 1D confirmation samples:

Table 5-3
Investigation Samples Used as Excavation Confirmation Samples – Deep TPH

Sample ID	TPH Result (mg/kg)
SB-23 (5.5-6.5')	4,235
SB-44 (6.5-7.5')	13,170
SB-45 (5.5-6.5')	11,490
SB-47 (7-8')	10,400
SB-48 (6-7')	7,890
SB-51 (6-7')	7,430

Additional confirmation samples will be collected to achieve a frequency of one (1) sample per 20 linear feet of excavation sidewall and one (1) sample per 400 square feet of excavation floor. Based on the number and layout of existing data and the proposed excavation dimensions, two (2) additional sidewall confirmation samples and three (3) floor samples are anticipated to verify objectives are achieved at the perimeters of Excavation 1D. The approximate locations of proposed additional confirmation samples are depicted in Figure 6.

Sidewall confirmation samples for Excavation 1D will be collected from approximately 6 to 8 feet bgs, consistent with the depth of the deep TPH impacts. Floor samples will be collected from the bottom of the excavation, which is anticipated to be approximately 9 to 9.5 feet bgs. Confirmation soil samples will be laboratory analyzed for TPH - GRO (C06-C10), DRO (C10-C28), and ORO (C28-C36) via US EPA Method 8015, and results will be compared to the Site-specific soil attenuation capacity (15,500 mg/kg). Confirmation sample results which exceed the TPH soil attenuation capacity will prompt further excavation and confirmation sampling.

6.0 Special Conditions

6.1 Engineered Barriers

Mitigation of the soil ingestion exposure route exceedances will be accomplished through the installation and maintenance of engineered barriers meeting the specifications of *TACO*, Subpart K or an alternative barrier, if approved by the Illinois EPA under Tier 3 evaluation. The proposed extents of the engineered barrier areas are depicted in Figure 7. The specific layout and types of engineered barriers will be determined based on the redevelopment plans, which have not yet been finalized but are anticipated to include asphalt-paved parking lots, concrete sidewalks, and green space with a constructed alternative engineered barrier. Another *Amended Remedial Action Plan* will be submitted for Illinois EPA review and approval once the specific engineered barrier types and layout have been determined.

6.2 Construction Worker Notification

Mitigation of the construction worker ingestion and inhalation exposure routes will be accomplished through a construction worker notification and safety plan requirement. The construction worker notification requirement is established as a preventive control for intrusive work conducted in areas containing soil impacts exceeding the construction worker ingestion or inhalation exposure routes. Given the distribution of mercury concentrations exceeding the construction worker inhalation SRO, the construction worker notification will apply to the entire Site. This institutional control requires notification of impacts to excavation workers prior to work within the contaminated soil area, and implementation of a safety plan consistent with federal, state, and local regulations and guidance.

6.3 Groundwater Use Restriction

An institutional control will be utilized to prevent potential groundwater ingestion exposure resulting from the concentrations of COCs in groundwater. The groundwater use restriction will prohibit the installation and use of potable water wells on the Site.

6.4 Building Construction Control

The Tier 1 ROs for the indoor inhalation exposure route have been established based on attenuation of vapor impacts through a concrete slab. As such, the ROs are considered valid only in the case that all existing and future buildings have a full concrete slab-on-grade or full concrete basement floor and walls, with no unsealed sumps. To maintain exclusion of the indoor inhalation exposure route, an institutional control will be established to ensure that all future building construction is consistent with the assumptions of the Tier 1 ROs.

7.0 CONCLUSION

The Site has been enrolled in the SRP in pursuit of a comprehensive NFR for target compound list parameters resulting from historical manufacturing operations and railroad spurs. Investigations completed at the Site in 2020 and 2021 characterized the Site with respect to the comprehensive TCL COCs, as documented in the *CSIR/ROR/RAP*. The Tier 1 and Tier 2 evaluations indicate the following exposure route exceedances at the Site:

- » The residential ingestion exposure route is exceeded by several PNAs, arsenic, manganese and/or lead in 26 soil boring locations. PNA impacts are ubiquitous in shallow soils at the Site.
- » The construction worker ingestion exposure route is exceeded by benzo(a)pyrene, lead, and/or arsenic in 3 soil boring locations.
- » The construction worker inhalation exposure route is exceeded by mercury in 17 soil boring locations.

In addition, TPH concentrations exceed the soil attenuation capacity in the vicinity of the historical oil house.

A pre-remediation investigation was completed in 2025 to further evaluate chromium leachability, delineate lead and TPH remediation areas, and collect a bulk sample for TPH treatability studies. The TPH treatability evaluation was intended to determine the appropriate dosage of the proposed ISCO reagent for remediation; however, the results demonstrated that the proposed treatment method was not effective at the dosage rates evaluated. Therefore, the remediation strategy has been amended from ISCO to soil excavation.

The remedial strategy for the TPH source area consists of excavating soils impacted by TPH above the applicable (depth-specific) soil attenuation capacities. Effective removal will be determined by confirmation samples to demonstrate TPH source material has been remediated. This excavation will concurrently remove collocated lead impacts, which have been fully defined within the proposed excavation area.

Following remediation of the TPH source area, the remaining impacts at the Site will be mitigated by engineered barriers and institutional controls. The proposed controls include engineered barriers for the soil ingestion exposure route; a construction worker notification requirement for the construction worker ingestion and inhalation exposure routes; an on-Site groundwater use restriction for the groundwater ingestion exposure route; and a slab-on-grade/full concrete basement floor and walls construction requirement for the indoor inhalation exposure route.

The proposed TPH source area excavation will be completed in the late summer or early fall 2026, pending Illinois EPA approval of the *Amended RAP*. Once redevelopment plans have been finalized, another *Amended Remedial Action Plan* will be submitted to document the specific types and layout of engineered barriers. Installation of engineered barriers will be completed following Illinois EPA approval of the engineered barrier plan and in conjunction with Site redevelopment. Upon completion of remediation activities and barrier installation, a *Remedial Action Completion Report* will be submitted to document effective mitigation of all potential COCs in soil and groundwater at the Site.

8.0 REFERENCES

Brownfield Environmental Engineering, 2020, Phase I Environmental Site Assessment: Proposed Stadium Parking Lot Redevelopment Site, 126 Shirland Avenue, South Beloit, Illinois 61080.

Fehr Graham, 2017, Phase I Environmental Site Assessment: Shirland Avenue Properties, 126 Shirland Avenue, South Beloit, Illinois 61080.

Fehr Graham, 2022, *Comprehensive Site Investigation Report, Remedial Objectives Report, and Remedial Action Plan*: CSB Shirland Avenue Property, 126 Shirland Avenue, South Beloit, Illinois 61080.

Fehr Graham, 2023, Response to Comments on the *Comprehensive Site Investigation Report, Remedial Objectives Report, and Remedial Action Plan*: PRS International, 2010450028.

Fehr Graham, 2024, Phase I Environmental Site Assessment: Union Pacific Right-of-Way at Shirland Avenue, South Beloit, Illinois 61080.

Illinois Administrative Code, Title 35. Part 620: *Groundwater Quality*. Amended October 7, 2013.

Illinois Administrative Code, Title 35. Part 740: *Site Remediation Program*. Amended February 17, 2004.

Illinois Administrative Code, Title 35. Part 742: *Tiered Approach to Corrective Action Objectives*. Amended July 15, 2013.

V3 Companies, 2012, *Comprehensive Site Investigation, Remediation Objectives Report and Remedial Action Plan*: PRS International (CSB Shirland Avenue Site), 126 Shirland Avenue, South Beloit, Winnebago County, Illinois, IEPA LPC #2010450028.

O: South Beloit, City of\24-1907 - Shirland Avenue Amendments\PA Final\24-1907 - Shirland Ave 2026-06-04 Amended RAP.docx

FIGURES

Figure 1

Site Vicinity Map

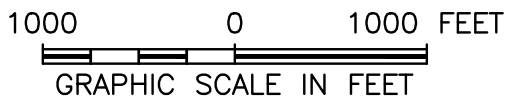
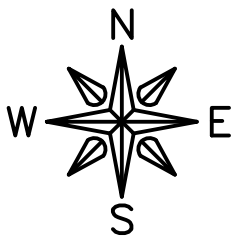
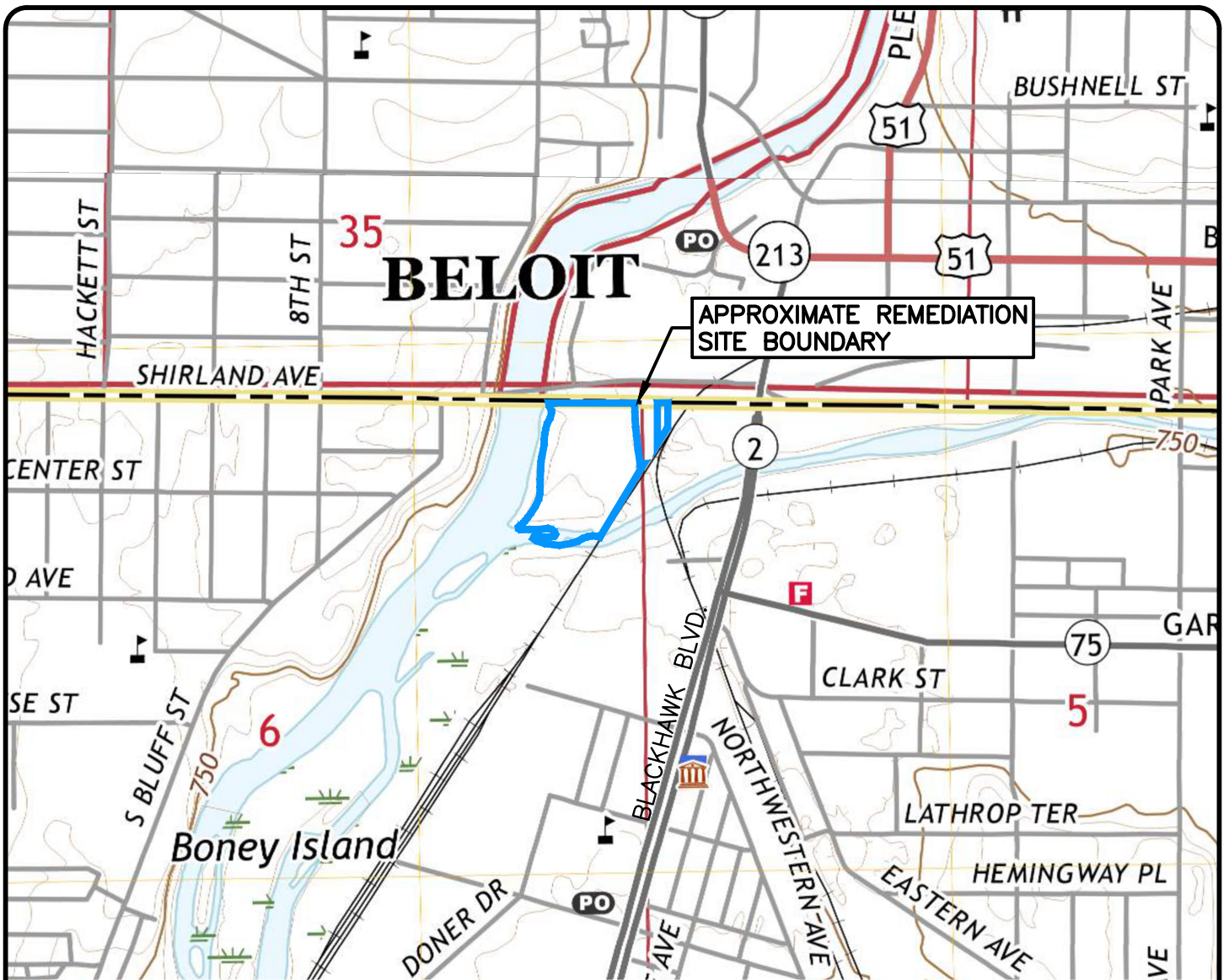


FIGURE 1
 SITE VICINITY MAP
 CITY OF SOUTH BELOIT
 126 SHIRLAND AVE.
 SOUTH BELOIT, IL 61080

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Figure 2

Site Plan

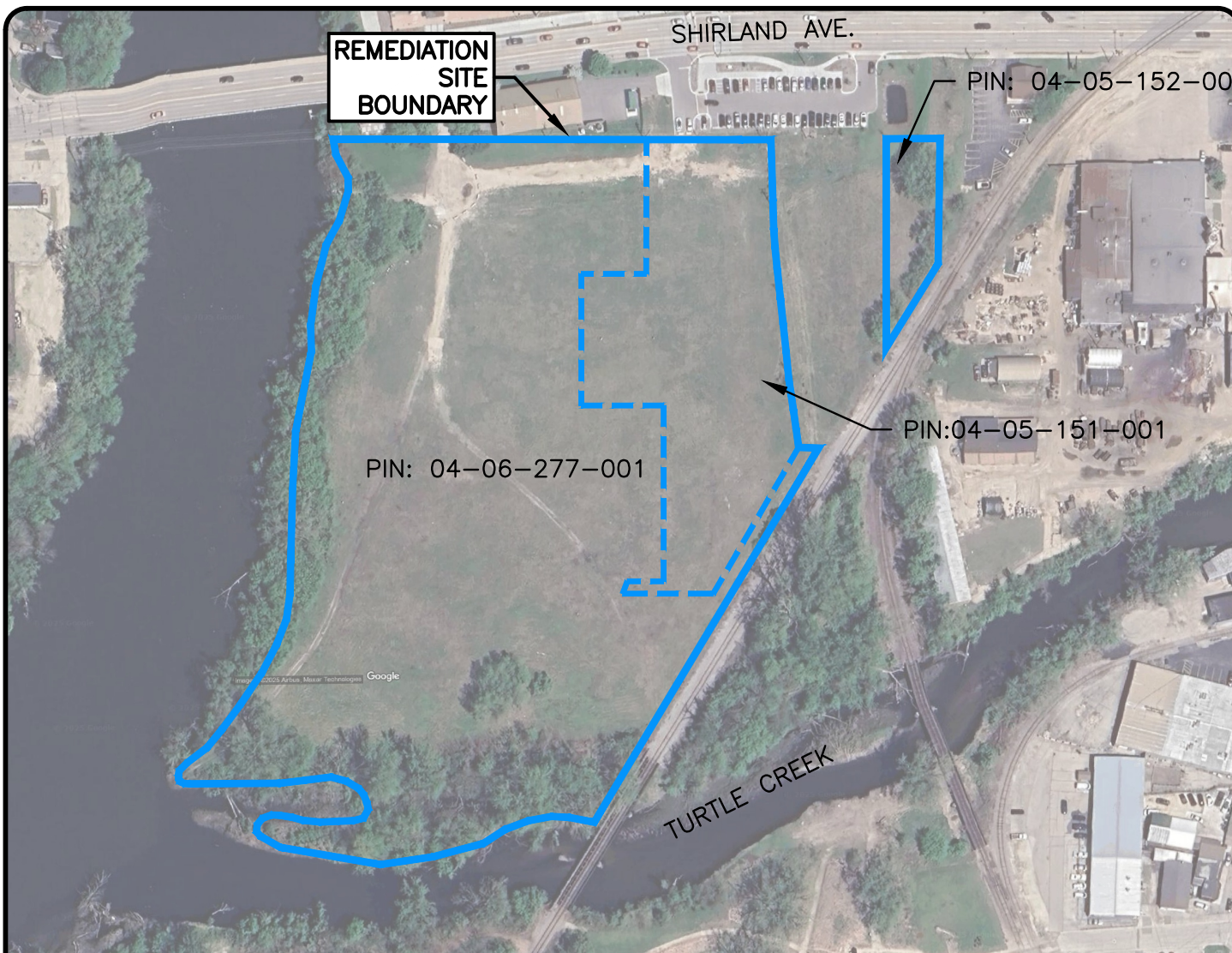
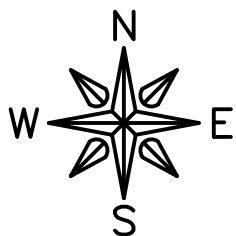


FIGURE 2
SITE PLAN
 CITY OF SOUTH BELOIT
 126 SHIRLAND AVE.
 SOUTH BELOIT, IL 61080



200 0 200 FEET
 GRAPHIC SCALE IN FEET

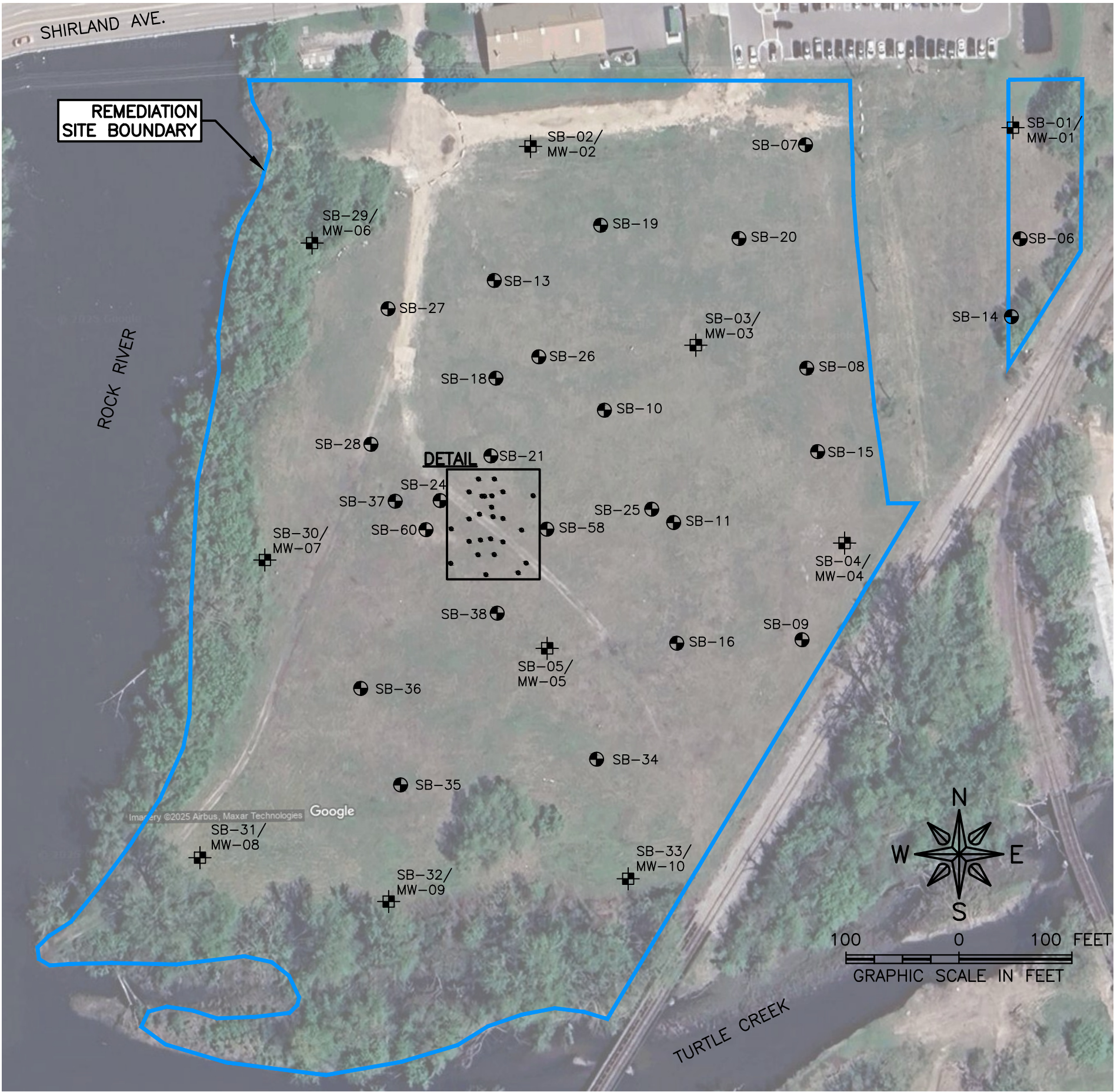
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Figure 3

Sample Location Map



LEGEND

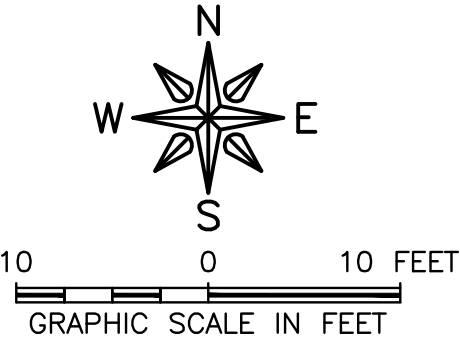
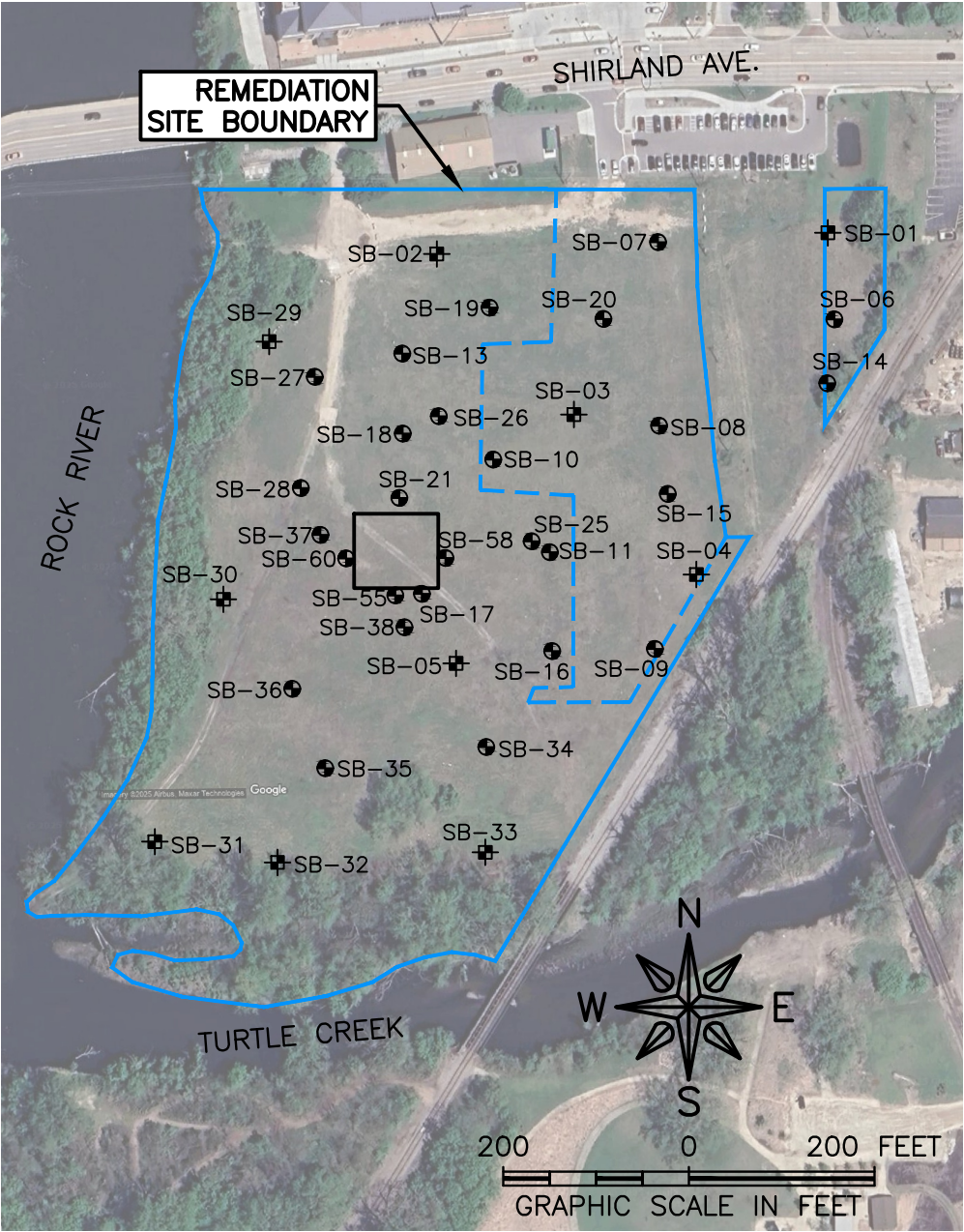
- SOIL BORING LOCATION
- SOIL BORING/MONITORING WELL LOCATION

FIGURE 3
SAMPLE LOCATION MAP
CITY OF SOUTH BELOIT
126 SHIRLAND AVE.
SOUTH BELOIT, IL 61080

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Figure 4

Tier 1 Soil Remediation Objective Exceedances – Metals



TIER I REMEDIATION OBJECTIVES

CHEMICAL	RESIDENTIAL		CONST. WORKER		SOIL COMPONENT TO GROUNDWATER - CLASS I
	INGESTION	INHALATION	INGESTION	INHALATION	
Pb LEAD	400	—	700	—	23-28 ^{pH}

pH INDICATES pH-SPECIFIC REMEDIATION OBJECTIVE
RESULTS REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg)

LEGEND

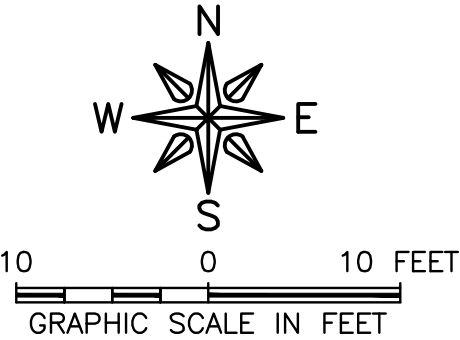
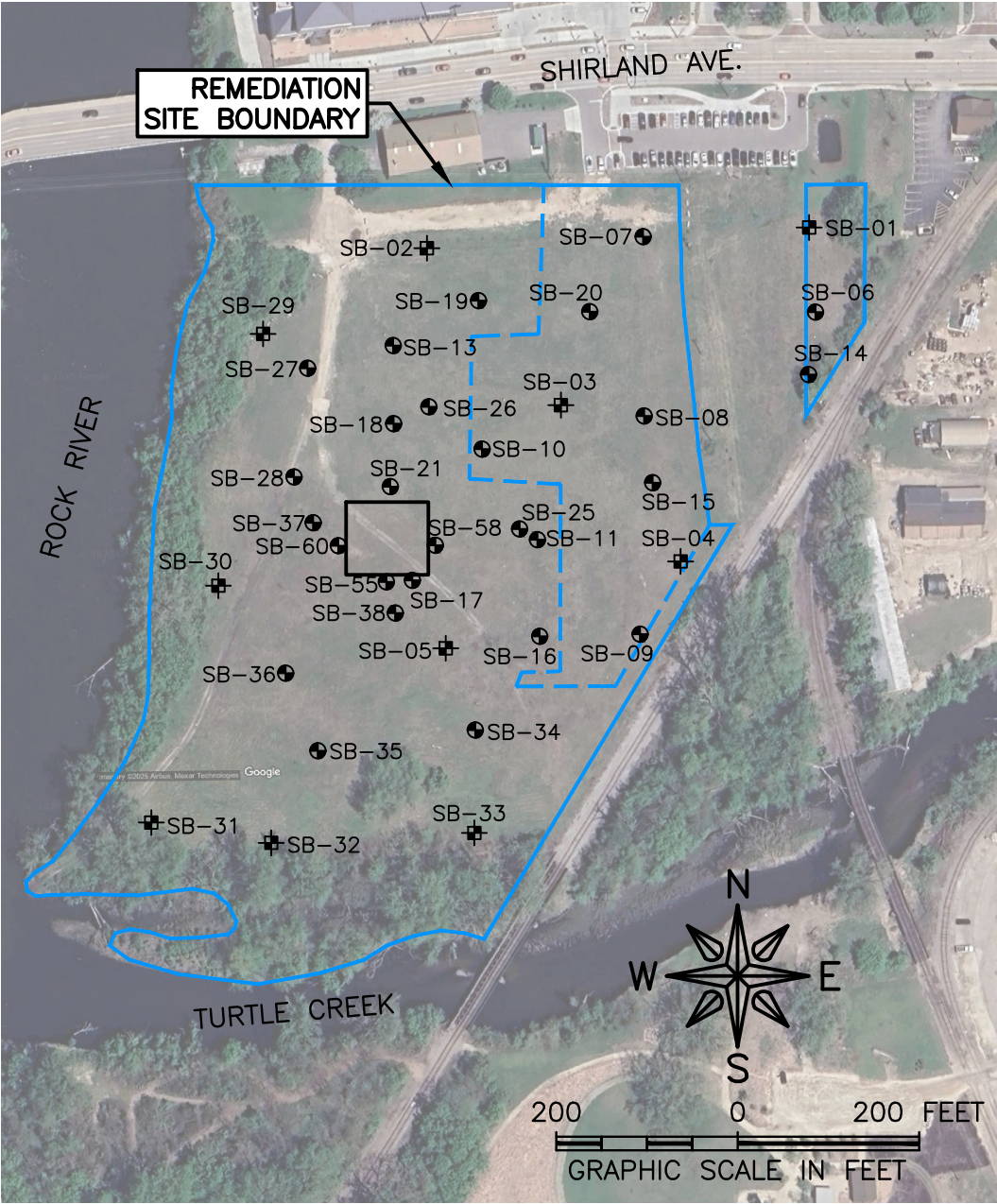
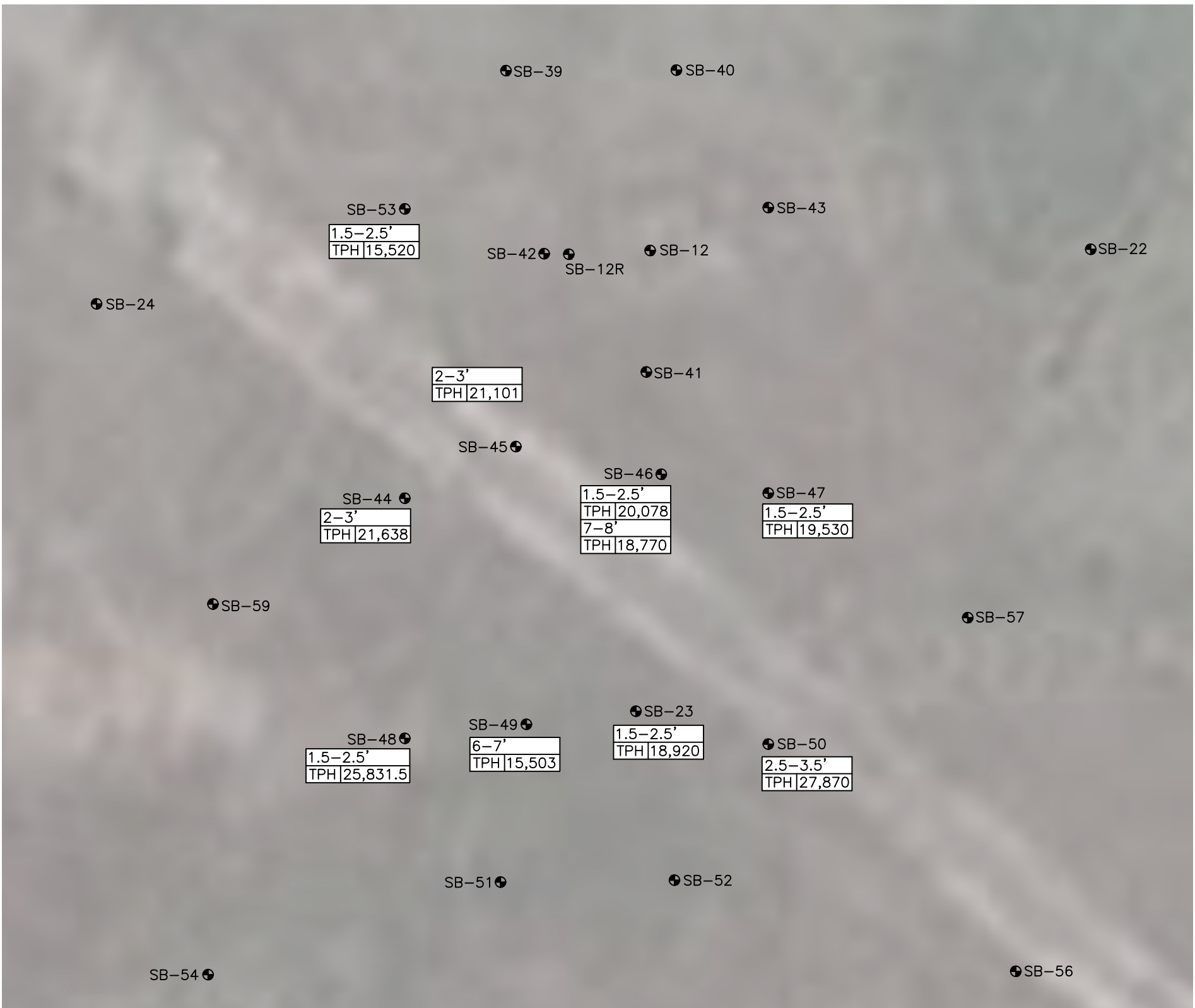
- SOIL BORING LOCATION
- SOIL BORING/TEMPORARY WELL LOCATION
- SOIL BORING/MONITORING WELL LOCATION
- EXCEEDS TIER I REMEDIATION OBJECTIVE

FIGURE 4
TIER 1 SOIL REMEDIATION
OBJECTIVE EXCEEDANCES — LEAD
CITY OF SOUTH BELOIT
126 SHIRLAND AVE.
SOUTH BELOIT, IL 61080

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Figure 5

TPH Exceeding Soil Attenuation Capacity



SOIL ATTENUATION CAPACITY

CHEMICAL	SURFACE SOILS	SUBSURFACE SOILS
	UPPER 1 METER	BELOW 1 METER
TPH TOTAL PETROLEUM HYDROCARBONS	6,000	15,500

RESULTS REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg)

LEGEND

- SOIL BORING LOCATION
- SOIL BORING/TEMPORARY WELL LOCATION
- SOIL BORING/MONITORING WELL LOCATION

FIGURE 5
TPH EXCEEDING SOIL
ATTENUATION CAPACITY
CITY OF SOUTH BELOIT
126 SHIRLAND AVE.
SOUTH BELOIT, IL 61080

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Figure 6

Proposed Excavation Area



SOIL ATTENUATION CAPACITY

CHEMICAL			SURFACE SOILS	SUBSURFACE SOILS
			UPPER 1 METER	BELOW 1 METER
TPH	TOTAL	PETROLEUM HYDROCARBONS	6,000	15,500

RESULTS REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg)

LEGEND

- COMPLETED SOIL BORING LOCATION
- PROPOSED SHALLOW EXCAVATION AREA (5 FT.)
- PROPOSED DEEP EXCAVATION AREA (9 FT.)
- EXCEEDS TPH SOIL ATTENUATION CAPACITY
- PROPOSED CONFIRMATION SAMPLE LOCATION – SHALLOW (1–3 FT. BGS)
- PROPOSED CONFIRMATION SAMPLE LOCATION – DEEP (6–8 FT. BGS)

FIGURE 6
PROPOSED EXCAVATION AREA
CITY OF SOUTH BELOIT
126 SHIRLAND AVE.
SOUTH BELOIT, IL 61080

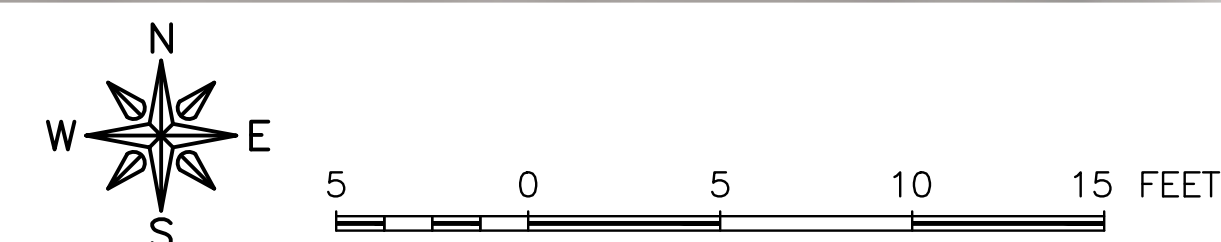
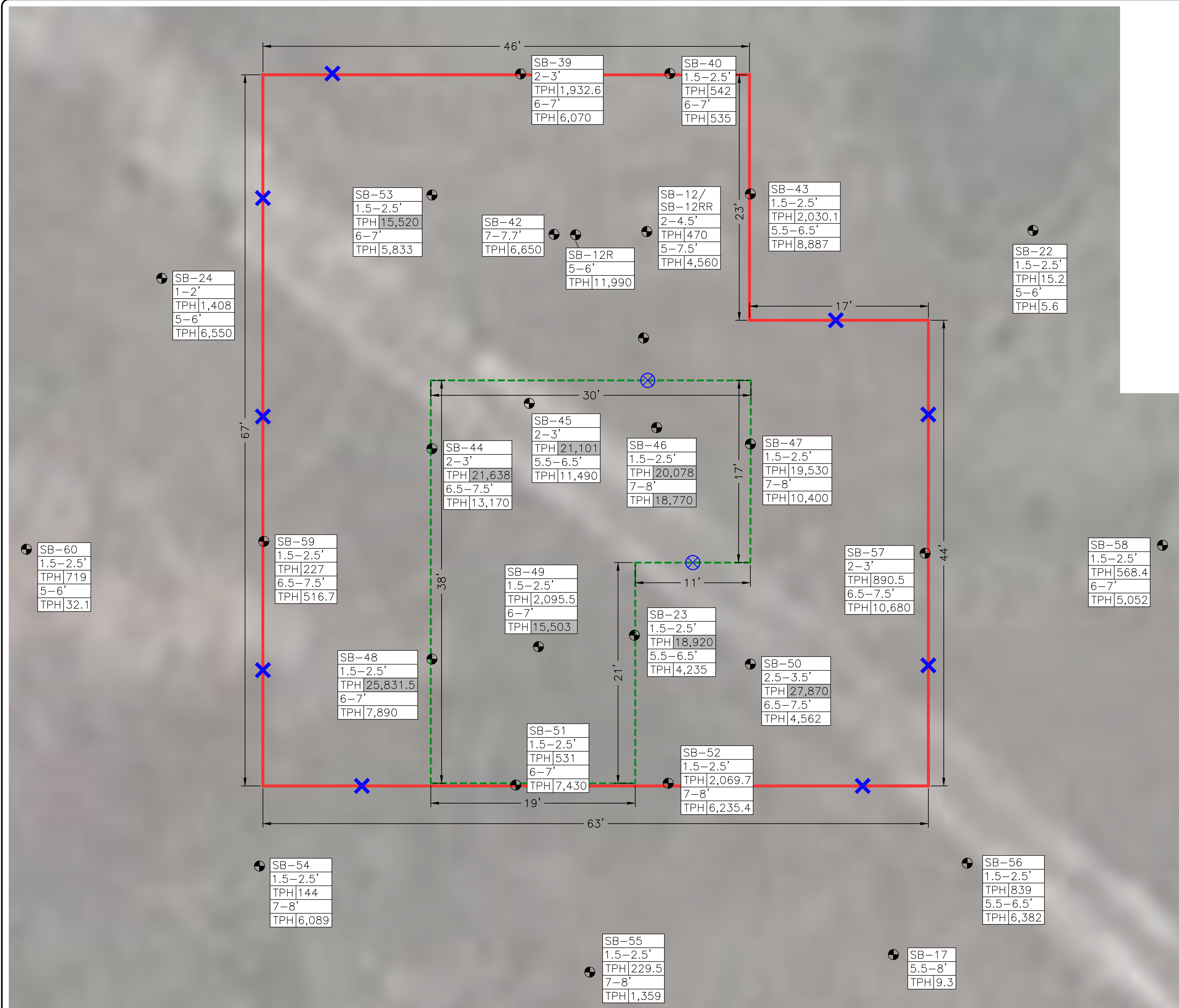
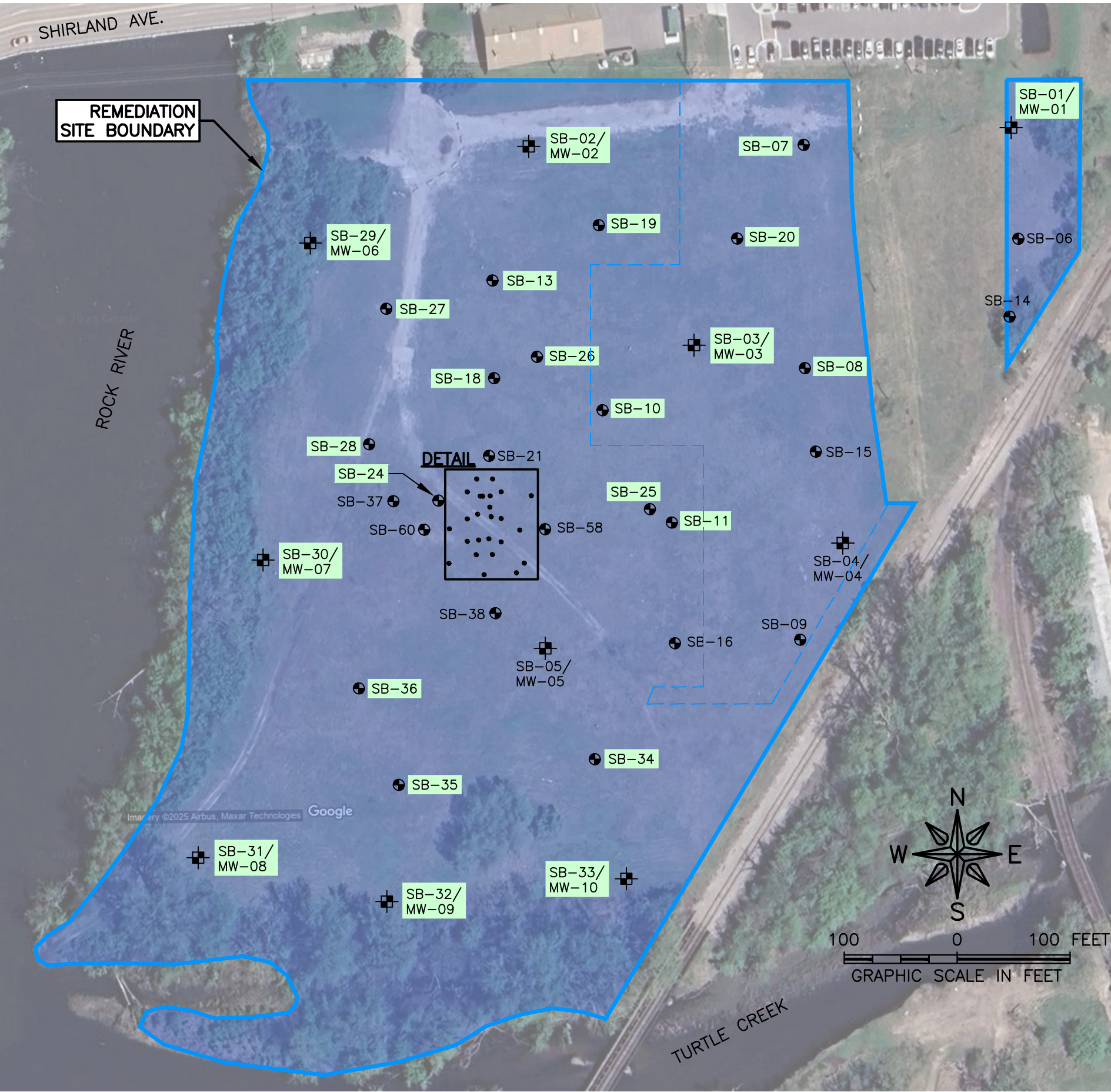


Figure 7
Engineered Barrier Map



LEGEND

- SOIL BORING LOCATION
- ⊕ SOIL BORING/MONITORING WELL LOCATION

- SAMPLE EXCEEDS SOIL INGESTION AND/OR OUTDOOR INHALATION EXPOSURE ROUTE
- PROPOSED ENGINEERED AREA*

* SPECIFIC ENGINEERED BARRIER TYPES AND LAYOUT TO BE DETERMINED IN CONJUNCTION WITH REDEVELOPMENT PLANS AND PROPOSED IN AN AMENDED REMEDIAL ACTION PLAN

FIGURE 7
ENGINEERED BARRIER MAP
CITY OF SOUTH BELOIT
126 SHIRLAND AVE.
SOUTH BELOIT, IL 61080



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TABLES

Table 1

Sample Analysis Summary

Sample Location	Depth (ft bgs)	Date	Media	TCLP/SPLP Metals*	Chromium	Lead	Arsenic	Pesticides	PCBs	pH	TPH	Waste Characterization	Treatability
Fehr Graham Phase II ESA (2025)													
TRSB-01	1.5-3.5	4/7/2025	Soil										X
WC-01	2-3	4/7/2025	Soil									X	
SB-12RR	2-3	4/7/2025	Soil	X	X					X			
SB-24R	1-2	4/7/2025	Soil	X	X					X			
SB-31R & DUP-CR	1-2	4/7/2025	Soil	X	X					X			
SB-34R	1-2	4/7/2025	Soil	X	X					X			
SB-39	2-3	4/7/2025	Soil								X		
SB-39	6-7	4/7/2025	Soil								X		
SB-40	1.5-2.5	4/7/2025	Soil								X		
SB-40	2-3	4/7/2025	Soil			X				X			
SB-40	6-7	4/7/2025	Soil								X		
SB-41 & DUP-PB	2-3	4/7/2025	Soil	X		X				X			
SB-42	7-7.7	4/7/2025	Soil								X		
SB-42	2-3	4/7/2025	Soil			X				X			
SB-43	1.5-2.5	4/7/2025	Soil								X		
SB-43	2-3	4/7/2025	Soil			X				X			
SB-43	5.5-6.5	4/7/2025	Soil								X		
SB-44	2-3	4/7/2025	Soil								X		
SB-44	6.5-7.5	4/7/2025	Soil								X		
SB-45	2-3	4/7/2025	Soil								X		
SB-45	5.5-6.5	4/7/2025	Soil								X		
SB-46	1.5-2.5	4/7/2025	Soil								X		
SB-46	7-8	4/7/2025	Soil								X		
SB-47	1.5-2.5	4/7/2025	Soil								X		
SB-47	7-8	4/7/2025	Soil								X		
SB-48	1.5-2.5	4/8/2025	Soil								X		
SB-48	6-7	4/8/2025	Soil								X		
SB-49	1.5-2.5	4/8/2025	Soil								X		
SB-49	6-7	4/8/2025	Soil								X		
SB-50	2.5-3.5	4/8/2025	Soil								X		
SB-50	6.5-7.5	4/8/2025	Soil								X		
SB-51	1.5-2.5	4/8/2025	Soil								X		
SB-51	6-7	4/8/2025	Soil								X		
SB-52	1.5-2.5	4/8/2025	Soil								X		
SB-52	7-8	4/8/2025	Soil								X		
SB-53	1.5-2.5	4/7/2025	Soil								X		
SB-53	6-7	4/7/2025	Soil								X		
SB-54	1.5-2.5	4/8/2025	Soil								X		
SB-54	7-8	4/8/2025	Soil								X		
SB-55	1.5-2.5	4/8/2025	Soil								X		
SB-55	7-8	4/8/2025	Soil								X		
SB-56 & DUP-TPH	1.5-2.5	4/8/2025	Soil								X		
SB-56	5.5-6.5	4/8/2025	Soil								X		
SB-57	2-3	4/8/2025	Soil								X		
SB-57	6.5-7.5	4/8/2025	Soil								X		
SB-58	1.5-2.5	4/8/2025	Soil								X		
SB-58	6-7	4/8/2025	Soil								X		
SB-59	1.5-2.5	4/7/2025	Soil								X		
SB-59	6.5-7.5	4/7/2025	Soil								X		
SB-60	1.5-2.5	4/7/2025	Soil								X		
SB-60	5-6	4/7/2025	Soil								X		

* Toxicity characteristic leaching procedure (TCLP) or Synthetic Precipitate leaching procedure (SPLP) completed for one or more metals.
Refer to sample results tables for specific metal(s) analyzed.

Table 2

Soil Analytical Results

Table 2a – Total Petroleum Hydrocarbons

Table 2b – Inorganics, pH, and SPLP/TCLP Methods

	Analytical Parameter	Soil Attenuation Capacity		40293261018		40293261019		40293261020		40293261004		40293261001		40293261002		40293408003		40293408004		40293408005	
		Default	Site-Specific	SB-39(2-3)		SB-39(6-7)		SB-40(1.5-2.5)		SB-46(7-8)		SB-47(1.5-2.5)		SB-47(7-8)		SB-48(1.5-2.5)		SB-48(6-7)		SB-49(1.5-2.5)	
		Upper meter	Below 1 meter	04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/08/2025		04/08/2025		04/08/2025	
TPH	TPH Gasoline Range Organics (C06-C10)	---	---		25.6		1,150	U	6.5		1,220		450		1,740		31.5		1,060		88.5
	TPH Extended Range Organics (C08-C36)	---	---		NT		NT		NT		NT		NT		NT		NT		NT		NT
	TPH Diesel Range Organics (C10-C28)	---	---		1,330		3,810		175		12,900		12,400		6,410		15,300		5,450		897
	TPH Oil Range Organics (C21-C35)	---	---		NT		NT		NT		NT		NT		NT		NT		NT		NT
	TPH Oil Range Organics (C28-C36)	---	---		577		1,110		367		4,650		6,680		2,250		10,500		1,380		1,110
	Total TPH*	6,000	15,500		1,932.6		6,070		542		18,770		19,530		10,400		25,831.5		7,890		2,096

	Analytical Parameter	Soil Attenuation Capacity		40293261021		40293261007		40293261005		40293261006		40293261010		40293261011		40293261008		40293261009		40293261003	
		Default	Site-Specific	SB-40(6-7)		SB-42(7-7.7)		SB-43(1.5-2.5)		SB-43(5.5-6.5)		SB-44(2-3)		SB-44(6.5-7.5)		SB-45(2-3)		SB-45(5.5-6.5)		SB-46(1.5-2.5)	
		Upper meter	Below 1 meter	04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/07/2025	
TPH	TPH Gasoline Range Organics (C06-C10)	---	---		127		990		17.1		577		438		1,300		891		1,140		608
	TPH Extended Range Organics (C08-C36)	---	---		NT		NT		NT		NT		NT		NT		NT		NT		NT
	TPH Diesel Range Organics (C10-C28)	---	---		285		4,260		1,070		6,230		14,100		8,980		14,600		8,040		13,300
	TPH Oil Range Organics (C21-C35)	---	---		NT		NT		NT		NT		NT		NT		NT		NT		NT
	TPH Oil Range Organics (C28-C36)	---	---		123		1,400		943		2,080		7,100		2,890		5,610		2,310		6,170
	Total TPH*	6,000	15,500		535		6,650		2,030.1		8,887		21,638		13,170		21,101		11,490		20,078

Default Soil Attenuation Capacity taken from TACO 742.215
Site-Specific Soil Attenuation Capacity based on lab result for soil Foc
Sample results and Attenuation Capacity presented in mg/kg
* Total TPH calculated as sum of unique carbon ranges
U Not detected (less than Reporting Limit or Minimum Detection Limit)
J Estimated concentration above the MDL and below the RL
bold Detected parameter result
ital. Reporting limit for parameter is greater than a Tier 1 SRO
Sample result exceeds soil attenuation capacity
Soil attenuation capacity has been exceeded in one or more sample

	Analytical Parameter	Soil Attenuation Capacity		40293408006		40293408013		40293408014		40293408010		40293408019		40293408020		40293408021		40293408015		40293408016	
		Default	Site-Specific	SB-49(6-7)		SB-50(2.5-3.5)		SB-50(6.5-7.5)		SB-55(7-8)		SB-56(1.5-2.5)		DUP-TPH (SB-56 (1.5-2.5))		SB-56(5.5-6.5)		SB-57(2-3)		SB-57(6.5-7.5)	
		Upper meter	Below 1 meter	04/08/2025		04/08/2025		04/08/2025		4/8/2025		4/8/2025		4/8/2025		4/8/2025		4/8/2025		4/8/2025	
TPH	TPH Gasoline Range Organics (C06-C10)	---	---		523		1,230		299		729	U	7.8	U	8.6		892	J	10.5		1,650
	TPH Extended Range Organics (C08-C36)	---	---		NT		NT		NT		NT		NT		NT		NT		NT		NT
	TPH Diesel Range Organics (C10-C28)	---	---		11,400		18,800		3,330		486		426		436		3,820		470		6,880
	TPH Oil Range Organics (C21-C35)	---	---		NT		NT		NT		NT		NT		NT		NT		NT		NT
	TPH Oil Range Organics (C28-C36)	---	---		3,580		7,840		933		144		413		423		1,670		410		2,150
	Total TPH*	6,000	15,500		15,503		27,870		4,562		1,359		839		859		6,382		891		10,680

	Analytical Parameter	Soil Attenuation Capacity		40293408007		40293408008		40293408011		40293408012		40293261016		40293261017		40293408001		40293408002		40293408009	
		Default	Site-Specific	SB-51(1.5-2.5)		SB-51(6-7)		SB-52(1.5-2.5)		SB-52(7-8)		SB-53(1.5-2.5)		SB-53(6-7)		SB-54(1.5-2.5)		SB-54(7-8)		SB-55(1.5-2.5)	
		Upper meter	Below 1 meter	04/08/2025		04/08/2025		04/08/2025		04/08/2025		04/07/2025		04/07/2025		4/8/2025		4/8/2025		4/8/2025	
TPH	TPH Gasoline Range Organics (C06-C10)	---	---	U	8.7		1,700	J	7.7		15.4		2,050		2,310	U	8.5		309	J	12.5
	TPH Extended Range Organics (C08-C36)	---	---		NT		NT		NT		NT		NT		NT		NT		NT		NT
	TPH Diesel Range Organics (C10-C28)	---	---		251		4,310		952		4,830		10,600		2,720		67.9		4,450		113
	TPH Oil Range Organics (C21-C35)	---	---		NT		NT		NT		NT		NT		NT		NT		NT		NT
	TPH Oil Range Organics (C28-C36)	---	---		280		1,420		1,110		1,390		2,870		803		76.1		1,330		104
	Total TPH*	6,000	15,500		531		7,430		2,070		6,235		15,520		5,833		144		6,089		230

Default Soil Attenuation Capacity taken from TACO 742.215
Site-Specific Soil Attenuation Capacity based on lab result for soil Foc
Sample results and Attenuation Capacity presented in mg/kg
* Total TPH calculated as sum of unique carbon ranges
U Not detected (less than Reporting Limit or Minimum Detection Limit)
J Estimated concentration above the MDL and below the RL
bold Detected parameter result
ital. Reporting limit for parameter is greater than a Tier 1 SRO
 Sample result exceeds soil attenuation capacity
 Soil attenuation capacity has been exceeded in one or more sample

		Soil Attenuation Capacity		40293408017		40293408018		40293261012	
		Default	Site-Specific	SB-58(1.5-2.5)		SB-58(6-7)		SB-59(1.5-2.5)	
		Upper meter	Below 1 meter	4/8/2025		4/8/2025		04/07/2025	
TPH	TPH Gasoline Range Organics (C06-C10)	---	---		16.4		1,400	U	8.1
	TPH Extended Range Organics (C08-C36)	---	---		NT		NT		NT
	TPH Diesel Range Organics (C10-C28)	---	---		270		2,710		109
	TPH Oil Range Organics (C21-C35)	---	---		NT		NT		NT
	TPH Oil Range Organics (C28-C36)	---	---		282		942		118
	Total TPH*	6,000	15,500		568		5,052		227

		Soil Attenuation Capacity		40293261013		40293261014		40293261015	
		Default	Site-Specific	SB-59(6.5-7.5)		SB-60(1.5-2.5)		SB-60(5-6)	
		Upper meter	Below 1 meter	04/07/2025		04/07/2025		04/07/2025	
TPH	TPH Gasoline Range Organics (C06-C10)	---	---		47.7	U	8.2	U	10.8
	TPH Extended Range Organics (C08-C36)	---	---		NT		NT		NT
	TPH Diesel Range Organics (C10-C28)	---	---		319		496		13.9
	TPH Oil Range Organics (C21-C35)	---	---		NT		NT		NT
	TPH Oil Range Organics (C28-C36)	---	---		150		223		18.2
	Total TPH*	6,000	15,500		516.7		719		32.1

- Default Soil Attenuation Capacity taken from TACO 742.215
Site-Specific Soil Attenuation Capacity based on lab result for soil Foc
Sample results and Attenuation Capacity presented in mg/kg
- * Total TPH calculated as sum of unique carbon ranges
 - U Not detected (less than Reporting Limit or Minimum Detection Limit)
 - J Estimated concentration above the MDL and below the RL
 - bold** Detected parameter result
 - ital.* Reporting limit for parameter is greater than a Tier 1 SRO
 - Sample result exceeds soil attenuation capacity
 - Soil attenuation capacity has been exceeded in one or more sample

	Tier 1 Exposure Route-Specific Values for Soils (mg/kg)									40293253001		40293253002		40293253004		40293253005		40293253003		40293258001		40293258002		40293258003		40293258004		40293258005	
	Residential		Industrial- Commercial		Construction Worker		pH-specific Soil Component to Groundwater Ingestion - Class I			SB-12RR(2-3)		SB-24R(1-2)		SB-31R(1-2)		DUP-CR <i>(SB-31R (1-2))</i>		SB-34R(1-2)		SB-40(2-3)		SB-41(2-3)		DUP-PB <i>(SB-41 (2-3))</i>		SB-42(2-3)		SB-43(2-3)	
Analytical Parameter	Ingestion	Inhalation	Ingestion	Inhalation	Ingestion	Inhalation	7.25 - 7.74	7.75 - 8.24	8.25 - 8.74	04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/07/2025	
Chromium (total)*	230	270	6,100	420	4,100	690	32	28	24		32.8		14.9		37.5		25.0		17.1		NT		NT		NT		NT		NT
Lead	400	---	800	---	700	---	107	107	107		NT		NT		NT		NT		NT		16.2		1,210		1,370		20.9		76.8
pH	2.0 < pH < 12.5 [per 35 IAC Section 742.305 (d)]										8.18		8.41		8.41		8.45		8.24		7.55		7.69		7.65		7.87		7.92

Tier 1 Soil Remediation Objectives (SROs) taken from TACO Appendix B, Table A, Table B, and Table C

Sample results and SROs presented in milligrams per kilogram (mg/kg)

--- Remediation Objective not established

* Soil component to groundwater ingestion SROs apply for hexalent chromium

NT Not tested

bold Analytical results in bold indicate detected parameter

Sample result exceeds one or more SRO

SRO has been exceeded in one or more sample

Result exceeds pH-specific objective but does not exceed exposure route based on SPLP/TCLP analysis

Analytical Parameter	Tier 1 Soil Component to the Groundwater Ingestion Exposure Route SROs (mg/L)		Toxicity Characteristic Threshold (mg/L)	40293253001		40293253002		40293253004		40293253005		40293253003		40293258003	
				SB-12RR(2-3)		SB-24R(1-2)		SB-31R(1-2)		DUP-CR (SB-31R (1-2))		SB-34R(1-2)		DUP-PB (SB-41 (2-3))	
	Class I	Class II		04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/07/2025		04/07/2025	
Chromium, SPLP	0.1	1	5.0	J	0.0051	J	0.0045	J	0.0036	J	0.0031	J	0.0063		NT
Lead, TCLP	0.0075	0.1	5.0		NT		NT		NT		NT		NT		0.32

Tier 1 SROs taken from TACO Appendix B, Table A

Toxicity Characteristic threshold taken from 40 CFR 261.24

Sample results and SROs presented in milligrams per liter (mg/L)

--- Remediation Objective not established

NT Not tested

U Not detected (less than Reporting Limit)

J Estimated concentration above the MDL and below the RL

bold Detected parameter result

ital. Reporting limit for parameter is greater than a Tier 1 SRO

Sample result exceeds one or more SRO

SRO has been exceeded in one or more sample

Table 3
Exceedance Summary

Table 3
Exceedance Summary

Sample Location	Depth (ft bgs)	Date	Media	Chemical	Sample Result (ppm)	Residential Ingestion	Residential Inhalation	Construction Ingestion	Construction Inhalation	Soil Component to GW	Groundwater Ingestion	Indoor Inhalation	Attenuation Capacity
SB-02A	2-5	9/29/2020	Soil	Benzo(a)anthracene	11.3	X				X			
SB-02A	2-5	9/29/2020	Soil	Benzo(a)pyrene	10.7	X				X			
SB-02A	2-5	9/29/2020	Soil	Benzo(b)fluoranthene	34.8	X				X			
SB-02A	2-5	9/29/2020	Soil	Dibenzo(a,h)anthracene	5.01	X				X			
SB-02A	2-5	9/29/2020	Soil	Indeno(1,2,3-cd)pyrene	11.6	X							
SB-02A	2-5	9/29/2020	Soil	Mercury	0.167				X				
SB-03A	2.5-5	9/29/2020	Soil	Benzo(a)anthracene	1.98	X							
SB-03A	2.5-5	9/29/2020	Soil	Benzo(a)pyrene	2.13	X							
SB-03A	2.5-5	9/29/2020	Soil	Benzo(b)fluoranthene	2.57	X							
SB-07A	2.5-5	9/29/2020	Soil	Benzo(a)anthracene	11.2	X				X			
SB-07A	2.5-5	9/29/2020	Soil	Benzo(a)pyrene	12.5	X				X			
SB-07A	2.5-5	9/29/2020	Soil	Benzo(b)fluoranthene	23.1	X				X			
SB-07A	2.5-5	9/29/2020	Soil	Dibenzo(a,h)anthracene	3.31	X				X			
SB-07A	2.5-5	9/29/2020	Soil	Indeno(1,2,3-cd)pyrene	10.9	X							
SB-08A	2.5-5	9/29/2020	Soil	Arsenic	26.8	X							
SB-08A	2.5-5	9/29/2020	Soil	Manganese	2440	X							
SB-08B	7.5-10	9/29/2020	Soil	Mercury	1.30				X				
SB-09A	0-2.5	9/29/2020	Soil	Benzo(a)anthracene	4.80	X				X			
SB-09A	0-2.5	9/29/2020	Soil	Benzo(a)pyrene	14.6	X				X			
SB-09A	0-2.5	9/29/2020	Soil	Benzo(b)fluoranthene	22.2	X				X			
SB-09A	0-2.5	9/29/2020	Soil	Dibenzo(a,h)anthracene	3.20	X				X			
SB-09A	0-2.5	9/29/2020	Soil	Indeno(1,2,3-cd)pyrene	12.7	X							
SB-10A	1-3	9/30/2020	Soil	Benzo(a)anthracene	1.91	X							
SB-10A	1-3	9/30/2020	Soil	Benzo(a)pyrene	2.99	X							
SB-10A	1-3	9/30/2020	Soil	Benzo(b)fluoranthene	4.63	X							
SB-10A	1-3	9/30/2020	Soil	Dibenzo(a,h)anthracene	0.700	X							
SB-10A	1-3	9/30/2020	Soil	Indeno(1,2,3-cd)pyrene	2.29	X							
SB-10A	1-3	9/30/2020	Soil	Arsenic	18.3	X							
SB-11A	1-3	9/30/2020	Soil	Lead	167					X			
SB-11A	1-3	9/30/2020	Soil	Mercury	0.684				X				
SB-12A	2-4.5	9/30/2020	Soil	Benzo(b)fluoranthene	3.97	X							
SB-12A	2-4.5	9/30/2020	Soil	Dibenzo(a,h)anthracene	0.423	X							
SB-12A	2-4.5	9/30/2020	Soil	Antimony	20.5					X			
SB-12A	2-4.5	9/30/2020	Soil	Arsenic	68.1	X		X					
SB-12A	2-4.5	9/30/2020	Soil	Lead	2290	X		X		X			
SB-12A	2-4.5	9/30/2020	Soil	Manganese	2110	X							
SB-12A	2-4.5	9/30/2020	Soil	Mercury	0.388				X				
SB-13A	5-7.5	9/30/2020	Soil	Benzo(a)anthracene	5.23	X				X			
SB-13A	5-7.5	9/30/2020	Soil	Benzo(a)pyrene	8.99	X				X			
SB-13A	5-7.5	9/30/2020	Soil	Benzo(b)fluoranthene	15.8	X				X			
SB-13A	5-7.5	9/30/2020	Soil	Dibenzo(a,h)anthracene	2.55	X				X			
SB-13A	5-7.5	9/30/2020	Soil	Indeno(1,2,3-cd)pyrene	7.44	X							
SB-18A	5-7.5	10/1/2020	Soil	N-Nitrosodi-n-propylamine	0.149	X				X			
SB-18A	5-7.5	10/1/2020	Soil	Arsenic	17.3	X							
SB-18A	5-7.5	10/1/2020	Soil	Lead	251					X			
SB-18A	5-7.5	10/1/2020	Soil	Mercury	0.224				X				
SB-19A	0-2.5	10/1/2020	Soil	N-Nitrosodi-n-propylamine	0.137	X				X			
SB-19A	0-2.5	10/1/2020	Soil	Benzo(b)fluoranthene	3.61	X							
SB-19A	0-2.5	10/1/2020	Soil	Dibenzo(a,h)anthracene	0.422	X							
SB-19A	0-2.5	10/1/2020	Soil	Lead	209					X			
SB-19A	0-2.5	10/1/2020	Soil	Mercury	0.264				X				
SB-20A	1-3.5	10/1/2020	Soil	Benzo(a)anthracene	5.59	X				X			
SB-20A	1-3.5	10/1/2020	Soil	Benzo(a)pyrene	9.12	X				X			
SB-20A	1-3.5	10/1/2020	Soil	Benzo(b)fluoranthene	16.0	X				X			
SB-20A	1-3.5	10/1/2020	Soil	Dibenzo(a,h)anthracene	1.93	X							
SB-20A	1-3.5	10/1/2020	Soil	Indeno(1,2,3-cd)pyrene	5.21	X							
SB-20A	1-3.5	10/1/2020	Soil	Arsenic	24.1	X							
SB-22	1.5-2.5	7/20/2021	Soil	Benzo(a)anthracene	16.9	X				X			
SB-22	1.5-2.5	7/20/2021	Soil	Benzo(a)pyrene	15.5	X				X			
SB-22	1.5-2.5	7/20/2021	Soil	Benzo(b)fluoranthene	40.4	X				X			
SB-22	1.5-2.5	7/20/2021	Soil	Benzo(k)fluoranthene	12.1	X							
SB-22	1.5-2.5	7/20/2021	Soil	Dibenzo(a,h)anthracene	6.0	X				X			
SB-22	1.5-2.5	7/20/2021	Soil	Indeno(1,2,3-cd)pyrene	17.9	X				X			
SB-23	1.5-2.5	7/21/2021	Soil	Arsenic	13.2	X							
SB-23	1.5-2.5	7/21/2021	Soil	Manganese	3210	X							
SB-23	1.5-2.5	7/21/2021	Soil	TPH	18,920								X
SB-24	1-2	7/21/2021	Soil	Arsenic	55.9	X							

Sample Location	Depth (ft bgs)	Date	Media	Chemical	Sample Result (ppm)	Residential Ingestion	Residential Inhalation	Construction Ingestion	Construction Inhalation	Soil Component to GW	Groundwater Ingestion	Indoor Inhalation	Attenuation Capacity
SB-24	1-2	7/21/2021	Soil	Manganese	2970	X							
SB-24	1-2	7/21/2021	Soil	Nickel	328					X			
SB-25	1.5-2.5	7/20/2021	Soil	Arsenic	17.5	X							
SB-25	1.5-2.5	7/20/2021	Soil	Lead	252					X			
SB-25	1.5-2.5	7/20/2021	Soil	Manganese	2830	X							
SB-25	1.5-2.5	7/20/2021	Soil	Mercury	0.60				X				
SB-26	1.5-2.5	7/20/2021	Soil	Benzo(a)anthracene	4.8	X				X			
SB-26	1.5-2.5	7/20/2021	Soil	Benzo(a)pyrene	4.8	X							
SB-26	1.5-2.5	7/20/2021	Soil	Benzo(b)fluoranthene	6.6	X				X			
SB-26	1.5-2.5	7/20/2021	Soil	Dibenzo(a,h)anthracene	0.84 J	X							
SB-26	1.5-2.5	7/20/2021	Soil	Indeno(1,2,3-cd)pyrene	3.3	X							
SB-26	1.5-2.5	7/20/2021	Soil	Lead	270					X			
SB-26	1.5-2.5	7/20/2021	Soil	Mercury	0.51				X				
SB-27	1.5-2.5	7/20/2021	Soil	Lead	138					X			
SB-27	1.5-2.5	7/20/2021	Soil	Mercury	0.12				X				
SB-27	5-6	7/20/2021	Soil	Mercury	1.0				X				
SB-28	1-2	7/20/2021	Soil	Benzene	0.062					X			
SB-28	1-2	7/20/2021	Soil	Benzo(b)fluoranthene	2.3	X							
SB-28	4-5	7/20/2021	Soil	Benzo(a)anthracene	2.0	X							
SB-28	4-5	7/20/2021	Soil	Benzo(a)pyrene	3.4	X							
SB-28	4-5	7/20/2021	Soil	Benzo(b)fluoranthene	5.6	X				X			
SB-28	4-5	7/20/2021	Soil	Dibenzo(a,h)anthracene	0.91	X							
SB-28	4-5	7/20/2021	Soil	Indeno(1,2,3-cd)pyrene	3.8	X							
SB-28	4-5	7/20/2021	Soil	Mercury	2.2				X				
SB-29	2-3	7/19/2021	Soil	Benzo(b)fluoranthene	3.9	X							
SB-29	2-3	7/19/2021	Soil	Dibenzo(a,h)anthracene	0.57	X							
SB-29	2-3	7/19/2021	Soil	Indeno(1,2,3-cd)pyrene	2.3	X							
SB-29	6.5-7.5	7/19/2021	Soil	Mercury	0.91				X				
SB-30	1.5-2.5	7/19/2021	Soil	Benzo(a)anthracene	6.1	X				X			
SB-30	1.5-2.5	7/19/2021	Soil	Benzo(a)pyrene	13.3	X				X			
SB-30	1.5-2.5	7/19/2021	Soil	Benzo(b)fluoranthene	23.8	X				X			
SB-30	1.5-2.5	7/19/2021	Soil	Dibenzo(a,h)anthracene	3.7	X				X			
SB-30	1.5-2.5	7/19/2021	Soil	Indeno(1,2,3-cd)pyrene	15.4	X				X			
SB-30	5.7-6.7	7/19/2021	Soil	Mercury	2.4				X				
SB-31	1-2	7/19/2021	Soil	Benzo(a)pyrene	2.2	X				X			
SB-31	1-2	7/19/2021	Soil	Benzo(b)fluoranthene	3.6	X							
SB-31	1-2	7/19/2021	Soil	Dibenzo(a,h)anthracene	0.6	X							
SB-31	1-2	7/19/2021	Soil	Indeno(1,2,3-cd)pyrene	2.5	X							
SB-31	1-2	7/19/2021	Soil	Mercury	0.13				X				
SB-32	1-2	7/19/2021	Soil	Benzo(a)anthracene	4.4	X				X			
SB-32	1-2	7/19/2021	Soil	Benzo(a)pyrene	9.0	X				X			
SB-32	1-2	7/19/2021	Soil	Benzo(b)fluoranthene	14.2	X				X			
SB-32	1-2	7/19/2021	Soil	Dibenzo(a,h)anthracene	2.5	X				X			
SB-32	1-2	7/19/2021	Soil	Indeno(1,2,3-cd)pyrene	9.4	X							
SB-32	6.1-6.9	7/19/2021	Soil	Benzo(a)anthracene	1.9	X							
SB-32	6.1-6.9	7/19/2021	Soil	Benzo(b)fluoranthene	2.7	X							
SB-32	6.1-6.9	7/19/2021	Soil	Arsenic	14.3	X							
SB-32	6.1-6.9	7/19/2021	Soil	Lead	159					X			
SB-32	6.1-6.9	7/19/2021	Soil	Mercury	0.19				X				
SB-33	1-2	7/19/2021	Soil	Benzo(a)anthracene	4.7	X				X			
SB-33	1-2	7/19/2021	Soil	Benzo(a)pyrene	6.9	X							
SB-33	1-2	7/19/2021	Soil	Benzo(b)fluoranthene	12.0	X				X			
SB-33	1-2	7/19/2021	Soil	Dibenzo(a,h)anthracene	1.6	X							
SB-33	1-2	7/19/2021	Soil	Indeno(1,2,3-cd)pyrene	7.0	X							
SB-33	1-2	7/19/2021	Soil	Antimony	23.8					X			
SB-33	1-2	7/19/2021	Soil	Lead	634	X				X			
SB-33	5-6	7/19/2021	Soil	Manganese	2030	X							
SB-34	1-2	7/19/2021	Soil	Benzo(b)fluoranthene	3.2	X							
SB-34	1-2	7/19/2021	Soil	Dibenzo(a,h)anthracene	0.45 J	X							
SB-34	1-2	7/19/2021	Soil	Indeno(1,2,3-cd)pyrene	1.8	X							
SB-34	1-2	7/19/2021	Soil	Antimony	8.0					X			
SB-34	1-2	7/19/2021	Soil	Arsenic	14.6	X							
SB-34	1-2	7/19/2021	Soil	Lead	193					X			
SB-34	1-2	7/19/2021	Soil	Manganese	2900	X							
SB-34	5-6	7/19/2021	Soil	Mercury	0.14				X				
SB-35	2-3	7/19/2021	Soil	Benzo(b)fluoranthene	3.0	X							
SB-35	2-3	7/19/2021	Soil	Dibenzo(a,h)anthracene	0.44	X							

Table 3
Exceedance Summary

Sample Location	Depth (ft bgs)	Date	Media	Chemical	Sample Result (ppm)	Residential Ingestion	Residential Inhalation	Construction Ingestion	Construction Inhalation	Soil Component to GW	Groundwater Ingestion	Indoor Inhalation	Attenuation Capacity
SB-35	2-3	7/19/2021	Soil	Indeno(1,2,3-cd)pyrene	2.1	X							
SB-35	5-6	7/19/2021	Soil	Benzo(a)anthracene	7.4	X				X			
SB-35	5-6	7/19/2021	Soil	Benzo(a)pyrene	9.6	X				X			
SB-35	5-6	7/19/2021	Soil	Benzo(b)fluoranthene	16.9	X				X			
SB-35	5-6	7/19/2021	Soil	Dibenzo(a,h)anthracene	2.5	X				X			
SB-35	5-6	7/19/2021	Soil	Indeno(1,2,3-cd)pyrene	9.7	X							
SB-35	5-6	7/19/2021	Soil	Mercury	0.17				X				
SB-36	1.8-2.8	7/20/2021	Soil	Benzene	0.73					X			
SB-36	1.8-2.8	7/20/2021	Soil	Benzo(a)anthracene	14.9	X				X			
SB-36	1.8-2.8	7/20/2021	Soil	Benzo(a)pyrene	20.7	X		X		X			
SB-36	1.8-2.8	7/20/2021	Soil	Benzo(b)fluoranthene	35.3	X				X			
SB-36	1.8-2.8	7/20/2021	Soil	Benzo(k)fluoranthene	12.6	X							
SB-36	1.8-2.8	7/20/2021	Soil	Dibenzo(a,h)anthracene	5.3	X				X			
SB-36	1.8-2.8	7/20/2021	Soil	Indeno(1,2,3-cd)pyrene	19.8	X				X			
SB-36	1.8-2.8	7/20/2021	Soil	Mercury	0.50				X				
SB-36	5-5.7	7/20/2021	Soil	Benzene	0.068					X			
SB-36	5-5.7	7/20/2021	Soil	Trichloroethene	0.067 J					X			
SB-36	5-5.7	7/20/2021	Soil	Benzo(a)anthracene	67.8	X				X			
SB-36	5-5.7	7/20/2021	Soil	Benzo(a)pyrene	59.3	X		X		X			
SB-36	5-5.7	7/20/2021	Soil	Benzo(b)fluoranthene	76.7	X				X			
SB-36	5-5.7	7/20/2021	Soil	Benzo(k)fluoranthene	31.3	X							
SB-36	5-5.7	7/20/2021	Soil	Carbazole	8.1					X			
SB-36	5-5.7	7/20/2021	Soil	Dibenzo(a,h)anthracene	8.7	X				X			
SB-36	5-5.7	7/20/2021	Soil	Indeno(1,2,3-cd)pyrene	41.0	X				X			
SB-36	5-5.7	7/20/2021	Soil	Arsenic	15.1	X							
SB-36	5-5.7	7/20/2021	Soil	Lead	237					X			
SB-36	5-5.7	7/20/2021	Soil	Mercury	1.0				X				
SB-41	2-3	4/7/2025	Soil	Lead	1370	X		X		X			
SB-44	2-3	4/7/2025	Soil	TPH	21,638								X
SB-45	2-3	4/7/2025	Soil	TPH	21,101								X
SB-46	1.5-2.5	4/7/2025	Soil	TPH	20,078								X
SB-46	7-8	4/7/2025	Soil	TPH	18,770								X
SB-47	1.5-2.5	4/7/2025	Soil	TPH	19,530								X
SB-48	1.5-2.5	4/8/2025	Soil	TPH	25,831.5								X
SB-49	6-7	4/8/2025	Soil	TPH	15,503								X
SB-50	2.5-3.5	4/8/2025	Soil	TPH	27,870								X
SB-53	1.5-2.5	4/7/2025	Soil	TPH	15,520								X
MW-02	---	7/27/2021	Water	Manganese	0.52						X		
MW-03	---	7/28/2021	Water	Manganese	0.60						X		
MW-04	---	7/28/2021	Water	Manganese	0.59						X		
MW-05	---	7/28/2021	Water	Manganese	0.37						X		
MW-06	---	7/28/2021	Water	Manganese	0.50						X		
MW-07	---	7/28/2021	Water	Manganese	0.23						X		
MW-09	---	7/28/2021	Water	Manganese	0.21						X		
TMW-01	--	6/20/2024	Water	Benzo(a)anthracene	0.00014						X		
TMW-01	--	6/20/2024	Water	Benzo(b)fluoranthene	0.00019						X		
TMW-02	--	6/20/2024	Water	Bis(2-ethylhexyl)phthalate	0.0063						X		
TMW-02	--	6/20/2024	Water	Iron	8.6						X		
TMW-02	--	6/20/2024	Water	Manganese	1.3						X		
TMW-03	--	6/20/2024	Water	Benzo(a)anthracene	0.0052						X		
TMW-03	--	6/20/2024	Water	Benzo(a)pyrene	0.0081						X		
TMW-03	--	6/20/2024	Water	Benzo(b)fluoranthene	0.011						X		
TMW-03	--	6/20/2024	Water	Benzo(k)fluoranthene	0.0041						X		
TMW-03	--	6/20/2024	Water	Chrysene	0.0064						X		
TMW-03	--	6/20/2024	Water	Dibenzo(a,h)anthracene	0.0015						X		
TMW-03	--	6/20/2024	Water	Indeno(1,2,3-cd)pyrene	0.0078						X		
TMW-03	--	6/20/2024	Water	Lead	0.051						X		

APPENDICES

Appendix A

Soil Boring Logs

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ENGINEERING & ENVIRONMENTAL

BORING NUMBER SB-12RR

PAGE 1 OF 1

CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/7/25</u>	COMPLETED <u>4/7/25</u>	GROUND ELEVATION <u>---</u>	HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		AT TIME OF DRILLING <u>--</u>	
LOGGED BY <u>Tony Guajardo</u>		AT END OF DRILLING <u>--</u>	
CHECKED BY <u>Annie Ray</u>		AFTER DRILLING <u>--</u>	
NOTES <u>Waste characterization and chromium reanalysis soil boring</u>			

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	66	Soil samples from 2-3 feet bgs		0.3 Topsoil Black (10YR 2/1), well graded, fine to medium sand FILL trace gravel, slag, cinder, loose, moist Petroleum odor after 1' bgs Very moist after 3' bgs	0.00 14.7 28.6 13.8 20.8 45.7
					Bottom of hole at 5.0 feet.	

CLIENT City of South Beloit **PROJECT NAME** Shirland Avenue
PROJECT NUMBER 23-1845 PH05 **PROJECT LOCATION** 126 Shirland Ave, South Beloit, Illinois
DATE STARTED 4/7/25 **COMPLETED** 4/7/25 **GROUND ELEVATION** --- **HOLE SIZE** 2"
DRILLING CONTRACTOR Earth Solutions **GROUND WATER LEVELS:**
DRILLING METHOD Geoprobe 7822DT **AT TIME OF DRILLING** --
LOGGED BY Tony Guajardo **CHECKED BY** Annie Ray **AT END OF DRILLING** --
NOTES Chromium reanalysis soil boring **AFTER DRILLING** --

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	66	Soil sample from 1-2 feet bgs		0.3 Topsoil Black (10YR 2/1), well graded, fine to medium sand FILL, some gravel, loose, moist Very moist after 3' bgs 5.0 Bottom of hole at 5.0 feet.	0.00 0.00 0.00 0.00 0.00 0.00

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BORING NUMBER SB-31R

PAGE 1 OF 1

CLIENT <u>City of South Beloit</u>	PROJECT NAME <u>Shirland Avenue</u>
PROJECT NUMBER <u>23-1845 PH05</u>	PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>
DATE STARTED <u>4/7/25</u> COMPLETED <u>4/7/25</u>	GROUND ELEVATION <u>---</u> HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Geoprobe 7822DT</u>	AT TIME OF DRILLING <u>--</u>
LOGGED BY <u>Tony Guajardo</u> CHECKED BY <u>Annie Ray</u>	AT END OF DRILLING <u>--</u>
NOTES <u>Chromium reanalysis soil boring</u>	AFTER DRILLING <u>--</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	48	Soil sample from 1-2 feet bgs (DUP-Cr)		0.3 Topsoil Black (10YR 2/1), well graded, fine to medium sand FILL, trace gravel, loose, moist	0.00 0.00 0.00 0.00
					Bottom of hole at 5.0 feet.	

CLIENT <u>City of South Beloit</u>	PROJECT NAME <u>Shirland Avenue</u>
PROJECT NUMBER <u>23-1845 PH05</u>	PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>
DATE STARTED <u>4/7/25</u> COMPLETED <u>4/7/25</u>	GROUND ELEVATION <u>---</u> HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Geoprobe 7822DT</u>	AT TIME OF DRILLING <u>--</u>
LOGGED BY <u>Tony Guajardo</u> CHECKED BY <u>Annie Ray</u>	AT END OF DRILLING <u>--</u>
NOTES <u>Chromium reanalysis soil boring</u>	AFTER DRILLING <u>--</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	44	Soil sample 1-2 feet bgs		0.5 Topsoil Black (10YR 2/1), well graded, fine to medium sand FILL, some gravel, loose, moist	0.00 0.00 0.00 0.00
					Bottom of hole at 5.0 feet.	

CLIENT City of South Beloit **PROJECT NAME** Shirland Avenue
PROJECT NUMBER 23-1845 PH05 **PROJECT LOCATION** 126 Shirland Ave, South Beloit, Illinois
DATE STARTED 4/7/25 **COMPLETED** 4/7/25 **GROUND ELEVATION** --- **HOLE SIZE** 2"
DRILLING CONTRACTOR Earth Solutions **GROUND WATER LEVELS:**
DRILLING METHOD Geoprobe 7822DT **AT TIME OF DRILLING** 6.50 ft / Elev 6.50 ft
LOGGED BY Tony Guajardo **CHECKED BY** Annie Ray **AT END OF DRILLING** --
NOTES TPH delineation soil boring **AFTER DRILLING** --

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	62	Soil sample 2-3 feet bgs		0.5	Topsoil	0.00
					0.8	Yellow (10YR 7/6), gravel FILL	0.00
						Dark yellowish brown (10YR 4/4), medium sand FILL, loose, dry, some gravel, slag, and cinder	0.00
						Wood and brick after 1.8' bgs	0.00
						Petroleum odor after 3' bgs	3.1
5	MAC	50	Soil sample 6-7 feet bgs	CL	4.0	Gray (10YR 6/1), CLAY, low plasticity, stiff, moist, petroleum odor	39.4
					6.5	Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated	121.3
				GWS			90.6
10					10.0	Bottom of hole at 10.0 feet.	114.7

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ENGINEERING & ENVIRONMENTAL

BORING NUMBER SB-40

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CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/7/25</u>	COMPLETED <u>4/7/25</u>	GROUND ELEVATION <u>---</u>	HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		▽ AT TIME OF DRILLING <u>6.60 ft / Elev 6.60 ft</u>	
LOGGED BY <u>Tony Guajardo</u>		AT END OF DRILLING <u>--</u>	
CHECKED BY <u>Annie Ray</u>		AFTER DRILLING <u>--</u>	
NOTES <u>TPH and lead delineation soil boring</u>			

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
						0.4 Topsoil	
			Soil sample 1.5-2.5 feet bgs			Black (10YR 2/1), fine to medium sand FILL, some gravel, glass, cinder, and slag, dry, loose	0.00
							0.00
			Soil sample 2-3 feet bgs			Black (10YR 2/1), well graded sand FILL, some gravel, glass, cinder, and slag, dry, loose, no odor	0.00
							0.00
						4.2	
						Gray (10YR 6/1), CLAY, low plasticity, moist, stiff, petroleum odor	
5	MAC	66					
			Soil sample 6-7 feet bgs	CL			17.3
						6.6 ▽	2.3
						Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, loose, petroleum odor	2.6
							32.7
							0.00
				GWS			
10	MAC	44				10.0	
						Bottom of hole at 10.0 feet.	

AFTER DRILLING --

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

AFTER DRILLING

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

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BORING NUMBER SB-43

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CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/7/25</u>	COMPLETED <u>4/7/25</u>	GROUND ELEVATION <u>---</u>	HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		▽ AT TIME OF DRILLING <u>7.40 ft / Elev 7.40 ft</u>	
LOGGED BY <u>Tony Guajardo</u>		AT END OF DRILLING <u>--</u>	
CHECKED BY <u>Annie Ray</u>		AFTER DRILLING <u>--</u>	
NOTES <u>TPH and lead delineation soil boring</u>			

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
						0.3 Topsoil	
			Soil sample 1.5-2.5 feet bgs			Black (10YR 2/1) to dark yellowish brown (10YR 4/4), well graded sand FILL, loose, moist, some glass, brick, slag, cinder, no odor	0.00
			Soil sample 2-3 feet bgs				0.00
							0.00
							0.00
							0.00
						4.0	
						Gray (10YR 6/1), CLAY, low plasticity, stiff, saturated, petroleum odor	
5							
			Soil sample 5.5-6.5 feet bgs	CL			10.6
							162.5
							31.0
							14.9
						7.4 ▽	
						Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	45.0
				GWS			
10						10.0	
						Bottom of hole at 10.0 feet.	

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

AFTER DRILLING --

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

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BORING NUMBER SB-45

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CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/7/25</u>	COMPLETED <u>4/7/25</u>	GROUND ELEVATION <u>---</u>	HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		▽ AT TIME OF DRILLING <u>6.50 ft / Elev 6.50 ft</u>	
LOGGED BY <u>Tony Guajardo</u>		CHECKED BY <u>Annie Ray</u>	
NOTES <u>TPH delineation soil boring</u>		AT END OF DRILLING <u>--</u>	
		AFTER DRILLING <u>--</u>	

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
						0.2 Topsoil	
						0.8 Yellow (10YR 7/6), gravel FILL	0.00
						Black (10YR 2/1), fine to medium sand FILL, some gravel, loose, dry, petroleum odor after 1' bgs	1.1
							2.7
							7.8
							47.6
							9.1
5	MAC	66	Soil sample 2-3 feet bgs			4.1 Gray (10YR 5/1), CLAY, low plasticity, stiff, moist, petroleum odor	
				CL			112.5
			Soil sample 5.5-6.5 feet bgs			6.5 ▽ Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	132.3
							134.0
	MAC	40		GWS			
10						10.0 Bottom of hole at 10.0 feet.	

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

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BORING NUMBER SB-46

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CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/7/25</u>	COMPLETED <u>4/7/25</u>	GROUND ELEVATION <u>---</u>	HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		▽ AT TIME OF DRILLING <u>6.60 ft / Elev 6.60 ft</u>	
LOGGED BY <u>Tony Guajardo</u>		CHECKED BY <u>Annie Ray</u>	
NOTES <u>TPH delineation soil boring</u>		AT END OF DRILLING <u>--</u>	
		AFTER DRILLING <u>--</u>	

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
						0.2 Topsoil	
						0.7 Yellow (10YR 7/6), gravel FILL	0.00
			Soil sample 1.5-2.5 feet bgs			Black (10YR 2/1), fine to medium sand FILL, trace slag, cinder, brick, glass, gravel, moist, loose, petroleum odor	1.8
							20.6
							20.3
							12
							11.8
5	MAC	68				4.2 Gray (10YR 5/1), CLAY, low plasticity, moist, stiff, petroleum odor	
				CL			81.9
						6.6 ▽ Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	53.1
			Soil sample 7-8 feet bgs				67.3
				GWS			96.2
							11.7
10	MAC	60				10.0 Bottom of hole at 10.0 feet.	

CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/7/25</u>	COMPLETED <u>4/7/25</u>	GROUND ELEVATION <u>---</u>	HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		▽ AT TIME OF DRILLING <u>6.70 ft / Elev 6.70 ft</u>	
LOGGED BY <u>Tony Guajardo</u>	CHECKED BY <u>Annie Ray</u>	AT END OF DRILLING <u>--</u>	
NOTES <u>TPH delineation soil boring</u>		AFTER DRILLING <u>--</u>	

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	68	Soil sample 1.5-2.5 feet bgs			0.2 Topsoil	0.00
						Black (10YR 2/1), fine to medium sand FILL, some gravel, slag, cinder, moist, loose, petroleum odor after 1' bgs	1.1
							28.6
							21.0
							13.2
10	MAC	58	Soil sample 7-8 feet bgs			5.7	27.8
						CL Gray (10YR 5/1), CLAY, low plasticity, moist, stiff, petroleum odor	27.1
						6.7 ▽	24.0
						GWS Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	20.1
							36.0
						10.0 Bottom of hole at 10.0 feet.	

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BORING NUMBER SB-48

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CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/8/25</u>	COMPLETED <u>4/8/25</u>	GROUND ELEVATION <u>---</u>	HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		 AT TIME OF DRILLING <u>7.60 ft / Elev 7.60 ft</u>	
LOGGED BY <u>Tony Guajardo</u>	CHECKED BY <u>Annie Ray</u>	AT END OF DRILLING <u>--</u>	
NOTES <u>TPH delineation soil boring</u>		AFTER DRILLING <u>--</u>	

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	68	Soil sample 1.5-2.5 feet bgs			0.1 Topsoil	0.00
						Black (10YR 2/1) to dark yellowish brown (10YR 4/4), fine to medium sand FILL, some slag and cinders, moist, loose	0.00
							0.00
							0.00
							0.00
							0.00
10	MAC	68	Soil sample 6-7 feet bgs	CL		4.2 Gray (10YR 6/1), CLAY, very moist, low plasticity, stiff, petroleum odor after 5.5' bgs	0.00
							124.0
							153.4
							111.2
							26.7
10	MAC	68	Soil sample 6-7 feet bgs	GWS		7.6  Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	22.8
						10.0 Bottom of hole at 10.0 feet.	

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

BORING NUMBER SB-49

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CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/8/25</u>	COMPLETED <u>4/8/25</u>	GROUND ELEVATION <u>---</u>	HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		▽ AT TIME OF DRILLING <u>7.00 ft / Elev 7.00 ft</u>	
LOGGED BY <u>Tony Guajardo</u>		CHECKED BY <u>Annie Ray</u>	
NOTES <u>TPH delineation soil boring</u>		AT END OF DRILLING <u>--</u>	
		AFTER DRILLING <u>--</u>	

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	66	Soil sample 1.5-2.5 feet bgs			0.2 Topsoil	0.00
						0.7 Yellow (10YR 7/6), gravel FILL	0.00
						Black (10YR 2/1), fine to medium sand FILL, loose, moist, no odor	0.00
							0.00
							0.00
							0.00
10	MAC	64	Soil sample 6-7 feet bgs	CL		4.2 Gray (10YR 6/1), CLAY, very moist, low plasticity, stiff, petroleum odor after 5.5' bgs	
							120.1
							196.2
							131.7
							211.2
10	MAC	64		GWS		7.0 Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	111.2
							14.8
						Bottom of hole at 10.0 feet.	

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	74	Soil sample 2.5-3.5 feet bgs			Black (10YR 2/1) to dark yellowish brown (10YR 4/4), fine to medium sand FILL, some slag, cinder, and gravel Petroleum odor after 2.3' bgs	0.00 0.00 0.00 0.00 34.4 26.0 9.0
					4.3	Gray (10YR 6/1), CLAY, very moist, low plasticity, stiff, petroleum odor after 5.5' bgs	
10	MAC	52	Soil sample 6.5-7.5 feet bgs	CL			20.6 10.6 102.7 155.1 195.1
					10.0	Bottom of hole at 10.0 feet.	

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

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ENGINEERING & ENVIRONMENTAL

BORING NUMBER SB-51

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CLIENT <u>City of South Beloit</u>	PROJECT NAME <u>Shirland Avenue</u>
PROJECT NUMBER <u>23-1845 PH05</u>	PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>
DATE STARTED <u>4/8/25</u> COMPLETED <u>4/8/25</u>	GROUND ELEVATION <u>---</u> HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Geoprobe 7822DT</u>	<u>▽</u> AT TIME OF DRILLING <u>7.80 ft / Elev 7.80 ft</u>
LOGGED BY <u>Tony Guajardo</u> CHECKED BY <u>Annie Ray</u>	AT END OF DRILLING <u>--</u>
NOTES <u>TPH delineation soil boring</u>	AFTER DRILLING <u>--</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)		
5	MAC	68	Soil sample 1.5-2.5 feet bgs			0.4 Topsoil			
						Black (10YR 2/1), fine to medium sand FILL, loose, moist, no odor	0.00		
							0.00		
							0.00		
							0.00		
							0.00		
							0.00		
							0.00		
							0.00		
							0.00		
					4.2	Gray (10YR 6/1), CLAY, very moist, low plasticity, stiff, petroleum odor after 5.5' bgs			
10	MAC	66	Soil sample 6-7 feet bgs	CL					
						7.8 ▽	Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	38.8	
				GWS				182.6	
								120.5	
								144.5	
								16.9	
								41.9	
						10.0	Bottom of hole at 10.0 feet.		

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

BORING NUMBER SB-52

PAGE 1 OF 1

CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/8/25</u>	COMPLETED <u>4/8/25</u>	GROUND ELEVATION <u>---</u>	HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		▽ AT TIME OF DRILLING <u>7.80 ft / Elev 7.80 ft</u>	
LOGGED BY <u>Tony Guajardo</u>		AT END OF DRILLING <u>--</u>	
CHECKED BY <u>Annie Ray</u>		AFTER DRILLING <u>--</u>	
NOTES <u>TPH delineation soil boring</u>			

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	68	Soil sample 1.5-2.5 feet bgs			0.3 Topsoil	0.00
						Black (10YR 2/1), fine to medium sand FILL, some slag, cinder, gravel, brick, loose, moist, no odor	0.00
							0.00
							0.00
							0.00
							0.00
10	MAC	68	Soil sample 7-8 feet bgs	CL		4.2 Gray (10YR 6/1), CLAY, very moist, low plasticity, stiff, petroleum odor after 5.5' bgs	
							70.3
							183.3
							215.9
10	MAC	68		GWS		7.8 ▽ Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	74.9
							115.8
							284.6
						10.0 Bottom of hole at 10.0 feet.	

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/7/25</u>	COMPLETED <u>4/7/25</u>	GROUND ELEVATION <u>---</u>	HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		 AT TIME OF DRILLING <u>5.00 ft / Elev 5.00 ft</u>	
LOGGED BY <u>Tony Guajardo</u>	CHECKED BY <u>Annie Ray</u>	AT END OF DRILLING <u>--</u>	
NOTES <u>TPH delineation soil boring</u>		AFTER DRILLING <u>--</u>	

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MAC	72	Soil sample 1.5-2.5 feet bgs			0.4 Topsoil	
						0.8 Yellow (10YR 7/6), gravel FILL	0.00
5	MAC	72	Soil sample 1.5-2.5 feet bgs			Black (10YR 2/1), fine to medium sand FILL, dry, loose, some slag, cinders, and brick	0.00
						Petroleum odor after 1.5' bgs	25.6
						Transition to poorly graded, fine sand FILL and moist after 2' bgs	30.5
							71.0
							4.4
							4.6
10	MAC	44	Soil sample 6-7 feet bgs			 Saturated after 5' bgs	14.3
							18.2
						6.4 Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	71.8
							8.5
				GWS			
						10.0 Bottom of hole at 10.0 feet.	

CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/8/25</u>	COMPLETED <u>4/8/25</u>	GROUND ELEVATION <u>---</u>	HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		 AT TIME OF DRILLING <u>7.50 ft / Elev 7.50 ft</u>	
LOGGED BY <u>Tony Guajardo</u>	CHECKED BY <u>Annie Ray</u>	AT END OF DRILLING <u>--</u>	
NOTES <u>TPH delineation soil boring</u>		AFTER DRILLING <u>--</u>	

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	66	Soil sample 1.5-2.5 feet bgs			0.5 Topsoil	0.00
						Black (10YR 2/1), fine to medium sand FILL, some slag, cinder, gravel, brick, loose, moist, no odor	0.00
							0.00
							0.00
							0.00
							0.00
10	MAC	66	Soil sample 7-8 feet bgs			5.5 Very moist after 5' bgs	0.00
				CL		Gray (10YR 6/1), CLAY, very moist, low plasticity, stiff, petroleum odor after 5.5' bgs	0.00
						7.8  Saturated after 7.5' bgs	68.2
				GWS		Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	47.5
						10.0 Bottom of hole at 10.0 feet.	

CLIENT <u>City of South Beloit</u>	PROJECT NAME <u>Shirland Avenue</u>
PROJECT NUMBER <u>23-1845 PH05</u>	PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>
DATE STARTED <u>4/8/25</u> COMPLETED <u>4/8/25</u>	GROUND ELEVATION <u>---</u> HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Geoprobe 7822DT</u>	<u>▽</u> AT TIME OF DRILLING <u>7.80 ft / Elev 7.80 ft</u>
LOGGED BY <u>Tony Guajardo</u> CHECKED BY <u>Annie Ray</u>	AT END OF DRILLING <u>--</u>
NOTES <u>TPH delineation soil boring</u>	AFTER DRILLING <u>--</u>

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	70	Soil sample 1.5-2.5 feet bgs		0.4	Topsoil	
						Black (10YR 2/1), fine to medium sand FILL, dry, loose, some slag, cinders, and brick, no odor	0.00
							0.00
							0.00
						Transition to poorly graded, fine sand FILL and color change to very pale brown (10YR 8/2) after 2.6' bgs	0.00
							0.00
							0.00
10	MAC	70	Soil sample 7-8 feet bgs		5.6	Gray (10YR 6/1), CLAY, very moist, low plasticity, stiff, petroleum odor	0.00
				CL			34.2
					7.8 ▽	Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	97.1
				GWS			61.1
					10.0		105.5
						Bottom of hole at 10.0 feet.	119.3

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CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/8/25</u>	COMPLETED <u>4/8/25</u>	GROUND ELEVATION <u>---</u>	HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		 AT TIME OF DRILLING <u>7.00 ft / Elev 7.00 ft</u>	
LOGGED BY <u>Tony Guajardo</u>		CHECKED BY <u>Annie Ray</u>	
NOTES <u>TPH delineation soil boring</u>		AT END OF DRILLING <u>--</u>	
		AFTER DRILLING <u>--</u>	

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	60	Soil sample 1.5-2.5 feet bgs (DUP-TPH)			0.3 Yellow (10YR 7/6), gravel FILL	0.00
						Black (10YR 2/1), fine to medium sand FILL, dry, loose, some slag, cinders, and brick, no odor	0.00
							0.00
							0.00
							0.00
							0.00
10	MAC	52	Soil sample 5.5-6.5 feet bgs	CL		4.0 Gray (10YR 6/1), CLAY, very moist, low plasticity, stiff, petroleum odor	
							8.0
							133.6
							60.3
10	MAC	52		GWS		7.0  Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	37.5
							5.6
						10.0 Bottom of hole at 10.0 feet.	

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

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BORING NUMBER SB-57

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CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/8/25</u>	COMPLETED <u>4/8/25</u>	GROUND ELEVATION <u>---</u>	HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		▽ AT TIME OF DRILLING <u>6.20 ft / Elev 6.20 ft</u> AT END OF DRILLING <u>--</u> AFTER DRILLING <u>--</u>	
LOGGED BY <u>Tony Guajardo</u>		CHECKED BY <u>Annie Ray</u>	
NOTES <u>TPH delineation soil boring</u>			

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	66	Soil sample 2-3 feet bgs			0.2 Topsoil	0.00
						0.7 Yellow (10YR 7/6), gravel FILL	0.00
						Black (10YR 2/1), fine to medium sand FILL, dry, loose, some slag, cinders, and brick, no odor	0.00
							0.00
							2.8
10	MAC	56	Soil sample 6.5-7.5 feet bgs	CL		4.2 Gray (10YR 6/1), CLAY, very moist, low plasticity, stiff, petroleum odor	0.00
							3.9
						6.2 ▽ Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	23.5
							101.7
							108.0
10				GWS			87.5
						10.0 Bottom of hole at 10.0 feet.	

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

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CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/8/25</u>	COMPLETED <u>4/8/25</u>	GROUND ELEVATION <u>---</u>	HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		▽ AT TIME OF DRILLING <u>6.30 ft / Elev 6.30 ft</u>	
LOGGED BY <u>Tony Guajardo</u>	CHECKED BY <u>Annie Ray</u>	AT END OF DRILLING <u>--</u>	
NOTES <u>TPH delineation soil boring</u>		AFTER DRILLING <u>--</u>	

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	62	Soil sample 1.5-2.5 feet bgs (MS/MSD)		0.5	Topsoil	0.00
					1.3	Yellow (10YR 7/6), gravel FILL	0.00
						Black (10YR 2/1), fine to medium sand FILL, dry, loose, some gravel, slag, cinders, and brick, no odor	0.00
							0.00
							0.00
10	MAC	58	Soil sample 6-7 feet bgs		5.8		0.00
				CL	6.3	▽ Gray (10YR 6/1), CLAY, very moist, low plasticity, stiff, petroleum odor	34.2
						Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	23.2
				GWS			52.9
					10.0		12.5
Bottom of hole at 10.0 feet.							

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/7/25</u> COMPLETED <u>4/7/25</u>		GROUND ELEVATION <u>---</u> HOLE SIZE <u>2"</u>	
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		▽ AT TIME OF DRILLING <u>6.90 ft / Elev 6.90 ft</u>	
LOGGED BY <u>Tony Guajardo</u> CHECKED BY <u>Annie Ray</u>		AT END OF DRILLING <u>--</u>	
NOTES <u>TPH delineation soil boring</u>		AFTER DRILLING <u>--</u>	

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	50	Soil sample 1.5-2.5 feet bgs			0.3 Topsoil	
						0.6 Yellow (10YR 7/6), gravel FILL	0.00
						Black (10YR 2/1), fine to medium sand FILL, dry, loose, some gravel, slag, cinders, and brick, no odor	0.00
							0.00
							0.00
5	MAC	54	Soil sample 6.5-7.5 feet bgs	CL		Gray (10YR 6/1), CLAY, very moist, low plasticity, stiff, petroleum odor	
							0.00
							0.00
10	MAC	54		GWS		6.9 ▽ Gray (10YR 6/1), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	10.8
							43.5
						10.0 Bottom of hole at 10.0 feet.	3.5

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ENGINEERING & ENVIRONMENTAL

BORING NUMBER SB-60

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CLIENT <u>City of South Beloit</u>		PROJECT NAME <u>Shirland Avenue</u>	
PROJECT NUMBER <u>23-1845 PH05</u>		PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>	
DATE STARTED <u>4/7/25</u>	COMPLETED <u>4/7/25</u>	GROUND ELEVATION <u>---</u>	HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>		GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe 7822DT</u>		▽ AT TIME OF DRILLING <u>7.70 ft / Elev 7.70 ft</u>	
LOGGED BY <u>Tony Guajardo</u>		CHECKED BY <u>Annie Ray</u>	
NOTES <u>TPH delineation soil boring</u>		AT END OF DRILLING <u>--</u>	
		AFTER DRILLING <u>--</u>	

GENERAL BH / TP / WELL 23-1845 PH05 SHIRLAND AVE APRIL 2025 BORING LOGS.GPJ GINT US.GDT 5/22/25

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	66	Soil sample 1.5-2.5 feet bgs			0.3 Topsoil	0.00
						Black (10YR 2/1) to dark yellowish brown (10YR 4/4), well graded sand FILL, some gravel, glass, brick, dry, loose	0.00
							0.00
							0.00
							0.00
							0.00
10	MAC	74	Soil sample 5-6 feet bgs	CL		4.1 Dark yellowish brown (10YR 4/4), CLAY, soft, saturated, low plasticity	0.00
							0.00
							0.00
							0.00
							0.00
							0.00
10				GWS		7.7 ▽ Yellow (10YR 7/6), well graded SANDY GRAVEL, fine to coarse sand, medium subangular gravel, loose, saturated, petroleum odor	0.00
						10.0 Bottom of hole at 10.0 feet.	0.00

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ENGINEERING & ENVIRONMENTAL

BORING NUMBER TRSB-01

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CLIENT <u>City of South Beloit</u>	PROJECT NAME <u>Shirland Avenue</u>
PROJECT NUMBER <u>23-1845 PH05</u>	PROJECT LOCATION <u>126 Shirland Ave, South Beloit, Illinois</u>
DATE STARTED <u>4/7/25</u> COMPLETED <u>4/7/25</u>	GROUND ELEVATION <u>---</u> HOLE SIZE <u>2"</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Geoprobe 7822DT</u>	AT TIME OF DRILLING <u>--</u>
LOGGED BY <u>Tony Guajardo</u> CHECKED BY <u>Annie Ray</u>	AT END OF DRILLING <u>--</u>
NOTES <u>Treatability soil boring</u>	AFTER DRILLING <u>--</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
5	MAC	70	Treatability soil sample 1.5-3.5 ft bgs	0.1 0.7 5.0	Topsoil Light gray (10YR 7/2), dry, loose, gravel FILL Black (10YR 2/1), well graded, fine to medium sand FILL trace gravel, slag, cinder, loose, moist, petroleum odor	0.00 0.8 8.7 10.9 10.9 51.9
					Bottom of hole at 5.0 feet.	

Appendix B

Laboratory Analytical Reports



April 15, 2025

Tony Guajardo
Fehr Graham
200 Prairie Street
Suite 208
Rockford, IL 61107

RE: Project: 23-1845 Shirland
Pace Project No.: 40293253

Dear Tony Guajardo:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 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,

A handwritten signature in cursive script that reads "Christopher Hyska".

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 23-1845 Shirland

Pace Project No.: 40293253

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: 23-1845 Shirland

Pace Project No.: 40293253

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40293253001	SB-12RR(2-3)	Solid	04/07/25 08:50	04/08/25 09:40
40293253002	SB-24R(1-2)	Solid	04/07/25 08:30	04/08/25 09:40
40293253003	SB-34R(1-2)	Solid	04/07/25 08:20	04/08/25 09:40
40293253004	SB-31R(1-2)	Solid	04/07/25 08:10	04/08/25 09:40
40293253005	DUP-CR	Solid	04/07/25 08:15	04/08/25 09:40

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SAMPLE ANALYTE COUNT

Project: 23-1845 Shirland

Pace Project No.: 40293253

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40293253001	SB-12RR(2-3)	EPA 6010D	SIS	1
		EPA 6020B	KXS	1
		ASTM D2974-87	MJV	1
		EPA 9045	HML	1
40293253002	SB-24R(1-2)	EPA 6010D	SIS	1
		EPA 6020B	KXS	1
		ASTM D2974-87	MJV	1
		EPA 9045	HML	1
40293253003	SB-34R(1-2)	EPA 6010D	SIS	1
		EPA 6020B	KXS	1
		ASTM D2974-87	MJV	1
		EPA 9045	HML	1
40293253004	SB-31R(1-2)	EPA 6010D	SIS	1
		EPA 6020B	KXS	1
		ASTM D2974-87	MJV	1
		EPA 9045	HML	1
40293253005	DUP-CR	EPA 6010D	SIS	1
		EPA 6020B	KXS	1
		ASTM D2974-87	MJV	1
		EPA 9045	HML	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 23-1845 Shirland

Pace Project No.: 40293253

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40293253001	SB-12RR(2-3)					
EPA 6010D	Chromium	0.0051J	mg/L	0.010	04/10/25 16:48	
EPA 6020B	Chromium	32.8	mg/kg	3.3	04/10/25 02:05	
ASTM D2974-87	Percent Moisture	8.6	%	0.10	04/08/25 17:33	
EPA 9045	pH at 25 Degrees C	8.18	Std. Units	0.100	04/09/25 16:26	H6
40293253002	SB-24R(1-2)					
EPA 6010D	Chromium	0.0045J	mg/L	0.010	04/10/25 16:50	
EPA 6020B	Chromium	14.9	mg/kg	3.4	04/10/25 02:10	
ASTM D2974-87	Percent Moisture	11.9	%	0.10	04/08/25 17:34	
EPA 9045	pH at 25 Degrees C	8.41	Std. Units	0.100	04/09/25 16:28	H6
40293253003	SB-34R(1-2)					
EPA 6010D	Chromium	0.0063J	mg/L	0.010	04/10/25 16:56	
EPA 6020B	Chromium	17.1	mg/kg	3.2	04/10/25 02:23	
ASTM D2974-87	Percent Moisture	9.4	%	0.10	04/08/25 17:35	
EPA 9045	pH at 25 Degrees C	8.24	Std. Units	0.100	04/09/25 16:30	H6
40293253004	SB-31R(1-2)					
EPA 6010D	Chromium	0.0036J	mg/L	0.010	04/10/25 16:58	
EPA 6020B	Chromium	37.5	mg/kg	3.2	04/10/25 02:28	
ASTM D2974-87	Percent Moisture	13.2	%	0.10	04/08/25 17:36	
EPA 9045	pH at 25 Degrees C	8.41	Std. Units	0.100	04/09/25 16:31	H6
40293253005	DUP-CR					
EPA 6010D	Chromium	0.0031J	mg/L	0.010	04/10/25 17:00	
EPA 6020B	Chromium	25.0	mg/kg	3.4	04/10/25 02:32	
ASTM D2974-87	Percent Moisture	13.4	%	0.10	04/08/25 17:36	
EPA 9045	pH at 25 Degrees C	8.45	Std. Units	0.100	04/09/25 16:35	H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293253

Sample: SB-12RR(2-3) Lab ID: 40293253001 Collected: 04/07/25 08:50 Received: 04/08/25 09:40 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
6010D MET ICP, SPLP									
Analytical Method: EPA 6010D Preparation Method: EPA 3015A									
Leachate Method/Date: EPA 1312; 04/09/25 15:12									
Pace Analytical Services - Green Bay									
Chromium	0.0051J	mg/L	0.010	0.0025	1	04/10/25 12:03	04/10/25 16:48	7440-47-3	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Chromium	32.8	mg/kg	3.3	0.98	10	04/09/25 05:57	04/10/25 02:05	7440-47-3	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	8.6	%	0.10	0.10	1		04/08/25 17:33		
9045 pH Soil									
Analytical Method: EPA 9045									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.18	Std. Units	0.100	0.0100	1		04/09/25 16:26		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293253

Sample: SB-24R(1-2) Lab ID: 40293253002 Collected: 04/07/25 08:30 Received: 04/08/25 09:40 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
6010D MET ICP, SPLP									
Analytical Method: EPA 6010D Preparation Method: EPA 3015A									
Leachate Method/Date: EPA 1312; 04/09/25 15:12									
Pace Analytical Services - Green Bay									
Chromium	0.0045J	mg/L	0.010	0.0025	1	04/10/25 12:03	04/10/25 16:50	7440-47-3	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Chromium	14.9	mg/kg	3.4	1.0	10	04/09/25 05:57	04/10/25 02:10	7440-47-3	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	11.9	%	0.10	0.10	1		04/08/25 17:34		
9045 pH Soil									
Analytical Method: EPA 9045									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.41	Std. Units	0.100	0.0100	1		04/09/25 16:28		H6

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293253

Sample: **SB-34R(1-2)** Lab ID: **40293253003** Collected: 04/07/25 08:20 Received: 04/08/25 09:40 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
6010D MET ICP, SPLP									
Analytical Method: EPA 6010D Preparation Method: EPA 3015A									
Leachate Method/Date: EPA 1312; 04/09/25 15:12									
Pace Analytical Services - Green Bay									
Chromium	0.0063J	mg/L	0.010	0.0025	1	04/10/25 12:03	04/10/25 16:56	7440-47-3	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Chromium	17.1	mg/kg	3.2	0.95	10	04/09/25 05:57	04/10/25 02:23	7440-47-3	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	9.4	%	0.10	0.10	1		04/08/25 17:35		
9045 pH Soil									
Analytical Method: EPA 9045									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.24	Std. Units	0.100	0.0100	1		04/09/25 16:30		H6

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293253

Sample: **SB-31R(1-2)** Lab ID: **40293253004** Collected: 04/07/25 08:10 Received: 04/08/25 09:40 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
6010D MET ICP, SPLP									
Analytical Method: EPA 6010D Preparation Method: EPA 3015A									
Leachate Method/Date: EPA 1312; 04/09/25 15:12									
Pace Analytical Services - Green Bay									
Chromium	0.0036J	mg/L	0.010	0.0025	1	04/10/25 12:03	04/10/25 16:58	7440-47-3	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Chromium	37.5	mg/kg	3.2	0.96	10	04/09/25 05:57	04/10/25 02:28	7440-47-3	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	13.2	%	0.10	0.10	1		04/08/25 17:36		
9045 pH Soil									
Analytical Method: EPA 9045									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.41	Std. Units	0.100	0.0100	1		04/09/25 16:31		H6

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293253

Sample: DUP-CR Lab ID: 40293253005 Collected: 04/07/25 08:15 Received: 04/08/25 09:40 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
6010D MET ICP, SPLP									
Analytical Method: EPA 6010D Preparation Method: EPA 3015A									
Leachate Method/Date: EPA 1312; 04/09/25 15:12									
Pace Analytical Services - Green Bay									
Chromium	0.0031J	mg/L	0.010	0.0025	1	04/10/25 12:03	04/10/25 17:00	7440-47-3	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Chromium	25.0	mg/kg	3.4	1.0	10	04/09/25 05:57	04/10/25 02:32	7440-47-3	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	13.4	%	0.10	0.10	1		04/08/25 17:36		
9045 pH Soil									
Analytical Method: EPA 9045									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.45	Std. Units	0.100	0.0100	1		04/09/25 16:35		H6

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QUALITY CONTROL DATA

Project: 23-1845 Shirland

Pace Project No.: 40293253

QC Batch:	501663	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3015A	Analysis Description:	6010D MET SPLP
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40293253001, 40293253002, 40293253003, 40293253004, 40293253005

METHOD BLANK: 2864475 Matrix: Water
Associated Lab Samples: 40293253001, 40293253002, 40293253003, 40293253004, 40293253005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chromium	mg/L	<0.0025	0.010	0.0025	04/10/25 16:32	

METHOD BLANK: 2863842 Matrix: Solid
Associated Lab Samples: 40293253001, 40293253002, 40293253003, 40293253004, 40293253005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chromium	mg/L	<0.0025	0.010	0.0025	04/10/25 17:06	

LABORATORY CONTROL SAMPLE: 2864476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/L	0.28	0.27	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2864477 2864478

Parameter	Units	40292869011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/L	0.011	0.28	0.28	0.29	0.28	99	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: 23-1845 Shirland

Pace Project No.: 40293253

QC Batch: 501488

Analysis Method: EPA 6020B

QC Batch Method: EPA 3050B

Analysis Description: 6020B MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40293253001, 40293253002, 40293253003, 40293253004, 40293253005

METHOD BLANK: 2863549

Matrix: Solid

Associated Lab Samples: 40293253001, 40293253002, 40293253003, 40293253004, 40293253005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chromium	mg/kg	<0.091	0.30	0.091	04/10/25 01:29	

LABORATORY CONTROL SAMPLE: 2863550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	25	25.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863551 2863552

Parameter	Units	40293262001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/kg	33.2	30.9	30.9	77.7	76.1	144	139	75-125	2	20	M0

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QUALITY CONTROL DATA

Project: 23-1845 Shirland
Pace Project No.: 40293253

QC Batch:	501482	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40293253001, 40293253002, 40293253003, 40293253004, 40293253005		

SAMPLE DUPLICATE: 2863497

Parameter	Units	40293242002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.0	7.1	2	10	

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REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: 23-1845 Shirland

Pace Project No.: 40293253

QC Batch: 501543

Analysis Method: EPA 9045

QC Batch Method: EPA 9045

Analysis Description: 9045 pH

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40293253001, 40293253002, 40293253003, 40293253004, 40293253005

SAMPLE DUPLICATE: 2863727

Parameter	Units	40293170004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.25	8.32	1	5	H6

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QUALIFIERS

Project: 23-1845 Shirland
Pace Project No.: 40293253

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

H6 Analysis initiated outside of the 15 minute EPA required holding time.
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 23-1845 Shirland
Pace Project No.: 40293253

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40293253001	SB-12RR(2-3)	EPA 3015A	501663	EPA 6010D	501706
40293253002	SB-24R(1-2)	EPA 3015A	501663	EPA 6010D	501706
40293253003	SB-34R(1-2)	EPA 3015A	501663	EPA 6010D	501706
40293253004	SB-31R(1-2)	EPA 3015A	501663	EPA 6010D	501706
40293253005	DUP-CR	EPA 3015A	501663	EPA 6010D	501706
40293253001	SB-12RR(2-3)	EPA 3050B	501488	EPA 6020B	501555
40293253002	SB-24R(1-2)	EPA 3050B	501488	EPA 6020B	501555
40293253003	SB-34R(1-2)	EPA 3050B	501488	EPA 6020B	501555
40293253004	SB-31R(1-2)	EPA 3050B	501488	EPA 6020B	501555
40293253005	DUP-CR	EPA 3050B	501488	EPA 6020B	501555
40293253001	SB-12RR(2-3)	ASTM D2974-87	501482		
40293253002	SB-24R(1-2)	ASTM D2974-87	501482		
40293253003	SB-34R(1-2)	ASTM D2974-87	501482		
40293253004	SB-31R(1-2)	ASTM D2974-87	501482		
40293253005	DUP-CR	ASTM D2974-87	501482		
40293253001	SB-12RR(2-3)	EPA 9045	501543		
40293253002	SB-24R(1-2)	EPA 9045	501543		
40293253003	SB-34R(1-2)	EPA 9045	501543		
40293253004	SB-31R(1-2)	EPA 9045	501543		
40293253005	DUP-CR	EPA 9045	501543		

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Effective Date: 8/16/2022

Client Name:

Fehr Graham Rockford, IL

Sample Preservation Receipt Form

Project #

40293253

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: 8/16/2022

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							
001																																2.5 / 5
002																																2.5 / 5
003																																2.5 / 5
004																																2.5 / 5
005																																2.5 / 5
006																																2.5 / 5
007																																2.5 / 5
008																																2.5 / 5
009																																2.5 / 5
010																																2.5 / 5
011																																2.5 / 5
012																																2.5 / 5
013																																2.5 / 5
014																																2.5 / 5
015																																2.5 / 5
016																																2.5 / 5
017																																2.5 / 5
018																																2.5 / 5
019																																2.5 / 5
020																																2.5 / 5

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (>6mm) : ☐ Yes ☐ No ☒ N/A

*If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Page 1 of 2

Effective Date: 3/3/2025

Sample Condition Upon Receipt Form (SCUR)

Client Name: Fehr, Graham - Rockford, IL Project #:Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Purple Mountain☐ Client ☐ Pace Other:Tracking #: 724102984926Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ noCustody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ noPacking Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ OtherThermometer Used SR - 145 Type of Ice: Wet Blue Dry None ☐ Meltwater OnlyCooler Temperature Uncorr: 0.5 /Corr: 0.0Temp Blank Present: ☒ yes ☐ noBiological 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: 04/08/2025 Initials: MBLabeled By Initials: MBChain 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/ACorrect Containers Used: ☒ Yes ☐ No 9.Correct Type: Pace Green Bag, Pace IR, Non-PaceContainers 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: STrip 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



April 17, 2025

Tony Guajardo
Fehr Graham
200 Prairie Street
Suite 208
Rockford, IL 61107

RE: Project: 23-1845 Shirland
Pace Project No.: 40293258

Dear Tony Guajardo:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 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

Revised report per client request to add TCLP Pb to DUP-PB. This replaces the original dated 4/14/25. CDH 4/17/25

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

Sincerely,

A handwritten signature in cursive script that reads "Christopher Hyska".

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 23-1845 Shirland

Pace Project No.: 40293258

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: 23-1845 Shirland

Pace Project No.: 40293258

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40293258001	SB-40(2-3)	Solid	04/07/25 10:00	04/08/25 09:40
40293258002	SB-41(2-3)	Solid	04/07/25 10:15	04/08/25 09:40
40293258003	DUP-PB	Solid	04/07/25 10:20	04/08/25 09:40
40293258004	SB-42(2-3)	Solid	04/07/25 09:50	04/08/25 09:40
40293258005	SB-43(2-3)	Solid	04/07/25 10:10	04/08/25 09:40

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SAMPLE ANALYTE COUNT

Project: 23-1845 Shirland

Pace Project No.: 40293258

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40293258001	SB-40(2-3)	EPA 6020B	KXS	1
		ASTM D2974-87	MJV	1
		EPA 9045	HML	1
40293258002	SB-41(2-3)	EPA 6020B	KXS	1
		ASTM D2974-87	MJV	1
		EPA 9045	HML	1
40293258003	DUP-PB	EPA 6010D	SIS	1
		EPA 6020B	KXS	1
		ASTM D2974-87	MJV	1
		EPA 9045	HML	1
40293258004	SB-42(2-3)	EPA 6020B	KXS	1
		ASTM D2974-87	MJV	1
		EPA 9045	HML	1
40293258005	SB-43(2-3)	EPA 6020B	KXS	1
		ASTM D2974-87	MJV	1
		EPA 9045	HML	1

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 23-1845 Shirland

Pace Project No.: 40293258

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40293258001	SB-40(2-3)					
EPA 6020B	Lead	16.2	mg/kg	1.1	04/10/25 00:58	
ASTM D2974-87	Percent Moisture	15.8	%	0.10	04/08/25 17:37	
EPA 9045	pH at 25 Degrees C	7.55	Std. Units	0.100	04/10/25 15:16	H6
40293258002	SB-41(2-3)					
EPA 6020B	Lead	1210	mg/kg	1.1	04/10/25 01:02	
ASTM D2974-87	Percent Moisture	9.3	%	0.10	04/08/25 17:38	
EPA 9045	pH at 25 Degrees C	7.69	Std. Units	0.100	04/10/25 15:17	H6
40293258003	DUP-PB					
EPA 6010D	Lead	0.32	mg/L	0.020	04/17/25 14:20	
EPA 6020B	Lead	1370	mg/kg	1.0	04/10/25 01:07	
ASTM D2974-87	Percent Moisture	9.6	%	0.10	04/08/25 17:39	
EPA 9045	pH at 25 Degrees C	7.65	Std. Units	0.100	04/10/25 15:18	H6
40293258004	SB-42(2-3)					
EPA 6020B	Lead	20.9	mg/kg	0.97	04/10/25 01:11	
ASTM D2974-87	Percent Moisture	6.9	%	0.10	04/08/25 17:40	
EPA 9045	pH at 25 Degrees C	7.87	Std. Units	0.100	04/10/25 15:20	H6
40293258005	SB-43(2-3)					
EPA 6020B	Lead	76.8	mg/kg	1.1	04/10/25 01:16	
ASTM D2974-87	Percent Moisture	11.9	%	0.10	04/08/25 17:41	
EPA 9045	pH at 25 Degrees C	7.92	Std. Units	0.100	04/10/25 15:26	H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293258

Sample: SB-40(2-3) Lab ID: 40293258001 Collected: 04/07/25 10:00 Received: 04/08/25 09:40 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
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3050B Pace Analytical Services - Green Bay									
Lead	16.2	mg/kg	1.1	0.29	10	04/09/25 07:44	04/10/25 00:58	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	15.8	%	0.10	0.10	1		04/08/25 17:37		
9045 pH Soil									
Analytical Method: EPA 9045 Pace Analytical Services - Green Bay									
pH at 25 Degrees C	7.55	Std. Units	0.100	0.0100	1		04/10/25 15:16		H6

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293258

Sample: SB-41(2-3) Lab ID: 40293258002 Collected: 04/07/25 10:15 Received: 04/08/25 09:40 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
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3050B Pace Analytical Services - Green Bay									
Lead	1210	mg/kg	1.1	0.29	10	04/09/25 07:44	04/10/25 01:02	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	9.3	%	0.10	0.10	1		04/08/25 17:38		
9045 pH Soil									
Analytical Method: EPA 9045 Pace Analytical Services - Green Bay									
pH at 25 Degrees C	7.69	Std. Units	0.100	0.0100	1		04/10/25 15:17		H6

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293258

Sample: DUP-PB Lab ID: 40293258003 Collected: 04/07/25 10:20 Received: 04/08/25 09:40 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
6010D MET ICP, TCLP									
Analytical Method: EPA 6010D Preparation Method: EPA 3015A									
Leachate Method/Date: EPA 1311; 04/16/25 15:14									
Pace Analytical Services - Green Bay									
Lead	0.32	mg/L	0.020	0.0059	1	04/17/25 11:52	04/17/25 14:20	7439-92-1	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Lead	1370	mg/kg	1.0	0.28	10	04/09/25 07:44	04/10/25 01:07	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	9.6	%	0.10	0.10	1		04/08/25 17:39		
9045 pH Soil									
Analytical Method: EPA 9045									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	7.65	Std. Units	0.100	0.0100	1		04/10/25 15:18		H6

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293258

Sample: SB-42(2-3) Lab ID: 40293258004 Collected: 04/07/25 09:50 Received: 04/08/25 09:40 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
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Lead	20.9	mg/kg	0.97	0.26	10	04/09/25 07:44	04/10/25 01:11	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	6.9	%	0.10	0.10	1		04/08/25 17:40		
9045 pH Soil									
Analytical Method: EPA 9045									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	7.87	Std. Units	0.100	0.0100	1		04/10/25 15:20		H6

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293258

Sample: SB-43(2-3) Lab ID: 40293258005 Collected: 04/07/25 10:10 Received: 04/08/25 09:40 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
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3050B Pace Analytical Services - Green Bay									
Lead	76.8	mg/kg	1.1	0.30	10	04/09/25 07:44	04/10/25 01:16	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	11.9	%	0.10	0.10	1		04/08/25 17:41		
9045 pH Soil									
Analytical Method: EPA 9045 Pace Analytical Services - Green Bay									
pH at 25 Degrees C	7.92	Std. Units	0.100	0.0100	1		04/10/25 15:26		H6

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QUALITY CONTROL DATA

Project: 23-1845 Shirland
Pace Project No.: 40293258

QC Batch:	502248	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3015A	Analysis Description:	6010D MET TCLP
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40293258003

METHOD BLANK: 2867510 Matrix: Water

Associated Lab Samples: 40293258003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/L	<0.0059	0.020	0.0059	04/17/25 13:55	

METHOD BLANK: 2866966 Matrix: Solid

Associated Lab Samples: 40293258003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/L	<0.0059	0.020	0.0059	04/17/25 14:29	

LABORATORY CONTROL SAMPLE: 2867511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	0.28	0.27	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2867512 2867513

Parameter	Units	40291603004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/L	0.30	0.28	0.28	0.57	0.57	96	97	75-125	0	20	

MATRIX SPIKE SAMPLE: 2867514

Parameter	Units	20351047001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	ND	0.28	0.27	98	75-125	

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QUALITY CONTROL DATA

Project: 23-1845 Shirland

Pace Project No.: 40293258

QC Batch: 501503

Analysis Method: EPA 6020B

QC Batch Method: EPA 3050B

Analysis Description: 6020B MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40293258001, 40293258002, 40293258003, 40293258004, 40293258005

METHOD BLANK: 2863602

Matrix: Solid

Associated Lab Samples: 40293258001, 40293258002, 40293258003, 40293258004, 40293258005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.027	0.10	0.027	04/09/25 23:46	

LABORATORY CONTROL SAMPLE: 2863603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	25	24.8	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2863604 2863605

Parameter	Units	40293268003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	15.1	31.7	31.8	50.5	47.7	111	102	75-125	6	20	

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QUALITY CONTROL DATA

Project: 23-1845 Shirland

Pace Project No.: 40293258

QC Batch: 501482

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40293258001, 40293258002, 40293258003, 40293258004, 40293258005

SAMPLE DUPLICATE: 2863497

Parameter	Units	40293242002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.0	7.1	2	10	

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QUALITY CONTROL DATA

Project: 23-1845 Shirland

Pace Project No.: 40293258

QC Batch: 501633

Analysis Method: EPA 9045

QC Batch Method: EPA 9045

Analysis Description: 9045 pH

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40293258001, 40293258002, 40293258003, 40293258004, 40293258005

SAMPLE DUPLICATE: 2864347

Parameter	Units	40293158001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.40	8.40	0	5	H6

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QUALIFIERS

Project: 23-1845 Shirland
Pace Project No.: 40293258

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

H6 Analysis initiated outside of the 15 minute EPA required holding time.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 23-1845 Shirland

Pace Project No.: 40293258

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40293258003	DUP-PB	EPA 3015A	502248	EPA 6010D	502289
40293258001	SB-40(2-3)	EPA 3050B	501503	EPA 6020B	501580
40293258002	SB-41(2-3)	EPA 3050B	501503	EPA 6020B	501580
40293258003	DUP-PB	EPA 3050B	501503	EPA 6020B	501580
40293258004	SB-42(2-3)	EPA 3050B	501503	EPA 6020B	501580
40293258005	SB-43(2-3)	EPA 3050B	501503	EPA 6020B	501580
40293258001	SB-40(2-3)	ASTM D2974-87	501482		
40293258002	SB-41(2-3)	ASTM D2974-87	501482		
40293258003	DUP-PB	ASTM D2974-87	501482		
40293258004	SB-42(2-3)	ASTM D2974-87	501482		
40293258005	SB-43(2-3)	ASTM D2974-87	501482		
40293258001	SB-40(2-3)	EPA 9045	501633		
40293258002	SB-41(2-3)	EPA 9045	501633		
40293258003	DUP-PB	EPA 9045	501633		
40293258004	SB-42(2-3)	EPA 9045	501633		
40293258005	SB-43(2-3)	EPA 9045	501633		

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Effective Date: 8/16/2022

Client Name: Fehr Graham Rockford, IL

Sample Preservation Receipt Form

Project #

40293258

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: MS Date/Time:

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	JG9U	JG9U	WG9U	WPFU	SP5T	ZPLC								GN 1
001																																	2.5 / 5
002																																	2.5 / 5
003																																	2.5 / 5
004																																	2.5 / 5
005																																	2.5 / 5
006																																	2.5 / 5
007																																	2.5 / 5
008																																	2.5 / 5
009																																	2.5 / 5
010																																	2.5 / 5
011																																	2.5 / 5
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013																																	2.5 / 5
014																																	2.5 / 5
015																																	2.5 / 5
016																																	2.5 / 5
017																																	2.5 / 5
018																																	2.5 / 5
019																																	2.5 / 5
020																																	2.5 / 5

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A

*If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JG9U	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	WG9U	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)

Client Name: <u>Fehr, Graham - Rockford, IL</u>		Project #:	WO# : 40293258 40293258
Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Purple Mountain			
☐ Client ☐ Pace Other: _____			
Tracking #: <u>724102984926</u>			
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	<u>SR - 145</u>	Type of Ice: ☒ Wet ☐ Blue Dry None	☐ Meltwater Only
Cooler Temperature	Uncorr: <u>0.5</u> / Corr: <u>0.0</u>		
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: <u>04/18/2025</u> Initials: <u>MR</u>
			Labeled By Initials: <u>YR</u>
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: <u>Pace Green Bay</u> , 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: <u>S</u>		
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



April 15, 2025

Tony Guajardo
Fehr Graham
200 Prairie Street
Suite 208
Rockford, IL 61107

RE: Project: 23-1845 Shirland
Pace Project No.: 40293261

Dear Tony Guajardo:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 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,

A handwritten signature in cursive script that reads "Christopher Hyska".

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 23-1845 Shirland

Pace Project No.: 40293261

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: 23-1845 Shirland

Pace Project No.: 40293261

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40293261001	SB-47(1.5-2.5)	Solid	04/07/25 15:15	04/08/25 09:40
40293261002	SB-47(7-8)	Solid	04/07/25 15:20	04/08/25 09:40
40293261003	SB-46(1.5-2.5)	Solid	04/07/25 15:00	04/08/25 09:40
40293261004	SB-46(7-8)	Solid	04/07/25 15:05	04/08/25 09:40
40293261005	SB-43(1.5-2.5)	Solid	04/07/25 14:40	04/08/25 09:40
40293261006	SB-43(5.5-6.5)	Solid	04/07/25 14:45	04/08/25 09:40
40293261007	SB-42(7-7.7)	Solid	04/07/25 14:20	04/08/25 09:40
40293261008	SB-45(2-3)	Solid	04/07/25 13:50	04/08/25 09:40
40293261009	SB-45(5.5-6.5)	Solid	04/07/25 13:55	04/08/25 09:40
40293261010	SB-44(2-3)	Solid	04/07/25 13:30	04/08/25 09:40
40293261011	SB-44(6.5-7.5)	Solid	04/07/25 13:35	04/08/25 09:40
40293261012	SB-59(1.5-2.5)	Solid	04/07/25 13:10	04/08/25 09:40
40293261013	SB-59(6.5-7.5)	Solid	04/07/25 13:15	04/08/25 09:40
40293261014	SB-60(1.5-2.5)	Solid	04/07/25 12:50	04/08/25 09:40
40293261015	SB-60(5-6)	Solid	04/07/25 12:55	04/08/25 09:40
40293261016	SB-53(1.5-2.5)	Solid	04/07/25 12:25	04/08/25 09:40
40293261017	SB-53(6-7)	Solid	04/07/25 12:30	04/08/25 09:40
40293261018	SB-39(2-3)	Solid	04/07/25 12:05	04/08/25 09:40
40293261019	SB-39(6-7)	Solid	04/07/25 12:10	04/08/25 09:40
40293261020	SB-40(1.5-2.5)	Solid	04/07/25 11:45	04/08/25 09:40
40293261021	SB-40(6-7)	Solid	04/07/25 11:50	04/08/25 09:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 23-1845 Shirland
Pace Project No.: 40293261

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40293261001	SB-47(1.5-2.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293261002	SB-47(7-8)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293261003	SB-46(1.5-2.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293261004	SB-46(7-8)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293261005	SB-43(1.5-2.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293261006	SB-43(5.5-6.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293261007	SB-42(7-7.7)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293261008	SB-45(2-3)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293261009	SB-45(5.5-6.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293261010	SB-44(2-3)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293261011	SB-44(6.5-7.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293261012	SB-59(1.5-2.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293261013	SB-59(6.5-7.5)	EPA 8015C Modified	MRN	3

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 23-1845 Shirland

Pace Project No.: 40293261

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40293261014	SB-60(1.5-2.5)	EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
40293261015	SB-60(5-6)	ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293261016	SB-53(1.5-2.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	ALD	2
		ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
40293261017	SB-53(6-7)	EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
40293261018	SB-39(2-3)	ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293261019	SB-39(6-7)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
40293261020	SB-40(1.5-2.5)	EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
		EPA 8015C Modified	ALD	2
40293261021	SB-40(6-7)	ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
		EPA 8015C Modified	ALD	2
		ASTM D2974-87	YXH	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 23-1845 Shirland

Pace Project No.: 40293261

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40293261001	SB-47(1.5-2.5)					
EPA 8015C Modified	TPH (C28-C36)	6680	mg/kg	883	04/14/25 09:54	
EPA 8015C Modified	TPH - Diesel (C10-C28)	12400	mg/kg	883	04/14/25 09:54	
EPA 8015C Modified	TPH (C06-C10)	450	mg/kg	140	04/09/25 21:28	
ASTM D2974-87	Percent Moisture	5.5	%	0.10	04/10/25 13:49	
40293261002	SB-47(7-8)					
EPA 8015C Modified	TPH (C28-C36)	2250	mg/kg	357	04/14/25 07:33	
EPA 8015C Modified	TPH - Diesel (C10-C28)	6410	mg/kg	357	04/14/25 07:33	
EPA 8015C Modified	TPH (C06-C10)	1740	mg/kg	284	04/09/25 23:37	
ASTM D2974-87	Percent Moisture	6.4	%	0.10	04/10/25 13:49	
40293261003	SB-46(1.5-2.5)					
EPA 8015C Modified	TPH (C28-C36)	6170	mg/kg	904	04/14/25 07:41	
EPA 8015C Modified	TPH - Diesel (C10-C28)	13300	mg/kg	904	04/14/25 07:41	
EPA 8015C Modified	TPH (C06-C10)	608	mg/kg	93.4	04/09/25 22:45	
ASTM D2974-87	Percent Moisture	7.7	%	0.10	04/10/25 13:49	
40293261004	SB-46(7-8)					
EPA 8015C Modified	TPH (C28-C36)	4650	mg/kg	717	04/14/25 07:48	
EPA 8015C Modified	TPH - Diesel (C10-C28)	12900	mg/kg	717	04/14/25 07:48	
EPA 8015C Modified	TPH (C06-C10)	1220	mg/kg	459	04/09/25 19:44	
ASTM D2974-87	Percent Moisture	6.9	%	0.10	04/10/25 13:49	
40293261005	SB-43(1.5-2.5)					
EPA 8015C Modified	TPH (C28-C36)	943	mg/kg	189	04/14/25 07:56	
EPA 8015C Modified	TPH - Diesel (C10-C28)	1070	mg/kg	189	04/14/25 07:56	
EPA 8015C Modified	TPH (C06-C10)	17.1	mg/kg	15.1	04/09/25 17:35	
ASTM D2974-87	Percent Moisture	11.5	%	0.10	04/10/25 13:49	
40293261006	SB-43(5.5-6.5)					
EPA 8015C Modified	TPH (C28-C36)	2080	mg/kg	494	04/14/25 08:04	
EPA 8015C Modified	TPH - Diesel (C10-C28)	6230	mg/kg	494	04/14/25 08:04	
EPA 8015C Modified	TPH (C06-C10)	577	mg/kg	391	04/11/25 02:31	D3
ASTM D2974-87	Percent Moisture	32.3	%	0.10	04/10/25 13:49	
40293261007	SB-42(7-7.7)					
EPA 8015C Modified	TPH (C28-C36)	1400	mg/kg	222	04/14/25 08:12	
EPA 8015C Modified	TPH - Diesel (C10-C28)	4260	mg/kg	222	04/14/25 08:12	
EPA 8015C Modified	TPH (C06-C10)	990	mg/kg	416	04/09/25 22:20	
ASTM D2974-87	Percent Moisture	24.9	%	0.10	04/10/25 13:49	
40293261008	SB-45(2-3)					
EPA 8015C Modified	TPH (C28-C36)	5610	mg/kg	940	04/14/25 08:20	
EPA 8015C Modified	TPH - Diesel (C10-C28)	14600	mg/kg	940	04/14/25 08:20	
EPA 8015C Modified	TPH (C06-C10)	891	mg/kg	501	04/09/25 20:36	D3
ASTM D2974-87	Percent Moisture	11.2	%	0.10	04/10/25 13:49	
40293261009	SB-45(5.5-6.5)					
EPA 8015C Modified	TPH (C28-C36)	2310	mg/kg	459	04/14/25 08:27	
EPA 8015C Modified	TPH - Diesel (C10-C28)	8040	mg/kg	459	04/14/25 08:27	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 23-1845 Shirland

Pace Project No.: 40293261

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40293261009	SB-45(5.5-6.5)					
EPA 8015C Modified	TPH (C06-C10)	1140	mg/kg	700	04/09/25 21:02	D3
ASTM D2974-87	Percent Moisture	27.3	%	0.10	04/10/25 13:49	
40293261010	SB-44(2-3)					
EPA 8015C Modified	TPH (C28-C36)	7100	mg/kg	1570	04/14/25 10:02	
EPA 8015C Modified	TPH - Diesel (C10-C28)	14100	mg/kg	1570	04/14/25 10:02	
EPA 8015C Modified	TPH (C06-C10)	438	mg/kg	178	04/09/25 20:10	
ASTM D2974-87	Percent Moisture	14.7	%	0.10	04/10/25 13:49	
40293261011	SB-44(6.5-7.5)					
EPA 8015C Modified	TPH (C28-C36)	2890	mg/kg	468	04/14/25 08:43	
EPA 8015C Modified	TPH - Diesel (C10-C28)	8980	mg/kg	468	04/14/25 08:43	
EPA 8015C Modified	TPH (C06-C10)	1300	mg/kg	450	04/09/25 23:11	
ASTM D2974-87	Percent Moisture	28.6	%	0.10	04/10/25 13:49	
40293261012	SB-59(1.5-2.5)					
EPA 8015C Modified	TPH (C28-C36)	118	mg/kg	18.8	04/14/25 08:51	
EPA 8015C Modified	TPH - Diesel (C10-C28)	109	mg/kg	18.8	04/14/25 08:51	
ASTM D2974-87	Percent Moisture	11.2	%	0.10	04/10/25 13:49	
40293261013	SB-59(6.5-7.5)					
EPA 8015C Modified	TPH (C28-C36)	150	mg/kg	49.7	04/14/25 08:58	
EPA 8015C Modified	TPH - Diesel (C10-C28)	319	mg/kg	49.7	04/14/25 08:58	
EPA 8015C Modified	TPH (C06-C10)	47.7	mg/kg	19.8	04/09/25 18:01	
ASTM D2974-87	Percent Moisture	32.9	%	0.10	04/10/25 13:49	
40293261014	SB-60(1.5-2.5)					
EPA 8015C Modified	TPH (C28-C36)	223	mg/kg	83.9	04/14/25 09:06	
EPA 8015C Modified	TPH - Diesel (C10-C28)	496	mg/kg	83.9	04/14/25 09:06	
ASTM D2974-87	Percent Moisture	20.4	%	0.10	04/10/25 13:49	
40293261015	SB-60(5-6)					
EPA 8015C Modified	TPH (C28-C36)	18.2	mg/kg	2.4	04/14/25 09:14	
EPA 8015C Modified	TPH - Diesel (C10-C28)	13.9	mg/kg	2.4	04/14/25 09:14	
ASTM D2974-87	Percent Moisture	31.6	%	0.10	04/10/25 13:49	
40293261016	SB-53(1.5-2.5)					
EPA 8015C Modified	TPH (C28-C36)	2870	mg/kg	917	04/14/25 10:30	B
EPA 8015C Modified	TPH - Diesel (C10-C28)	10600	mg/kg	917	04/14/25 10:30	
EPA 8015C Modified	TPH (C06-C10)	2050	mg/kg	336	04/14/25 15:50	
ASTM D2974-87	Percent Moisture	8.9	%	0.10	04/11/25 05:18	
40293261017	SB-53(6-7)					
EPA 8015C Modified	TPH (C28-C36)	803	mg/kg	249	04/14/25 09:30	B
EPA 8015C Modified	TPH - Diesel (C10-C28)	2720	mg/kg	249	04/14/25 09:30	
EPA 8015C Modified	TPH (C06-C10)	2310	mg/kg	790	04/11/25 16:34	D3
ASTM D2974-87	Percent Moisture	32.8	%	0.10	04/11/25 05:18	
40293261018	SB-39(2-3)					
EPA 8015C Modified	TPH (C28-C36)	577	mg/kg	79.0	04/14/25 09:38	
EPA 8015C Modified	TPH - Diesel (C10-C28)	1330	mg/kg	79.0	04/14/25 09:38	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 23-1845 Shirland

Pace Project No.: 40293261

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40293261018	SB-39(2-3)					
EPA 8015C Modified	TPH (C06-C10)	25.6	mg/kg	13.7	04/12/25 00:45	
ASTM D2974-87	Percent Moisture	15.6	%	0.10	04/11/25 05:18	
40293261019	SB-39(6-7)					
EPA 8015C Modified	TPH (C28-C36)	1110	mg/kg	486	04/14/25 09:46	B
EPA 8015C Modified	TPH - Diesel (C10-C28)	3810	mg/kg	486	04/14/25 09:46	
EPA 8015C Modified	TPH (C06-C10)	1150	mg/kg	415	04/11/25 18:43	D3
ASTM D2974-87	Percent Moisture	31.4	%	0.10	04/11/25 05:18	
40293261020	SB-40(1.5-2.5)					
EPA 8015C Modified	TPH (C28-C36)	367	mg/kg	18.4	04/15/25 06:09	
EPA 8015C Modified	TPH - Diesel (C10-C28)	175	mg/kg	18.4	04/15/25 06:09	
ASTM D2974-87	Percent Moisture	9.1	%	0.10	04/11/25 05:18	
40293261021	SB-40(6-7)					
EPA 8015C Modified	TPH (C28-C36)	123	mg/kg	20.8	04/15/25 09:06	
EPA 8015C Modified	TPH - Diesel (C10-C28)	285	mg/kg	20.8	04/15/25 09:06	
EPA 8015C Modified	TPH (C06-C10)	127	mg/kg	59.9	04/14/25 14:58	D3
ASTM D2974-87	Percent Moisture	19.9	%	0.10	04/11/25 05:18	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-47(1.5-2.5) Lab ID: 40293261001 Collected: 04/07/25 15:15 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	6680	mg/kg	883	376	500	04/11/25 07:57	04/14/25 09:54		
TPH - Diesel (C10-C28)	12400	mg/kg	883	376	500	04/11/25 07:57	04/14/25 09:54		
Surrogates									
o-Terphenyl (S)	0	%	10-135		500	04/11/25 07:57	04/14/25 09:54	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	450	mg/kg	140	75.7	12.5	04/09/25 09:30	04/09/25 21:28		
Surrogates									
a,a,a-Trifluorotoluene (S)	91	%	77-185		12.5	04/09/25 09:30	04/09/25 21:28	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	5.5	%	0.10	0.10	1		04/10/25 13:49		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-47(7-8) Lab ID: 40293261002 Collected: 04/07/25 15:20 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	2250	mg/kg	357	152	200	04/11/25 07:57	04/14/25 07:33		
TPH - Diesel (C10-C28)	6410	mg/kg	357	152	200	04/11/25 07:57	04/14/25 07:33		
Surrogates									
o-Terphenyl (S)	0	%	10-135		200	04/11/25 07:57	04/14/25 07:33	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	1740	mg/kg	284	154	25	04/09/25 09:30	04/09/25 23:37		
Surrogates									
a,a,a-Trifluorotoluene (S)	93	%	77-185		25	04/09/25 09:30	04/09/25 23:37	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	6.4	%	0.10	0.10	1		04/10/25 13:49		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-46(1.5-2.5) Lab ID: 40293261003 Collected: 04/07/25 15:00 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	6170	mg/kg	904	385	500	04/11/25 07:57	04/14/25 07:41		
TPH - Diesel (C10-C28)	13300	mg/kg	904	385	500	04/11/25 07:57	04/14/25 07:41		
Surrogates									
o-Terphenyl (S)	0	%	10-135		500	04/11/25 07:57	04/14/25 07:41	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	608	mg/kg	93.4	50.7	8	04/09/25 09:30	04/09/25 22:45		
Surrogates									
a,a,a-Trifluorotoluene (S)	110	%	77-185		8	04/09/25 09:30	04/09/25 22:45	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	7.7	%	0.10	0.10	1		04/10/25 13:49		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: **SB-46(7-8)** Lab ID: **40293261004** Collected: 04/07/25 15:05 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	4650	mg/kg	717	305	400	04/11/25 07:57	04/14/25 07:48		
TPH - Diesel (C10-C28)	12900	mg/kg	717	305	400	04/11/25 07:57	04/14/25 07:48		
Surrogates									
o-Terphenyl (S)	0	%	10-135		400	04/11/25 07:57	04/14/25 07:48	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	1220	mg/kg	459	249	40	04/09/25 09:30	04/09/25 19:44		
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	77-185		40	04/09/25 09:30	04/09/25 19:44	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	6.9	%	0.10	0.10	1		04/10/25 13:49		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-43(1.5-2.5) Lab ID: 40293261005 Collected: 04/07/25 14:40 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	943	mg/kg	189	80.4	100	04/11/25 07:57	04/14/25 07:56		
TPH - Diesel (C10-C28)	1070	mg/kg	189	80.4	100	04/11/25 07:57	04/14/25 07:56		
Surrogates									
o-Terphenyl (S)	0	%	10-135		100	04/11/25 07:57	04/14/25 07:56	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	17.1	mg/kg	15.1	8.2	1	04/09/25 09:30	04/09/25 17:35		
Surrogates									
a,a,a-Trifluorotoluene (S)	93	%	77-185		1	04/09/25 09:30	04/09/25 17:35	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	11.5	%	0.10	0.10	1		04/10/25 13:49		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-43(5.5-6.5) Lab ID: 40293261006 Collected: 04/07/25 14:45 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	2080	mg/kg	494	210	200	04/11/25 07:57	04/14/25 08:04		
TPH - Diesel (C10-C28)	6230	mg/kg	494	210	200	04/11/25 07:57	04/14/25 08:04		
Surrogates									
o-Terphenyl (S)	0	%	10-135		200	04/11/25 07:57	04/14/25 08:04	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	577	mg/kg	391	212	20	04/09/25 09:30	04/11/25 02:31		D3
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%	77-185		20	04/09/25 09:30	04/11/25 02:31	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	32.3	%	0.10	0.10	1		04/10/25 13:49		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-42(7-7.7) Lab ID: 40293261007 Collected: 04/07/25 14:20 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	1400	mg/kg	222	94.6	100	04/11/25 07:57	04/14/25 08:12		
TPH - Diesel (C10-C28)	4260	mg/kg	222	94.6	100	04/11/25 07:57	04/14/25 08:12		
Surrogates									
o-Terphenyl (S)	0	%	10-135		100	04/11/25 07:57	04/14/25 08:12	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	990	mg/kg	416	226	25	04/09/25 09:30	04/09/25 22:20		
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	77-185		25	04/09/25 09:30	04/09/25 22:20	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	24.9	%	0.10	0.10	1		04/10/25 13:49		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-45(2-3) Lab ID: 40293261008 Collected: 04/07/25 13:50 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	5610	mg/kg	940	400	500	04/11/25 07:57	04/14/25 08:20		
TPH - Diesel (C10-C28)	14600	mg/kg	940	400	500	04/11/25 07:57	04/14/25 08:20		
Surrogates									
o-Terphenyl (S)	0	%	10-135		500	04/11/25 07:57	04/14/25 08:20	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	891	mg/kg	501	272	40	04/09/25 09:30	04/09/25 20:36		D3
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	77-185		40	04/09/25 09:30	04/09/25 20:36	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	11.2	%	0.10	0.10	1		04/10/25 13:49		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-45(5.5-6.5) Lab ID: 40293261009 Collected: 04/07/25 13:55 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	2310	mg/kg	459	195	200	04/11/25 07:57	04/14/25 08:27		
TPH - Diesel (C10-C28)	8040	mg/kg	459	195	200	04/11/25 07:57	04/14/25 08:27		
Surrogates									
o-Terphenyl (S)	0	%	10-135		200	04/11/25 07:57	04/14/25 08:27	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	1140	mg/kg	700	380	40	04/09/25 09:30	04/09/25 21:02		D3
Surrogates									
a,a,a-Trifluorotoluene (S)	71	%	77-185		40	04/09/25 09:30	04/09/25 21:02	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	27.3	%	0.10	0.10	1		04/10/25 13:49		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-44(2-3) Lab ID: 40293261010 Collected: 04/07/25 13:30 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	7100	mg/kg	1570	666	800	04/11/25 07:57	04/14/25 10:02		
TPH - Diesel (C10-C28)	14100	mg/kg	1570	666	800	04/11/25 07:57	04/14/25 10:02		
Surrogates									
o-Terphenyl (S)	0	%	10-135		800	04/11/25 07:57	04/14/25 10:02	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	438	mg/kg	178	96.3	12.5	04/09/25 09:30	04/09/25 20:10		
Surrogates									
a,a,a-Trifluorotoluene (S)	96	%	77-185		12.5	04/09/25 09:30	04/09/25 20:10	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	14.7	%	0.10	0.10	1		04/10/25 13:49		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: **SB-44(6.5-7.5)** Lab ID: **40293261011** Collected: 04/07/25 13:35 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	2890	mg/kg	468	199	200	04/11/25 07:57	04/14/25 08:43		
TPH - Diesel (C10-C28)	8980	mg/kg	468	199	200	04/11/25 07:57	04/14/25 08:43		
Surrogates									
o-Terphenyl (S)	0	%	10-135		200	04/11/25 07:57	04/14/25 08:43	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	1300	mg/kg	450	244	25	04/09/25 09:30	04/09/25 23:11		
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	77-185		25	04/09/25 09:30	04/09/25 23:11	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	28.6	%	0.10	0.10	1		04/10/25 13:49		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-59(1.5-2.5) Lab ID: 40293261012 Collected: 04/07/25 13:10 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	118	mg/kg	18.8	8.0	10	04/11/25 07:57	04/14/25 08:51		
TPH - Diesel (C10-C28)	109	mg/kg	18.8	8.0	10	04/11/25 07:57	04/14/25 08:51		
Surrogates									
o-Terphenyl (S)	0	%	10-135		10	04/11/25 07:57	04/14/25 08:51	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	<8.1	mg/kg	15.0	8.1	1	04/09/25 09:30	04/09/25 16:43		
Surrogates									
a,a,a-Trifluorotoluene (S)	86	%	77-185		1	04/09/25 09:30	04/09/25 16:43	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	11.2	%	0.10	0.10	1		04/10/25 13:49		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-59(6.5-7.5) Lab ID: 40293261013 Collected: 04/07/25 13:15 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	150	mg/kg	49.7	21.1	20	04/11/25 07:57	04/14/25 08:58		
TPH - Diesel (C10-C28)	319	mg/kg	49.7	21.1	20	04/11/25 07:57	04/14/25 08:58		
Surrogates									
o-Terphenyl (S)	0	%	10-135		20	04/11/25 07:57	04/14/25 08:58	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	47.7	mg/kg	19.8	10.7	1	04/09/25 09:30	04/09/25 18:01		
Surrogates									
a,a,a-Trifluorotoluene (S)	85	%	77-185		1	04/09/25 09:30	04/09/25 18:01	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	32.9	%	0.10	0.10	1		04/10/25 13:49		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-60(1.5-2.5) Lab ID: 40293261014 Collected: 04/07/25 12:50 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	223	mg/kg	83.9	35.7	40	04/11/25 07:57	04/14/25 09:06		
TPH - Diesel (C10-C28)	496	mg/kg	83.9	35.7	40	04/11/25 07:57	04/14/25 09:06		
Surrogates									
o-Terphenyl (S)	0	%	10-135		40	04/11/25 07:57	04/14/25 09:06	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	<8.2	mg/kg	15.1	8.2	1	04/09/25 09:30	04/09/25 17:09		
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	77-185		1	04/09/25 09:30	04/09/25 17:09	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	20.4	%	0.10	0.10	1		04/10/25 13:49		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-60(5-6) Lab ID: 40293261015 Collected: 04/07/25 12:55 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	18.2	mg/kg	2.4	1.0	1	04/11/25 07:57	04/14/25 09:14		
TPH - Diesel (C10-C28)	13.9	mg/kg	2.4	1.0	1	04/11/25 07:57	04/14/25 09:14		
Surrogates									
o-Terphenyl (S)	44	%	10-135		1	04/11/25 07:57	04/14/25 09:14	84-15-1	
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	<10.8	mg/kg	19.9	10.8	1	04/11/25 10:30	04/11/25 22:10		
Surrogates									
a,a,a-Trifluorotoluene (S)	112	%	77-185		1	04/11/25 10:30	04/11/25 22:10	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	31.6	%	0.10	0.10	1		04/10/25 13:49		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-53(1.5-2.5) Lab ID: 40293261016 Collected: 04/07/25 12:25 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	2870	mg/kg	917	390	500	04/11/25 07:57	04/14/25 10:30		B
TPH - Diesel (C10-C28)	10600	mg/kg	917	390	500	04/11/25 07:57	04/14/25 10:30		
Surrogates									
o-Terphenyl (S)	0	%	10-135		500	04/11/25 07:57	04/14/25 10:30	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	2050	mg/kg	336	182	25	04/11/25 10:30	04/14/25 15:50		
Surrogates									
a,a,a-Trifluorotoluene (S)	93	%	77-185		25	04/11/25 10:30	04/14/25 15:50	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	8.9	%	0.10	0.10	1		04/11/25 05:18		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-53(6-7) Lab ID: 40293261017 Collected: 04/07/25 12:30 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	803	mg/kg	249	106	100	04/11/25 07:57	04/14/25 09:30		B
TPH - Diesel (C10-C28)	2720	mg/kg	249	106	100	04/11/25 07:57	04/14/25 09:30		
Surrogates									
o-Terphenyl (S)	0	%	10-135		100	04/11/25 07:57	04/14/25 09:30	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	2310	mg/kg	790	429	40	04/11/25 10:30	04/11/25 16:34		D3
Surrogates									
a,a,a-Trifluorotoluene (S)	96	%	77-185		40	04/11/25 10:30	04/11/25 16:34	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	32.8	%	0.10	0.10	1		04/11/25 05:18		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-39(2-3) Lab ID: 40293261018 Collected: 04/07/25 12:05 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	577	mg/kg	79.0	33.6	40	04/11/25 07:57	04/14/25 09:38		
TPH - Diesel (C10-C28)	1330	mg/kg	79.0	33.6	40	04/11/25 07:57	04/14/25 09:38		
Surrogates									
o-Terphenyl (S)	0	%	10-135		40	04/11/25 07:57	04/14/25 09:38	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	25.6	mg/kg	13.7	7.4	1	04/11/25 10:30	04/12/25 00:45		
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	77-185		1	04/11/25 10:30	04/12/25 00:45	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	15.6	%	0.10	0.10	1		04/11/25 05:18		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-39(6-7) Lab ID: 40293261019 Collected: 04/07/25 12:10 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	1110	mg/kg	486	207	200	04/11/25 07:57	04/14/25 09:46		B
TPH - Diesel (C10-C28)	3810	mg/kg	486	207	200	04/11/25 07:57	04/14/25 09:46		
Surrogates									
o-Terphenyl (S)	0	%	10-135		200	04/11/25 07:57	04/14/25 09:46	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	1150	mg/kg	415	225	20	04/11/25 10:30	04/11/25 18:43		D3
Surrogates									
a,a,a-Trifluorotoluene (S)	88	%	77-185		20	04/11/25 10:30	04/11/25 18:43	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	31.4	%	0.10	0.10	1		04/11/25 05:18		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-40(1.5-2.5) Lab ID: 40293261020 Collected: 04/07/25 11:45 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	367	mg/kg	18.4	7.8	10	04/14/25 08:30	04/15/25 06:09		
TPH - Diesel (C10-C28)	175	mg/kg	18.4	7.8	10	04/14/25 08:30	04/15/25 06:09		
Surrogates									
o-Terphenyl (S)	0	%	10-135		10	04/14/25 08:30	04/15/25 06:09	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	<6.5	mg/kg	12.0	6.5	1	04/11/25 10:30	04/11/25 22:36		
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%	77-185		1	04/11/25 10:30	04/11/25 22:36	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	9.1	%	0.10	0.10	1		04/11/25 05:18		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293261

Sample: SB-40(6-7) Lab ID: 40293261021 Collected: 04/07/25 11:50 Received: 04/08/25 09:40 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
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	123	mg/kg	20.8	8.9	10	04/14/25 08:30	04/15/25 09:06		
TPH - Diesel (C10-C28)	285	mg/kg	20.8	8.9	10	04/14/25 08:30	04/15/25 09:06		
Surrogates									
o-Terphenyl (S)	0	%	10-135		10	04/14/25 08:30	04/15/25 09:06	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	127	mg/kg	59.9	32.5	4	04/11/25 10:30	04/14/25 14:58		D3
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	77-185		4	04/11/25 10:30	04/14/25 14:58	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	19.9	%	0.10	0.10	1		04/11/25 05:18		

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QUALITY CONTROL DATA

Project: 23-1845 Shirland

Pace Project No.: 40293261

QC Batch:	501518	Analysis Method:	EPA 8015C Modified
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	8015C Gasoline Range Organics
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40293261001, 40293261002, 40293261003, 40293261004, 40293261005, 40293261006, 40293261007, 40293261008, 40293261009, 40293261010, 40293261011, 40293261012, 40293261013, 40293261014		

METHOD BLANK:	2863646	Matrix:	Solid
Associated Lab Samples:	40293261001, 40293261002, 40293261003, 40293261004, 40293261005, 40293261006, 40293261007, 40293261008, 40293261009, 40293261010, 40293261011, 40293261012, 40293261013, 40293261014		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C10)	mg/kg	<5.4	10.0	5.4	04/09/25 10:18	
a,a,a-Trifluorotoluene (S)	%	90	77-185		04/09/25 10:18	

LABORATORY CONTROL SAMPLE & LCSD:		2863647	2863648							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH (C06-C10)	mg/kg	50	50.9	52.6	102	105	80-126	3	20	
a,a,a-Trifluorotoluene (S)	%				93	106	77-185			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			2863649		2863650							
Parameter	Units	40293160003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C06-C10)	mg/kg	<6.0	52.7	52.7	57.2	54.4	109	103	68-150	5	25	
a.a.a-Trifluorotoluene (S)	%						95	94	77-185			

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QUALITY CONTROL DATA

Project: 23-1845 Shirland

Pace Project No.: 40293261

QC Batch:	501764	Analysis Method:	EPA 8015C Modified
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	8015C Gasoline Range Organics
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40293261015, 40293261016, 40293261017, 40293261018, 40293261019, 40293261020, 40293261021

METHOD BLANK:	2865082	Matrix:	Solid
Associated Lab Samples:	40293261015, 40293261016, 40293261017, 40293261018, 40293261019, 40293261020, 40293261021		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C10)	mg/kg	<5.4	10.0	5.4	04/11/25 14:25	
a,a,a-Trifluorotoluene (S)	%	82	77-185		04/11/25 14:25	

LABORATORY CONTROL SAMPLE & LCSD:		2865083	2865084							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH (C06-C10)	mg/kg	50	51.1	50.4	102	101	80-126	1	20	
a,a,a-Trifluorotoluene (S)	%				91	89	77-185			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			2865085		2865086							
Parameter	Units	40293408001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Spike	Spike								Result
			Conc.	Conc.	Result	Result	% Rec	% Rec	Limits			
TPH (C06-C10)	mg/kg	<8.5	62.6	62.6	63.8	70.4	102	112	68-150	10	25	
a,a,a-Trifluorotoluene (S)	%						87	89	77-185			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			2865087		2865088							
Parameter	Units	40293408005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C06-C10)	mg/kg	88.5	57.1	54.6	135	61.8	82	-49	68-150	75	25	M1,R1
a,a,a-Trifluorotoluene (S)	%						95	82	77-185			

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QUALITY CONTROL DATA

Project: 23-1845 Shirland
Pace Project No.: 40293261

QC Batch:	501746	Analysis Method:	EPA 8015C Modified
QC Batch Method:	EPA 3546	Analysis Description:	8015C Solid GCSV
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40293261001, 40293261002, 40293261003, 40293261004, 40293261005, 40293261006, 40293261007, 40293261008, 40293261009, 40293261010, 40293261011, 40293261012, 40293261013, 40293261014, 40293261015, 40293261016, 40293261017, 40293261018, 40293261019		

METHOD BLANK:	2865025	Matrix:	Solid
Associated Lab Samples:	40293261001, 40293261002, 40293261003, 40293261004, 40293261005, 40293261006, 40293261007, 40293261008, 40293261009, 40293261010, 40293261011, 40293261012, 40293261013, 40293261014, 40293261015, 40293261016, 40293261017, 40293261018, 40293261019		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C28-C36)	mg/kg	0.74J	1.7	0.71	04/14/25 06:46	
TPH - Diesel (C10-C28)	mg/kg	0.78J	1.7	0.71	04/14/25 06:46	
o-Terphenyl (S)	%	64	10-135		04/14/25 06:46	

LABORATORY CONTROL SAMPLE: 2865026

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C28-C36)	mg/kg		0.73J			
TPH - Diesel (C10-C28)	mg/kg	16.7	12.4	75	56-120	
o-Terphenyl (S)	%			77	10-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865027 2865028

Parameter	Units	40293408001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C28-C36)	mg/kg	76.1			130	164				23	50	
TPH - Diesel (C10-C28)	mg/kg	67.9	20.5	20.5	132	179	316	544	10-136	30	50	M0
o-Terphenyl (S)	%						0	0	10-135			S4

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QUALITY CONTROL DATA

Project: 23-1845 Shirland

Pace Project No.: 40293261

QC Batch:	501851	Analysis Method:	EPA 8015C Modified
QC Batch Method:	EPA 3546	Analysis Description:	8015C Solid GCSV
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40293261020, 40293261021

METHOD BLANK: 2865889 Matrix: Solid

Associated Lab Samples: 40293261020, 40293261021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C28-C36)	mg/kg	<0.71	1.7	0.71	04/15/25 05:30	
TPH - Diesel (C10-C28)	mg/kg	1.1J	1.7	0.71	04/15/25 05:30	
o-Terphenyl (S)	%	65	10-135		04/15/25 05:30	

LABORATORY CONTROL SAMPLE: 2865890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C28-C36)	mg/kg		<0.71			
TPH - Diesel (C10-C28)	mg/kg	16.7	14.1	85	56-120	
o-Terphenyl (S)	%			83	10-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865891 2865892

Parameter	Units	40293408005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C28-C36)	mg/kg	1110			898	1050				15	50	
TPH - Diesel (C10-C28)	mg/kg	897	18.3	18.3	713	909	-1010	64	10-136	24	50	M0
o-Terphenyl (S)	%						0	0	10-135			S4

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QUALITY CONTROL DATA

Project: 23-1845 Shirland
Pace Project No.: 40293261

QC Batch:	501694	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40293261001, 40293261002, 40293261003, 40293261004, 40293261005, 40293261006, 40293261007, 40293261008, 40293261009, 40293261010, 40293261011, 40293261012, 40293261013, 40293261014, 40293261015		

SAMPLE DUPLICATE: 2864584

Parameter	Units	40293261013 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	32.9	31.0	6	10	

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

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: 23-1845 Shirland
Pace Project No.: 40293261

QC Batch:	501729	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples: 40293261016, 40293261017, 40293261018, 40293261019, 40293261020, 40293261021			

SAMPLE DUPLICATE: 2864984

Parameter	Units	40293261019 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	31.4	31.0	1	10	

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REPORT OF LABORATORY ANALYSIS



QUALIFIERS

Project: 23-1845 Shirland
Pace Project No.: 40293261

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.

BATCH QUALIFIERS

Batch: 501795

[1] The default spike range of the standard used for QC evaluation is C10-C28. All other carbon ranges may recover outside of spike limits because they may not cover the range of the spike used.

Batch: 501933

[1] The default spike range of the standard used for QC evaluation is C10-C28. All other carbon ranges may recover outside of spike limits because they may not cover the range of the spike used.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.
D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1 RPD value was outside control limits.
S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 23-1845 Shirland
Pace Project No.: 40293261

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40293261001	SB-47(1.5-2.5)	EPA 3546	501746	EPA 8015C Modified	501795
40293261002	SB-47(7-8)	EPA 3546	501746	EPA 8015C Modified	501795
40293261003	SB-46(1.5-2.5)	EPA 3546	501746	EPA 8015C Modified	501795
40293261004	SB-46(7-8)	EPA 3546	501746	EPA 8015C Modified	501795
40293261005	SB-43(1.5-2.5)	EPA 3546	501746	EPA 8015C Modified	501795
40293261006	SB-43(5.5-6.5)	EPA 3546	501746	EPA 8015C Modified	501795
40293261007	SB-42(7-7.7)	EPA 3546	501746	EPA 8015C Modified	501795
40293261008	SB-45(2-3)	EPA 3546	501746	EPA 8015C Modified	501795
40293261009	SB-45(5.5-6.5)	EPA 3546	501746	EPA 8015C Modified	501795
40293261010	SB-44(2-3)	EPA 3546	501746	EPA 8015C Modified	501795
40293261011	SB-44(6.5-7.5)	EPA 3546	501746	EPA 8015C Modified	501795
40293261012	SB-59(1.5-2.5)	EPA 3546	501746	EPA 8015C Modified	501795
40293261013	SB-59(6.5-7.5)	EPA 3546	501746	EPA 8015C Modified	501795
40293261014	SB-60(1.5-2.5)	EPA 3546	501746	EPA 8015C Modified	501795
40293261015	SB-60(5-6)	EPA 3546	501746	EPA 8015C Modified	501795
40293261016	SB-53(1.5-2.5)	EPA 3546	501746	EPA 8015C Modified	501795
40293261017	SB-53(6-7)	EPA 3546	501746	EPA 8015C Modified	501795
40293261018	SB-39(2-3)	EPA 3546	501746	EPA 8015C Modified	501795
40293261019	SB-39(6-7)	EPA 3546	501746	EPA 8015C Modified	501795
40293261020	SB-40(1.5-2.5)	EPA 3546	501851	EPA 8015C Modified	501933
40293261021	SB-40(6-7)	EPA 3546	501851	EPA 8015C Modified	501933
40293261001	SB-47(1.5-2.5)	EPA 5035A/5030B	501518	EPA 8015C Modified	501540
40293261002	SB-47(7-8)	EPA 5035A/5030B	501518	EPA 8015C Modified	501540
40293261003	SB-46(1.5-2.5)	EPA 5035A/5030B	501518	EPA 8015C Modified	501540
40293261004	SB-46(7-8)	EPA 5035A/5030B	501518	EPA 8015C Modified	501540
40293261005	SB-43(1.5-2.5)	EPA 5035A/5030B	501518	EPA 8015C Modified	501540
40293261006	SB-43(5.5-6.5)	EPA 5035A/5030B	501518	EPA 8015C Modified	501540
40293261007	SB-42(7-7.7)	EPA 5035A/5030B	501518	EPA 8015C Modified	501540
40293261008	SB-45(2-3)	EPA 5035A/5030B	501518	EPA 8015C Modified	501540
40293261009	SB-45(5.5-6.5)	EPA 5035A/5030B	501518	EPA 8015C Modified	501540
40293261010	SB-44(2-3)	EPA 5035A/5030B	501518	EPA 8015C Modified	501540
40293261011	SB-44(6.5-7.5)	EPA 5035A/5030B	501518	EPA 8015C Modified	501540
40293261012	SB-59(1.5-2.5)	EPA 5035A/5030B	501518	EPA 8015C Modified	501540
40293261013	SB-59(6.5-7.5)	EPA 5035A/5030B	501518	EPA 8015C Modified	501540
40293261014	SB-60(1.5-2.5)	EPA 5035A/5030B	501518	EPA 8015C Modified	501540
40293261015	SB-60(5-6)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293261016	SB-53(1.5-2.5)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293261017	SB-53(6-7)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293261018	SB-39(2-3)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293261019	SB-39(6-7)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293261020	SB-40(1.5-2.5)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293261021	SB-40(6-7)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293261001	SB-47(1.5-2.5)	ASTM D2974-87	501694		
40293261002	SB-47(7-8)	ASTM D2974-87	501694		
40293261003	SB-46(1.5-2.5)	ASTM D2974-87	501694		
40293261004	SB-46(7-8)	ASTM D2974-87	501694		
40293261005	SB-43(1.5-2.5)	ASTM D2974-87	501694		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

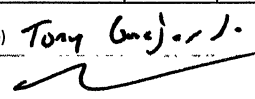
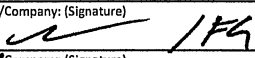
Project: 23-1845 Shirland

Pace Project No.: 40293261

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40293261006	SB-43(5.5-6.5)	ASTM D2974-87	501694		
40293261007	SB-42(7-7.7)	ASTM D2974-87	501694		
40293261008	SB-45(2-3)	ASTM D2974-87	501694		
40293261009	SB-45(5.5-6.5)	ASTM D2974-87	501694		
40293261010	SB-44(2-3)	ASTM D2974-87	501694		
40293261011	SB-44(6.5-7.5)	ASTM D2974-87	501694		
40293261012	SB-59(1.5-2.5)	ASTM D2974-87	501694		
40293261013	SB-59(6.5-7.5)	ASTM D2974-87	501694		
40293261014	SB-60(1.5-2.5)	ASTM D2974-87	501694		
40293261015	SB-60(5-6)	ASTM D2974-87	501694		
40293261016	SB-53(1.5-2.5)	ASTM D2974-87	501729		
40293261017	SB-53(6-7)	ASTM D2974-87	501729		
40293261018	SB-39(2-3)	ASTM D2974-87	501729		
40293261019	SB-39(6-7)	ASTM D2974-87	501729		
40293261020	SB-40(1.5-2.5)	ASTM D2974-87	501729		
40293261021	SB-40(6-7)	ASTM D2974-87	501729		

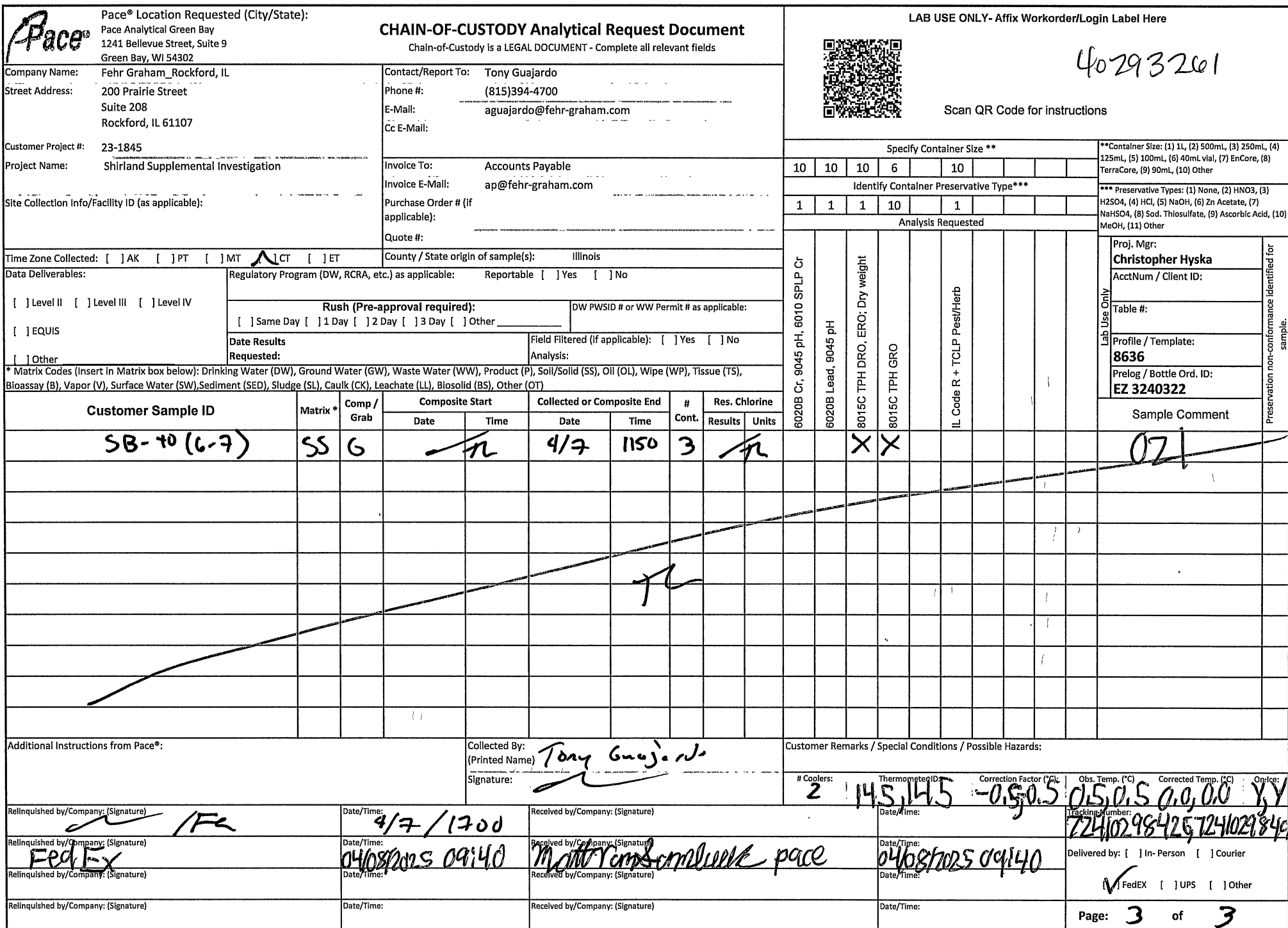
REPORT OF LABORATORY ANALYSIS

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Pace Pace® Location Requested (City/State): Pace Analytical Green Bay 1241 Bellevue Street, Suite 9 Green Bay, WI 54302		CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields				LAB USE ONLY- Affix Workorder/Login Label Here  4029325961 Ag 4/8/28 Scan QR Code for instructions																
Company Name: Fehr Graham_Rockford, IL Street Address: 200 Prairie Street Suite 208 Rockford, IL 61107			Contact/Report To: Tony Guajardo Phone #: (815)394-4700 E-Mail: aguajardo@fehr-graham.com Cc E-Mail:																			
Customer Project #: 23-1845 Project Name: Shirland Supplemental Investigation Site Collection Info/Facility ID (as applicable):			Invoice To: Accounts Payable Invoice E-Mail: ap@fehr-graham.com Purchase Order # (if applicable): Quote #:																			
Time Zone Collected: [] AK [] PT [] MT ☒ CT [] ET			County / State origin of sample(s): Illinois																			
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 Date Results Requested: Field Filtered (if applicable): [] Yes [] No Analysis:																			
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)																						
Customer Sample ID		Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine													
				Date	Time	Date	Time		Results	Units												
SB-47 (1.5-2.5)		SS	6			4/7	1515	3														
SB-47 (7-8)		SS	6			4/7	1520	3														
SB-46 (1.5-2.5)		SS	6			4/7	1500	3														
SB-46 (7-8)		SS	6			4/7	1505	3														
SB-43 (1.5-2.5)		SS	6			4/7	1440	3														
SB-43 (5.5-6.5)		SS	6			4/7	1445	3														
SB-42 (7-7.7)		SS	6			4/7	1420	3														
SB-45 (2-3)		SS	6			4/7	1350	3														
SB-45 (3.5-6.5)		SS	6			4/7	1355	3														
SB-44 (2-3)		SS	6			4/7	1330	3														
Additional Instructions from Pace®:				Collected By: (Printed Name) Tony Guajardo Signature: 				Customer Remarks / Special Conditions / Possible Hazards:														
Relinquished by/Company: (Signature)  / FG				Date/Time: 4/7/1700		Received by/Company: (Signature)				Date/Time:		Tracking Number: 724102918492672410293										
Relinquished by/Company: (Signature) FedEx				Date/Time: 04/08/2025 09:40		Received by/Company: (Signature) Matt [unclear] Pace				Date/Time: 04/08/2025 09:40		Delivered by: [] In-Person [] Courier 4915										
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: 1 of 3										

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at <https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/>

ENV-FRM-CORQ-0019_v02_110123 ©



Effective Date: 8/16/2022

Client Name: Fehr Graham Rockford, IL

Sample Preservation Receipt Form

Project #

40793261

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: MJL Date: 8/16/2022

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	JG9U	JG9U	WG9U	WPFU	SP5T	ZPLC							
001																		2		1												2.5 / 5
002																		2		1												2.5 / 5
003																		2		1												2.5 / 5
004																		2		1												2.5 / 5
005																		2		1												2.5 / 5
006																		2		1												2.5 / 5
007																		2		1												2.5 / 5
008																		2		1												2.5 / 5
009																		2		1												2.5 / 5
010																		2		1												2.5 / 5
011																		2		1												2.5 / 5
012																		2		1												2.5 / 5
013																		2		1												2.5 / 5
014																		2		1												2.5 / 5
015																		2		1												2.5 / 5
016																		2		1												2.5 / 5
017																		2		1												2.5 / 5
018																		2		1												2.5 / 5
019																		2		1												2.5 / 5
020																		2		1												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 H ₂ SO ₄	BP3N	250 mL plastic HNO ₃	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H ₂ SO ₄	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H ₂ SO ₄	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 ____

Client Name: Fehr Graham Rockford, IL Sample Preservation Receipt Form
Project #: 40293261

Pace Lab #	Glass						Plastic						Vials					Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2					
021																		2		1												2.5 / 5
022																																2.5 / 5
023																																2.5 / 5
024																																2.5 / 5
025																																2.5 / 5
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045																																2.5 / 5
046																																2.5 / 5
047																																2.5 / 5
048																																2.5 / 5

Sample Condition Upon Receipt Form (SCUR)

Client Name: Fehr, Graham - Rockford, IL Project #:

WO#: 40293261



Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Purple Mountain
☐ Client ☐ Pace Other:

Tracking #: 724102984926

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 - 145 Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None ☐ Meltwater Only

Cooler Temperature Uncorr: 0.5 / Corr: 0.0

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

Person examining contents:

Date: 04/18/25 Initials: MR

Labeled By Initials: YR

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: <u>Pace Green Bag</u> , 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: <u>SR</u>		
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 3 of 3



April 16, 2025

Tony Guajardo
Fehr Graham
200 Prairie Street
Suite 208
Rockford, IL 61107

RE: Project: 23-1845 Shirland
Pace Project No.: 40293408

Dear Tony Guajardo:

Enclosed are the analytical results for sample(s) received by the laboratory on April 09, 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,

A handwritten signature in cursive script that reads "Christopher Hyska".

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 23-1845 Shirland

Pace Project No.: 40293408

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: 23-1845 Shirland

Pace Project No.: 40293408

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40293408001	SB-54(1.5-2.5)	Solid	04/08/25 08:20	04/09/25 09:50
40293408002	SB-54(7-8)	Solid	04/08/25 08:25	04/09/25 09:50
40293408003	SB-48(1.5-2.5)	Solid	04/08/25 08:45	04/09/25 09:50
40293408004	SB-48(6-7)	Solid	04/08/25 08:50	04/09/25 09:50
40293408005	SB-49(1.5-2.5)	Solid	04/08/25 09:10	04/09/25 09:50
40293408006	SB-49(6-7)	Solid	04/08/25 09:15	04/09/25 09:50
40293408007	SB-51(1.5-2.5)	Solid	04/08/25 09:30	04/09/25 09:50
40293408008	SB-51(6-7)	Solid	04/08/25 09:35	04/09/25 09:50
40293408009	SB-55(1.5-2.5)	Solid	04/08/25 09:50	04/09/25 09:50
40293408010	SB-55(7-8)	Solid	04/08/25 09:55	04/09/25 09:50
40293408011	SB-52(1.5-2.5)	Solid	04/08/25 10:10	04/09/25 09:50
40293408012	SB-52(7-8)	Solid	04/08/25 10:18	04/09/25 09:50
40293408013	SB-50(2.5-3.5)	Solid	04/08/25 10:30	04/09/25 09:50
40293408014	SB-50(6.5-7.5)	Solid	04/08/25 10:35	04/09/25 09:50
40293408015	SB-57(2-3)	Solid	04/08/25 10:50	04/09/25 09:50
40293408016	SB-57(6.5-7.5)	Solid	04/08/25 10:55	04/09/25 09:50
40293408017	SB-58(1.5-2.5)	Solid	04/08/25 11:10	04/09/25 09:50
40293408018	SB-58(6-7)	Solid	04/08/25 11:15	04/09/25 09:50
40293408019	SB-56(1.5-2.5)	Solid	04/08/25 11:40	04/09/25 09:50
40293408020	DUP-TPH	Solid	04/08/25 11:45	04/09/25 09:50
40293408021	SB-56(5.5-6.5)	Solid	04/08/25 11:50	04/09/25 09:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 23-1845 Shirland
Pace Project No.: 40293408

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40293408001	SB-54(1.5-2.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	ALD	2
		ASTM D2974-87	YXH	1
40293408002	SB-54(7-8)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293408003	SB-48(1.5-2.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	ALD	2
		ASTM D2974-87	YXH	1
40293408004	SB-48(6-7)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293408005	SB-49(1.5-2.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293408006	SB-49(6-7)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293408007	SB-51(1.5-2.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293408008	SB-51(6-7)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293408009	SB-55(1.5-2.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293408010	SB-55(7-8)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	ALD	2
		ASTM D2974-87	YXH	1
40293408011	SB-52(1.5-2.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293408012	SB-52(7-8)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
40293408013	SB-50(2.5-3.5)	EPA 8015C Modified	MRN	3

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 23-1845 Shirland

Pace Project No.: 40293408

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40293408014	SB-50(6.5-7.5)	EPA 8015C Modified	KHB	2
		ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
		EPA 8015C Modified	ALD	2
40293408015	SB-57(2-3)	ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
		EPA 8015C Modified	ALD	2
		ASTM D2974-87	YXH	1
40293408016	SB-57(6.5-7.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	ALD	2
		ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
40293408017	SB-58(1.5-2.5)	EPA 8015C Modified	ALD	2
		ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
		EPA 8015C Modified	ALD	2
40293408018	SB-58(6-7)	ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
		EPA 8015C Modified	ALD	2
		ASTM D2974-87	YXH	1
40293408019	SB-56(1.5-2.5)	EPA 8015C Modified	MRN	3
		EPA 8015C Modified	ALD	2
		ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
40293408020	DUP-TPH	EPA 8015C Modified	ALD	2
		ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
		EPA 8015C Modified	ALD	2
40293408021	SB-56(5.5-6.5)	ASTM D2974-87	YXH	1
		EPA 8015C Modified	MRN	3
		EPA 8015C Modified	ALD	2
		ASTM D2974-87	YXH	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 23-1845 Shirland

Pace Project No.: 40293408

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40293408001	SB-54(1.5-2.5)					
EPA 8015C Modified	TPH (C28-C36)	76.1	mg/kg	20.5	04/14/25 07:17	B
EPA 8015C Modified	TPH - Diesel (C10-C28)	67.9	mg/kg	20.5	04/14/25 07:17	B,M0
ASTM D2974-87	Percent Moisture	18.6	%	0.10	04/11/25 06:33	
40293408002	SB-54(7-8)					
EPA 8015C Modified	TPH (C28-C36)	1330	mg/kg	490	04/15/25 09:14	
EPA 8015C Modified	TPH - Diesel (C10-C28)	4450	mg/kg	490	04/15/25 09:14	
EPA 8015C Modified	TPH (C06-C10)	309	mg/kg	77.3	04/11/25 19:09	
ASTM D2974-87	Percent Moisture	31.8	%	0.10	04/11/25 06:33	
40293408003	SB-48(1.5-2.5)					
EPA 8015C Modified	TPH (C28-C36)	10500	mg/kg	1220	04/15/25 09:22	
EPA 8015C Modified	TPH - Diesel (C10-C28)	15300	mg/kg	1220	04/15/25 09:22	
EPA 8015C Modified	TPH (C06-C10)	31.5	mg/kg	19.3	04/14/25 14:32	
ASTM D2974-87	Percent Moisture	31.7	%	0.10	04/11/25 06:33	
40293408004	SB-48(6-7)					
EPA 8015C Modified	TPH (C28-C36)	1380	mg/kg	492	04/15/25 09:30	
EPA 8015C Modified	TPH - Diesel (C10-C28)	5450	mg/kg	492	04/15/25 09:30	
EPA 8015C Modified	TPH (C06-C10)	1060	mg/kg	243	04/11/25 18:17	
ASTM D2974-87	Percent Moisture	32.1	%	0.10	04/11/25 06:50	
40293408005	SB-49(1.5-2.5)					
EPA 8015C Modified	TPH (C28-C36)	1110	mg/kg	91.5	04/15/25 08:58	
EPA 8015C Modified	TPH - Diesel (C10-C28)	897	mg/kg	91.5	04/15/25 08:58	M0
EPA 8015C Modified	TPH (C06-C10)	88.5	mg/kg	47.7	04/11/25 19:35	D3,M1,R1
ASTM D2974-87	Percent Moisture	8.8	%	0.10	04/11/25 06:50	
40293408006	SB-49(6-7)					
EPA 8015C Modified	TPH (C28-C36)	3580	mg/kg	1050	04/15/25 09:37	
EPA 8015C Modified	TPH - Diesel (C10-C28)	11400	mg/kg	1050	04/15/25 09:37	
EPA 8015C Modified	TPH (C06-C10)	523	mg/kg	165	04/11/25 15:42	D3
ASTM D2974-87	Percent Moisture	20.3	%	0.10	04/11/25 06:50	
40293408007	SB-51(1.5-2.5)					
EPA 8015C Modified	TPH (C28-C36)	280	mg/kg	19.5	04/15/25 06:57	
EPA 8015C Modified	TPH - Diesel (C10-C28)	251	mg/kg	19.5	04/15/25 06:57	
ASTM D2974-87	Percent Moisture	14.3	%	0.10	04/11/25 06:50	
40293408008	SB-51(6-7)					
EPA 8015C Modified	TPH (C28-C36)	1420	mg/kg	251	04/15/25 09:45	
EPA 8015C Modified	TPH - Diesel (C10-C28)	4310	mg/kg	251	04/15/25 09:45	
EPA 8015C Modified	TPH (C06-C10)	1700	mg/kg	469	04/11/25 16:08	
ASTM D2974-87	Percent Moisture	33.6	%	0.10	04/11/25 06:50	
40293408009	SB-55(1.5-2.5)					
EPA 8015C Modified	TPH (C28-C36)	104	mg/kg	19.5	04/15/25 07:12	
EPA 8015C Modified	TPH - Diesel (C10-C28)	113	mg/kg	19.5	04/15/25 07:12	
EPA 8015C Modified	TPH (C06-C10)	12.5J	mg/kg	14.6	04/11/25 23:28	
ASTM D2974-87	Percent Moisture	14.3	%	0.10	04/11/25 06:50	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 23-1845 Shirland

Pace Project No.: 40293408

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40293408010	SB-55(7-8)					
EPA 8015C Modified	TPH (C28-C36)	144	mg/kg	48.8	04/15/25 09:53	
EPA 8015C Modified	TPH - Diesel (C10-C28)	486	mg/kg	48.8	04/15/25 09:53	
EPA 8015C Modified	TPH (C06-C10)	729	mg/kg	154	04/14/25 15:24	
ASTM D2974-87	Percent Moisture	31.5	%	0.10	04/11/25 06:50	
40293408011	SB-52(1.5-2.5)					
EPA 8015C Modified	TPH (C28-C36)	1110	mg/kg	98.2	04/15/25 10:01	
EPA 8015C Modified	TPH - Diesel (C10-C28)	952	mg/kg	98.2	04/15/25 10:01	
EPA 8015C Modified	TPH (C06-C10)	7.7J	mg/kg	13.5	04/11/25 23:53	
ASTM D2974-87	Percent Moisture	15.0	%	0.10	04/11/25 06:50	
40293408012	SB-52(7-8)					
EPA 8015C Modified	TPH (C28-C36)	1390	mg/kg	394	04/15/25 10:09	
EPA 8015C Modified	TPH - Diesel (C10-C28)	4830	mg/kg	394	04/15/25 10:09	
EPA 8015C Modified	TPH (C06-C10)	15.4	mg/kg	13.6	04/12/25 00:19	
ASTM D2974-87	Percent Moisture	15.3	%	0.10	04/11/25 06:50	
40293408013	SB-50(2.5-3.5)					
EPA 8015C Modified	TPH (C28-C36)	7840	mg/kg	1820	04/15/25 10:17	
EPA 8015C Modified	TPH - Diesel (C10-C28)	18800	mg/kg	1820	04/15/25 10:17	
EPA 8015C Modified	TPH (C06-C10)	1230	mg/kg	471	04/11/25 17:26	D3
ASTM D2974-87	Percent Moisture	8.2	%	0.10	04/11/25 06:50	
40293408014	SB-50(6.5-7.5)					
EPA 8015C Modified	TPH (C28-C36)	933	mg/kg	198	04/15/25 10:25	
EPA 8015C Modified	TPH - Diesel (C10-C28)	3330	mg/kg	198	04/15/25 10:25	
EPA 8015C Modified	TPH (C06-C10)	299	mg/kg	54.6	04/15/25 03:16	
ASTM D2974-87	Percent Moisture	15.4	%	0.10	04/11/25 06:50	
40293408015	SB-57(2-3)					
EPA 8015C Modified	TPH (C28-C36)	410	mg/kg	97.9	04/15/25 10:33	
EPA 8015C Modified	TPH - Diesel (C10-C28)	470	mg/kg	97.9	04/15/25 10:33	
EPA 8015C Modified	TPH (C06-C10)	10.5J	mg/kg	15.7	04/14/25 23:49	
ASTM D2974-87	Percent Moisture	14.7	%	0.10	04/11/25 06:50	
40293408016	SB-57(6.5-7.5)					
EPA 8015C Modified	TPH (C28-C36)	2150	mg/kg	549	04/15/25 10:41	
EPA 8015C Modified	TPH - Diesel (C10-C28)	6880	mg/kg	549	04/15/25 10:41	
EPA 8015C Modified	TPH (C06-C10)	1650	mg/kg	952	04/15/25 01:32	D3
ASTM D2974-87	Percent Moisture	8.7	%	0.10	04/11/25 06:50	
40293408017	SB-58(1.5-2.5)					
EPA 8015C Modified	TPH (C28-C36)	282	mg/kg	20.7	04/16/25 06:20	
EPA 8015C Modified	TPH - Diesel (C10-C28)	270	mg/kg	20.7	04/16/25 06:20	MO
EPA 8015C Modified	TPH (C06-C10)	16.4	mg/kg	14.8	04/14/25 23:23	
ASTM D2974-87	Percent Moisture	19.3	%	0.10	04/11/25 06:50	
40293408018	SB-58(6-7)					
EPA 8015C Modified	TPH (C28-C36)	942	mg/kg	176	04/15/25 10:49	
EPA 8015C Modified	TPH - Diesel (C10-C28)	2710	mg/kg	176	04/15/25 10:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 23-1845 Shirland

Pace Project No.: 40293408

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40293408018	SB-58(6-7)					
EPA 8015C Modified	TPH (C06-C10)	1400	mg/kg	550	04/15/25 18:06	D3
ASTM D2974-87	Percent Moisture	4.8	%	0.10	04/11/25 06:50	
40293408019	SB-56(1.5-2.5)					
EPA 8015C Modified	TPH (C28-C36)	413	mg/kg	50.2	04/15/25 10:56	
EPA 8015C Modified	TPH - Diesel (C10-C28)	426	mg/kg	50.2	04/15/25 10:56	
ASTM D2974-87	Percent Moisture	16.9	%	0.10	04/11/25 06:50	
40293408020	DUP-TPH					
EPA 8015C Modified	TPH (C28-C36)	423	mg/kg	40.8	04/15/25 11:04	
EPA 8015C Modified	TPH - Diesel (C10-C28)	436	mg/kg	40.8	04/15/25 11:04	
ASTM D2974-87	Percent Moisture	18.1	%	0.10	04/11/25 06:50	
40293408021	SB-56(5.5-6.5)					
EPA 8015C Modified	TPH (C28-C36)	1670	mg/kg	515	04/16/25 08:52	
EPA 8015C Modified	TPH - Diesel (C10-C28)	3820	mg/kg	515	04/16/25 08:52	
EPA 8015C Modified	TPH (C06-C10)	892	mg/kg	442	04/15/25 16:22	D3
ASTM D2974-87	Percent Moisture	35.0	%	0.10	04/11/25 06:50	

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-54(1.5-2.5) Lab ID: 40293408001 Collected: 04/08/25 08:20 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	76.1	mg/kg	20.5	8.7	10	04/11/25 07:57	04/14/25 07:17		B
TPH - Diesel (C10-C28)	67.9	mg/kg	20.5	8.7	10	04/11/25 07:57	04/14/25 07:17		B,M0
Surrogates									
o-Terphenyl (S)	0	%	10-135		10	04/11/25 07:57	04/14/25 07:17	84-15-1	B,S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	<8.5	mg/kg	15.6	8.5	1	04/11/25 10:30	04/14/25 14:06		
Surrogates									
a,a,a-Trifluorotoluene (S)	89	%	77-185		1	04/11/25 10:30	04/14/25 14:06	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	18.6	%	0.10	0.10	1		04/11/25 06:33		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-54(7-8) Lab ID: 40293408002 Collected: 04/08/25 08:25 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	1330	mg/kg	490	208	200	04/14/25 08:30	04/15/25 09:14		
TPH - Diesel (C10-C28)	4450	mg/kg	490	208	200	04/14/25 08:30	04/15/25 09:14		
Surrogates									
o-Terphenyl (S)	0	%	10-135		200	04/14/25 08:30	04/15/25 09:14	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	309	mg/kg	77.3	42.0	4	04/11/25 10:30	04/11/25 19:09		
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	77-185		4	04/11/25 10:30	04/11/25 19:09	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	31.8	%	0.10	0.10	1		04/11/25 06:33		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-48(1.5-2.5) Lab ID: 40293408003 Collected: 04/08/25 08:45 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	10500	mg/kg	1220	519	500	04/14/25 08:30	04/15/25 09:22		
TPH - Diesel (C10-C28)	15300	mg/kg	1220	519	500	04/14/25 08:30	04/15/25 09:22		
Surrogates									
o-Terphenyl (S)	0	%	10-135		500	04/14/25 08:30	04/15/25 09:22	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	31.5	mg/kg	19.3	10.5	1	04/11/25 10:30	04/14/25 14:32		
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	77-185		1	04/11/25 10:30	04/14/25 14:32	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	31.7	%	0.10	0.10	1		04/11/25 06:33		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-48(6-7) Lab ID: 40293408004 Collected: 04/08/25 08:50 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	1380	mg/kg	492	209	200	04/14/25 08:30	04/15/25 09:30		
TPH - Diesel (C10-C28)	5450	mg/kg	492	209	200	04/14/25 08:30	04/15/25 09:30		
Surrogates									
o-Terphenyl (S)	0	%	10-135		200	04/14/25 08:30	04/15/25 09:30	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	1060	mg/kg	243	132	12.5	04/11/25 10:30	04/11/25 18:17		
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	77-185		12.5	04/11/25 10:30	04/11/25 18:17	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	32.1	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-49(1.5-2.5) Lab ID: 40293408005 Collected: 04/08/25 09:10 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546 Pace Analytical Services - Green Bay									
TPH (C28-C36)	1110	mg/kg	91.5	38.9	50	04/14/25 08:30	04/15/25 08:58		
TPH - Diesel (C10-C28)	897	mg/kg	91.5	38.9	50	04/14/25 08:30	04/15/25 08:58		M0
Surrogates									
o-Terphenyl (S)	0	%	10-135		50	04/14/25 08:30	04/15/25 08:58	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B Pace Analytical Services - Green Bay									
TPH (C06-C10)	88.5	mg/kg	47.7	25.9	4	04/11/25 10:30	04/11/25 19:35		D3,M1, R1
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	77-185		4	04/11/25 10:30	04/11/25 19:35	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	8.8	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-49(6-7) Lab ID: 40293408006 Collected: 04/08/25 09:15 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	3580	mg/kg	1050	445	500	04/14/25 08:30	04/15/25 09:37		
TPH - Diesel (C10-C28)	11400	mg/kg	1050	445	500	04/14/25 08:30	04/15/25 09:37		
Surrogates									
o-Terphenyl (S)	0	%	10-135		500	04/14/25 08:30	04/15/25 09:37	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	523	mg/kg	165	89.6	10	04/11/25 10:30	04/11/25 15:42		D3
Surrogates									
a,a,a-Trifluorotoluene (S)	93	%	77-185		10	04/11/25 10:30	04/11/25 15:42	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	20.3	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-51(1.5-2.5) Lab ID: 40293408007 Collected: 04/08/25 09:30 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	280	mg/kg	19.5	8.3	10	04/14/25 08:30	04/15/25 06:57		
TPH - Diesel (C10-C28)	251	mg/kg	19.5	8.3	10	04/14/25 08:30	04/15/25 06:57		
Surrogates									
o-Terphenyl (S)	0	%	10-135		10	04/14/25 08:30	04/15/25 06:57	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	<8.6	mg/kg	15.9	8.6	1	04/11/25 10:30	04/11/25 23:02		
Surrogates									
a,a,a-Trifluorotoluene (S)	86	%	77-185		1	04/11/25 10:30	04/11/25 23:02	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	14.3	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-51(6-7) Lab ID: 40293408008 Collected: 04/08/25 09:35 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	1420	mg/kg	251	107	100	04/14/25 08:30	04/15/25 09:45		
TPH - Diesel (C10-C28)	4310	mg/kg	251	107	100	04/14/25 08:30	04/15/25 09:45		
Surrogates									
o-Terphenyl (S)	0	%	10-135		100	04/14/25 08:30	04/15/25 09:45	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	1700	mg/kg	469	254	20	04/11/25 10:30	04/11/25 16:08		
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	77-185		20	04/11/25 10:30	04/11/25 16:08	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	33.6	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-55(1.5-2.5) Lab ID: 40293408009 Collected: 04/08/25 09:50 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	104	mg/kg	19.5	8.3	10	04/14/25 08:30	04/15/25 07:12		
TPH - Diesel (C10-C28)	113	mg/kg	19.5	8.3	10	04/14/25 08:30	04/15/25 07:12		
Surrogates									
o-Terphenyl (S)	0	%	10-135		10	04/14/25 08:30	04/15/25 07:12	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	12.5J	mg/kg	14.6	7.9	1	04/11/25 10:30	04/11/25 23:28		
Surrogates									
a,a,a-Trifluorotoluene (S)	87	%	77-185		1	04/11/25 10:30	04/11/25 23:28	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	14.3	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-55(7-8) Lab ID: 40293408010 Collected: 04/08/25 09:55 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	144	mg/kg	48.8	20.8	20	04/14/25 08:30	04/15/25 09:53		
TPH - Diesel (C10-C28)	486	mg/kg	48.8	20.8	20	04/14/25 08:30	04/15/25 09:53		
Surrogates									
o-Terphenyl (S)	0	%	10-135		20	04/14/25 08:30	04/15/25 09:53	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	729	mg/kg	154	83.3	8	04/11/25 10:30	04/14/25 15:24		
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	77-185		8	04/11/25 10:30	04/14/25 15:24	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	31.5	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-52(1.5-2.5) Lab ID: 40293408011 Collected: 04/08/25 10:10 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	1110	mg/kg	98.2	41.7	50	04/14/25 08:30	04/15/25 10:01		
TPH - Diesel (C10-C28)	952	mg/kg	98.2	41.7	50	04/14/25 08:30	04/15/25 10:01		
Surrogates									
o-Terphenyl (S)	0	%	10-135		50	04/14/25 08:30	04/15/25 10:01	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	7.7J	mg/kg	13.5	7.3	1	04/11/25 10:30	04/11/25 23:53		
Surrogates									
a,a,a-Trifluorotoluene (S)	87	%	77-185		1	04/11/25 10:30	04/11/25 23:53	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	15.0	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-52(7-8) Lab ID: 40293408012 Collected: 04/08/25 10:18 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	1390	mg/kg	394	167	200	04/14/25 08:30	04/15/25 10:09		
TPH - Diesel (C10-C28)	4830	mg/kg	394	167	200	04/14/25 08:30	04/15/25 10:09		
Surrogates									
o-Terphenyl (S)	0	%	10-135		200	04/14/25 08:30	04/15/25 10:09	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	15.4	mg/kg	13.6	7.4	1	04/11/25 10:30	04/12/25 00:19		
Surrogates									
a,a,a-Trifluorotoluene (S)	82	%	77-185		1	04/11/25 10:30	04/12/25 00:19	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	15.3	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-50(2.5-3.5) Lab ID: 40293408013 Collected: 04/08/25 10:30 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	7840	mg/kg	1820	774	1000	04/14/25 08:30	04/15/25 10:17		
TPH - Diesel (C10-C28)	18800	mg/kg	1820	774	1000	04/14/25 08:30	04/15/25 10:17		
Surrogates									
o-Terphenyl (S)	0	%	10-135		1000	04/14/25 08:30	04/15/25 10:17	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	1230	mg/kg	471	256	40	04/11/25 10:30	04/11/25 17:26		D3
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	77-185		40	04/11/25 10:30	04/11/25 17:26	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	8.2	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-50(6.5-7.5) Lab ID: 40293408014 Collected: 04/08/25 10:35 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	933	mg/kg	198	84.0	100	04/14/25 08:30	04/15/25 10:25		
TPH - Diesel (C10-C28)	3330	mg/kg	198	84.0	100	04/14/25 08:30	04/15/25 10:25		
Surrogates									
o-Terphenyl (S)	0	%	10-135		100	04/14/25 08:30	04/15/25 10:25	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	299	mg/kg	54.6	29.6	4	04/14/25 10:00	04/15/25 03:16		
Surrogates									
a,a,a-Trifluorotoluene (S)	90	%	77-185		4	04/14/25 10:00	04/15/25 03:16	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	15.4	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-57(2-3) Lab ID: 40293408015 Collected: 04/08/25 10:50 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	410	mg/kg	97.9	41.6	50	04/14/25 08:30	04/15/25 10:33		
TPH - Diesel (C10-C28)	470	mg/kg	97.9	41.6	50	04/14/25 08:30	04/15/25 10:33		
Surrogates									
o-Terphenyl (S)	0	%	10-135		50	04/14/25 08:30	04/15/25 10:33	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	10.5J	mg/kg	15.7	8.5	1	04/14/25 10:00	04/14/25 23:49		
Surrogates									
a,a,a-Trifluorotoluene (S)	89	%	77-185		1	04/14/25 10:00	04/14/25 23:49	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	14.7	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-57(6.5-7.5) Lab ID: 40293408016 Collected: 04/08/25 10:55 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	2150	mg/kg	549	233	300	04/14/25 08:30	04/15/25 10:41		
TPH - Diesel (C10-C28)	6880	mg/kg	549	233	300	04/14/25 08:30	04/15/25 10:41		
Surrogates									
o-Terphenyl (S)	0	%	10-135		300	04/14/25 08:30	04/15/25 10:41	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	1650	mg/kg	952	517	80	04/14/25 10:00	04/15/25 01:32		D3
Surrogates									
a,a,a-Trifluorotoluene (S)	92	%	77-185		80	04/14/25 10:00	04/15/25 01:32	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	8.7	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-58(1.5-2.5) Lab ID: 40293408017 Collected: 04/08/25 11:10 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	282	mg/kg	20.7	8.8	10	04/15/25 08:25	04/16/25 06:20		
TPH - Diesel (C10-C28)	270	mg/kg	20.7	8.8	10	04/15/25 08:25	04/16/25 06:20		M0
Surrogates									
o-Terphenyl (S)	0	%	10-135		10	04/15/25 08:25	04/16/25 06:20	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	16.4	mg/kg	14.8	8.0	1	04/14/25 10:00	04/14/25 23:23		
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	77-185		1	04/14/25 10:00	04/14/25 23:23	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	19.3	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-58(6-7) Lab ID: 40293408018 Collected: 04/08/25 11:15 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	942	mg/kg	176	74.7	100	04/14/25 08:30	04/15/25 10:49		
TPH - Diesel (C10-C28)	2710	mg/kg	176	74.7	100	04/14/25 08:30	04/15/25 10:49		
Surrogates									
o-Terphenyl (S)	0	%	10-135		100	04/14/25 08:30	04/15/25 10:49	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	1400	mg/kg	550	299	50	04/14/25 10:00	04/15/25 18:06		D3
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%	77-185		50	04/14/25 10:00	04/15/25 18:06	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	4.8	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-56(1.5-2.5) Lab ID: 40293408019 Collected: 04/08/25 11:40 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	413	mg/kg	50.2	21.4	25	04/14/25 08:30	04/15/25 10:56		
TPH - Diesel (C10-C28)	426	mg/kg	50.2	21.4	25	04/14/25 08:30	04/15/25 10:56		
Surrogates									
o-Terphenyl (S)	0	%	10-135		25	04/14/25 08:30	04/15/25 10:56	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	<7.8	mg/kg	14.3	7.8	1	04/14/25 10:00	04/15/25 00:15		
Surrogates									
a,a,a-Trifluorotoluene (S)	88	%	77-185		1	04/14/25 10:00	04/15/25 00:15	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	16.9	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: DUP-TPH Lab ID: 40293408020 Collected: 04/08/25 11:45 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	423	mg/kg	40.8	17.3	20	04/14/25 08:30	04/15/25 11:04		
TPH - Diesel (C10-C28)	436	mg/kg	40.8	17.3	20	04/14/25 08:30	04/15/25 11:04		
Surrogates									
o-Terphenyl (S)	0	%	10-135		20	04/14/25 08:30	04/15/25 11:04	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	<8.6	mg/kg	15.8	8.6	1	04/14/25 10:00	04/15/25 00:41		
Surrogates									
a,a,a-Trifluorotoluene (S)	89	%	77-185		1	04/14/25 10:00	04/15/25 00:41	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	18.1	%	0.10	0.10	1		04/11/25 06:50		

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ANALYTICAL RESULTS

Project: 23-1845 Shirland

Pace Project No.: 40293408

Sample: SB-56(5.5-6.5) Lab ID: 40293408021 Collected: 04/08/25 11:50 Received: 04/09/25 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	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS THC-Diesel									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
TPH (C28-C36)	1670	mg/kg	515	219	200	04/15/25 08:25	04/16/25 08:52		
TPH - Diesel (C10-C28)	3820	mg/kg	515	219	200	04/15/25 08:25	04/16/25 08:52		
Surrogates									
o-Terphenyl (S)	0	%	10-135		200	04/15/25 08:25	04/16/25 08:52	84-15-1	S4
8015C Gasoline Range Organics									
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Green Bay									
TPH (C06-C10)	892	mg/kg	442	240	20	04/14/25 10:00	04/15/25 16:22		D3
Surrogates									
a,a,a-Trifluorotoluene (S)	90	%	77-185		20	04/14/25 10:00	04/15/25 16:22	98-08-8	S4
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	35.0	%	0.10	0.10	1		04/11/25 06:50		

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QUALITY CONTROL DATA

Project: 23-1845 Shirland

Pace Project No.: 40293408

QC Batch:	501764	Analysis Method:	EPA 8015C Modified
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	8015C Gasoline Range Organics
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40293408001, 40293408002, 40293408003, 40293408004, 40293408005, 40293408006, 40293408007, 40293408008, 40293408009, 40293408010, 40293408011, 40293408012, 40293408013		

METHOD BLANK:	2865082	Matrix:	Solid
Associated Lab Samples:	40293408001, 40293408002, 40293408003, 40293408004, 40293408005, 40293408006, 40293408007, 40293408008, 40293408009, 40293408010, 40293408011, 40293408012, 40293408013		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C10)	mg/kg	<5.4	10.0	5.4	04/11/25 14:25	
a,a,a-Trifluorotoluene (S)	%	82	77-185		04/11/25 14:25	

LABORATORY CONTROL SAMPLE & LCSD:		2865083	2865084							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH (C06-C10)	mg/kg	50	51.1	50.4	102	101	80-126	1	20	
a,a,a-Trifluorotoluene (S)	%				91	89	77-185			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			2865085		2865086							
Parameter	Units	40293408001	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
TPH (C06-C10)	mg/kg	<8.5	62.6	62.6	63.8	70.4	102	112	68-150	10	25	
a.a.a-Trifluorotoluene (S)	%						87	89	77-185			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2865087	2865088									
Parameter	Units	40293408005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C06-C10)	mg/kg	88.5	57.1	54.6	135	61.8	82	-49	68-150	75	25	M1,R1
a,a,a-Trifluorotoluene (S)	%						95	82	77-185			

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QUALITY CONTROL DATA

Project: 23-1845 Shirland

Pace Project No.: 40293408

QC Batch:	501909	Analysis Method:	EPA 8015C Modified
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	8015C Gasoline Range Organics
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40293408014, 40293408015, 40293408016, 40293408017, 40293408018, 40293408019, 40293408020, 40293408021		

METHOD BLANK:	2866061	Matrix:	Solid
Associated Lab Samples:	40293408014, 40293408015, 40293408016, 40293408017, 40293408018, 40293408019, 40293408020, 40293408021		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C10)	mg/kg	<5.4	10.0	5.4	04/14/25 18:12	
a,a,a-Trifluorotoluene (S)	%	84	77-185		04/14/25 18:12	

LABORATORY CONTROL SAMPLE & LCSD:		2866062	2866063							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH (C06-C10)	mg/kg	50	48.6	49.6	97	99	80-126	2	20	
a,a,a-Trifluorotoluene (S)	%				89	85	77-185			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			2866064		2866065							
Parameter	Units	40293408017	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
TPH (C06-C10)	mg/kg	16.4	62	62	72.8	78.1	91	100	68-150	7	25	
a.a.a-Trifluorotoluene (S)	%						107	92	77-185			

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QUALITY CONTROL DATA

Project: 23-1845 Shirland

Pace Project No.: 40293408

QC Batch: 501746

QC Batch Method: EPA 3546

Analysis Method: EPA 8015C Modified

Analysis Description: 8015C Solid GCSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40293408001

METHOD BLANK: 2865025

Matrix: Solid

Associated Lab Samples: 40293408001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C28-C36)	mg/kg	0.74J	1.7	0.71	04/14/25 06:46	
TPH - Diesel (C10-C28)	mg/kg	0.78J	1.7	0.71	04/14/25 06:46	
o-Terphenyl (S)	%	64	10-135		04/14/25 06:46	

LABORATORY CONTROL SAMPLE: 2865026

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C28-C36)	mg/kg		0.73J			
TPH - Diesel (C10-C28)	mg/kg	16.7	12.4	75	56-120	
o-Terphenyl (S)	%			77	10-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865027 2865028

Parameter	Units	40293408001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C28-C36)	mg/kg	76.1			130	164				23	50	
TPH - Diesel (C10-C28)	mg/kg	67.9	20.5	20.5	132	179	316	544	10-136	30	50	M0
o-Terphenyl (S)	%						0	0	10-135			S4

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QUALITY CONTROL DATA

Project: 23-1845 Shirland
Pace Project No.: 40293408

QC Batch:	501851	Analysis Method:	EPA 8015C Modified
QC Batch Method:	EPA 3546	Analysis Description:	8015C Solid GCSV
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40293408002, 40293408003, 40293408004, 40293408005, 40293408006, 40293408007, 40293408008, 40293408009, 40293408010, 40293408011, 40293408012, 40293408013, 40293408014, 40293408015, 40293408016, 40293408018, 40293408019, 40293408020		

METHOD BLANK:	2865889	Matrix:	Solid
Associated Lab Samples:	40293408002, 40293408003, 40293408004, 40293408005, 40293408006, 40293408007, 40293408008, 40293408009, 40293408010, 40293408011, 40293408012, 40293408013, 40293408014, 40293408015, 40293408016, 40293408018, 40293408019, 40293408020		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C28-C36)	mg/kg	<0.71	1.7	0.71	04/15/25 05:30	
TPH - Diesel (C10-C28)	mg/kg	1.1J	1.7	0.71	04/15/25 05:30	
o-Terphenyl (S)	%	65	10-135		04/15/25 05:30	

LABORATORY CONTROL SAMPLE:	2865890					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C28-C36)	mg/kg		<0.71			
TPH - Diesel (C10-C28)	mg/kg	16.7	14.1	85	56-120	
o-Terphenyl (S)	%			83	10-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2865891			2865892								
Parameter	Units	40293408005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C28-C36)	mg/kg	1110			898	1050				15	50	
TPH - Diesel (C10-C28)	mg/kg	897	18.3	18.3	713	909	-1010	64	10-136	24	50	M0
o-Terphenyl (S)	%						0	0	10-135			S4

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QUALITY CONTROL DATA

Project: 23-1845 Shirland

Pace Project No.: 40293408

QC Batch: 501980

Analysis Method: EPA 8015C Modified

QC Batch Method: EPA 3546

Analysis Description: 8015C Solid GCSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40293408017, 40293408021

METHOD BLANK: 2866267

Matrix: Solid

Associated Lab Samples: 40293408017, 40293408021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C28-C36)	mg/kg	<0.71	1.7	0.71	04/16/25 05:41	
TPH - Diesel (C10-C28)	mg/kg	0.99J	1.7	0.71	04/16/25 05:41	
o-Terphenyl (S)	%	63	10-135		04/16/25 05:41	

LABORATORY CONTROL SAMPLE: 2866268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C28-C36)	mg/kg		<0.71			
TPH - Diesel (C10-C28)	mg/kg	16.7	12.0	72	56-120	
o-Terphenyl (S)	%			73	10-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2866269 2866270

Parameter	Units	40293408017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C28-C36)	mg/kg	282			320	167				63	50	
TPH - Diesel (C10-C28)	mg/kg	270	20.7	20.7	358	200	426	-339	10-136	57	50	M0
o-Terphenyl (S)	%						0	0	10-135			S4

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QUALITY CONTROL DATA

Project: 23-1845 Shirland
Pace Project No.: 40293408

QC Batch:	501741	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40293408001, 40293408002, 40293408003		

SAMPLE DUPLICATE: 2865018

Parameter	Units	40293394004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.6	19.3	2	10	

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REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: 23-1845 Shirland

Pace Project No.: 40293408

QC Batch: 501748

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40293408004, 40293408005, 40293408006, 40293408007, 40293408008, 40293408009, 40293408010, 40293408011, 40293408012, 40293408013, 40293408014, 40293408015, 40293408016, 40293408017, 40293408018, 40293408019, 40293408020, 40293408021

SAMPLE DUPLICATE: 2865033

Parameter	Units	40293394010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.3	19.2	0	10	

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QUALIFIERS

Project: 23-1845 Shirland
Pace Project No.: 40293408

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.

BATCH QUALIFIERS

Batch: 501795

- [1] The default spike range of the standard used for QC evaluation is C10-C28. All other carbon ranges may recover outside of spike limits because they may not cover the range of the spike used.

Batch: 501933

- [1] The default spike range of the standard used for QC evaluation is C10-C28. All other carbon ranges may recover outside of spike limits because they may not cover the range of the spike used.

Batch: 502047

- [1] The default spike range of the standard used for QC evaluation is C10-C28. All other carbon ranges may recover outside of spike limits because they may not cover the range of the spike used.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.
D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1 RPD value was outside control limits.
S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 23-1845 Shirland
Pace Project No.: 40293408

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40293408001	SB-54(1.5-2.5)	EPA 3546	501746	EPA 8015C Modified	501795
40293408002	SB-54(7-8)	EPA 3546	501851	EPA 8015C Modified	501933
40293408003	SB-48(1.5-2.5)	EPA 3546	501851	EPA 8015C Modified	501933
40293408004	SB-48(6-7)	EPA 3546	501851	EPA 8015C Modified	501933
40293408005	SB-49(1.5-2.5)	EPA 3546	501851	EPA 8015C Modified	501933
40293408006	SB-49(6-7)	EPA 3546	501851	EPA 8015C Modified	501933
40293408007	SB-51(1.5-2.5)	EPA 3546	501851	EPA 8015C Modified	501933
40293408008	SB-51(6-7)	EPA 3546	501851	EPA 8015C Modified	501933
40293408009	SB-55(1.5-2.5)	EPA 3546	501851	EPA 8015C Modified	501933
40293408010	SB-55(7-8)	EPA 3546	501851	EPA 8015C Modified	501933
40293408011	SB-52(1.5-2.5)	EPA 3546	501851	EPA 8015C Modified	501933
40293408012	SB-52(7-8)	EPA 3546	501851	EPA 8015C Modified	501933
40293408013	SB-50(2.5-3.5)	EPA 3546	501851	EPA 8015C Modified	501933
40293408014	SB-50(6.5-7.5)	EPA 3546	501851	EPA 8015C Modified	501933
40293408015	SB-57(2-3)	EPA 3546	501851	EPA 8015C Modified	501933
40293408016	SB-57(6.5-7.5)	EPA 3546	501851	EPA 8015C Modified	501933
40293408017	SB-58(1.5-2.5)	EPA 3546	501980	EPA 8015C Modified	502047
40293408018	SB-58(6-7)	EPA 3546	501851	EPA 8015C Modified	501933
40293408019	SB-56(1.5-2.5)	EPA 3546	501851	EPA 8015C Modified	501933
40293408020	DUP-TPH	EPA 3546	501851	EPA 8015C Modified	501933
40293408021	SB-56(5.5-6.5)	EPA 3546	501980	EPA 8015C Modified	502047
40293408001	SB-54(1.5-2.5)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293408002	SB-54(7-8)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293408003	SB-48(1.5-2.5)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293408004	SB-48(6-7)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293408005	SB-49(1.5-2.5)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293408006	SB-49(6-7)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293408007	SB-51(1.5-2.5)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293408008	SB-51(6-7)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293408009	SB-55(1.5-2.5)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293408010	SB-55(7-8)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293408011	SB-52(1.5-2.5)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293408012	SB-52(7-8)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293408013	SB-50(2.5-3.5)	EPA 5035A/5030B	501764	EPA 8015C Modified	501794
40293408014	SB-50(6.5-7.5)	EPA 5035A/5030B	501909	EPA 8015C Modified	501966
40293408015	SB-57(2-3)	EPA 5035A/5030B	501909	EPA 8015C Modified	501966
40293408016	SB-57(6.5-7.5)	EPA 5035A/5030B	501909	EPA 8015C Modified	501966
40293408017	SB-58(1.5-2.5)	EPA 5035A/5030B	501909	EPA 8015C Modified	501966
40293408018	SB-58(6-7)	EPA 5035A/5030B	501909	EPA 8015C Modified	501966
40293408019	SB-56(1.5-2.5)	EPA 5035A/5030B	501909	EPA 8015C Modified	501966
40293408020	DUP-TPH	EPA 5035A/5030B	501909	EPA 8015C Modified	501966
40293408021	SB-56(5.5-6.5)	EPA 5035A/5030B	501909	EPA 8015C Modified	501966
40293408001	SB-54(1.5-2.5)	ASTM D2974-87	501741		
40293408002	SB-54(7-8)	ASTM D2974-87	501741		
40293408003	SB-48(1.5-2.5)	ASTM D2974-87	501741		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 23-1845 Shirland

Pace Project No.: 40293408

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40293408004	SB-48(6-7)	ASTM D2974-87	501748		
40293408005	SB-49(1.5-2.5)	ASTM D2974-87	501748		
40293408006	SB-49(6-7)	ASTM D2974-87	501748		
40293408007	SB-51(1.5-2.5)	ASTM D2974-87	501748		
40293408008	SB-51(6-7)	ASTM D2974-87	501748		
40293408009	SB-55(1.5-2.5)	ASTM D2974-87	501748		
40293408010	SB-55(7-8)	ASTM D2974-87	501748		
40293408011	SB-52(1.5-2.5)	ASTM D2974-87	501748		
40293408012	SB-52(7-8)	ASTM D2974-87	501748		
40293408013	SB-50(2.5-3.5)	ASTM D2974-87	501748		
40293408014	SB-50(6.5-7.5)	ASTM D2974-87	501748		
40293408015	SB-57(2-3)	ASTM D2974-87	501748		
40293408016	SB-57(6.5-7.5)	ASTM D2974-87	501748		
40293408017	SB-58(1.5-2.5)	ASTM D2974-87	501748		
40293408018	SB-58(6-7)	ASTM D2974-87	501748		
40293408019	SB-56(1.5-2.5)	ASTM D2974-87	501748		
40293408020	DUP-TPH	ASTM D2974-87	501748		
40293408021	SB-56(5.5-6.5)	ASTM D2974-87	501748		

REPORT OF LABORATORY ANALYSIS

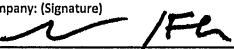
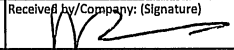
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

 Pace® Location Requested (City/State): Pace Analytical Green Bay 1241 Bellevue Street, Suite 9 Green Bay, WI 54302		CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields		LAB USE ONLY- Affix Workorder/Login Label Here  40293408 Scan QR Code for instructions						
Company Name: Fehr Graham_Rockford, IL Street Address: 200 Prairie Street Suite 208 Rockford, IL 61107		Contact/Report To: Tony Guajardo Phone #: (815)394-4700 E-Mail: aguajardo@fehr-graham.com Cc E-Mail:								
Customer Project #: 23-1845 Project Name: Shirland Supplemental Investigation		Invoice To: Accounts Payable Invoice E-Mail: ap@fehr-graham.com Purchase Order # (if applicable): Quote #:								
Site Collection Info/Facility ID (as applicable):		County / State origin of sample(s): Illinois								
Time Zone Collected: [] AK [] PT [] MT ☒ CT [] ET		Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No								
Data Deliverables: [] Level II [] Level III [] Level IV [] EQUIS [] Other		Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other		DW PWSID # or WW Permit # as applicable:						
		Date Results Requested:		Field Filtered (if applicable): [] Yes [] No Analysis:						
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)										
Customer Sample ID		Matrix *	Comp / Grab	Composite Start		Collected or Composite End		#	Res. Chlorine	
				Date	Time	Date	Time	Cont.	Results	Units
SB-54 (1.5-2.5)		SS	6			4/8	0820	7		
SB-54 (7-8)		SS	6			4/8	0825	3		
SB-48 (1.5-2.5)		SS	6			4/8	0845	3		
SB-48 (6-7)		SS	6			4/8	0850	3		
SB-49 (1.5-2.5)		SS	6			4/8	0910	3		
SB-49 (6-7)		SS	6			4/8	0915	3		
SB-51 (1.5-2.5)		SS	6			4/8	0930	3		
SB-51 (6-7)		SS	6			4/8	0933	3		
SB-55 (1.5-2.5)		SS	6			4/8	0950	3		
SB-55 (7-8)		SS	6			4/8	0955	3		
Additional Instructions from Pace®:		Collected By: (Printed Name) Tony Guajardo Signature:		Customer Remarks / Special Conditions / Possible Hazards:						
				# Coolers: 1 Thermometer ID: 143 Correction Factor (°C): 0 Obs. Temp. (°C): 40 Corrected Temp. (°C): 40 On Ice:						
Relinquished by/Company: (Signature) [Signature] / FR		Date/Time: 4/8 / 1700		Received by/Company: (Signature)		Date/Time:		Tracking Number:		
Relinquished by/Company: (Signature) FedEx		Date/Time: 4/8/25 0950		Received by/Company: (Signature) [Signature]		Date/Time: 4/8/25 0950		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: 1 of 3		

 Pace® Location Requested (City/State): Pace Analytical Green Bay 1241 Bellevue Street, Suite 9 Green Bay, WI 54302		CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields		LAB USE ONLY- Affix Workorder/Login Label Here  Scan QR Code for instructions 40293408									
Company Name: Fehr Graham_Rockford, IL Street Address: 200 Prairie Street Suite 208 Rockford, IL 61107		Contact/Report To: Tony Guajardo Phone #: (815)394-4700 E-Mail: aguajardo@fehr-graham.com Cc E-Mail:											
Customer Project #: 23-1845 Project Name: Shirland Supplemental Investigation		Invoice To: Accounts Payable Invoice E-Mail: ap@fehr-graham.com Purchase Order # (if applicable): Quote #:		Specify Container Size ** 10 10 10 6 10 Identify Container Preservative Type*** 1 1 1 10 1 Analysis Requested									
Site Collection Info/Facility ID (as applicable):		County / State origin of sample(s): Illinois		***Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other *** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other									
Time Zone Collected: [] AK [] PT [] MT [X] CT [] ET		Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No		Proj. Mgr: Christopher Hyska AcctNum / Client ID:									
Data Deliverables: [] Level II [] Level III [] Level IV [] EQUIS [] Other		Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other		Table #:									
		Date Results Requested:		Profile / Template: 8636									
		Field Filtered (if applicable): [] Yes [] No Analysis:		Prelog / Bottle Ord. ID: EZ 3240322									
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)				Sample Comment									
Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date Time	Collected or Composite End Date Time	# Cont.	Res. Chlorine Results Units	6020B Cr, 9045 pH, 6010 SPLP Cr	6020B Lead, 9045 pH	8015C TPH DRO, ERO; Dry weight	8015C TPH GRO	IL Code R + TCLP Pest/Herb	Lab Use Only	Preservation non-conformance identified for sample.
SB-52(1.5-2.5)	SS	6		4/8 1010	3				X X				011
SB-52(7-8)	SS	6		4/8 1015	3				X X				012
SB-50(2.5-3.5)	SS	6		4/8 1030	3				X X				013
SB-50(6.5-7.5)	SS	6		4/8 1035	3				X X				014
SB-57(2-3)	SS	6		4/8 1050	3				X X				015
SB-57(6.5-7.5)	SS	6		4/8 1055	3				X X				016
SB-58(1.5-2.5)	SS	6		4/8 1110	9				X X				MS/MSD 017
SB-58(6-7)	SS	6		4/8 1115	3				X X				018
SB-56(1.5-2.5)	SS	6		4/8 1140	3				X X				019
DUP-TPH	SS	6		4/8 1145	3				X X				020
Additional Instructions from Pace®:		Collected By: (Printed Name) Tony Guajardo Signature:		Customer Remarks / Special Conditions / Possible Hazards:		# Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C) On Ice:							
Relinquished by/Company: (Signature) [Signature] / PH		Date/Time: 4/8 / 1700		Received by/Company: (Signature)		Date/Time:		Tracking Number:					
Relinquished by/Company: (Signature) FedEx		Date/Time: 4/8/15 0950		Received by/Company: (Signature) [Signature]		Date/Time: 4/8/15 0950		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: 2 of 3					

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at <https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/>

ENV-FRM-CORQ-0019_v02_110123 ©

Pace Pace® Location Requested (City/State): Pace Analytical Green Bay 1241 Bellevue Street, Suite 9 Green Bay, WI 54302		CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields				LAB USE ONLY- Affix Workorder/Login Label Here  40293408 Scan QR Code for instructions										
Company Name: Fehr Graham_Rockford, IL Street Address: 200 Prairie Street Suite 208 Rockford, IL 61107		Contact/Report To: Tony Guajardo Phone #: (815)394-4700 E-Mail: aguajardo@fehr-graham.com Cc E-Mail:		Invoice To: Accounts Payable Invoice E-Mail: ap@fehr-graham.com Purchase Order # (if applicable): Quote #:		Specify Container Size ** 10 10 10 6 10				**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other						
Customer Project #: 23-1845 Project Name: Shirland Supplemental Investigation Site Collection Info/Facility ID (as applicable):		County / State origin of sample(s): Illinois		Identify Container Preservative Type*** 1 1 1 10 1				*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other								
Time Zone Collected: [] AK [] PT [] MT ☒ CT [] ET		Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No		Analysis Requested				Proj. Mgr: Christopher Hyska AcctNum / Client ID: Table #: Profile / Template: 8636 Prelog / Bottle Ord. ID: EZ 3240322 Sample Comment								
Data Deliverables: [] Level II [] Level III [] Level IV [] EQUIS [] Other		Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other		Field Filtered (if applicable): [] Yes [] No Analysis:				Preservation non-conformance identified for sample.								
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)																
Customer Sample ID		Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine		60208 Cr, 9045 pH, 6010 SPLP Cr 60208 Lead, 9045 pH 8015C TPH DRO, ERO; Dry weight 8015C TPH GRO IL Code R + TCLP Pest/Herb					
SB-56(S.5-6.5)		SS	G	Date	Time	Date	Time		Results	Units						
Additional Instructions from Pace®:				Collected By: Tony Guajardo. Signature:				Customer Remarks / Special Conditions / Possible Hazards: # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C) On Ice:								
Relinquished by/Company: (Signature)  / Fe		Date/Time: 4/8 / 1700		Received by/Company: (Signature)				Date/Time:				Tracking Number:				
Relinquished by/Company: (Signature) Fedex		Date/Time: 4/8/15 0950		Received by/Company: (Signature) 				Date/Time: 4/8/15 0950				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: 3 of 3				

Sample Preservation Receipt Form

Client Name: Fehr Graham

Project # 40293408

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						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	JG9U	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2						
001																3	4	8	6		3												2.5 / 5
002																		2			1												2.5 / 5
003																		2			1												2.5 / 5
004																		2			1												2.5 / 5
005																		6			3												2.5 / 5
006																		2			1												2.5 / 5
007																		2			1												2.5 / 5
008																		2			1												2.5 / 5
009																		2			1												2.5 / 5
010																		2			1												2.5 / 5
011																		2			1												2.5 / 5
012																		2			1												2.5 / 5
013																		2			1												2.5 / 5
014																		2			1												2.5 / 5
015																		2			1												2.5 / 5
016																		2			1												2.5 / 5
017																		6			3												2.5 / 5
018																		2			1												2.5 / 5
019																		2			1												2.5 / 5
020																		2			1												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	JG9U 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	WG9U 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

Project #: 40293408

[illegible]Page 2 of 3

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: Felvy Graham

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Purple Mountain
☐ Client ☐ Pace Other: _____

Tracking #: 509249348309

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 - 143 Type of Ice: ☒ Wet ☐ Blue Dry ☐ None ☐ Meltwater Only

Cooler Temperature Uncorr: 40 /Corr: 4.0

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: 4/10/16 /Initials: mt

Labeled By Initials: MCN

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: <u>Pace Green Bay</u> , 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: <u>S</u>		
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 3 of 3

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