

Former Railroad Grade Property
Parcel Identification Numbers: 05-44-014-032-60 and 05-44-013-062-10
Banks Township, Antrim County, Michigan

SUBSURFACE INVESTIGATION

June 30, 2026

Prepared For:

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Otwell Mawby Project No. 26-132

Environmental ▪ Brownfield ▪ Asbestos

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1.0 INTRODUCTION

Otwell Mawby, P.C. (Otwell Mawby) conducted a subsurface investigation associated with two contiguous parcels that were historically developed as railroad grades and are situated to the north of Center Street and south of Church Street in Banks Township, Antrim County Michigan (hereafter referred to as the subject property). The general location and approximate boundaries of the subject property are shown on the attached Figure 1. Tax assessment records obtained from the Antrim County Equalization Department, which summarize details of the subject property are contained in the following table.

Parcel Identification Number	Parcel Address	Parcel Owner	Current Development
05-44-013-062-10	Not Assigned	Banks Township	Recreational Trail
<u>Legal Description:</u> COM AT E 1/4 COR, TH S 77.67 FT TO POB, TH N 82 DEG E 75.40 FT TO E R/W LINE OF SD RR, TH ALG E RR R/W CHORD BEARS S 04 DEG W 839.60 FT, TH CONT ALG E RR S 17 DEG W 51.02 FT TO E LINE OF SEC 14, SD PT ALSO BEING THE N CORNER OF LOT 233, TH N TO W SEC LINE AND W LINE OF ABANDONED RR, TH NLY ALG W RR R/W TO THE POB, BEING PART OF W 1/2 OF W 1/2 SEC 13 T32N R8W			
05-44-014-032-60	6503 Center Street	Banks Township – Fire Hall	Recreational Trail
<u>Legal Description:</u> COM AT INTERS OF E SEC LINE & N COR OF LOT 233 FOR POB, TH S 90.31 FT, TH S 52 DEG W 105.43 FT, TH S 03 DEG W 232.64 FT TO N R/W LINE OF CENTER ST, TH N 87 DEG W 122.84 FT TO W R/W LINE OF ABANDONED RR, TH N ALG SD R/W N 17 DEG E 482.37 FT, TH CONT NLY ALG SD W R/W TO E SEC LINE, TH S ON E SEC LINE TO THE POB, EXC COM AT SE COR OF LOT 134, TH S 87 DEG E 25 FT, TH N TO W R/W OF SD RR, TH SLY ALG SD W R/W TO THE POB SEC 14 T32N R8W			

1.1 Site History and Investigation Purpose

It is our understanding that a railroad grade historically extended through the subject property but it has since been converted into a recreational trail that extends offsite. Reportedly, the historical presence of the railroad grade and the associated ballast have resulted in concerns from area residents that impacts from these operations may be present that could result in an unacceptable exposure to users of the created recreational trail that has been established on top of the former railroad grade. Our investigation was designed to evaluate potential environmental impacts to the near surface soils onsite. Banks Township supplied Otwell Mawby with a document (Appendix A) from CSX Railroad, which details the minimum sampling, soil management, and capping requirements for rail-to-trails conversion of railroad corridors.

Based on our review of the document, the following relate to the subject property based on its historical use.

1. Surface soils should be sampled as follows:
 - a. Adjacent to any existing or former buildings, bridges, signals, etc.
 - b. At former switch or rail-to-rail crossings, collect a minimum of three composite samples.
 - c. Along the remaining rail corridor:
 - i. Collect a minimum of 10 composite samples
 - d. Samples should be collected from the upper six inches of soil taking into consideration State standards concerning direct exposure.
 - e. Analyzed samples for arsenic, lead and polycyclic aromatic hydrocarbons (PAHs).

As the remnants of the former railroad grade were reportedly removed prior to the recreational trail being established, which would have resulted in disturbances to the former surface soils, Otwell Mawby recommended the following modifications to the above sampling be completed:

1. Complete one soil boring every 100 feet to evaluate if remnants of the former railroad ballast remain onsite.
 - a. At the trail intersection with Center Street approximately 85 feet of asphalt/ concrete is present, the borings were advanced to the north in areas of non-hard surfacing.
 - b. Complete discrete sampling where evidence of environmental impact is identified within each of the borings or at the depth where impact would most likely be identified.
 - c. Evaluate soils within the top 1.5 to two feet of the ground surface. Historically, the Michigan Department of Environment, Great Lakes, and Energy (EGLE) recommended evaluating soil within the top six inches for potential direct contact exposures. However, in 2024, EGLE released an update to their recommendation, which suggests 12" is appropriate for active recreational non-motorized trails (biking, walking, etc.) when a potential unacceptable exposure to the direct contact pathway is present. The proposed boring depth was designed to provide both a determination of the direct contact pathway evaluation and determine if ballast remains below the recommended depth.
 - d. Analysis of soil samples was recommended to include PAHs, Michigan 10 Metals (Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Mercury, Selenium, Silver, and Zinc), and polychlorinated biphenyls (PCBs), which are typical constituents associated with railroad grade impacts.

Additional details of the investigation are discussed in the following section.

2.0 FIELD INVESTIGATION ACTIVITIES

On June 18, 2026, Otwell Mawby personnel mobilized to the subject property to conduct the investigation to evaluate potential impacts to site soils from the presence of the historical railroad grade. Details of the investigation are discussed below.

2.1 Investigation Activities

Samples were collected from areas indicated to have the greatest likelihood of environmental impact based on our observations of the cuttings within each boring. The soil borings were advanced using a stainless-steel hand auger. As each boring was advanced soils were continuously screened for potential visual, olfactory and qualitative measurement of potential volatiles using a photoionization detector (PID). Upon completion of sampling activities, the boreholes were filled with a mixture of natural cuttings and bentonite. Between the boring locations, the hand auger was cleaned to prevent cross contamination between borings with a solution of trisodium phosphate (TSP) and rinsed with deionized water.

Collected soil samples were placed directly into laboratory supplied containers and placed on ice within a cooler until delivery to the selected laboratory for analysis. Select soil samples were submitted under chain-of-custody to ALS Environmental (ALS) of Traverse City and Holland, Michigan for laboratory analysis of PAHs, Michigan 10 Metals and PCBs.

2.2 Soil Sampling Activities

During the investigation 13, soil borings, identified as B-1 through B-13 were advanced, the locations of which are depicted on the attached Figure 2. A summary of the conditions encountered at each boring location is summarized in the table on the following table.

Boring I.D.	Total Depth (ft.)	Boring Location (Latitude/ Longitude)	Soil Sample Depth (ft below ground level (fbgl) for Potential Laboratory Analysis)	Observations/ Notes	Laboratory Analyses Performed
B-1	2.0'	45° 9'56.39"N/ 85°14'39.21"W	2.0'	No evidence of historical railroad ballast. No PID, Visual or Olfactory Evidence of Impact.	PAHs, PCBs, MI 10 Metals
B-2	2.0'	45° 9'57.15"N/ 85°14'38.40"W	2.0'	No evidence of historical railroad ballast. No PID, Visual or Olfactory Evidence of Impact.	PAHs, PCBs, MI 10 Metals
B-3	1.5'	45° 9'58.09"N/ 85°14'37.94"W	1.0'	Some cobble present that could be historical railroad ballast @ 1-1.5'. No PID, Visual or Olfactory Evidence of Impact.	PAHs, PCBs, MI 10 Metals
B-4	1.5'	45° 9'59.07"N/ 85°14'37.56"W	1.0'	Some cobble present that could be historical railroad ballast @ 1-1.5'. No PID, Visual or Olfactory Evidence of Impact.	PAHs, PCBs, MI 10 Metals
B-5	1.5'	45°10'0.01"N/ 85°14'37.13"W	1.0'	Some cobble present that could be historical railroad ballast @ 1-1.5'. No PID, Visual or Olfactory Evidence of Impact.	PAHs, PCBs, MI 10 Metals
B-6	1.5'	45°10'0.95"N/ 85°14'36.80"W	1.25'	Some cobble present that could be historical railroad ballast @ 1-1.5'. No PID, Visual or Olfactory Evidence of Impact.	PAHs, PCBs, MI 10 Metals
B-7	2.25'	45°10'1.91"N/ 85°14'36.47"W	2.0'	Some cobble present that could be historical railroad ballast @ 2-2.25'. No PID, Visual or Olfactory Evidence of Impact.	PAHs, PCBs, MI 10 Metals
B-8	1.75'	45°10'2.85"N/ 85°14'36.21"W	1.5'	Some cobble present that could be historical railroad ballast @ 1-1.75'. No PID, Visual or Olfactory Evidence of Impact.	PAHs, PCBs, MI 10 Metals
B-9	1.75'	45°10'3.82"N/ 85°14'36.00"W	1.75'	Some cobble present that could be historical railroad ballast @ 1-1.75'. No PID, Visual or Olfactory Evidence of Impact.	PAHs, PCBs, MI 10 Metals
B-10	2.0'	45°10'4.81"N/ 85°14'36.04"W	1.0'	No evidence of historical railroad ballast. No PID, Visual or Olfactory Evidence of Impact.	PAHs, PCBs, MI 10 Metals
B-11	2.0'	45°10'5.79"N/ 85°14'36.04"W	2.0'	Fill with coal fragments @ 0-1.25'. No PID, Visual or Olfactory Evidence of Impact.	PAHs, PCBs, MI 10 Metals
B-12	2.0'	45°10'6.77"N/ 85°14'36.04"W	2.0'	Some cobble present that could be historical railroad ballast @ 0.75-2.0'. No PID, Visual or Olfactory Evidence of Impact.	PAHs, PCBs, MI 10 Metals
B-13	1.25'	45°10'7.77"N/ 85°14'36.16"W	1.25'	Cobble present that could be historical railroad ballast @ 1.25'. Offset boring three times but couldn't advance deeper due to cobbles. No PID, Visual or Olfactory Evidence of Impact.	PAHs, PCBs, MI 10 Metals
fbgl – feet below ground level					

Laboratory analytical results for the soil samples are discussed in Section 3.0 of this Report.

3.0 FINDINGS AND ANALYTICAL RESULTS

The findings of the investigation are presented below. The analytical laboratory report for the analyzed soil samples is attached as Appendix B. The laboratory analytical results are also summarized on the attached Table 1.

3.1 Soil Investigation Findings

The following sections summarize the findings of the investigation.

3.1.1 Site Geology

The borings were advanced along a recreational trail that is gravel covered. The trail was reportedly placed over the remnants of a historical railroad grade. The railroad ties are not visible but the extent of the ballast removal was not known. Each of the borings were advanced to a maximum depth of two feet below ground level (bgl). Details of the subsurface conditions encountered at each boring location are summarized in the following table.

Boring I.D.	Total Depth (ft.)	Subsurface Conditions encountered
B-1	2.0'	Grass on surface Sand; fine to medium grained, brown with some cobbles and gravel
B-2	2.0'	Grass/ exposed soil on surface 0-1', Sand; fine to medium grained, brown with some cobbles and gravel 1-2', Sand; fine to medium grained, tan with some cobble and trace gravel
B-3	1.5'	Grass/ exposed soil on surface 0-1', Sand; fine to medium grained, dark brown with some cobbles and gravel 1-2', Sand; fine to medium grained, tan with some cobble (possible fill)
B-4	1.5'	Grass/ exposed soil on surface 0-1', Sand; fine to medium grained, dark brown with cobbles and some gravel 1-1.5', Sand; fine to medium grained, tan with some cobble (possible fill)
B-5	1.5'	Exposed soil/ gravel on surface 0-1', Gravely sand; medium to coarse grained, dark brown with cobbles 1-1.5', Sand; fine to medium grained, tan with some cobble (possible fill)
B-6	1.5'	Exposed soil/ gravel on surface 0-1', Gravely sand; medium to coarse grained, dark brown with cobbles 1-1.5', Sand; fine to medium grained, tan with some cobble (possible fill)
B-7	2.25'	Exposed soil/ gravel on surface 0-2.0', Gravely sand; medium to coarse grained, dark brown with cobbles 2.0-2.25', Sand; fine to medium grained, tan with occasional cobble (possible fill)

Continued from previous page:

Boring I.D.	Total Depth (ft.)	Subsurface Conditions encountered
B-8	1.75'	Exposed soil/ gravel on surface 0-1.5', Gravely sand; medium to coarse grained, dark to light brown with cobbles 1.5-1.75', Sand; fine to medium grained, tan with some gravel and occasional cobble (possible fill)
B-9	1.75'	Exposed soil/ gravel on surface 0-1.5', Gravely sand; medium to coarse grained, dark to light brown with cobbles 1.5-1.75', Sand; fine to medium grained, tan with some gravel and occasional cobble (possible fill)
B-10	2.0'	Exposed soil/ gravel on surface 0-1.0', Gravely sand; medium to coarse grained, dark brown with cobbles 1.0-2.0', Clay (crumbly), light tan; dry
B-11	2.0'	Exposed soil/ gravel on surface 0-1.25', Gravely sand; medium to coarse grained, dark brown to brown, trace coal fragments and occasional cobbles 1.25-2.0', Sand; fine to coarse grained, tan with some gravel (possible fill)
B-12	2.0'	Exposed soil/ gravel on surface 0-0.25', Gravely sand; medium to coarse grained, dark brown to brown, with some cobbles 0.75-2.0', Sand; fine to medium grained, tan with some gravel (possible fill)
B-13	1.25'	Exposed soil/ gravel on surface 0-1.25', Gravely sand; medium to coarse grained, dark brown to brown, with some cobbles Due to cobbles at 1.25' the boring could not be advanced further; three offsite attempts made with same result

Within each of the borings potential evidence of historical railroad ballast was observed (cobbles). At the B-11 location evidence of coal was observed between the surface and a depth of 1.25 feet bgl. Coal is sometimes found along railroad grades and is also a common element of non-natural urban fill materials. Groundwater was not encountered within any of the borings.

3.1.2 Analytical Results

For an initial comparison, the results of the analyzed soils samples are compared to the Generic Cleanup Criteria (GCC) for residential uses, which is the most restrictive criteria. The GCC was established under Part 201 of MI P.A. 451 of 1994, as amended. While there are currently no structures present onsite, the analytical results were also compared to the EGLE Volatilization to Indoor Air Pathway (VIAP) Screening Levels (Rev. Feb. 2025) as a way to evaluate potential concerns associated with this exposure pathway. Laboratory analytical results for the analyzed soil samples are discussed in the following section.

3.1.2.1 Soil Analytical Results

The following table details the laboratory analytical results within soil samples that contained constituent concentrations in excess of GCC and/ or the EGLE Residential VIAP Screening Levels, dated February 2024. Additionally, each of the samples contained constituents in excess of the laboratory method detection limits (MDLs) but they were not identified at concentrations in excess GCC and/ or the VIAP Screening Levels. The attached Table 1, provides a complete summary of the laboratory analytical results. The laboratory analytical report is contained in Appendix B. The soil boring locations are depicted on the attached Figure 2.

Boring/ Sample I.D.	Soil Sample Depth (fbgl)	Parameter Exceeding GCC/ Screening Level	Parameter Analytical Result (ug/Kg (Soil))	GCC/ Screening Level Exceeded
B-1	2.0'	Mercury Zinc Phenanthrene	88 180,000 2,500	GSIP, RVIAPSL GSIP GSIP, RVIAPSL
B-8	1.5'	Mercury Benzo(a)pyrene	220 3,400	GSIP, RVIAPSL DC
B-9	1.5'	Arsenic Copper Zinc Benzo(a)pyrene Fluoranthene	7,100 66,000 370,000 4,600 10,000	DWP, GSIP GSIP GSIP DC GSIP
B-10	1.0'	Mercury Zinc Benzo(a)pyrene	160 400,000 3,000	GSIP, RVIAPSL GSIP DC
B-11	1.25'	Mercury	350	GSIP, RVIAPSL
B-13	1.25'	Mercury Phenanthrene	180,000	GSIP, RVIAPSL RVIAPSL
fbgl = Feet Below Ground Level ug/Kg = microgram/kilogram (Soil - ug/Kg, ppb) DWP = Drinking Water Protection Criteria GSIP = Groundwater Surface Water Interface Protection Criteria DC = Direct Contact Criteria RVIAPSL = Residential Volatilization to Indoor Air Pathway (VIAP) Screening Level				

The GCC and VIAP exceedances indicates environmental impact is present onsite that is likely the result of historical railroad operations.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Our investigation was designed to evaluate potential environmental impacts to the near surface soils onsite from the historical presence of a railroad grade. In light of the findings presented in Section 3.0 of this report, the following conclusions and recommendations are presented.

4.1 Summary of the Findings

A summary of the findings of our field investigation activities and the laboratory analysis are as follows:

- To evaluate the potential for onsite environmental impact, 13 soil borings were advanced and one soil sample from each boring was obtained and were submitted for laboratory analysis of various chemical constituents associated with railroad grades.
- Six of the analyzed soil samples contained constituents at concentrations in excess of GCC; specifically, the Drinking Water Protection, Groundwater Surface Water Interface Protection, and Direct Contact Criteria. Based on the exceedances, which show environmental impact is present onsite, the subject property meets the definition of a “Facility” as defined by Part 201 of Michigan Act 451 of 1994, as amended. Exceedances to the VIAP Screening Levels were also identified, which indicates the vapor intrusion pathway could be relevant in the event a structure was present onsite.

4.2 Recommendations

As a result of the findings of our investigation, Otwell Mawby makes the following recommendations:

The GCC exceedances have determined site soils are impacted above GCC, which indicates the subject property meets the definition of a “Facility”, as defined by Part 201 of Michigan Act 451 of 1994, as amended. Once a property owner/ operator is aware of environmental impacts under Part 201, specifically, Section 20107a of Part 201 of Act 451 (the Natural Resources and Environmental Protection Act (NREPA)), of 1994, as amended, including the Part 9 Rules, has “Due Care Obligations, which include the following:

1. Undertake measures as are necessary to prevent exacerbation;
2. Exercise due care by undertaking response activity necessary to mitigate unacceptable exposure to hazardous substances, mitigate fire and explosion hazards due to hazardous substances, and allow for the intended use of the facility in a manner that protects the public health and safety;
3. Take reasonable precautions against the reasonably foreseeable acts or omissions of a third party and the consequences that foreseeably could result from those acts or omissions;
4. Provide reasonable cooperation, assistance, and access to the persons that are authorized to conduct response activities at the facility, including the cooperation and access necessary for the installation, integrity, operation, and maintenance of any complete or partial response activity at the facility. Nothing in this subdivision shall be interpreted to provide any right of access not expressly authorized by law, including access authorized pursuant to a warrant or a court order, or to preclude access allowed pursuant to a voluntary agreement;
5. Comply with any land use or resource use restrictions established or relied on in connection with the response activities at the facility; and
6. Not impede the effectiveness or integrity of any land use or resource use restriction employed at the facility in connection with response activities.

Review of the analytical results indicates constituents were identified in excess of three exposure pathways, the DWP, GSIP, and DC Criteria. Discussion for each of these exposure pathways are detailed below.

- For the DWP pathway to be complete there would need to be a water well present onsite and water ingested. As of the date of our onsite investigation there are no water wells present onsite. Installation of a water well onsite for potable, irrigation or other use would require evaluation of the aquifer. Additionally, the permitting process would require the local Health Department and/or EGLE be contacted to determine permitting requirements for use of site groundwater.
- For the GSIP to be considered relevant or a complete pathway surface water would have to exist or be in relative proximity to the subject property. There are no onsite water bodies and the nearest offsite surface water is located approximately 300 feet to the southeast. Based on the distance between the subject property and the nearest offsite surface water it is not thought that the GSIP would be a relevant or complete pathway. However, in order to prevent exacerbation of the impacts, in the event stormwater management structures were to be installed, additional evaluation would be warranted.
- The analytical data shows exceedances of the DC Criteria in three samples (B-8 through B-10) for residential scenarios. None of the exceedances were in excess of the Nonresidential GCC. Our samples were collected from the depths most likely to contain environmental impact and show this pathway could be complete. In order to further evaluate this exposure pathway

additional evaluation (sampling) would be required and/ or a site-specific criteria generated for a recreational use. In the event mitigation would be required and the impacts weren't removed, according to EGLE, in areas where DC Criteria exceedances are known an exposure barrier should be installed to prevent a potentially unacceptable exposure. An exposure barrier would be comprised of a demarcation layer, comprised of a brightly color geotextile fabric (either MIRAFI 140NLO or TerraTex SD) is to be installed below clean fill. For a passive recreational trail that has a gravel surface, there should be six inches of clean cover and at an active recreational trail 12 inches of clean cover is needed.

Several of the samples also included exceedances to the VIAP Screening Levels. Currently, there are no structures present onsite so this pathway is not relevant. However, in the event a structure was built onsite evaluation of this pathway would be warranted.

- On September 30, 2024, EGLE issued an update to their guidance document related to the VIAP Evaluation of a Dispersed Vapor Source Under Part 201. Review of the document in relation to evaluation of the VIAP for mercury in soil indicates that “unless there is a known or suspected release of elemental mercury at a site, evaluation of the VIAP for mercury is not required by EGLE regardless of the soil concentrations of total mercury. Mercury is a common contaminant present in soil and urban fill and may exist in the environment as multiple chemical species, many of which are not volatile. Soil gas sampling data for mercury at sites where soil exceeds Screening Levels or Criteria has demonstrated that the mercury is highly unlikely to be present at concentrations that could pose an unacceptable risk to the VIAP. The presence of mercury in soil and urban fill is not considered a release of elemental mercury; however, this does not eliminate the requirement to evaluate total mercury in soil to assess other exposure pathways.” As mercury was identified in fill, further evaluation related to mercury and the VIAP is not considered relevant, although, if a structure was present onsite further evaluation associated with phenanthrene would be warranted.

To prevent a potential exposure to site workers during maintenance/ redevelopment that would disturb the subsurface and ensure due care obligations are met, an Environmental Construction Management Plan (ECMP) and/ or an Operations, Maintenance, and Monitoring (OM&M) Plan should be completed prior to disturbance of the ground surface.

A Due Care Plan should also be completed as part of the redevelopment to evaluate the uses of the property. The Plan would outline provisions to prevent future exacerbation of known impacts and prevent a potentially unacceptable exposure to the impacts. Completion of the plan may require additional sampling/ laboratory analysis.

5.0 LIMITATIONS & SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

The observations and discussions provided in this Report are intended to assist in making a reasonable assessment of risk with respect to potential environmental contamination at the subject property. The information provided in this Report is based upon a review of documents and information available concerning the subject property as presented. Portions of this investigation are based upon information that has been verbally reported by persons claiming to have knowledge of the property. No warranty is made as to the reliability or accuracy of this history, but upon request, this history will be supplemented by investigating beyond the sources identified. If the reader is aware of any actual or alleged inaccuracies or omissions in this Report, please advise Otwell Mawby, P.C. immediately.

This information is provided in response to a limited scope of investigation and should be used in light of the limited effort expended. The information contained in this Report is valid as of the date of this Report.

The opinions of environmental risk should not be construed as legal advice or financial recommendations. It cannot be stated unequivocally that this investigation is sufficient to meet the appropriate inquiry standard of law, although the opinions and recommendations of Otwell Mawby, P.C. are the product of a professional evaluation of the property, consistent with existing industry practice in this area.



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Otwell Mawby Project No.: 26-132

Environmental • Brownfield • Asbestos

FIGURES

Figure 1 – Site Location Map

Figure 2 – Sample Locations Map

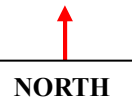


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Otwell Mawby, PC
Traverse City, Michigan

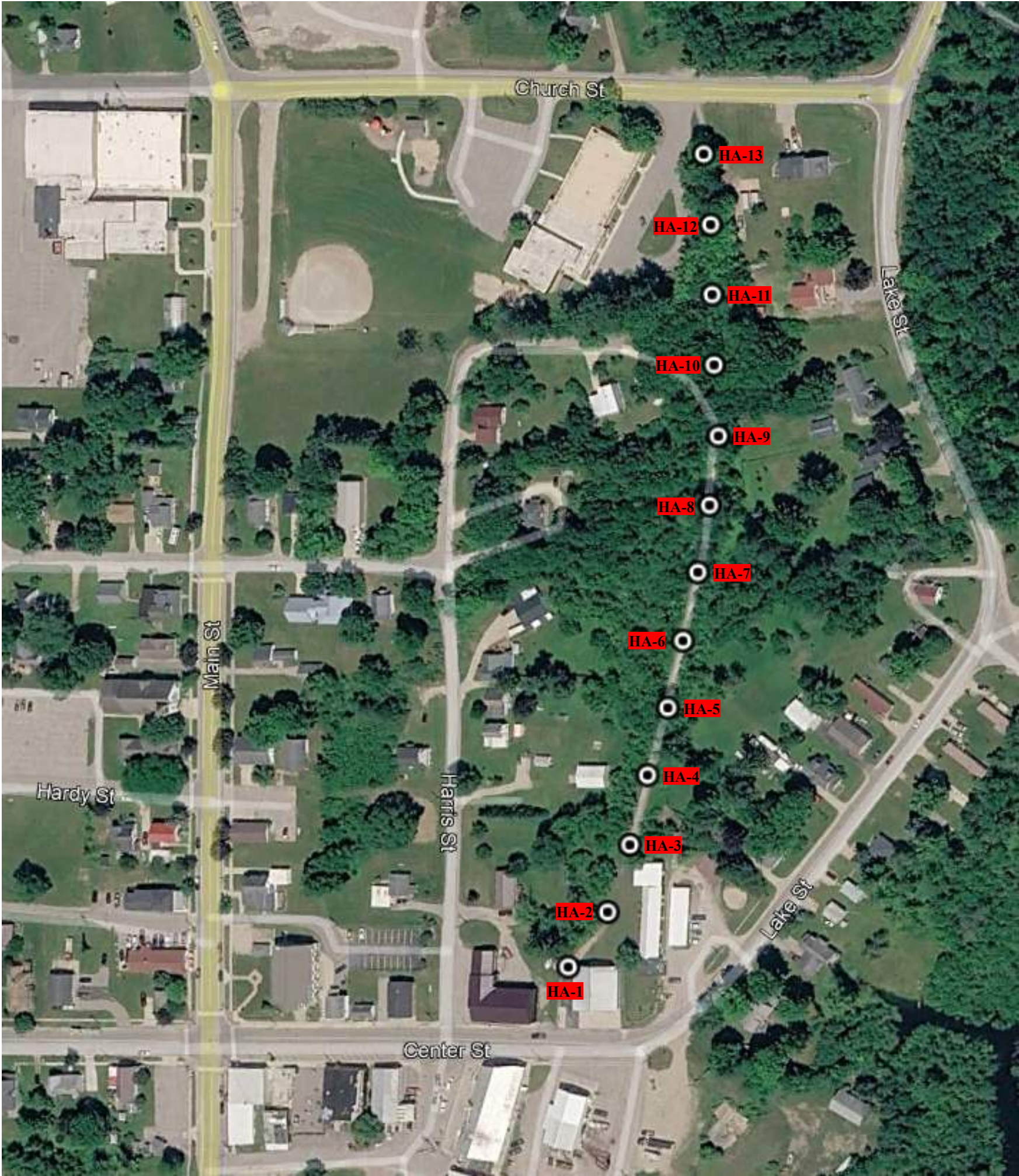
Figure 1:
Site Location Map



Project No:
26-132

Date:
6/18/2026

Source:
Antrim Co. GIS



HA-1
⊙ - Approximate hand auger soil boring location

The latitude/ longitude coordinates assoicated with the boring locations are noted in the report text.

Former Railroad Grade Property Parcel ID#s: 05-44-014-032-60 & 05-44-013-062-10 Banks Township, Antrim County, Michigan Subsurface Investigation Report		Figure 2: Sample Locations Map		
 Otwell Mawby, PC Traverse City, Michigan		Project No: 26-132	Date: 6/18/2026	 NORTH Source: Antrim Co. GIS

TABLES

Table 1 – Soil Analytical Data Summary (2 Pages)

Table 1
Soil Analytical Data Summary
Former Railroad Grade Property
Parcel ID#s: 05-44-014-032-60 & 05-44-013-062-10
Banks Township, Antrim County, Michigan
Otwell Mawby, P.C. Project Number: 26-132

Analyte - MI Metals	CAS #	EGLE Part 201 Statewide Default Background Criteria	EGLE Part 201 Drinking Water Protection Criteria	EGLE Part 201 Groundwater Surface Water Interface Protection Criteria	EGLE Part 201 Direct Contact Criteria	EGLE Part 201 Soil Volatilization to Indoor Air Inhalation Criteria	EGLE Residential Volatilization to Indoor Air Pathway (VIAP) Screening Levels (9/4/2020) Residential Soil	B-1 2' BGL 6/18/2026	B-2 2' BGL 6/18/2026	B-3 1' BGL 6/18/2026	B-4 1' BGL 6/18/2026	B-5 1' BGL 6/18/2026	B-6 1.25' BGL 6/18/2026	B-7 2' BGL 6/18/2026
Arsenic	7440382	5,800	4,600	4,600	7,600	NLV	NA	4,300	ND	3,200	ND	ND	ND	ND
Barium (B)	7440393	75,000	1,300,000	G=290,000	37,000,000	NLV	NA	39,000	20,000	15,000	12,000	11,000	8,000	10,000
Cadmium (B)	7440639	1,200	6,000	G=2,700, X	550,000	NLV	NA	ND	ND	ND	ND	ND	ND	ND
Chromium (B,H)	16065831	18,000	1.0E+9 E	3,300	2,500,000	NLV	NA	6,700	6,000	5,200	3,800	4,500	5,100	ND
Copper	7440508	32,000	5,800,000	G=52,000	20,000,000	NLV	NA	17,000	3,400	19,000	9,200	16,000	8,600	4,800
Lead (B)	7439921	21,000	700,000	G=2.5E+6, X	400,000	NLV	NA	64,000	ND	33,000	12,000	77,000	15,000	ND
Mercury (B,Z)	Varies	130	1,700	50 (M), 1.2	160,000	48,000	22 (M) nc	98	ND	ND	ND	ND	ND	ND
Selenium	7782492	410	4,000	400	2,600,000	NLV	NA	ND	ND	ND	ND	ND	ND	ND
Silver (B)	7440224	1,000	4,500	100 (M), 27	2,500,000	NLV	NA	ND	ND	ND	ND	ND	ND	ND
Zinc (B)	7440666	47,000	2,400,000	G=120,000	170,000,000	NLV	NA	180,000	20,000	68,000	14,000	38,000	11,000	30,000
Analyte - PAHS														
Acenaphthene	83329	NA	3.00E+05	8,700	41,000,000	190,000,000	2.0E+5 nc	ND	ND	ND	ND	ND	ND	ND
Anthracene	20127	NA	4.10E+04	ID	330,000	230,000,000	13,000,000	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene (Q)	56553	NA	NLL	NLL	20,000	NLV	1.6E+05 (MM) mut	1,200	ND	880	ND	ND	ND	ND
Benzo(b)fluoranthene (Q)	205992	NA	NLL	NLL	2.00E+04	ID	NA	1,400	ND	1,200	ND	ND	ND	ND
Benzo(k)fluoranthene (Q)	207089	NA	NLL	NLL	2.00E+05	NLV	NA	550	ND	380	ND	ND	ND	ND
Benzo(a)pyrene (Q)	50328	NA	NLL	NLL	2.00E+03	NLV	NA	1,000	ND	780	ND	ND	ND	ND
Benzo(a,h)pyrene	191242	NA	NLL	NLL	2.59E+08	NLV	NA	570	ND	400	ND	ND	ND	ND
Chrysene (Q)	218019	NA	NLL	NLL	2.00E+06	ID	NA	1,300	ND	750	ND	ND	ND	ND
Dibenz(a,h)anthracene (Q)	53703	NA	NLL	NLL	2.00E+03	NLV	NA	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	206440	NA	7.30E+05	5,500	4.00E+07	1.0E+9 (D)	NA	3,700	ND	1,300	ND	ND	ND	ND
Fluorene	86737	NA	3.90E+05	5,300	2.70E+07	580,000,000	4.7+05 nc	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene (Q)	193395	NA	NLL	NLL	20,000	NLV	NA	630	ND	490	ND	ND	ND	ND
2-Methylanthracene	91576	NA	5.70E+04	4,200	8,100,000	2,700,000	1,700 nc	ND	ND	ND	ND	ND	ND	ND
Naphthalene	91203	NA	3.50E+04	730	16,000,000	250,000	67 (M) ca	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	85018	NA	5.60E+04	2,100	1.60E+06	2,800,000	2,500	ND	ND	ND	ND	ND	ND	ND
Pyrene	129000	NA	4.80E+05	ID	2.90E+07	1.0E+9 (D)	2,700	ND	1,200	ND	ND	ND	ND	ND
Other PNAs	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND	ND	ND	ND	ND
Analyte - PCBs														
PCBs	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND	ND	ND	ND	ND

Notes:
Results compared to EGLE Criteria Lookup Tables, Oct. 12, 2023 and VIAP Screening Levels, dated Feb. 2024
NC = No Criteria
ND = Not Detected
NA = Not Applicable or Not Analyzed
ID = Insufficient Data
B = Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.
L = The criterion developed under R 299.1(d) is not applicable to the chemical-specific soil saturation screening level (Lsat). The person proposing or implementing response activity shall document whether additional response activity is required to control free-phase liquids or vapors, to protect against risks associated with free-phase liquids by using methods appropriate for the free-phase liquids present. Development or a site-specific Lsat or methods presented in R 299.27, R 299.24(d), and R 299.26(d) must be included for the relevant exposure pathways.
ca = Carcinogenic
DD = Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a pregnant adult receptor.
DD = Hazardous substance causes developmental effects. Residential VIAP screening levels are protective of both prenatal exposure using a pregnant female receptor and postnatal exposure using a child receptor. Nonresidential VIAP screening levels are protective of prenatal exposure using a pregnant female receptor. Prenatal developmental effects may occur after an acute (i.e. short-term) or full-term exposure.
dev = Developmental
EE = The acceptable air concentration (AAC) for the volatile hazardous substances is not derived using standard equations. The hazardous substance may cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The AAC for these hazardous substances is the acute or intermediate minimum risk level (MRL) developed by the Agency for Toxic Substances and Disease Registry (ATSDR), a United States Environmental Protection Agency Integrated Risk Information System (IRIS) acute reference concentration, or an acute initial threshold screening level (ITSL) by the EGLE's Air Quality Division.
G = Groundwater surface water interface (GSI) criterion depends on the pH of water hardness, or both, of the receiving surface water. A hardness value of 100 mg/L was used for the calculation (default for the Northern Michigan).
GG = Risk-based criteria are not available for methane due to insufficient toxicity data. An acceptable soil gas concentration (presented for both residential and nonresidential land uses) was derived utilizing 25 percent of the lower explosive limit for methane. This equates to 1.25 percent or 8.4E+6 ug/m³.
H = Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 ug/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.
I = Hazardous substance may exhibit the characteristic of ignitability as defined in 40 C.F.R. §261.21 (revised as of July 1, 2001), which is adopted by reference in these rules and is available for inspection at the DEQ, 525 West Allegan Street, Lansing, Michigan. Copies of the regulation may be purchased, at a cost as of the time of adoption of these rules of \$45, from the Superintendent of Documents, Government Printing Office, Washington, DC 20401 (stock number 889-044-00155-1), or from the DEQ, Remediation and Redevelopment Division (RRD), 525 West Allegan Street, Lansing, Michigan 48933, at cost.
J = Hazardous substance may be present in several isomer forms. Isomer-specific concentrations must be added together for comparison to criteria.
JT = Hazardous substance may be present in several isomer forms. The VIAP screening level may be used for the individual isomer provided that it is the sole isomer detected; however, when multiple isomers are detected in a medium, the isomer-specific concentrations must be added together and compared to the most restrictive VIAP screening level of the detected isomers.
M = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.
M = The VIAP screening level may be below target detection limits (TDL) in accordance with Sec. 20.120a(10) when the TDL for a hazardous substance is greater than the developed VIAP screening level, the TDL is used to evaluate the risk posed from the pathway.
MM = Hazardous substance is a carcinogen with a mutagenic mode of action. The cancer potency values used in calculating VIAP screening levels are modified using age-dependent adjustment factors for those carcinogenic chemicals identified as mutagenic.
mut = Mutagenic cancer
nc = Non-Carcinogenic
NLV = means hazardous substance is not likely to volatilize under most conditions.
st = Short-term (i.e., less than chronic exposure).
X = The groundwater surface water interface (GSI) criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.
Z = Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439978, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion, and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.

Table 1
Soil Analytical Data Summary
Former Railroad Grade Property
Parcel ID#s: 05-44-014-032-60 & 05-44-013-062-10
Banks Township, Antrim County, Michigan
Otwell Mawby, P.C. Project Number: 26-132

Analyte - MI Metals	CAS #	EGLE Part 201 Statewide Default Background Criteria	EGLE Part 201 Drinking Water Protection Criteria	EGLE Part 201 Groundwater Surface Water Interface Protection Criteria	EGLE Part 201 Direct Contact Criteria	EGLE Part 201 Soil Volatilization to Indoor Air Inhalation Criteria	EGLE Residential Volatilization to Indoor Air Pathway (VIAP) Screening Levels (9/4/2020) Residential Soil	B-8 1.5' BGL 6/18/2026	B-9 1.5' BGL 6/18/2026	B-10 1' BGL 6/18/2026	B-11 1.25' BGL 6/18/2026	B-12 0.75' BGL 6/18/2026	B-13 1.25' BGL 6/18/2026	
Arsenic	7440382	5,800	4,600	4,600	7,600	NLV	NA	ND	7,100	ND	3,300	3,500	ND	
Barium (B)	7440393	75,000	1,300,000	G=230,000	37,000,000	NLV	NA	18,300	21,000	16,000	21,000	17,000	15,000	
Cadmium (B)	7440639	1,200	6,000	G=7,700, X	850,000	NLV	NA	ND	ND	ND	ND	ND	ND	
Chromium (B,H)	16065831	18,000	1.0E+9 E	3,300	2,500,000	NLV	NA	5,400	6,600	5,200	5,300	5,600	5,600	
Copper	7440508	32,000	5,800,000	G=52,000	20,000,000	NLV	NA	11,000	66,000	18,000	22,000	18,000	15,000	
Lead (B)	7439921	21,000	700,000	G=2.5E+6, X	400,000	NLV	NA	17,000	89,000	40,000	32,000	31,000	23,000	
Mercury (B,Z)	Varies	130	1,700	50 (M); 1.2	160,000	48,000	22 (M) nc	220	ND	160	350	ND	ND	
Selenium	7782492	410	4,000	400	2,600,000	NLV	NA	ND	ND	ND	ND	ND	ND	
Silver (B)	7440224	1,000	4,500	100 (M); 27	2,500,000	NLV	NA	ND	ND	ND	ND	ND	ND	
Zinc (B)	7440666	47,000	2,400,000	G=120,000	170,000,000	NLV		120,000	370,000	400,000	120,000	120,000	180,000	
Analyte - PNAs														
Acenaphthene	83329	NA	3.00E+05	8,700	41,000,000		2.0E+5 nc	ND	ND	520	ND	ND	ND	
Anthracene	20127	NA	4.10E+04	ID	330,000		13,000,000	370	650	ND	ND	ND	ND	
Benzo(a)anthracene (Q)	56553	NA	NLL	NLL	20,000	NLV	1.6E+05 (MM) mut	2,300	5,000	1,300	ND	ND	ND	
Benzo(b)fluoranthene (Q)	205992	NA	NLL	NLL	2.00E+04	ID	NA	5,900	8,700	5,100	ND	ND	460	
Benzo(k)fluoranthene (Q)	207089	NA	NLL	NLL	2.00E+05	NLV	NA	1,800	2,900	1,400	ND	ND	ND	
Benzo(a)pyrene (Q)	50328	NA	NLL	NLL	2.00E+08	NLV	NA	3,400	4,600	3,600	ND	ND	ND	
Benzo(g,h,i)perylene	191242	NA	NLL	NLL	2.50E+06	NLV	NA	2,300	2,900	1,900	ND	ND	ND	
Chrysene (Q)	218019	NA	NLL	NLL	2.00E+06	ID	NA	3,400	6,300	1,900	ND	ND	350	
Dibenz(a,h)anthracene (Q)	53703	NA	NLL	NLL	2.00E+03	NLV	NA	490	690	490	ND	ND	ND	
Fluoranthene	206440	NA	7.30E+05	5,500	4.60E+07	1.0E+9 (D)	NA	2,300	10,000	1,400	ND	340	470	
Fluorene	86737	NA	3.90E+05	5,300	2.70E+07	580,000,000	4.7+05 nc	ND	ND	ND	ND	ND	ND	
Indeno(1,2,3-cd)pyrene (Q)	193395	NA	NLL	NLL	20,000	NLV	NA	2,400	3,100	2,500	ND	ND	ND	
2-Methylnaphthalene	91576	NA	5.70E+04	4,200	8,100,000	2,700,000	1,700 nc	ND	ND	ND	ND	ND	ND	
Naphthalene	91203	NA	3.50E+04	730	16,000,000	250,000	67 (M) ca	ND	ND	ND	ND	ND	ND	
Phenanthrene	85018	NA	5.60E+04	2,100	1.60E+06	2,800,000	1,700 nc	430	520	ND	ND	ND	ND	
Pyrene	129000	NA	4.80E+05	ID	2.90E+07	1.0E+9 (D)	2.5E+07 nc	2,500	12,000	2,300	ND	ND	460	
Other PNAs	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND	ND	ND	ND	
Analyte - PCBs														
PCBs	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND	ND	ND	ND	

Notes: Results compared to EGLE Criteria Lookup Tables, Oct. 12, 2023 and VIAP Screening Levels, dated Feb. 2024

NC = No Criteria
ND = Not Detected
NA = Not Applicable or Not Analyzed

ID = Insufficient Data

B = Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.

C = The criterion exceeds under R 299.1(c) to R 299.1(e) exceeds the chemical-specific risk assessment screening level (SL), the person proposing or implementing response activity shall document whether additional response activity is required to control free-phase liquids or vapors, to protect against risks associated with free-phase liquids or vapors using methods appropriate for the free-phase liquids present. Development or a site-specific SL or methods presented in R 299.1(f), R 299.1(g)(1), and R 299.1(g)(2) may be conducted for the relevant exposure pathway.

ca = Carcinogenic

DD = Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a pregnant adult receptor.

DD = Hazardous substance causes developmental effects. Residential VIAP screening levels are protective of both prenatal exposure using a pregnant female receptor and postnatal exposure using a child receptor. Nonresidential VIAP screening levels are protective of prenatal exposure using a pregnant female receptor. Prenatal developmental effects may occur after an acute (i.e. short-term) or full-term exposure.

dev = Developmental

EE = The acceptable air concentration (AAC) for the volatile hazardous substances is not derived using standard equations. The hazardous substance may cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The AAC for these hazardous substances is the acute or intermediate minimum risk level (MRL) developed by the Agency for Toxic Substances and Disease Registry (ATSDR), a United States Environmental Protection Agency Integrated Risk Information System (IRIS) acute reference concentration, or an acute initial threshold screening level (ITSL) by the EGLE's Air Quality Division.

G = Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. A hardness value of 100 mg/L was used for the calculation (default for the Northern Michigan).

GG = Risk-based criteria are not available for methane due to insufficient toxicity data. An acceptable soil gas concentration (presented for both residential and nonresidential land uses) was derived utilizing 25 percent of the lower explosive limit for methane. This equates to 1.25 percent or 8.4E+6 ug/m³.

H = Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 ug/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.

I = Hazardous substance may exhibit the characteristic of ignitability as defined in 40 C.F.R. §261.21 (revised as of July 1, 2001), which is adopted by reference in these rules and is available for inspection at the DEQ, 525 West Allegan Street, Lansing, Michigan. Copies of the regulation may be purchased, at a cost as of the time of adoption of these rules of \$45, from the Superintendent of Documents, Government Printing Office, Washington, DC 20401 (stock number 889-044-00155-1), or from the DEQ, Remediation and Redevelopment Division (RRD), 525 West Allegan Street, Lansing, Michigan 48933, at cost.

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M = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

M = The VIAP screening level may be below target detection limits (TDL). In accordance with Sec. 20-120a(10) when the TDL for a hazardous substance is greater than the developed VIAP screening level, the TDL is used to evaluate the risk posed from the pathway.

MM = Hazardous substance is a carcinogen with a mutagenic mode of action. The cancer potency values used in calculating VIAP screening levels are modified using age-dependent adjustment factors for those carcinogenic chemicals identified as mutagenic.

mut = Mutagenic carcinogen

nc = Non-Carcinogenic

NLV = means hazardous substance is not likely to volatilize under most conditions.

st = Short-term (i.e., less than chronic exposure).

X = The groundwater surface water interface (GSI) criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.

Z = Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439978, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.

APPENDICES

**Appendix A – Minimum Sampling,
Soil Management and
Capping Requirements**

Appendix B – Laboratory Analytical Report

APPENDIX A

Minimum Sampling, Soil Management and Capping Requirements

Exhibit B
Minimum Sampling, Soil Management, and Capping Requirements
For Rails-to-Trails Conversion of Rail Corridors

Buyer Agrees to:

I. Sampling

Surface soils should be sampled as follows (please see attachments for typical sampling layout schematics):

- a. Adjacent to any existing or former buildings, bridges, signals, etc.
- b. At former switch or rail-to-rail crossings, collect a minimum of 3 composite samples. One composite sample should be obtained at the switch or crossing location, with additional composite samples obtained at 50-foot intervals in either direction along the corridor as illustrated in Figure 1. Each composite sample should consist of 5 specimens (i.e., each composite sample will consist of 5 discrete samples that are mixed together and analyzed as a single sample).
- c. Along the remaining rail corridor:
 - For corridor less than 0.5-mile long, collect a minimum of 10 composite samples.
 - For corridor 0.5 – 0.75 miles long, collect 15 composite samples.
 - For corridor 0.75 miles to 1 mile long, collect 20 composite samples. Space the sampling points evenly down corridor, i.e., 20 samples in one mile is one sample about every 250 feet.
 - For corridors greater than 1 mile in length, the number of evenly spaced samples to be collected should be calculated as follows:

$$\text{Number of Composite Samples} = 20 + 5x$$

Where x = total corridor length in excess of 1 mile

As an example, given a 4-mile length of corridor, the number of samples to be collected would equal $20 + 5 \times 3$ or 35 composite samples, which would be spaced approximately every 600 feet.

Each composite sample collected along the corridor should consist of 5 specimens. An illustration of the composite sample configuration for a rail corridor is provided in Figure 2.

- d. Samples should be collected from the upper 6 inches of soil taking into consideration State standards concerning direct exposure.
- e. Samples should be analyzed for arsenic (SW 846 Method 6010B), lead (SW 846 Method 6010B) and PAH (SW 846 Method 8270C SIM). If the corridor was utilized for electric rail, the samples should also be analyzed for PCB's using SW 846 Method 8082, Method 608 or appropriate state test method.

II. Soil Management Plan

The purchase sale agreement shall require buyer to provide a written soil management plan defining procedures for monitoring the corridor to ensure potential exposure pathways are controlled to reduce risk of exposure to the public to acceptable levels. This plan shall include at a minimum:

- A site plan clearly showing "capped" vs. "un-capped" areas of the corridor
- A detailed description of the cap thickness and method of construction (i.e. soil, concrete, asphalt, etc.);
- A detailed description of methods and procedures to be utilized to prevent users from

accessing uncapped areas of the corridor and potentially contacting site soils. This section should include a discussion of signage or other methods to be utilized to communicate to the public the past industrial use of the corridor and the potential for impacted soils to be present;

- Defined procedures for the testing and management of soil that is excavated as part of a construction project on the property, such as culvert or underground utility installation;
- A discussion of inspection and reporting procedures to document (at least annually) the condition of the cap and to reaffirm that un-capped areas of the site are not being accessed or utilized by the public. The annual inspection report should identify any deficiencies in the cap and document any changes (including updated site plans) or repairs made to the cap during the inspection period, and any other corrective actions warranted to protect the public from exposure to site soils.

III. Capping

The rail bed, defined as extending from opposite toes-of-slope of the ballast field, if present, or a minimum of 7 feet on either side of the centerline of the former track, shall be graded and capped with pavement or other suitable material to prevent contact with the surface soil. This cap should have a minimum thickness of one to two feet. Actual cap design should be developed on a project-specific basis taking into account specific requirements of State and Local environmental regulation.

APPENDIX B

Laboratory Analytical Report



26-Jun-2026

James Jackson
Otwell Mawby, P. C.
309 E Front St.
Suite #200
Traverse City, MI 49684

Re: **BANKS TWP-RR GRADE 26-132**

Work Order: **26060046**

Dear James,

ALS Environmental received 13 samples on 19-Jun-2026 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 45.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Tim Gates

Electronically approved by: Tim Gates

Tim Gates
Field Technician 3

Report of Laboratory Analysis

Certificate No: MI: 0022

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Otwell Mawby, P. C.
Project: BANKS TWP-RR GRADE 26-132
Work Order: 26060046

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
26060046-01	B-1 (2')	Soil		6/18/2026 09:30	6/19/2026 09:30	☐
26060046-02	B-2 (2')	Soil		6/18/2026 09:44	6/19/2026 09:30	☐
26060046-03	B-3 (1')	Soil		6/18/2026 10:00	6/19/2026 09:30	☐
26060046-04	B-4 (1')	Soil		6/18/2026 10:20	6/19/2026 09:30	☐
26060046-05	B-5 (1')	Soil		6/18/2026 10:30	6/19/2026 09:30	☐
26060046-06	B-6 (1.25')	Soil		6/18/2026 10:45	6/19/2026 09:30	☐
26060046-07	B-7 (2')	Soil		6/18/2026 11:08	6/19/2026 09:30	☐
26060046-08	B-8 (1.5')	Soil		6/18/2026 11:38	6/19/2026 09:30	☐
26060046-09	B-9 (1.5')	Soil		6/18/2026 11:54	6/19/2026 09:30	☐
26060046-10	B-10 (1')	Soil		6/18/2026 12:18	6/19/2026 09:30	☐
26060046-11	B-11 (1.25')	Soil		6/18/2026 12:30	6/19/2026 09:30	☐
26060046-12	B-12 (0.75')	Soil		6/18/2026 12:46	6/19/2026 09:30	☐
26060046-13	B-13 (1.25')	Soil		6/18/2026 13:15	6/19/2026 09:30	☐

Client: Otwell Mawby, P. C.
Project: BANKS TWP-RR GRADE 26-132
Work Order: 26060046

Case Narrative

Batch 260736, Method SW6020B, Sample B-2 (2') (26060046-02A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. As, Cd, Pb, Se, Ag

Batch 260736, Method SW6020B, Sample B-3 (1') (26060046-03A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

Batch 260736, Method SW6020B, Sample B-4 (1') (26060046-04A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. As, Cd, Se, Ag

Batch 260736, Method SW6020B, Sample B-5 (1') (26060046-05A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. As, Cd, Se, Ag

Batch 260736, Method SW6020B, Sample B-6 (1.25') (26060046-06A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. As, Cd, Se, Ag

Batch 260736, Method SW6020B, Sample B-7 (2') (26060046-07A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. As, Cd, Cr, Se, Ag

Batch 260736, Method SW6020B, Sample B-8 (1.5') (26060046-08A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. As, Cd, Se, Ag

Batch 260736, Method SW6020B, Sample B-9 (1.5') (26060046-09A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

Batch 260736, Method SW6020B, Sample B-10 (1') (26060046-10A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. As, Cd, Se, Ag

Batch 260736, Method SW6020B, Sample B-11 (1.25') (26060046-11A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

Batch 260736, Method SW6020B, Sample B-12 (0.75') (26060046-12A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

Batch 260736, Method SW6020B, Sample B-13 (1.25') (26060046-13A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes. As, Cd, Se, Ag

Batch 260736, Method SW6020B, Sample B-1 (2') (26060046-01A): The reporting limit is

Client: Otwell Mawby, P. C.
Project: BANKS TWP-RR GRADE 26-132
Work Order: 26060046

Case Narrative

elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

Batch 260763, Method SW3546, Sample B-8 (1.5') (26060046-08A): sample mass reduced due to clay

Batch 260763, Method SW3546, Sample B-11 (1.25') (26060046-11A): sample mass reduced due to clay

Batch 260750, Method SW7471B: The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch R429409, Method SW3550C: The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-1 (2')

Work Order: 26060046

Collection Date: 6/18/2026 9:30:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-01

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082A		Prep Date: 6/24/2026		Analyst: QNG
Aroclor 1016	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1221	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1232	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1242	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1248	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1254	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1260	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1262	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1268	ND	330	330		µg/Kg-dry	1	6/24/2026
PCBs, Total	ND	95	0		µg/Kg-dry	1	6/24/2026
Surr: Decachlorobiphenyl	91.3	54-146			%REC	1	6/24/2026
Surr: Tetrachloro-m-xylene	68.2	58-140			%REC	1	6/24/2026
MERCURY BY CVAA							
			SW7471B		Prep Date: 6/24/2026		Analyst: MXR
Mercury	0.088	0.050	0.050		mg/Kg-dry	1	6/25/2026
METALS BY ICP-MS							
			SW6020B		Prep Date: 6/22/2026		Analyst: STP
Arsenic	4.3	3.1	2.0		mg/Kg-dry	10	6/22/2026
Barium	39	3.1	1.0		mg/Kg-dry	10	6/23/2026
Cadmium	ND	1.2	0.20		mg/Kg-dry	10	6/23/2026
Chromium	6.7	3.1	2.0		mg/Kg-dry	10	6/23/2026
Copper	17	3.1	1.0		mg/Kg-dry	10	6/22/2026
Lead	64	10	10		mg/Kg-dry	10	6/23/2026
Selenium	ND	3.1	0.20		mg/Kg-dry	10	6/23/2026
Silver	ND	3.1	0.10		mg/Kg-dry	10	6/23/2026
Zinc	180	6.1	1.0		mg/Kg-dry	10	6/23/2026
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			SW8270E		Prep Date: 6/24/2026		Analyst: IA
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)anthracene	1,200	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)pyrene	1,000	330	330		µg/Kg-dry	1	6/25/2026
Benzo(b)fluoranthene	1,400	330	330		µg/Kg-dry	1	6/25/2026
Benzo(g,h,i)perylene	570	330	330		µg/Kg-dry	1	6/25/2026
Benzo(k)fluoranthene	550	330	330		µg/Kg-dry	1	6/25/2026
Chrysene	1,300	330	330		µg/Kg-dry	1	6/25/2026
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Fluoranthene	3,700	330	330		µg/Kg-dry	1	6/25/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-1 (2')

Work Order: 26060046

Collection Date: 6/18/2026 9:30:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-01

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Fluorene	ND	330	330		µg/Kg-dry	1	6/25/2026
Indeno(1,2,3-cd)pyrene	630	330	330		µg/Kg-dry	1	6/25/2026
Naphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Phenanthrene	2,500	330	330		µg/Kg-dry	1	6/25/2026
Pyrene	2,700	330	330		µg/Kg-dry	1	6/25/2026
Surr: 2-Fluorobiphenyl	76.6	44-132			%REC	1	6/25/2026
Surr: 4-Terphenyl-d14	87.2	35-133			%REC	1	6/25/2026
Surr: Nitrobenzene-d5	82.9	30-133			%REC	1	6/25/2026
MOISTURE			SW3550C				Analyst:
Moisture	13	0.50	0		% of sample	1	6/20/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-2 (2')

Work Order: 26060046

Collection Date: 6/18/2026 9:44:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-02

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082A		Prep Date: 6/24/2026		Analyst: QNG
Aroclor 1016	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1221	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1232	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1242	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1248	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1254	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1260	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1262	ND	330	330		µg/Kg-dry	1	6/24/2026
Aroclor 1268	ND	330	330		µg/Kg-dry	1	6/24/2026
PCBs, Total	ND	83	0		µg/Kg-dry	1	6/24/2026
Surr: Decachlorobiphenyl	90.5	54-146			%REC	1	6/24/2026
Surr: Tetrachloro-m-xylene	89.0	58-140			%REC	1	6/24/2026
MERCURY BY CVAA							
			SW7471B		Prep Date: 6/24/2026		Analyst: MXR
Mercury	ND	0.050	0.050		mg/Kg-dry	1	6/25/2026
METALS BY ICP-MS							
			SW6020B		Prep Date: 6/22/2026		Analyst: STP
Arsenic	ND	2.8	2.0		mg/Kg-dry	10	6/22/2026
Barium	20	2.8	1.0		mg/Kg-dry	10	6/23/2026
Cadmium	ND	1.1	0.20		mg/Kg-dry	10	6/22/2026
Chromium	6.0	2.8	2.0		mg/Kg-dry	10	6/23/2026
Copper	3.4	2.8	1.0		mg/Kg-dry	10	6/22/2026
Lead	ND	10	10		mg/Kg-dry	10	6/22/2026
Selenium	ND	2.8	0.20		mg/Kg-dry	10	6/22/2026
Silver	ND	2.8	0.10		mg/Kg-dry	10	6/22/2026
Zinc	20	5.5	1.0		mg/Kg-dry	10	6/22/2026
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			SW8270E		Prep Date: 6/24/2026		Analyst: IA
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Chrysene	ND	330	330		µg/Kg-dry	1	6/25/2026
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-2 (2')

Work Order: 26060046

Collection Date: 6/18/2026 9:44:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-02

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Fluorene	ND	330	330		µg/Kg-dry	1	6/25/2026
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Naphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Surr: 2-Fluorobiphenyl	88.9	44-132			%REC	1	6/25/2026
Surr: 4-Terphenyl-d14	98.1	35-133			%REC	1	6/25/2026
Surr: Nitrobenzene-d5	93.5	30-133			%REC	1	6/25/2026
MOISTURE			SW3550C				Analyst:
Moisture	8.5	0.50	0		% of sample	1	6/20/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-3 (1')

Work Order: 26060046

Collection Date: 6/18/2026 10:00:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-03

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082A		Prep Date: 6/24/2026		Analyst: QNG
Aroclor 1016	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1221	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1232	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1242	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1248	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1254	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1260	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1262	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1268	ND	330	330		µg/Kg-dry	1	6/25/2026
PCBs, Total	ND	82	0		µg/Kg-dry	1	6/25/2026
Surr: Decachlorobiphenyl	94.2	54-146			%REC	1	6/25/2026
Surr: Tetrachloro-m-xylene	79.5	58-140			%REC	1	6/25/2026
MERCURY BY CVAA							
			SW7471B		Prep Date: 6/24/2026		Analyst: MXR
Mercury	ND	0.050	0.050		mg/Kg-dry	1	6/25/2026
METALS BY ICP-MS							
			SW6020B		Prep Date: 6/22/2026		Analyst: STP
Arsenic	3.2	2.9	2.0		mg/Kg-dry	10	6/22/2026
Barium	15	2.9	1.0		mg/Kg-dry	10	6/23/2026
Cadmium	ND	1.2	0.20		mg/Kg-dry	10	6/22/2026
Chromium	5.2	2.9	2.0		mg/Kg-dry	10	6/23/2026
Copper	19	2.9	1.0		mg/Kg-dry	10	6/22/2026
Lead	33	10	10		mg/Kg-dry	10	6/23/2026
Selenium	ND	2.9	0.20		mg/Kg-dry	10	6/22/2026
Silver	ND	2.9	0.10		mg/Kg-dry	10	6/22/2026
Zinc	68	5.9	1.0		mg/Kg-dry	10	6/22/2026
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			SW8270E		Prep Date: 6/24/2026		Analyst: IA
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)anthracene	880	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)pyrene	760	330	330		µg/Kg-dry	1	6/25/2026
Benzo(b)fluoranthene	1,200	330	330		µg/Kg-dry	1	6/25/2026
Benzo(g,h,i)perylene	400	330	330		µg/Kg-dry	1	6/25/2026
Benzo(k)fluoranthene	380	330	330		µg/Kg-dry	1	6/25/2026
Chrysene	750	330	330		µg/Kg-dry	1	6/25/2026
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Fluoranthene	1,300	330	330		µg/Kg-dry	1	6/25/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-3 (1')

Work Order: 26060046

Collection Date: 6/18/2026 10:00:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-03

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Fluorene	ND	330	330		µg/Kg-dry	1	6/25/2026
Indeno(1,2,3-cd)pyrene	490	330	330		µg/Kg-dry	1	6/25/2026
Naphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Pyrene	1,200	330	330		µg/Kg-dry	1	6/25/2026
Surr: 2-Fluorobiphenyl	81.4	44-132			%REC	1	6/25/2026
Surr: 4-Terphenyl-d14	90.9	35-133			%REC	1	6/25/2026
Surr: Nitrobenzene-d5	83.3	30-133			%REC	1	6/25/2026
MOISTURE			SW3550C				Analyst:
Moisture	8.1	0.50	0		% of sample	1	6/20/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-4 (1')

Work Order: 26060046

Collection Date: 6/18/2026 10:20:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-04

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS		SW8082A		Prep Date: 6/24/2026		Analyst: QNG	
Aroclor 1016	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1221	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1232	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1242	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1248	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1254	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1260	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1262	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1268	ND	330	330		µg/Kg-dry	1	6/25/2026
PCBs, Total	ND	77	0		µg/Kg-dry	1	6/25/2026
Surr: Decachlorobiphenyl	90.8	54-146			%REC	1	6/25/2026
Surr: Tetrachloro-m-xylene	83.1	58-140			%REC	1	6/25/2026
MERCURY BY CVAA		SW7471B		Prep Date: 6/24/2026		Analyst: MXR	
Mercury	ND	0.050	0.050		mg/Kg-dry	1	6/25/2026
METALS BY ICP-MS		SW6020B		Prep Date: 6/22/2026		Analyst: STP	
Arsenic	ND	2.8	2.0		mg/Kg-dry	10	6/22/2026
Barium	12	2.8	1.0		mg/Kg-dry	10	6/23/2026
Cadmium	ND	1.1	0.20		mg/Kg-dry	10	6/22/2026
Chromium	3.8	2.8	2.0		mg/Kg-dry	10	6/23/2026
Copper	9.2	2.8	1.0		mg/Kg-dry	10	6/22/2026
Lead	12	10	10		mg/Kg-dry	10	6/23/2026
Selenium	ND	2.8	0.20		mg/Kg-dry	10	6/22/2026
Silver	ND	2.8	0.10		mg/Kg-dry	10	6/22/2026
Zinc	14	5.5	1.0		mg/Kg-dry	10	6/22/2026
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)		SW8270E		Prep Date: 6/24/2026		Analyst: IA	
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Chrysene	ND	330	330		µg/Kg-dry	1	6/25/2026
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-4 (1')

Work Order: 26060046

Collection Date: 6/18/2026 10:20:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-04

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Fluorene	ND	330	330		µg/Kg-dry	1	6/25/2026
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Naphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Surr: 2-Fluorobiphenyl	83.7	44-132			%REC	1	6/25/2026
Surr: 4-Terphenyl-d14	91.5	35-133			%REC	1	6/25/2026
Surr: Nitrobenzene-d5	90.7	30-133			%REC	1	6/25/2026
MOISTURE			SW3550C				Analyst:
Moisture	5.5	0.50	0		% of sample	1	6/20/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-5 (1')

Work Order: 26060046

Collection Date: 6/18/2026 10:30:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-05

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082A		Prep Date: 6/24/2026		Analyst: QNG
Aroclor 1016	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1221	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1232	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1242	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1248	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1254	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1260	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1262	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1268	ND	330	330		µg/Kg-dry	1	6/25/2026
PCBs, Total	ND	80	0		µg/Kg-dry	1	6/25/2026
Surr: Decachlorobiphenyl	80.8	54-146			%REC	1	6/25/2026
Surr: Tetrachloro-m-xylene	79.7	58-140			%REC	1	6/25/2026
MERCURY BY CVAA							
			SW7471B		Prep Date: 6/24/2026		Analyst: MXR
Mercury	ND	0.050	0.050		mg/Kg-dry	1	6/25/2026
METALS BY ICP-MS							
			SW6020B		Prep Date: 6/22/2026		Analyst: STP
Arsenic	ND	2.7	2.0		mg/Kg-dry	10	6/22/2026
Barium	11	2.7	1.0		mg/Kg-dry	10	6/23/2026
Cadmium	ND	1.1	0.20		mg/Kg-dry	10	6/22/2026
Chromium	4.5	2.7	2.0		mg/Kg-dry	10	6/23/2026
Copper	16	2.7	1.0		mg/Kg-dry	10	6/22/2026
Lead	77	10	10		mg/Kg-dry	10	6/23/2026
Selenium	ND	2.7	0.20		mg/Kg-dry	10	6/22/2026
Silver	ND	2.7	0.10		mg/Kg-dry	10	6/22/2026
Zinc	38	5.4	1.0		mg/Kg-dry	10	6/22/2026
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			SW8270E		Prep Date: 6/24/2026		Analyst: IA
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Chrysene	ND	330	330		µg/Kg-dry	1	6/25/2026
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-5 (1')

Work Order: 26060046

Collection Date: 6/18/2026 10:30:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-05

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Fluorene	ND	330	330		µg/Kg-dry	1	6/25/2026
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Naphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Surr: 2-Fluorobiphenyl	78.3	44-132			%REC	1	6/25/2026
Surr: 4-Terphenyl-d14	87.7	35-133			%REC	1	6/25/2026
Surr: Nitrobenzene-d5	80.3	30-133			%REC	1	6/25/2026
MOISTURE			SW3550C				Analyst:
Moisture	7.2	0.50	0		% of sample	1	6/20/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.
Work Order: 26060046
Project: BANKS TWP-RR GRADE 26-132
Lab ID: 26060046-06

Client Sample ID: B-6 (1.25')
Collection Date: 6/18/2026 10:45:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082A		Prep Date: 6/24/2026		Analyst: QNG
Aroclor 1016	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1221	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1232	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1242	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1248	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1254	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1260	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1262	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1268	ND	330	330		µg/Kg-dry	1	6/25/2026
PCBs, Total	ND	77	0		µg/Kg-dry	1	6/25/2026
Surr: Decachlorobiphenyl	84.2	54-146			%REC	1	6/25/2026
Surr: Tetrachloro-m-xylene	85.9	58-140			%REC	1	6/25/2026
MERCURY BY CVAA							
			SW7471B		Prep Date: 6/24/2026		Analyst: MXR
Mercury	ND	0.050	0.050		mg/Kg-dry	1	6/25/2026
METALS BY ICP-MS							
			SW6020B		Prep Date: 6/22/2026		Analyst: STP
Arsenic	ND	3.1	2.0		mg/Kg-dry	10	6/22/2026
Barium	8.0	3.1	1.0		mg/Kg-dry	10	6/23/2026
Cadmium	ND	1.2	0.20		mg/Kg-dry	10	6/22/2026
Chromium	5.1	3.1	2.0		mg/Kg-dry	10	6/23/2026
Copper	8.6	3.1	1.0		mg/Kg-dry	10	6/22/2026
Lead	15	10	10		mg/Kg-dry	10	6/23/2026
Selenium	ND	3.1	0.20		mg/Kg-dry	10	6/22/2026
Silver	ND	3.1	0.10		mg/Kg-dry	10	6/22/2026
Zinc	11	6.2	1.0		mg/Kg-dry	10	6/22/2026
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			SW8270E		Prep Date: 6/24/2026		Analyst: IA
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Chrysene	ND	330	330		µg/Kg-dry	1	6/25/2026
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-6 (1.25')

Work Order: 26060046

Collection Date: 6/18/2026 10:45:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-06

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Fluorene	ND	330	330		µg/Kg-dry	1	6/25/2026
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Naphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Surr: 2-Fluorobiphenyl	79.5	44-132			%REC	1	6/25/2026
Surr: 4-Terphenyl-d14	87.3	35-133			%REC	1	6/25/2026
Surr: Nitrobenzene-d5	87.0	30-133			%REC	1	6/25/2026
MOISTURE			SW3550C				Analyst:
Moisture	5.5	0.50	0		% of sample	1	6/20/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.
Work Order: 26060046
Project: BANKS TWP-RR GRADE 26-132
Lab ID: 26060046-07

Client Sample ID: B-7 (2')
Collection Date: 6/18/2026 11:08:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082A		Prep Date: 6/24/2026		Analyst: QNG
Aroclor 1016	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1221	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1232	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1242	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1248	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1254	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1260	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1262	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1268	ND	330	330		µg/Kg-dry	1	6/25/2026
PCBs, Total	ND	87	0		µg/Kg-dry	1	6/25/2026
Surr: Decachlorobiphenyl	71.9	54-146			%REC	1	6/25/2026
Surr: Tetrachloro-m-xylene	68.2	58-140			%REC	1	6/25/2026
MERCURY BY CVAA							
			SW7471B		Prep Date: 6/24/2026		Analyst: MXR
Mercury	ND	0.050	0.050		mg/Kg-dry	1	6/25/2026
METALS BY ICP-MS							
			SW6020B		Prep Date: 6/22/2026		Analyst: STP
Arsenic	ND	3.2	2.0		mg/Kg-dry	10	6/22/2026
Barium	10	3.2	1.0		mg/Kg-dry	10	6/22/2026
Cadmium	ND	1.3	0.20		mg/Kg-dry	10	6/22/2026
Chromium	ND	3.2	2.0		mg/Kg-dry	10	6/22/2026
Copper	4.8	3.2	1.0		mg/Kg-dry	10	6/22/2026
Lead	ND	10	10		mg/Kg-dry	10	6/22/2026
Selenium	ND	3.2	0.20		mg/Kg-dry	10	6/22/2026
Silver	ND	3.2	0.10		mg/Kg-dry	10	6/22/2026
Zinc	30	6.4	1.0		mg/Kg-dry	10	6/22/2026
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			SW8270E		Prep Date: 6/24/2026		Analyst: IA
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Chrysene	ND	330	330		µg/Kg-dry	1	6/25/2026
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-7 (2')

Work Order: 26060046

Collection Date: 6/18/2026 11:08:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-07

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Fluorene	ND	330	330		µg/Kg-dry	1	6/25/2026
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Naphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Surr: 2-Fluorobiphenyl	86.2	44-132			%REC	1	6/25/2026
Surr: 4-Terphenyl-d14	94.9	35-133			%REC	1	6/25/2026
Surr: Nitrobenzene-d5	92.2	30-133			%REC	1	6/25/2026
MOISTURE			SW3550C				Analyst:
Moisture	10	0.50	0		% of sample	1	6/20/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-8 (1.5')

Work Order: 26060046

Collection Date: 6/18/2026 11:38:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-08

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082A		Prep Date: 6/24/2026		Analyst: QNG
Aroclor 1016	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1221	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1232	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1242	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1248	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1254	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1260	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1262	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1268	ND	330	330		µg/Kg-dry	1	6/25/2026
PCBs, Total	ND	140	0		µg/Kg-dry	1	6/25/2026
Surr: Decachlorobiphenyl	86.8	54-146			%REC	1	6/25/2026
Surr: Tetrachloro-m-xylene	76.4	58-140			%REC	1	6/25/2026
MERCURY BY CVAA							
			SW7471B		Prep Date: 6/24/2026		Analyst: MXR
Mercury	0.22	0.050	0.050		mg/Kg-dry	1	6/25/2026
METALS BY ICP-MS							
			SW6020B		Prep Date: 6/22/2026		Analyst: STP
Arsenic	ND	3.0	2.0		mg/Kg-dry	10	6/22/2026
Barium	18	3.0	1.0		mg/Kg-dry	10	6/22/2026
Cadmium	ND	1.2	0.20		mg/Kg-dry	10	6/22/2026
Chromium	5.4	3.0	2.0		mg/Kg-dry	10	6/23/2026
Copper	11	3.0	1.0		mg/Kg-dry	10	6/22/2026
Lead	17	10	10		mg/Kg-dry	10	6/22/2026
Selenium	ND	3.0	0.20		mg/Kg-dry	10	6/22/2026
Silver	ND	3.0	0.10		mg/Kg-dry	10	6/22/2026
Zinc	120	5.9	1.0		mg/Kg-dry	10	6/22/2026
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			SW8270E		Prep Date: 6/24/2026		Analyst: IA
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Anthracene	370	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)anthracene	2,300	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)pyrene	3,400	330	330		µg/Kg-dry	1	6/25/2026
Benzo(b)fluoranthene	5,900	330	330		µg/Kg-dry	1	6/25/2026
Benzo(g,h,i)perylene	2,300	330	330		µg/Kg-dry	1	6/25/2026
Benzo(k)fluoranthene	1,800	330	330		µg/Kg-dry	1	6/25/2026
Chrysene	3,400	330	330		µg/Kg-dry	1	6/25/2026
Dibenzo(a,h)anthracene	490	330	330		µg/Kg-dry	1	6/25/2026
Fluoranthene	2,300	330	330		µg/Kg-dry	1	6/25/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-8 (1.5')

Work Order: 26060046

Collection Date: 6/18/2026 11:38:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-08

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Fluorene	ND	330	330		µg/Kg-dry	1	6/25/2026
Indeno(1,2,3-cd)pyrene	2,400	330	330		µg/Kg-dry	1	6/25/2026
Naphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Phenanthrene	430	330	330		µg/Kg-dry	1	6/25/2026
Pyrene	2,500	330	330		µg/Kg-dry	1	6/25/2026
Surr: 2-Fluorobiphenyl	76.8	44-132			%REC	1	6/25/2026
Surr: 4-Terphenyl-d14	86.6	35-133			%REC	1	6/25/2026
Surr: Nitrobenzene-d5	80.9	30-133			%REC	1	6/25/2026
MOISTURE			SW3550C				Analyst:
Moisture	6.5	0.50	0		% of sample	1	6/20/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-9 (1.5')

Work Order: 26060046

Collection Date: 6/18/2026 11:54:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-09

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082A		Prep Date: 6/24/2026		Analyst: QNG
Aroclor 1016	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1221	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1232	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1242	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1248	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1254	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1260	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1262	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1268	ND	330	330		µg/Kg-dry	1	6/25/2026
PCBs, Total	ND	89	0		µg/Kg-dry	1	6/25/2026
Surr: Decachlorobiphenyl	103	54-146			%REC	1	6/25/2026
Surr: Tetrachloro-m-xylene	91.1	58-140			%REC	1	6/25/2026
MERCURY BY CVAA							
			SW7471B		Prep Date: 6/24/2026		Analyst: MXR
Mercury	ND	0.050	0.050		mg/Kg-dry	1	6/25/2026
METALS BY ICP-MS							
			SW6020B		Prep Date: 6/22/2026		Analyst: STP
Arsenic	7.1	3.0	2.0		mg/Kg-dry	10	6/22/2026
Barium	21	3.0	1.0		mg/Kg-dry	10	6/22/2026
Cadmium	ND	1.2	0.20		mg/Kg-dry	10	6/22/2026
Chromium	6.6	3.0	2.0		mg/Kg-dry	10	6/23/2026
Copper	66	3.0	1.0		mg/Kg-dry	10	6/22/2026
Lead	59	10	10		mg/Kg-dry	10	6/22/2026
Selenium	ND	3.0	0.20		mg/Kg-dry	10	6/22/2026
Silver	ND	3.0	0.10		mg/Kg-dry	10	6/22/2026
Zinc	370	5.9	1.0		mg/Kg-dry	10	6/22/2026
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			SW8270E		Prep Date: 6/24/2026		Analyst: IA
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Anthracene	650	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)anthracene	5,000	330	330		µg/Kg-dry	10	6/26/2026
Benzo(a)pyrene	4,600	330	330		µg/Kg-dry	10	6/26/2026
Benzo(b)fluoranthene	8,700	330	330		µg/Kg-dry	10	6/26/2026
Benzo(g,h,i)perylene	2,900	330	330		µg/Kg-dry	1	6/25/2026
Benzo(k)fluoranthene	2,900	330	330		µg/Kg-dry	1	6/25/2026
Chrysene	6,300	330	330		µg/Kg-dry	10	6/26/2026
Dibenzo(a,h)anthracene	690	330	330		µg/Kg-dry	1	6/25/2026
Fluoranthene	10,000	330	330		µg/Kg-dry	10	6/26/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-9 (1.5')

Work Order: 26060046

Collection Date: 6/18/2026 11:54:00 AM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-09

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Fluorene	ND	330	330		µg/Kg-dry	1	6/25/2026
Indeno(1,2,3-cd)pyrene	3,100	330	330		µg/Kg-dry	1	6/25/2026
Naphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Phenanthrene	520	330	330		µg/Kg-dry	1	6/25/2026
Pyrene	12,000	330	330		µg/Kg-dry	10	6/26/2026
Surr: 2-Fluorobiphenyl	76.6	44-132			%REC	1	6/25/2026
Surr: 4-Terphenyl-d14	87.5	35-133			%REC	1	6/25/2026
Surr: Nitrobenzene-d5	70.4	30-133			%REC	1	6/25/2026
MOISTURE			SW3550C				Analyst:
Moisture	11	0.50	0		% of sample	1	6/20/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-10 (1')

Work Order: 26060046

Collection Date: 6/18/2026 12:18:00 PM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-10

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082A		Prep Date: 6/24/2026		Analyst: QNG
Aroclor 1016	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1221	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1232	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1242	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1248	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1254	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1260	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1262	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1268	ND	330	330		µg/Kg-dry	1	6/25/2026
PCBs, Total	ND	150	0		µg/Kg-dry	1	6/25/2026
Surr: Decachlorobiphenyl	98.1	54-146			%REC	1	6/25/2026
Surr: Tetrachloro-m-xylene	85.4	58-140			%REC	1	6/25/2026
MERCURY BY CVAA							
			SW7471B		Prep Date: 6/24/2026		Analyst: MXR
Mercury	0.16	0.050	0.050		mg/Kg-dry	1	6/25/2026
METALS BY ICP-MS							
			SW6020B		Prep Date: 6/22/2026		Analyst: STP
Arsenic	ND	3.2	2.0		mg/Kg-dry	10	6/22/2026
Barium	16	3.2	1.0		mg/Kg-dry	10	6/22/2026
Cadmium	ND	1.3	0.20		mg/Kg-dry	10	6/22/2026
Chromium	5.2	3.2	2.0		mg/Kg-dry	10	6/23/2026
Copper	18	3.2	1.0		mg/Kg-dry	10	6/22/2026
Lead	40	10	10		mg/Kg-dry	10	6/22/2026
Selenium	ND	3.2	0.20		mg/Kg-dry	10	6/22/2026
Silver	ND	3.2	0.10		mg/Kg-dry	10	6/22/2026
Zinc	400	6.3	1.0		mg/Kg-dry	10	6/23/2026
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			SW8270E		Prep Date: 6/24/2026		Analyst: IA
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthylene	520	330	330		µg/Kg-dry	1	6/25/2026
Anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)anthracene	1,300	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)pyrene	3,000	330	330		µg/Kg-dry	1	6/25/2026
Benzo(b)fluoranthene	5,100	330	330		µg/Kg-dry	10	6/26/2026
Benzo(g,h,i)perylene	1,900	330	330		µg/Kg-dry	1	6/25/2026
Benzo(k)fluoranthene	1,400	330	330		µg/Kg-dry	1	6/25/2026
Chrysene	1,900	330	330		µg/Kg-dry	1	6/25/2026
Dibenzo(a,h)anthracene	490	330	330		µg/Kg-dry	1	6/25/2026
Fluoranthene	1,400	330	330		µg/Kg-dry	1	6/25/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-10 (1')

Work Order: 26060046

Collection Date: 6/18/2026 12:18:00 PM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-10

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Fluorene	ND	330	330		µg/Kg-dry	1	6/25/2026
Indeno(1,2,3-cd)pyrene	2,500	330	330		µg/Kg-dry	1	6/25/2026
Naphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Pyrene	2,300	330	330		µg/Kg-dry	1	6/25/2026
Surr: 2-Fluorobiphenyl	59.3	44-132			%REC	1	6/25/2026
Surr: 4-Terphenyl-d14	68.5	35-133			%REC	1	6/25/2026
Surr: Nitrobenzene-d5	58.7	30-133			%REC	1	6/25/2026
MOISTURE			SW3550C				Analyst:
Moisture	8.2	0.50	0		% of sample	1	6/20/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-11 (1.25')

Work Order: 26060046

Collection Date: 6/18/2026 12:30:00 PM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-11

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082A		Prep Date: 6/24/2026		Analyst: QNG
Aroclor 1016	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1221	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1232	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1242	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1248	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1254	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1260	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1262	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1268	ND	330	330		µg/Kg-dry	1	6/25/2026
PCBs, Total	ND	140	0		µg/Kg-dry	1	6/25/2026
Surr: Decachlorobiphenyl	96.2	54-146			%REC	1	6/25/2026
Surr: Tetrachloro-m-xylene	91.5	58-140			%REC	1	6/25/2026
MERCURY BY CVAA							
			SW7471B		Prep Date: 6/24/2026		Analyst: MXR
Mercury	0.35	0.050	0.050		mg/Kg-dry	2	6/25/2026
METALS BY ICP-MS							
			SW6020B		Prep Date: 6/22/2026		Analyst: STP
Arsenic	3.3	3.1	2.0		mg/Kg-dry	10	6/22/2026
Barium	21	3.1	1.0		mg/Kg-dry	10	6/22/2026
Cadmium	ND	1.2	0.20		mg/Kg-dry	10	6/22/2026
Chromium	5.3	3.1	2.0		mg/Kg-dry	10	6/23/2026
Copper	22	3.1	1.0		mg/Kg-dry	10	6/22/2026
Lead	32	10	10		mg/Kg-dry	10	6/22/2026
Selenium	ND	3.1	0.20		mg/Kg-dry	10	6/22/2026
Silver	ND	3.1	0.10		mg/Kg-dry	10	6/22/2026
Zinc	120	6.2	1.0		mg/Kg-dry	10	6/22/2026
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			SW8270E		Prep Date: 6/24/2026		Analyst: IA
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	6/25/2026
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026
Chrysene	ND	330	330		µg/Kg-dry	1	6/25/2026
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/25/2026
Fluoranthene	ND	330	330		µg/Kg-dry	1	6/25/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-11 (1.25')

Work Order: 26060046

Collection Date: 6/18/2026 12:30:00 PM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-11

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Fluorene	ND	330	330		µg/Kg-dry	1	6/25/2026
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Naphthalene	ND	330	330		µg/Kg-dry	1	6/25/2026
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Pyrene	ND	330	330		µg/Kg-dry	1	6/25/2026
Surr: 2-Fluorobiphenyl	78.1	44-132			%REC	1	6/25/2026
Surr: 4-Terphenyl-d14	103	35-133			%REC	1	6/25/2026
Surr: Nitrobenzene-d5	80.8	30-133			%REC	1	6/25/2026
MOISTURE			SW3550C				Analyst:
Moisture	9.8	0.50	0		% of sample	1	6/20/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-12 (0.75')

Work Order: 26060046

Collection Date: 6/18/2026 12:46:00 PM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-12

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082A		Prep Date: 6/24/2026		Analyst: QNG
Aroclor 1016	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1221	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1232	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1242	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1248	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1254	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1260	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1262	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1268	ND	330	330		µg/Kg-dry	1	6/25/2026
PCBs, Total	ND	150	0		µg/Kg-dry	1	6/25/2026
Surr: Decachlorobiphenyl	189	54-146		S	%REC	1	6/25/2026
Surr: Tetrachloro-m-xylene	168	58-140		S	%REC	1	6/25/2026
MERCURY BY CVAA							
			SW7471B		Prep Date: 6/24/2026		Analyst: MXR
Mercury	ND	0.050	0.050		mg/Kg-dry	1	6/25/2026
METALS BY ICP-MS							
			SW6020B		Prep Date: 6/22/2026		Analyst: STP
Arsenic	3.5	3.2	2.0		mg/Kg-dry	10	6/22/2026
Barium	17	3.2	1.0		mg/Kg-dry	10	6/22/2026
Cadmium	ND	1.3	0.20		mg/Kg-dry	10	6/22/2026
Chromium	5.6	3.2	2.0		mg/Kg-dry	10	6/23/2026
Copper	18	3.2	1.0		mg/Kg-dry	10	6/22/2026
Lead	31	10	10		mg/Kg-dry	10	6/22/2026
Selenium	ND	3.2	0.20		mg/Kg-dry	10	6/22/2026
Silver	ND	3.2	0.10		mg/Kg-dry	10	6/22/2026
Zinc	120	6.4	1.0		mg/Kg-dry	10	6/22/2026
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			SW8270E		Prep Date: 6/24/2026		Analyst: IA
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/26/2026
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/26/2026
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/26/2026
Anthracene	ND	330	330		µg/Kg-dry	1	6/26/2026
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	6/26/2026
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	6/26/2026
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	6/26/2026
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	6/26/2026
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	6/26/2026
Chrysene	ND	330	330		µg/Kg-dry	1	6/26/2026
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/26/2026
Fluoranthene	340	330	330		µg/Kg-dry	1	6/26/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-12 (0.75')

Work Order: 26060046

Collection Date: 6/18/2026 12:46:00 PM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-12

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Fluorene	ND	330	330		µg/Kg-dry	1	6/26/2026
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	6/26/2026
Naphthalene	ND	330	330		µg/Kg-dry	1	6/26/2026
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/26/2026
Pyrene	ND	330	330		µg/Kg-dry	1	6/26/2026
Surr: 2-Fluorobiphenyl	75.5	44-132			%REC	1	6/26/2026
Surr: 4-Terphenyl-d14	87.2	35-133			%REC	1	6/26/2026
Surr: Nitrobenzene-d5	76.4	30-133			%REC	1	6/26/2026
MOISTURE			SW3550C				Analyst:
Moisture	7.6	0.50	0		% of sample	1	6/20/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-13 (1.25')

Work Order: 26060046

Collection Date: 6/18/2026 1:15:00 PM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-13

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082A		Prep Date: 6/24/2026		Analyst: QNG
Aroclor 1016	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1221	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1232	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1242	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1248	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1254	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1260	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1262	ND	330	330		µg/Kg-dry	1	6/25/2026
Aroclor 1268	ND	330	330		µg/Kg-dry	1	6/25/2026
PCBs, Total	ND	86	0		µg/Kg-dry	1	6/25/2026
Surr: Decachlorobiphenyl	104	54-146			%REC	1	6/25/2026
Surr: Tetrachloro-m-xylene	90.1	58-140			%REC	1	6/25/2026
MERCURY BY CVAA							
			SW7471B		Prep Date: 6/24/2026		Analyst: MXR
Mercury	ND	0.050	0.050		mg/Kg-dry	1	6/25/2026
METALS BY ICP-MS							
			SW6020B		Prep Date: 6/22/2026		Analyst: STP
Arsenic	ND	2.9	2.0		mg/Kg-dry	10	6/22/2026
Barium	15	2.9	1.0		mg/Kg-dry	10	6/22/2026
Cadmium	ND	1.2	0.20		mg/Kg-dry	10	6/22/2026
Chromium	5.6	2.9	2.0		mg/Kg-dry	10	6/23/2026
Copper	15	2.9	1.0		mg/Kg-dry	10	6/22/2026
Lead	23	10	10		mg/Kg-dry	10	6/22/2026
Selenium	ND	2.9	0.20		mg/Kg-dry	10	6/22/2026
Silver	ND	2.9	0.10		mg/Kg-dry	10	6/22/2026
Zinc	180	5.8	1.0		mg/Kg-dry	10	6/23/2026
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			SW8270E		Prep Date: 6/24/2026		Analyst: IA
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	6/26/2026
Acenaphthene	ND	330	330		µg/Kg-dry	1	6/26/2026
Acenaphthylene	ND	330	330		µg/Kg-dry	1	6/26/2026
Anthracene	ND	330	330		µg/Kg-dry	1	6/26/2026
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	6/26/2026
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	6/26/2026
Benzo(b)fluoranthene	460	330	330		µg/Kg-dry	1	6/26/2026
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	6/26/2026
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	6/26/2026
Chrysene	350	330	330		µg/Kg-dry	1	6/26/2026
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	6/26/2026
Fluoranthene	470	330	330		µg/Kg-dry	1	6/26/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 26-Jun-26

Client: Otwell Mawby, P. C.

Client Sample ID: B-13 (1.25')

Work Order: 26060046

Collection Date: 6/18/2026 1:15:00 PM

Project: BANKS TWP-RR GRADE 26-132

Lab ID: 26060046-13

Matrix: SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
Fluorene	ND	330	330		µg/Kg-dry	1	6/26/2026
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	6/26/2026
Naphthalene	ND	330	330		µg/Kg-dry	1	6/26/2026
Phenanthrene	ND	330	330		µg/Kg-dry	1	6/26/2026
Pyrene	460	330	330		µg/Kg-dry	1	6/26/2026
Surr: 2-Fluorobiphenyl	79.9	44-132			%REC	1	6/26/2026
Surr: 4-Terphenyl-d14	90.7	35-133			%REC	1	6/26/2026
Surr: Nitrobenzene-d5	81.4	30-133			%REC	1	6/26/2026
MOISTURE			SW3550C				Analyst:
Moisture	10	0.50	0		% of sample	1	6/20/2026

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Otwell Mawby, P. C.
Project: BANKS TWP-RR GRADE 26-132
WorkOrder: 26060046

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

Sample Receipt Checklist

Client Name: **OTWELL**

Date/Time Received: **19-Jun-26 09:30**

Work Order: **26060046**

Received by: **BYH**

Checklist completed by **Brittany Hayward**

19-Jun-26

Reviewed by: **Tim Gates**

19-Jun-26

eSignature

Date

eSignature

Date

Matrices: **SOIL**

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

3.5/3.5C

IR9

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

6/19/2026 2:30:53 PM

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☒

No ☐

N/A ☐

pH adjusted?

Yes ☐

No ☒

N/A ☐

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

Client: Otwell Mawby, P. C.

Work Order: 26060046

Project: BANKS TWP-RR GRADE 26-132

QC BATCH REPORT

Batch ID: **260762**

Instrument ID **GC14**

Method: **SW8082A**

MBLK				Sample ID: MBLK-260762-260762				Units: µg/Kg			Analysis Date: 6/24/2026 09:16 PM		
Client ID:			Run ID: GC14_260624A				SeqNo: 11815110		Prep Date: 6/24/2026		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Aroclor 1016	ND	67											
Aroclor 1221	ND	67											
Aroclor 1232	ND	67											
Aroclor 1242	ND	67											
Aroclor 1248	ND	67											
Aroclor 1254	ND	67											
Aroclor 1260	ND	67											
Aroclor 1262	ND	67											
Aroclor 1268	ND	67											
PCBs, Total	ND	67											
Surr: Decachlorobiphenyl	27.17	0	33.3	0	81.6	54-146	0						
Surr: Tetrachloro-m-xylene	27.65	0	33.3	0	83	58-140	0						

LCS				Sample ID: LCS-260762-260762				Units: µg/Kg		Analysis Date: 6/24/2026 09:28 PM	
Client ID:			Run ID: GC14_260624A			SeqNo: 11815111		Prep Date: 6/24/2026		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aroclor 1016	803.6	67	833	0	96.5	71-135	0				
Aroclor 1260	770.3	67	833	0	92.5	67-135	0				
Surr: Decachlorobiphenyl	27.63	0	33.3	0	83	54-146	0				
Surr: Tetrachloro-m-xylene	26.32	0	33.3	0	79	58-140	0				

MS				Sample ID: HN2611029-001 MS				Units: µg/Kg		Analysis Date: 6/24/2026 10:15 PM	
Client ID:			Run ID: GC14_260624A			SeqNo: 11815115		Prep Date: 6/24/2026		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aroclor 1016	8727	20,000	12370	0	70.5	71-135	0			JS	
Aroclor 1260	10200	20,000	12370	0	82.4	67-135	0			J	
<i>Surr: Decachlorobiphenyl</i>	519.8	0	494.6	0	105	54-146	0				
<i>Surr: Tetrachloro-m-xylene</i>	292.1	0	494.6	0	59.1	58-140	0				

MSD				Sample ID: HN2611029-001 MSD				Units: µg/Kg		Analysis Date: 6/24/2026 10:27 PM	
Client ID:			Run ID: GC14_260624A			SeqNo: 11815116		Prep Date: 6/24/2026		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aroclor 1016	9039	20,000	12250	0	73.8	71-135	9039	0	20	J	
Aroclor 1260	49480	20,000	12250	0	404	67-135	49480	0	20	S	
Surr: Decachlorobiphenyl	15300	0	489.7	0	3120	54-146	15300	0	20	S	
Surr: Tetrachloro-m-xylene	274.5	0	489.7	0	56.1	58-140	274.5	0	20	S	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Otwell Mawby, P. C.
Work Order: 26060046
Project: BANKS TWP-RR GRADE 26-132

QC BATCH REPORT

Batch ID: **260762** Instrument ID **GC14** Method: **SW8082A**

The following samples were analyzed in this batch:

26060046-01A	26060046-02A	26060046-03A
26060046-04A	26060046-05A	26060046-06A
26060046-07A	26060046-08A	26060046-09A
26060046-10A	26060046-11A	26060046-12A
26060046-13A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Otwell Mawby, P. C.
Work Order: 26060046
Project: BANKS TWP-RR GRADE 26-132

QC BATCH REPORT

Batch ID: **260750** Instrument ID **HG5** Method: **SW7471B**

MBLK		Sample ID: MBLK-260750-260750				Units: mg/Kg		Analysis Date: 6/25/2026 11:18 AM		
Client ID:		Run ID: HG5_260625A		SeqNo: 11815486		Prep Date: 6/24/2026		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-260750-260750				Units: mg/Kg		Analysis Date: 6/25/2026 11:19 AM		
Client ID:		Run ID: HG5_260625A		SeqNo: 11815487		Prep Date: 6/24/2026		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1825 0.020 0.1665 0 110 80-120 0

MS		Sample ID: 26060046-01AMS				Units: mg/Kg		Analysis Date: 6/25/2026 11:23 AM		
Client ID: B-1 (2')		Run ID: HG5_260625A		SeqNo: 11815489		Prep Date: 6/24/2026		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.2271 0.018 0.1473 0.07657 102 75-125 0

MSD		Sample ID: 26060046-01AMSD				Units: mg/Kg		Analysis Date: 6/25/2026 11:25 AM		
Client ID: B-1 (2')		Run ID: HG5_260625A		SeqNo: 11815490		Prep Date: 6/24/2026		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.2423 0.018 0.1532 0.07657 108 75-125 0.2271 6.47 35

The following samples were analyzed in this batch:

26060046-01A	26060046-02A	26060046-03A
26060046-04A	26060046-05A	26060046-06A
26060046-07A	26060046-08A	26060046-09A
26060046-10A	26060046-11A	26060046-12A
26060046-13A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Otwell Mawby, P. C.
 Work Order: 26060046
 Project: BANKS TWP-RR GRADE 26-132

QC BATCH REPORT

Batch ID: **260736** Instrument ID **ICPMS4** Method: **SW6020B**

Sample ID: MBLK-260736-260736				Units: mg/Kg			Analysis Date: 6/22/2026 09:50 PM			
Client ID:		Run ID: ICPMS4_260622B			SeqNo: 11813909		Prep Date: 6/22/2026		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS				Sample ID: LCS-260736-260736				Units: mg/Kg		Analysis Date: 6/22/2026 09:52 PM	
Client ID:			Run ID: ICPMS4_260622B			SeqNo: 11813910		Prep Date: 6/22/2026		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	4.696	0.25	5	0	93.9	80-120	0				
Chromium	4.806	0.25	5	0	96.1	80-120	0				
Copper	4.854	0.25	5	0	97.1	80-120	0				
Silver	4.887	0.25	5	0	97.7	80-120	0				
Zinc	4.827	0.50	5	0	96.5	80-120	0				

LCS				Sample ID: LCS-260736-260736				Units: mg/Kg		Analysis Date: 6/23/2026 03:57 PM		
Client ID:			Run ID: ICPMS4_260623B			SeqNo: 11814198		Prep Date: 6/22/2026		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Barium	5.065	0.25	5	0	101	80-120	0					
Cadmium	4.93	0.10	5	0	98.6	80-120	0					
Lead	4.989	0.25	5	0	99.8	80-120	0					
Selenium	4.996	0.25	5	0	99.9	80-120	0					

MS				Sample ID: 26060046-01A MS				Units: mg/Kg		Analysis Date: 6/22/2026 09:55 PM	
Client ID: B-1 (2')			Run ID: ICPMS4_260622B			SeqNo: 11813912		Prep Date: 6/22/2026		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	8.795	2.6	5.187	3.73	97.7	75-125	0				
Copper	22.07	2.6	5.187	15.22	132	75-125	0			S	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Otwell Mawby, P. C.
 Work Order: 26060046
 Project: BANKS TWP-RR GRADE 26-132

QC BATCH REPORT

Batch ID: **260736** Instrument ID **ICPMS4** Method: **SW6020B**

MS				Sample ID: 26060046-01A MS			Units: mg/Kg		Analysis Date: 6/23/2026 04:00 PM	
Client ID: B-1 (2')				Run ID: ICPMS4_260623B			SeqNo: 11814200		Prep Date: 6/22/2026	
									DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	49.04	2.6	5.187	33.75	295	75-125	0			SO
Cadmium	6.206	1.0	5.187	0.335	113	75-125	0			
Chromium	13.9	2.6	5.187	5.834	156	75-125	0			S
Lead	67.65	2.6	5.187	56.02	224	75-125	0			SO
Selenium	6.48	2.6	5.187	0.2414	120	75-125	0			
Silver	5.98	2.6	5.187	0.05283	114	75-125	0			
Zinc	198.1	5.2	5.187	154.1	848	75-125	0			SO

MSD				Sample ID: 26060046-01A MSD			Units: mg/Kg		Analysis Date: 6/22/2026 09:57 PM	
Client ID: B-1 (2')				Run ID: ICPMS4_260622B			SeqNo: 11813913		Prep Date: 6/22/2026	
									DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.22	2.6	5.247	3.73	85.6	75-125	8.795	6.76	20	
Copper	24.3	2.6	5.247	15.22	173	75-125	22.07	9.61	20	S

MSD				Sample ID: 26060046-01A MSD			Units: mg/Kg		Analysis Date: 6/23/2026 04:02 PM	
Client ID: B-1 (2')				Run ID: ICPMS4_260623B			SeqNo: 11814201		Prep Date: 6/22/2026	
									DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	78.2	2.6	5.247	33.75	847	75-125	49.04	45.8	20	SRO
Cadmium	6.322	1.0	5.247	0.335	114	75-125	6.206	1.85	20	
Chromium	13.44	2.6	5.247	5.834	145	75-125	13.9	3.4	20	S
Lead	66.29	2.6	5.247	56.02	196	75-125	67.65	2.03	20	SO
Selenium	5.941	2.6	5.247	0.2414	109	75-125	6.48	8.68	20	
Silver	5.939	2.6	5.247	0.05283	112	75-125	5.98	0.681	20	
Zinc	196.6	5.2	5.247	154.1	811	75-125	198.1	0.732	20	SO

The following samples were analyzed in this batch:

26060046-01A	26060046-02A	26060046-03A
26060046-04A	26060046-05A	26060046-06A
26060046-07A	26060046-08A	26060046-09A
26060046-10A	26060046-11A	26060046-12A
26060046-13A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Otwell Mawby, P. C.
Work Order: 26060046
Project: BANKS TWP-RR GRADE 26-132

QC BATCH REPORT

Batch ID: **260763** Instrument ID **SVMS6** Method: **SW8270E**

MBLK			Sample ID: MBLK-260763-260763				Units: µg/Kg		Analysis Date: 6/24/2026 06:08 PM		
Client ID:			Run ID: SVMS6_260624A			SeqNo: 11815539		Prep Date: 6/24/2026		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
2-Methylnaphthalene	ND	4.2									
Acenaphthene	ND	4.2									
Acenaphthylene	ND	4.2									
Anthracene	ND	4.2									
Benzo(a)anthracene	ND	4.2									
Benzo(a)pyrene	ND	4.2									
Benzo(b)fluoranthene	ND	4.2									
Benzo(g,h,i)perylene	ND	4.2									
Benzo(k)fluoranthene	ND	4.2									
Chrysene	ND	4.2									
Dibenzo(a,h)anthracene	ND	4.2									
Fluoranthene	2.3	4.2								J	
Fluorene	ND	4.2									
Indeno(1,2,3-cd)pyrene	ND	4.2									
Naphthalene	ND	4.2									
Phenanthrene	ND	4.2									
Pyrene	ND	4.2									
Surr: 2-Fluorobiphenyl	547.5	0	666.6	0	82.1	44-132		0			
Surr: 4-Terphenyl-d14	643	0	666.6	0	96.5	35-133		0			
Surr: Nitrobenzene-d5	627.4	0	666.6	0	94.1	30-133		0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Otwell Mawby, P. C.
Work Order: 26060046
Project: BANKS TWP-RR GRADE 26-132

QC BATCH REPORT

Batch ID: **260763** Instrument ID **SVMS6** Method: **SW8270E**

LCS				Sample ID: LCS-260763-260763			Units: µg/Kg		Analysis Date: 6/24/2026 06:24 PM	
Client ID:				Run ID: SVMS6_260624A			SeqNo: 11815540		Prep Date: 6/24/2026	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	504.4	4.2	666.6	0	75.7	32-158	0			
Acenaphthene	573	4.2	666.6	0	86	42-155	0			
Acenaphthylene	560.8	4.2	666.6	0	84.1	39-149	0			
Anthracene	551.7	4.2	666.6	0	82.8	41-155	0			
Benzo(a)anthracene	568.1	4.2	666.6	0	85.2	39-155	0			
Benzo(a)pyrene	529	4.2	666.6	0	79.4	36-158	0			
Benzo(b)fluoranthene	526	4.2	666.6	0	78.9	36-146	0			
Benzo(g,h,i)perylene	573.9	4.2	666.6	0	86.1	26-166	0			
Benzo(k)fluoranthene	558.4	4.2	666.6	0	83.8	36-150	0			
Chrysene	550.9	4.2	666.6	0	82.6	41-162	0			
Dibenzo(a,h)anthracene	534.6	4.2	666.6	0	80.2	27-167	0			
Fluoranthene	528.1	4.2	666.6	0	79.2	39-156	0			
Fluorene	572.1	4.2	666.6	0	85.8	37-153	0			
Indeno(1,2,3-cd)pyrene	550.5	4.2	666.6	0	82.6	24-171	0			
Naphthalene	573.3	4.2	666.6	0	86	43-156	0			
Phenanthrene	557.6	4.2	666.6	0	83.7	39-152	0			
Pyrene	646.2	4.2	666.6	0	96.9	32-147	0			
<i>Surr: 2-Fluorobiphenyl</i>	<i>520.1</i>	<i>0</i>	<i>666.6</i>	<i>0</i>	<i>78</i>	<i>44-132</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>683.1</i>	<i>0</i>	<i>666.6</i>	<i>0</i>	<i>102</i>	<i>35-133</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>577</i>	<i>0</i>	<i>666.6</i>	<i>0</i>	<i>86.6</i>	<i>30-133</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Otwell Mawby, P. C.
Work Order: 26060046
Project: BANKS TWP-RR GRADE 26-132

QC BATCH REPORT

Batch ID: **260763** Instrument ID **SVMS6** Method: **SW8270E**

MS				Sample ID: HN2610922-005 MS			Units: µg/Kg		Analysis Date: 6/24/2026 10:32 PM	
Client ID:				Run ID: SVMS6_260624A			SeqNo: 11815541		Prep Date: 6/24/2026	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	937.7	7.8	1248	0	75.1	32-158	0			
Acenaphthene	981.4	7.8	1248	0	78.6	42-155	0			
Acenaphthylene	1008	7.8	1248	0	80.8	39-149	0			
Anthracene	985.1	7.8	1248	0	78.9	41-155	0			
Benzo(a)anthracene	1020	7.8	1248	0	81.7	39-155	0			
Benzo(a)pyrene	957.6	7.8	1248	0	76.7	36-158	0			
Benzo(b)fluoranthene	964.5	7.8	1248	0	77.3	36-146	0			
Benzo(g,h,i)perylene	952	7.8	1248	0	76.3	26-166	0			
Benzo(k)fluoranthene	994.2	7.8	1248	0	79.6	36-150	0			
Chrysene	965.4	7.8	1248	0	77.3	41-162	0			
Dibenzo(a,h)anthracene	932.3	7.8	1248	0	74.7	27-167	0			
Fluoranthene	1028	7.8	1248	1.582	82.2	39-156	0			
Fluorene	1038	7.8	1248	0	83.1	37-153	0			
Indeno(1,2,3-cd)pyrene	968.5	7.8	1248	0	77.6	24-171	0			
Naphthalene	1020	7.8	1248	0	81.7	43-156	0			
Phenanthrene	987.9	7.8	1248	0	79.1	39-152	0			
Pyrene	989.4	7.8	1248	0	79.3	32-147	0			
<i>Surr: 2-Fluorobiphenyl</i>	922.5	0	1248	0	73.9	44-132	0			
<i>Surr: 4-Terphenyl-d14</i>	1043	0	1248	0	83.5	35-133	0			
<i>Surr: Nitrobenzene-d5</i>	1014	0	1248	0	81.2	30-133	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Otwell Mawby, P. C.
Work Order: 26060046
Project: BANKS TWP-RR GRADE 26-132

QC BATCH REPORT

Batch ID: **260763** Instrument ID **SVMS6** Method: **SW8270E**

MSD					Sample ID: HN2610922-005 MSD		Units: µg/Kg		Analysis Date: 6/24/2026 10:48 PM		
Client ID:			Run ID: SVMS6_260624A			SeqNo: 11815542		Prep Date: 6/24/2026		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
2-Methylnaphthalene	873.8	7.6	1209	0	72.3	32-158	937.7	7.05	30		
Acenaphthene	903.7	7.6	1209	0	74.7	42-155	981.4	8.24	30		
Acenaphthylene	926.3	7.6	1209	0	76.6	39-149	1008	8.47	30		
Anthracene	908.3	7.6	1209	0	75.1	41-155	985.1	8.11	30		
Benzo(a)anthracene	918.4	7.6	1209	0	76	39-155	1020	10.5	30		
Benzo(a)pyrene	840.9	7.6	1209	0	69.6	36-158	957.6	13	30		
Benzo(b)fluoranthene	851.2	7.6	1209	0	70.4	36-146	964.5	12.5	30		
Benzo(g,h,i)perylene	837.6	7.6	1209	0	69.3	26-166	952	12.8	30		
Benzo(k)fluoranthene	882.7	7.6	1209	0	73	36-150	994.2	11.9	30		
Chrysene	870.9	7.6	1209	0	72	41-162	965.4	10.3	30		
Dibenzo(a,h)anthracene	801.7	7.6	1209	0	66.3	27-167	932.3	15.1	30		
Fluoranthene	941.8	7.6	1209	1.582	77.8	39-156	1028	8.71	30		
Fluorene	957.2	7.6	1209	0	79.2	37-153	1038	8.05	30		
Indeno(1,2,3-cd)pyrene	830.3	7.6	1209	0	68.7	24-171	968.5	15.4	30		
Naphthalene	951.6	7.6	1209	0	78.7	43-156	1020	6.97	30		
Phenanthrene	907.5	7.6	1209	0	75.1	39-152	987.9	8.48	30		
Pyrene	891.5	7.6	1209	0	73.7	32-147	989.4	10.4	30		
Surr: 2-Fluorobiphenyl	863.7	0	1209	0	71.4	44-132	922.5	6.59	30		
Surr: 4-Terphenyl-d14	947	0	1209	0	78.3	35-133	1043	9.61	30		
Surr: Nitrobenzene-d5	994.9	0	1209	0	82.3	30-133	1014	1.86	30		

The following samples were analyzed in this batch:

26060046-01A	26060046-02A	26060046-03A
26060046-04A	26060046-05A	26060046-06A
26060046-07A	26060046-08A	26060046-09A
26060046-10A	26060046-11A	26060046-12A
26060046-13A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Otwell Mawby, P. C.
Work Order: 26060046
Project: BANKS TWP-RR GRADE 26-132

QC BATCH REPORT

Batch ID: **R429409** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: MBLK-R429409				Units: % of sample		Analysis Date: 6/20/2026 03:48 PM		
Client ID:		Run ID: MOIST_260620A		SeqNo: 11813566		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	ND	0.50								

LCS		Sample ID: LCS-R429409				Units: % of sample		Analysis Date: 6/20/2026 03:48 PM		
Client ID:		Run ID: MOIST_260620A		SeqNo: 11813565		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.50	100	0	100	98-102	0			

DUP		Sample ID: 26060038-01A_DUP				Units: % of sample		Analysis Date: 6/20/2026 03:48 PM		
Client ID:		Run ID: MOIST_260620A		SeqNo: 11813550		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.42	0.50	0	0	0	0-0	6.32	1.57	10	

DUP		Sample ID: 26060046-10A_DUP				Units: % of sample		Analysis Date: 6/20/2026 03:48 PM		
Client ID: B-10 (1')		Run ID: MOIST_260620A		SeqNo: 11813561		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	8.73	0.50	0	0	0	0-0	8.25	5.65	10	

The following samples were analyzed in this batch:

26060046-01A	26060046-02A	26060046-03A
26060046-04A	26060046-05A	26060046-06A
26060046-07A	26060046-08A	26060046-09A
26060046-10A	26060046-11A	26060046-12A
26060046-13A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



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COC ID: 079520

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South Charleston, WV
+1 304 356 3168

Rochester, NY
+1 585 288 5380

Customer Information		Project Information		Parameter/Method Request for Analysis													
Purchase Order		Project Name	BANKS TWP / RR GRADE	A	PAHS												
Quote #		Project Number	26-132	B	MI 10 METALS												
Company Name	OTWELL MAWBY, P.C.	Bill To Company	OMPC	C	PCBS												
Send Report To	JAMES JACKSON	Invoice Attn	SAME	D													
Address	309 E FRONT ST.	Address		E	26060046 OTWELL: Otwell Mawby, P. C. Project: Otwell - BANKS TWP/RR GRADE 												
				F													
City/State/Zip	TRAVERSE CITY, MI 49686	City/State/Zip		G													
Phone	231-946-5200	Phone		H													
Fax		Fax		I													
e-Mail Address	jackson@otwellmawby.com	e-Mail Address		J													
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-1 (2')	6/18/26	9:30	SOIL		1	X	X	X								
2	B-2 (2')		9:44			1	X	X	X								
3	B-3 (1')		10:00		1	X	X	X									
4	B-4 (1')		10:20		1	X	X	X									
5	B-5 (1')		10:30		1	X	X	X									
6	B-6 (1.25')		10:45		1	X	X	X									
7	B-7 (2')		11:04		1	X	X	X									
8	B-8 (1.5')		11:38		1	X	X	X									
9	B-9 (1.5')		11:54		1	X	X	X									
10	B-10 (1')		12:18		1	X	X	X									
Sampler(s) Please Print & Sign			Shipment Method		Turnaround Time in Business Days (BD)				Other				Results Due Date:				
JACOB HOLLAND 6/18/26				☐ 10 BD ☒ 15 BD ☐ 3 BD ☐ 2 BD ☐ 1 BD													
Relinquished by:	Date:	Time:	Received by:	Notes:													
JH to Fedex 6/18/26	6/18/26		Jim 6/19/26														
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)											
JH to Fedex 6/19/26	6/19/26		Fedex to BH 6/19/26	1R9	3.5C	☐ Level II Std QC ☐ TRRP Checklist ☐ Level III Std QC/Raw Date ☐ TRRP Level IV ☐ Level IV SW846/CLP ☐ Other											
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):														
BH 6/19/26 1418	6/19/26	1418															
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																	

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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3. The Chain of Custody is a legal document. All information must be completed accurately.

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Rochester, NY
+1 585 288 5380

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COC ID: 079521

Customer Information				Project Information				Parameter/Method Request for Analysis											
Purchase Order		Project Name	BANKS TWP. / RR GRADE	A	PAHs														
Quote #		Project Number	26-132	B	MI 10 METALS														
Company Name	OTWELL MAWBY, P.C.	Bill To Company	OMPC	C	PCBs														
Send Report To	JAMES JACKSON	Invoice Attn	SAME	D															
Address	309 E FRONT ST	Address		E															
City/State/Zip	TRAVERSE CITY, MI 49686	City/State/Zip		F															
Phone	231-946-5200	Phone		G															
Fax		Fax		H															
e-Mail Address	jjackson@otwellmawby.com	e-Mail Address		I															
				J															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	B-11 (1.29')	6/18/26	12:30	SOIL		1	X	X	X										
2	B-12 (0.79')		12:46			1	X	X	X										
3	B-13 (1.25')		1:15			1	X	X	X										
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler(s) Please Print & Sign		Shipment Method		Turnaround Time in Business Days (BD)		Results Due Date:	
JACOBS HOUWES				☐ 10 BD ☒ 5 BD ☐ 3 BD ☐ 2 BD ☐ 1 BD			
Relinquished by:	Date:	Time:	Received by:	Notes:			
JACOBS HOUWES	6/18/26		Jim Dot 6/18/26				
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)	
TR 46 Fedex	6/18/26		Fedex to BH 6/19/26 0930	1R9	3.5c	☐ Level II Std QC ☐ TRAP Checklist ☐ Level III Std QC/Raw Date ☐ TRAP Level IV ☐ Level IV SW846/CLP ☐ Other	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):				
BH	6/19/26	1418					
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							

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