

DRAFT

FILL MATERIAL SAMPLING REPORT

**4009 PINGREE STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48204**



DECEMBER 16, 2025

PREPARED FOR:

THE CITY OF DETROIT DEMOLITION DEPARTMENT

1301 THIRD STREET, SUITE 606

DETROIT, MICHIGAN 48226



FILL MATERIAL SAMPLING REPORT

**4009 PINGREE STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48204**

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EXECUTIVE SUMMARY

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to perform sampling and analysis of fill materials at the property commonly addressed as 4009 Pingree Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location, as referenced to nearby roads and major geographic features, is shown on Figure 1, *Site Location Map*. Figure 2, *Site Layout*, depicts the current layout of the Site.

This Executive Summary is provided to summarize the results of the work performed at the Site. The Executive Summary is general in nature and should not be used to replace or be considered apart from the entirety of this report.

The purpose of the work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths, as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. Sample analyses associated with this work included volatile organic compounds (VOCs); semivolatile organic compounds (SVOCs); polychlorinated biphenyls (PCBs); arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc (10 Michigan metals); chloride; herbicides; and pesticides. Analytical results were compared to the current generic residential cleanup criteria (GRCC) promulgated under Part 201 of the *Natural Resources and Environmental Protection Act* (NREPA), 1994 P.A. 451, as amended (Part 201).

Pursuant to a request by the COD, MSG has completed sampling and analysis of fill material at the Site, as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. Results of this work, which are subject to the limitations presented in *Appendix A, Limitations*, incorporated by reference herewith, revealed the following:

- The stratigraphy encountered during soil boring advancement of 4009 SB01, 4009 SB02, and 4009 SB03 generally consisted of brown silty clay with some sand to six feet below ground surface (bgs), the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.1 to 11.1 parts per million (ppm). There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities.
- Concentrations of arsenic and mercury were detected in soil sample 4009 SB02 (5-6') in excess of their respective Part 201 drinking water protection criteria (DWPC) and/or groundwater surface water interface protection criteria (GSIPC).
- Concentrations of 1,2,4-trimethylbenzene, 1-methylnaphthalene, 2-methylnaphthalene, acetone, anthracene, barium, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl) phthalate, cadmium, chloride, chromium (Total), chrysene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, naphthalene, phenanthrene, pyrene, selenium, and zinc were detected in soil samples 4009 SB01 (3-4'), 4009 SB02 (5-6'), and/or 4009 SB03 (1-2') at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- Toxicity Characteristic Leaching Procedure (TCLP) laboratory analytical results revealed that concentrations of arsenic, mercury, and pesticides were not in excess of 40 C.F.R. § 261.24 Title 40 - *Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261-Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste*.
- PCBs, pesticides, and herbicides were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface

water exposure pathway can be considered not applicable. Since the building on site has been razed, the soil volatilization to indoor air pathway (SVIAP) is not currently complete, however, consideration may need to be given to this pathway if future construction is planned.

MSG has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the state's Part 201 GRCC, as applicable.

MSG warrants that no substantive information or documentation was deleted, omitted, or changed that would otherwise cause the MSG to reach a different conclusion. Furthermore, MSG understands that the COD and its agencies and authorities may rely upon the overall completeness, accuracy, and conclusions in this report and hereby provides reliance on the contents presented herein.

DRAFT

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 4009 Pingree Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location as referenced to nearby roads and major geographic features is presented as *Figure 1, Site Location Map*. *Figure 2, Site Layout*, depicts the current layout of the Site.

The purpose of this work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths. The scope of work for this investigation was performed in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. This report presents the findings of this investigation. Soil samples were collected by MSG on August 11, 2025, October 7, 2025, October 28, 2025, and December 5, 2025. The findings of this report are valid as of the report date, subject to the limitations presented in *Appendix A, Limitations*.

At the time of this investigation, the Site was vacant and formerly occupied by residential structures. Former Site building(s) had been demolished as part of the Blight Removal Program prior to commencement of this work.

2.0 PURPOSE AND SCOPE OF WORK

The purpose of the work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths, as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and modified in the field (when necessary) based on encountered conditions and professional judgment of the MSG field geologist.

MSG performed the following scope of work in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025:

- Advanced three (3) onsite soil borings to a maximum depth of six feet below ground surface (bgs) utilizing a direct push drill rig at the locations depicted on *Figure 2*.
- Collected one (1) discrete soil sample for laboratory analysis from each soil boring at a depth of 1-2 feet bgs, 3-4 feet bgs, or 5-6 feet bgs, depending on the soil boring.
- Submitted soil samples to an independent analytical laboratory for chemical analysis.
- Prepared this report summarizing the activities and results of this work.

Per the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, sample analyses included volatile organic compounds (VOCs); semivolatile organic compounds (SVOCs); polychlorinated biphenyls (PCBs); arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc (10 Michigan metals); chloride; herbicides; and pesticides. Soil sample analytical results were compared to the current generic residential cleanup criteria (GRCC) promulgated under Part 201 of the *Natural Resources and Environmental Protection Act* (NREPA), 1994 P.A. 451, as amended (Part 201).

3.0 SITE ASSESSMENT METHODOLOGY

The following subsections describe the methodologies employed by MSG at the Site during sampling activities that were conducted on August 11, 2025, October 7, 2025, October 28, 2025, and December 5, 2025. Daily field activity reports prepared by MSG are presented in *Appendix B, Daily Field Reports*.

3.1 Preliminary Site Work Activities

Prior to conducting subsurface soil sampling activities, MSG contacted the MISSDIG utility locating system to identify and physically mark underground utilities. If necessary, proposed soil boring locations were modified based on the results of the utility markings. Additionally, MSG reviewed readily available Site building records

or documents to ensure that this scope of work was conducted on the correct property and in the areas of the former Site structure.

3.2 Soil Sample Collection

The sampling plan for the Site was based on the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and modified in the field (if necessary) based on encountered conditions and professional judgment of MSG's field personnel. MSG advanced three (3) initial soil borings, designated 4009 SB01, 4009 SB02, and 4009 SB03, using a direct push drill rig at the locations depicted on Figure 2. Photographs collected during completion of this work are provided in *Appendix C, Investigation Photographs*.

Soils were continuously profiled at each soil boring location from the ground surface to the termination depth of six feet bgs using a 5-foot long, closed-piston Macro-Core® sampling device. A new disposable high-density polyethylene (HDPE) liner was placed within the sampler between each 5-foot sample interval. The recovered soil samples were examined and logged in the field by the MSG field geologist. The soils were classified by MSG's field geologist in general accordance with *ASTM D 2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)*. Soil descriptions were based on visual examination and interpretation by the field geologist.

Soil samples were examined for visual and olfactory indications of impact in accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and were continuously screened upon retrieval of each sample interval with a MiniRAE 10.6 electron volt (eV) photoionization detector (PID) calibrated with isobutylene span gas. The PID measures the concentration of airborne ionizable gasses and vapors and automatically displays any detected concentrations in parts per million (ppm). The PID measures total concentrations of VOC vapors present and cannot distinguish between individual VOC constituents. PID readings for each sample interval were recorded on the individual soil boring logs, which are included in *Appendix D, Soil Boring Logs*.

Soil samples were collected in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. The soil samples were placed into appropriate pre-preserved and unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses. Soil samples collected for VOC analysis were placed in laboratory supplied pre-tared 40-milliliter (ml) vials with septum sealed threaded caps that were pre-preserved with methanol provided by the analytical laboratory. Groundwater was not encountered during the investigation.

3.3 Toxicity Characteristic Leaching Procedure (TCLP) Soil Sample Collection

On October 7, 2025, MSG mobilized to the Site to collect an additional soil sample based on request from the COD. Sample location and analyte(s) were based on the laboratory results of the initial soil investigation. MSG personnel advanced one soil boring in the immediate vicinity of the soil boring location that exhibited the highest laboratory result(s) in excess of Part 201 GRCC. Soils were continuously profiled from the ground surface to the termination depth of six feet bgs utilizing a direct push drill rig. These soils were homogenized in a stainless-steel bowl (or equivalent) to produce a single, composite soil sample. The composite soil sample was placed into unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses.

The composite soil sample was collected to create a single, representative sample to provide a laboratory result that includes the overlying and/or underlying soils in the area of concern to comprehensively represent the backfill soils that may be removed.

On October 28, 2025 and December 5, 2025, MSG mobilized to the Site to collect an additional soil sample based on request from the COD in order to fulfill waste characterization parameters required at a Type II landfill. Sample location and analyte(s) were based on the laboratory results of the initial soil sampling event,

as compared to 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261 - Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste. Soils were continuously profiled at the supplemental soil boring locations from the ground surface to the termination depth using a 5-foot long, closed-piston Macro-Core® sampling device. When warranted, a new disposable high-density polyethylene (HDPE) liner was placed within the sampler between each 5-foot sample interval. The recovered soil samples were examined and logged in the field by the MSG field geologist.

3.4 Decontamination

Before initiation of sampling and drilling activities and between each sampling/soil boring, equipment was cleaned to avoid the potential for cross-contamination during field activities. Pertinent equipment and tooling were thoroughly cleaned using a phosphate-free soap to remove chemical residue and caked-on soils. After sample collection was completed, each soil boring location was abandoned with the soil cuttings generated at each soil boring location and finished to match the original surface.

3.5 Analytical Methods

A total of six (6) soil samples, designated 4009 SB01 (3-4'), 4009 SB02 (5-6'), 4009 SB03 (1-2'), 4009 Pingree SB02 (5-6')-R, 4009 Pingree SB02, and 4009 Pingree SB02 (5-6') TCLP were collected as part of this investigation. These soil samples were submitted to ALS Environmental Laboratory (ALS) in Holland, Michigan for laboratory analysis of the following parameters per the requested parameters as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and individual TCLP analysis:

- VOCs by United States Environmental Protection Agency (USEPA) Method SW8260D;
- SVOCs by USEPA Method SW8270E;
- PCBs by USEPA Method SW8082A;
- 10 Michigan metals by USEPA Method SW6020B and SW7471B;
- Chloride by USEPA Method SW9056A;
- Herbicides by USEPA Method SW8151A; and
- Pesticides by USEPA Method SW8081B.

3.6 Quality Assurance/Quality Control

Quality assurance and quality control (QA/QC) was achieved in the field by using MSG's standard operating procedures (SOPs) for sample collection, sample screening, sample preservation, and chain-of-custody protocols to ensure sample integrity. Per the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, duplicate soil samples and field blanks were not collected.

Laboratory QC was achieved by using standard analytical methods, the analyses of spiked and laboratory quality control samples, and the use of internal laboratory quality assurance protocols. Review of the laboratory's QC data indicated the validity of the data and that it is able to be used for assessing soil samples collected during this work.

4.0 SUMMARY OF RESULTS

The following subsections include a discussion of the soil samples that were collected from the Site on August 11, 2025, October 7, 2025, October 28, 2025, and December 5, 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 4009 SB01, 4009 SB02, and 4009 SB03 generally consisted of brown silty clay with some sand to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.1 to 11.1 ppm. There were no

visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities.

Groundwater was not encountered during soil boring activities completed as part of this investigation.

4.2 Soil Sample Analytical Results

Four (4) soil samples, designated 4009 SB01 (3-4'), 4009 SB02 (5-6'), 4009 SB03 (1-2'), and 4009 Pingree SB02 (5-6')-R were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and/or pesticides.

The analytical results and comparisons to applicable Part 201 GRCC are summarized in *Table 1, Soil Sample Analytical Detection Summary*. Copies of the laboratory analytical data reports and chain of custody forms are included in *Appendix E, Laboratory Analytical Reports and Chain of Custody Forms*.

A summary of the soil sample analytical detections in excess of Part 201 GRCC is provided below:

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration (µg/kg ¹)	Maximum Detected Concentration (µg/kg)
Arsenic	7440-38-2	4009 SB02 (5-6')	DWPC ² / 4,600 GSIPC ³ / 4,600	6,160
Mercury (B,Z)	7439-97-6	4009 SB02 (5-6')	GSIPC / 50 (M); 1.2	265

¹µg/kg – micrograms per kilogram;

²DWPC – Drinking Water Protection Criteria

³GSIPC – Groundwater Surface Water Interface Protection Criteria

4.3 TCLP Analytical Results

Arsenic, mercury, lead, and pesticides were analyzed following leach testing using USEPA method EPA 6020 B. Laboratory results are summarized and compared to 40 C.F.R. § 261.24 *Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261 - Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste* in *Table 2, TCLP Analytical Detection Summary Table*. Upon comparison, the laboratory analytical results following TCLP testing were below laboratory method detection limits.

Copies of the laboratory analytical data report and chain of custody forms are included in Appendix E.

4.4 Exposure Evaluation

MSG has completed a preliminary evaluation for the Site and associated exposure pathways. Cleanup criteria are applicable if it is reasonable and relevant for the corresponding exposure pathway to be or become complete.

Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Since the building on site has been razed, the soil volatilization to indoor air pathway (SVIAP) is not currently complete, however, consideration may need to be given to this pathway if future construction is planned.

5.0 FINDINGS

MSG has evaluated the analytical results of the fill material samples collected at the Site in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. The findings of this investigation are presented below:

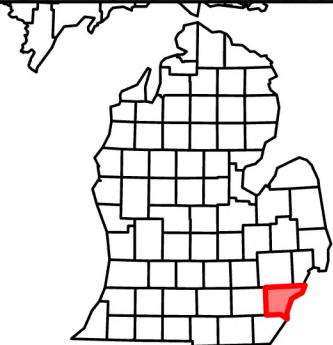
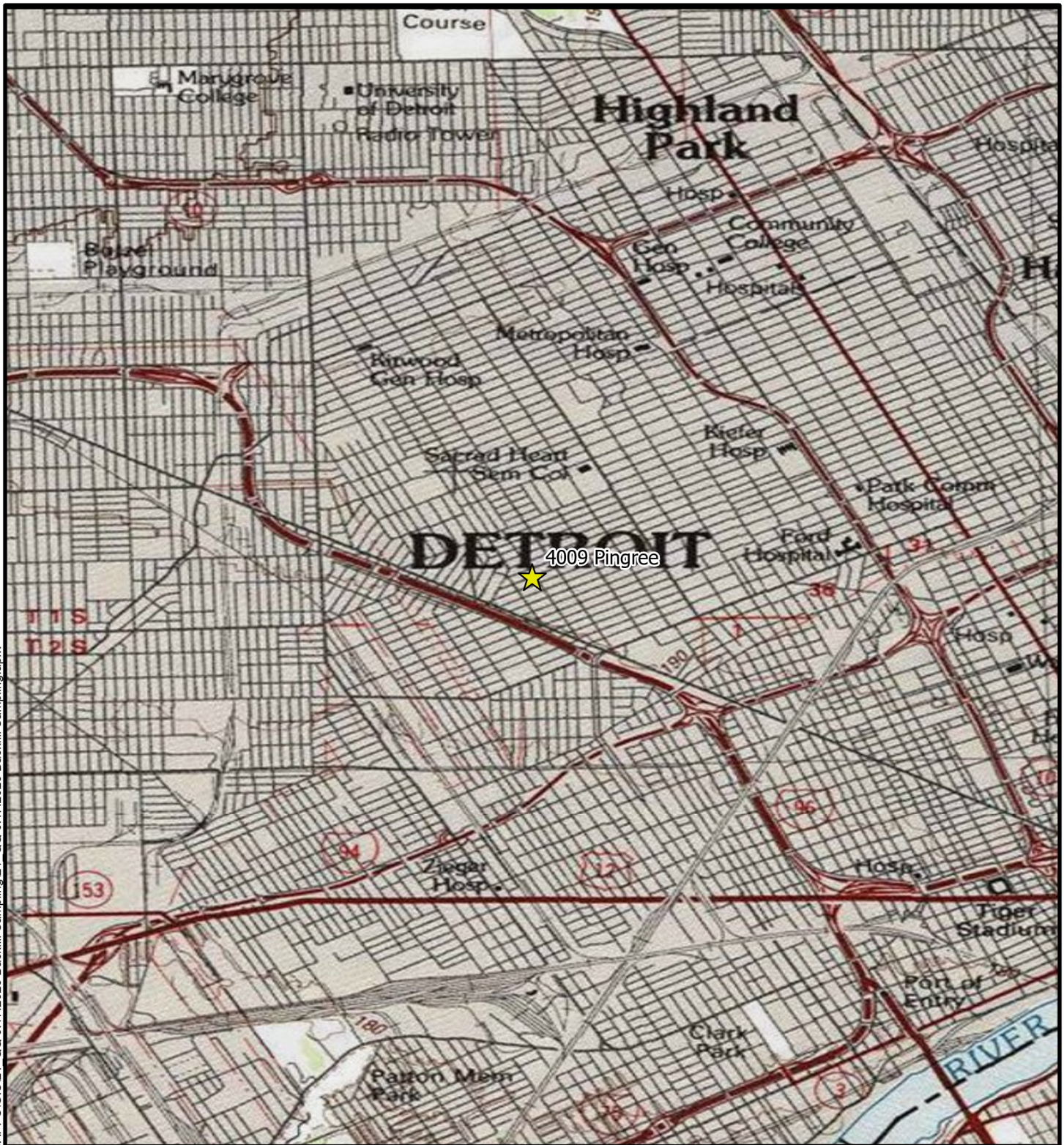
- The stratigraphy encountered during soil boring advancement of 4009 SB01, 4009 SB02, and 4009 SB03 generally consisted of brown silty clay with some sand to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.1 to 11.1 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities.
- Concentrations of arsenic and mercury were detected in soil sample 4009 SB02 (5-6') in excess of their respective Part 201 DWPC and/or GSIPC.
- Concentrations of 1,2,4-trimethylbenzene, 1-methylnaphthalene, 2-methylnaphthalene, acetone, anthracene, barium, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl) phthalate, cadmium, chloride, Chromium (Total), chrysene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, naphthalene, phenanthrene, pyrene, selenium, and zinc were detected in soil samples 4009 SB01 (3-4'), 4009 SB02 (5-6'), and/or 4009 SB03 (1-2') at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or statewide default background levels.
- TCLP laboratory analytical results revealed that concentrations of arsenic, mercury, and pesticides were not in excess of 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste.
- PCBs, pesticides, and herbicides were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the DW exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Since the building on site has been razed, the SVIAP is not currently complete, however, consideration may need to be given to this pathway if future construction is planned.

MSG has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the state's Part 201 GRCC, as applicable.

MSG warrants that no substantive information or documentation was deleted, omitted, or changed that would otherwise cause the MSG to reach a different conclusion. Furthermore, MSG understands that the COD and its agencies and authorities may rely upon the overall completeness, accuracy, and conclusions in this report and hereby provides reliance on the contents presented herein.

FIGURES





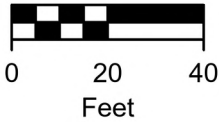
★ Site Location



FIGURE 1
SITE LOCATION

4009 Pingree, Detroit, MI

DATE 9/23/2025	DRAWN BY JWW	DESIGNED BY JWW	PROJECT NO. DETR0060
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- Sample Locations
- Parcels (Current)
- - - Subject Property

Notes
• Parcel boundaries are approximate
• Basemap Credits: Wayne - 2020 - 6in - 4-band:



FIGURE 2
Site Layout

4009 Pingree, Detroit, MI

DATE 9/22/2025	DRAWN BY JWW	DESIGNED BY KRB	PROJECT NO. DETR0060
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TABLES



Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
4009 Pingree, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 Units: µg/kg	Volatile Organic Compounds (VOCs)		Semi-Volatile Organic Compounds (SVOCs)																
	Acetone	1,2,4-Trimethylbenzene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Bis(2-ethylhexyl) phthalate	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene		
	CAS Number	67-64-1	95-63-6	120-12-7	56-55-3	205-99-2	207-08-9	191-24-2	50-32-8	117-81-7	218-01-9	206-44-0	193-39-5	NA	91-57-6	91-20-3	85-01-8	129-00-0	
	Statewide Default Background Levels	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Drinking Water Protection Criteria (DWPC)	15,000	2,100	41,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7.3E+05	NLL	NA	57,000	35,000	56,000	4.8E+05	
	Groundwater Surface Water Interface Protection Criteria (GSIPC)	34,000	570	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	NLL	NA	4,200	730	2,100	ID	
	Soil Volatilization to Indoor Air Inhalation (SVIIC)	2.9E+8 (C)	4.3E+6 (C)	1.0E+09 (D)	NLV	ID	NLV	NLV	NLV	NLV	ID	1.0E+09 (D)	NLV	NA	2.7E+06	2.5E+05	2.8E+06	1.0E+09 (D)	
	Soil Volatilization to Indoor Air Pathway (SVIAP)	2.6E+05 (EE)	150 (JT)	1.3E+07	1.6E+05 (MM)	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,700	67 (M)	1,700	2.5E+07	
	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	1.3E+08	2.1E+07	1.4E+09	NLV	ID	NLV	NLV	NLV	NLV	ID	7.4E+08	NLV	NA	1.5E+06	3.0E+05	1.6E+05	6.5E+08	
	Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)	1.3E+08	5.0E+08	1.4E+09	NLV	ID	NLV	NLV	NLV	NLV	ID	7.4E+08	NLV	NA	1.5E+06	3.0E+05	1.6E+05	6.5E+08	
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)	1.9E+08	5.0E+08	1.4E+09	NLV	ID	NLV	NLV	NLV	NLV	ID	7.4E+08	NLV	NA	1.5E+06	3.0E+05	1.6E+05	6.5E+08		
Particulate Soil Inhalation Criteria (PSIC)	3.9E+11	8.2E+10	6.7E+10	ID	ID	ID	8.0E+08	1.5E+06	7.0E+08	ID	9.3E+09	ID	NA	6.7E+08	2.0E+08	6.7E+06	6.7E+09		
Direct Contact Criteria (DCC)	2.3E+07	3.2E+07 (C)	2.3E+08	20,000	20,000	2.0E+05	2.5E+06	2,000	2.8E+06	2.0E+06	4.6E+07	20,000	NA	8.1E+06	1.6E+07	1.6E+06	2.9E+07		
Soil Saturation Concentration Screening Levels (C _{sat})	1.1E+08	1.1E+05	NA	NA	NA	NA	NA	NA	1.0E+07	NA	NA	NA	NA	NA	NA	NA	NA		
Recommended Interim Action Screening Level (RIASL)	2.6E+05	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SAMPLE ID	DEPTH (ft)	SAMPLE DATE																	
4009 SB01	3-4	8/11/2025	219	<35.2	204	319	466	147	308	344	255	308	739	283	68.2	61.0	46.6	319	667
4009 SB02	5-6	8/11/2025	1,910	84.2	242	372	513	173	311	412	253	339	892	354	97.5	141	61.4	455	780
4009 SB03	1-2	8/11/2025	<117	<35.1	113	165	274	102	172	208	<174	190	380	151	<35.2	<35.2	38.7	127	348
4009 Pingree SB02 - R	5-6	10/28/2025	NS	NS	197	393	429	197	250	375	<739	214	751	322	<129	<90.9	<114	679	626

Notes:
Bold indicates concentration above laboratory reporting limits.
Exceeds DWPC
Exceeds GSIPC
Exceeds Applicable Soil Vapor Inhalation screening level
Exceeds Two or More DWPC, GSIPC, and/or Applicable Soil Vapor Inhalation screening levels
Exceeds PSIC, DCC, and/or Csat, likely exceeds others
ND = Not Detected above laboratory reporting limits
NS = Not Sampled or Not Analyzed
NR = Not Reported (Data missing from provided report)
Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, updated October 12, 2023
VIAP Screening Levels and notes from EGLE Guidance Document For The Vapor Intrusion Pathway, Appendix D.1 Vapor Intrusion Screening Values, May 2013, updated February 26, 2024

Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
4009 Pingree, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 Units: µg/kg			Michigan 10 Metals										Pesticides/Herbicides	Polychlorinated Biphenyls (PCBs)	Inorganic Anions/Ions
			Arsenic	Barium (B)	Cadmium (B)	Chromium (Total)	Copper (B)	Lead (B)	Mercury (B,Z)	Selenium (B)	Silver (B)	Zinc (B)			Chloride
CAS Number			7440-38-2	7440-39-3	7440-43-9	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7782-49-2	7440-22-4	7440-66-6			16887006
Statewide Default Background Levels			5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000			NA
Drinking Water Protection Criteria (DWPC)			4,600	1.3E+06	6,000	30,000	5.8E+06	7.0E+05	1,700	4,000	4,500	2.4E+06			5.00E+06
Groundwater Surface Water Interface Protection Criteria (GSIPC)			4,600	(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27	(G)			(X)
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV			NLV
Soil Volatilization to Indoor Air Pathway (SVIAP)			NA	NA	NA	--	NA	NA	22 (M)	NA	NA	NA			--
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV			NLV
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV			NLV
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV			NLV
Particulate Soil Inhalation Criteria (PSIC)			7.2E+05	3.3E+08	1.7E+06	2.6E+05	1.3E+08	1.0E+08	2.0E+07	1.3E+08	6.7E+06	ID			ID
Direct Contact Criteria (DCC)			7,600	3.7E+07	5.5E+05	2.5E+06	2.0E+07	4.0E+05	1.6E+05	2.6E+06	2.5E+06	1.7E+08			5.0E+5 (F)
Soil Saturation Concentration Screening Levels (C _{sat})			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			NA
Recommended Interim Action Screening Level (RIASL)			NA	NA	NA	NA	NA	NA	2.7E-02	NA	NA	NA			--
SAMPLE ID	DEPTH (ft)	SAMPLE DATE													
4009 SB01	3-4	8/11/2025	4,940	75,600	282	12,100	18,700	68,900	90.2	<313	<313	87,000	ND	ND	55,700
4009 SB02	5-6	8/11/2025	6,160	105,000	634	17,000	38,000	166,000	265	397	<328	213,000	ND	ND	70,000
4009 SB03	1-2	8/11/2025	4,960	76,700	307	15,100	23,100	59,100	41.6	<326	<3260	85,400	ND	ND	46,000
4009 Pingree SB02 - R	5-6	10/28/2025	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS

Notes:
Bold indicates concentration above laboratory reporting limits.
Exceeds DWPC
Exceeds GSIPC
Exceeds Applicable Soil Vapor Inhalation screening level
Exceeds Two or More DWPC, GSIPC, and/or Applicable Soil Vapor Inhalation screening levels
Exceeds PSIC, DCC, and/or Csat, likely exceeds others
ND = Not Detected above laboratory reporting limits
NS = Not Sampled or Not Analyzed
NR = Not Reported (Data missing from provided report)
Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, updated October 12, 2023
VIAP Screening Levels and notes from EGLE Guidance Document For The Vapor Intrusion Pathway, Appendix D.1 Vapor Intrusion Screening Values, May 2013, updated February 26, 2024

Table 2
TCLP Analytical Detection Summary

Detroit Backfill Sampling
4009 Pingree, Detroit, Michigan

40 C.F.R. § 261.24 Code of Federal Regulations Title 40 - Protection of Environment Chapter I - Environmental Protection Agency Subchapter I - Solid Wastes Part 261- Identification and Listing of Hazardous Waste Subpart C - Characteristics of Hazardous Waste <i>Units: mg/L</i>		TCLP Metals			TCLP Pesticides						
		Arsenic	Mercury	Lead	Chlordane, Technical	Endrin	Lindane	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
Maximum Concentration of Contaminants for the Toxicity Characteristic		5.00	0.2	5.00	-	0.002	0.4	0.008	0.008	10.0	0.5
SAMPLE ID	SAMPLE DATE										
4009 Pingree SB02 TCLP	10/7/2025	<0.0499	<0.00200	NS	NS	NS	NS	NS	NS	NS	NS
4009 Pingree SB02 (5-6')-R	10/28/2025	NS	NS	NS	0.000340	0.00000852	0.00000833	0.00000761	0.00000794	0.0000099	0.000110
4009 Pingree SB02 (5-6') TCLP	12/5/2025	NS	NS	<0.000220	NS	NS	NS	NS	NS	NS	NS

Notes:

Bold indicates concentration above method detection limits.

Exceeds Maximum Concentration of Contaminates for the Toxicity Characteristic

APPENDIX A

LIMITATIONS



LIMITATIONS

This investigation and related documentation are site-specific, which means they pertain to the environmental conditions of the Site only.

The Mannik & Smith Group, Inc. (MSG) performed its services associated with the investigation in conformance with the care and skill ordinarily used by other reputable environmental consulting firms practicing under similar conditions, at the same time, and in the same or similar locality. In preparing this report, MSG may have relied on information obtained from or provided by others. MSG makes no representation or warranty regarding the accuracy or completeness of this information gathered through outside sources or subcontracted services. No warranty, guarantee, or certification of any kind, expressed or implied, at common law or created by statute, is extended, made, or intended by rendering these environmental consulting services or by furnishing this written report. Environmental conditions and regulations are subject to constant change and reinterpretation. One should not assume that any on-site conditions and/or regulatory statutes or rules will remain constant after MSG has completed the scope of work for this project. Furthermore, because the facts stated in these reports are subject to professional interpretation, differing conclusions could be reached by other environmental professionals.

Contaminants may be hidden in subsurface material, covered by pavement, vegetation, or other substances. Additionally, contamination may not be present in predictable locations. MSG has prepared a logical investigation program to reduce the client's risk of discovering unknown contamination. This risk may be reduced by more extensive exploration on the Site. Even with additional exploration, it is not possible to completely eliminate the risk of discovering contamination on the Site. It can not be assumed that samples collected and conditions observed are representative of an area that has not been sampled and/or tested.

Some environmental assessments are undertaken to satisfy "due diligence", "all appropriate inquiry," or other regulatory requirements provided in federal, state, or local law. Although MSG strives to investigate a site in accordance with the scope of work as defined by written agreement with a client, it cannot warrant that the work undertaken for this report will satisfy "due diligence", "all appropriate inquiry," or any other similar standard under any federal, state, or local law.

Due to changing environmental regulatory conditions and potential on-site activities after the completion of investigation, the client may rely upon the conditions within this investigation report for a period of six months from the report's issuance date.

APPENDIX B

DAILY FIELD REPORTS



**DAILY FIELD REPORT****Client:** City of Detroit Demolition Department**Project:** Sampling and Analysis of Fill Material**Report No.:** 1**Job No.:** DETR0060

Date: 08/11/2025	Day: Monday	Temp: 85° F	(AM) N/A	(PM)
MSG Personnel: WRD, ZRG, JDF		Cloud Cover: 0%	(AM) N/A	(PM)
		Precip.: None	(AM) N/A	(PM)
Personnel: MSG				
MSG Hours On-Site: 0.75 hours				

Contractors Information		
Contractor: MSG	No. Men and Type: 3; Helper/Geologist/Driller	Equipment Type: Geoprobe 7822DT

Summary of Work Performed:
- Advanced three (3) onsite soil borings to a maximum depth of 6 feet below ground surface (bgs) - Collected soil samples from each soil boring (from the interval with the greatest potential to be impacted based on field indicators).

Field Notes:
1017 – ZRG & WRD onsite (4009 Pingree St) 1018 – Unloaded equipment and checked boring locations 1020– Began drilling SB01 1025 – Finished drilling SB01 1026 – Began drilling SB02 1031 – Finished drilling SB02 1032 – Began drilling SB03 1037 – Finished drilling SB03 1040 – Sampled 4009 SB01 (3-4') 1045 – Sampled 4009 SB02 (5-6') 1050 – Sampled 4009 SB03 (1-2') 1055 – Packed up equipment 1101 – MSG off site

Supporting Documentation					
Photograph Taken	Yes ☐	No ☒	Samples Collected	Yes ☒	No ☐
Photo Log Attached	☐	☒	COC Attached	☒	☐
Boring/MW Logs	☒	☐	Field Note Book Taken	☐	☒
Problem Identification and Corrective Measures					
N/A					
Resolved?	Yes ☐	No ☐			

**DAILY FIELD REPORT****Client:** City of Detroit Demolition Department**Project:** Sampling and Analysis of Fill Material**Report No.:** 2**Job No.:** DETR0060

Date: 10/7/2025	Day: Tuesday	Temp: 60 ° F	(AM)	N/A	(PM)
MSG Personnel: SRK, JF		Cloud Cover: 100%	(AM)	N/A	(PM)
		Precip.: N/A	(AM)	N/A	(PM)
Personnel: MSG					
MSG Hours On-Site: ~ 0.5 hours					
Contractors Information					
Contractor: MSG		No. Men and Type: 2; Operator/Geologist		Equipment Type: Geoprobe 7822DT	
Summary of Work Performed:					
- Advanced one (1) onsite soil borings to a maximum depth of 6 feet below ground surface (bgs) - Collected TCLP of fill material from soil boring (composite sample of from zero to 6 feet bgs).					
Field Notes:					
1035 – MSG (SRK, JF) onsite (4009 Pingree) 1040 – Attempted to locate previous boring locations. Marked out new boring location. 1055 – Began drilling SB02 TCLP 1057 – Finished drilling SB02 TCLP 1105 – Sampled 4009 Pingree SB02 TCLP 1110 – Collected GPS points 1112 – Packed up equipment 1115 – MSG off site					

Supporting Documentation					
Photograph Taken	Yes ☒	No ☐	Samples Collected	Yes ☒	No ☐
Photo Log Attached	Yes ☒	No ☐	COC Attached	Yes ☒	No ☐
			Boring/MW Logs	Yes ☒	No ☐
			Field Note Book Taken	Yes ☒	No ☐
Problem Identification and Corrective Measures					
N/A					
Resolved? Yes ☐ No ☐					



DAILY FIELD REPORT

Client: City of Detroit Demolition Department
Project: Sampling and Analysis of Fill Material

Report No.: 3
Job No.: DETR0060

Date: <u>10/27/2025</u>	Day: <u>Monday</u>	Temp: <u>48 ° F</u> (AM) <u>N/A</u> (PM)
MSG Personnel: <u>WRD, BSM</u>	Cloud Cover: <u>~5%</u> (AM) <u>N/A</u> (PM)	Precip.: <u>N/A</u> (AM) <u>N/A</u> (PM)
Personnel: <u>MSG</u>		
MSG Hours On-Site: <u>~ 0.5 hours</u>		

Contractors Information		
Contractor: <u>MSG</u>	No. Men and Type: <u>2; Operator/Geologist</u>	Equipment Type: <u>Geoprobe 7822DT</u>

Summary of Work Performed:
- Advanced one (1) onsite soil borings to a maximum depth of 6 feet below ground surface (bgs) - Collected soil sample from soil boring (from the interval 5-6' to analyze for TCLP Pesticides, Herbicides, & SVOCs).

Field Notes:
1013 – MSG (WRD, BSM) onsite (4009 Pingree) 1021 – Attempted to locate previous boring locations. Marked out new boring location. 1030 – Began drilling SB02 (5-6')-R 1035 – Finished drilling SB02 (5-6')-R 1040 – Sampled 4009 Pingree SB02 (5-6')-R 1046 – Packed up equipment 1048 – MSG off site

Supporting Documentation								
	Yes	No		Yes	No		Yes	No
Photograph Taken	☒	☐	Samples Collected	☒	☐	Boring/MW Logs	☐	☒
Photo Log Attached	☒	☐	COC Attached	☒	☐	Field Note Book Taken	☐	☒
Problem Identification and Corrective Measures								
<u>N/A</u>								
Resolved? Yes ☐ No ☐								

APPENDIX C

INVESTIGATION PHOTOGRAPHS





Photo 1. View of Site at the time of TCLP soil boring activities



Photo 2. View of the TCLP soil boring location



Photo 3. View of TCLP soil boring recovery



Photo 4. View of TCLP soil boring recovery



Photo 5. View of Site following TCLP sampling activities



Photo 6. View of Site at the time of supplemental soil sampling activities



Photo 7. View of supplemental soil boring recovery



Photo 8. View of supplemental soil boring location

APPENDIX D

SOIL BORING LOGS





The Mannik & Smith Group, Inc.
2365 Haggerty Road South, Canton, MI 48188
ph: (734) 397-3100 fax: (734) 397-3131
www.manniksmithgroup.com

BOREHOLE NUMBER SB01

Sheet 1 of 1

CLIENT City of Detroit
PROJECT NUMBER DETR0060.BFS11
DATE STARTED 08-11-2025 **COMPLETED** 08-11-2025
DRILLING CONTRACTOR MSG
DRILLING METHOD Direct Push
EQUIPMENT Geoprobe 7822DT **Operator** JDF

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 4009 Pingree, Detroit, MI
POSITION
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
LOGGED BY WRD **CHECKED BY** PDH
REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
5	ES	33		Brown Silty CLAY, some Sand; dry - Concrete & Asphalt 1 to 6 ft bgs	0.1 0.3 1.4 2.7 4.0 5.6	Collected soil sample 4009 SB01 (3-4) at 10:40
6.0				Terminated at 6.00 ft.		
10						
15						
20						

LEGEND:

- ▽ AT TIME OF DRILLING
▼ AT END OF DRILLING
▽ AFTER DRILLING



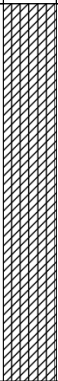
The Mannik & Smith Group, Inc.
2365 Haggerty Road South, Canton, MI 48188
ph: (734) 397-3100 fax: (734) 397-3131
www.manniksmithgroup.com

BOREHOLE NUMBER SB02

Sheet 1 of 1

CLIENT City of Detroit
PROJECT NUMBER DETR0060.BFS11
DATE STARTED 08-11-2025 **COMPLETED** 08-11-2025
DRILLING CONTRACTOR MSG
DRILLING METHOD Direct Push
EQUIPMENT Geoprobe 7822DT **Operator** JDF

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 4009 Pingree, Detroit, MI
POSITION
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
LOGGED BY WRD **CHECKED BY** PDH
REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
5	ES	42		Brown Silty CLAY, some Sand; dry - Concrete & Asphalt 1 to 6 ft bgs	0.2 0.7 1.1 2.3 6.1 11.1	Collected soil sample 4009 SB02 (5-6) at 10:45
6.0				Terminated at 6.00 ft.		
10						
15						
20						

LEGEND:

- ▽ AT TIME OF DRILLING
▼ AT END OF DRILLING
▽ AFTER DRILLING



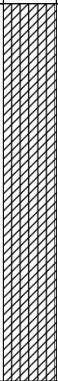
The Mannik & Smith Group, Inc.
2365 Haggerty Road South, Canton, MI 48188
ph: (734) 397-3100 fax: (734) 397-3131
www.manniksmithgroup.com

BOREHOLE NUMBER SB03

Sheet 1 of 1

CLIENT City of Detroit
PROJECT NUMBER DETR0060.BFS11
DATE STARTED 08-11-2025 **COMPLETED** 08-11-2025
DRILLING CONTRACTOR MSG
DRILLING METHOD Direct Push
EQUIPMENT Geoprobe 7822DT **Operator** JDF

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 4009 Pingree, Detroit, MI
POSITION
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
LOGGED BY WRD **CHECKED BY** PDH
REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
5	ES	33		Brown Silty CLAY, some Sand; dry - Concrete & Asphalt 1 to 6 ft bgs	0.2 0.9 1.0 1.5 2.1 3.5	Collected soil sample 4009 SB03 (1-2) at 10:50
6.0				Terminated at 6.00 ft.		
10						
15						
20						

LEGEND:

- ▽ AT TIME OF DRILLING
▼ AT END OF DRILLING
▽ AFTER DRILLING

APPENDIX E
LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

CERTIFICATE OF ANALYSIS

Work Order

HN2511207

Client

The Mannik & Smith Group, Inc.

Project

4009 Pingree

Project Date

August 12, 2025

Reporting Contact

Ryan Montri



right solutions.
right partner.

August 29, 2025

Ryan Montri
The Mannik & Smith Group, Inc.
2365 Haggerty Road South
Suite 100
Canton, MI 48188

Work Order: **HN2511207**

Re: **4009 Pingree**

Dear Ryan,
Enclosed are the results of the sample(s) submitted to our laboratory.

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.

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

Bill Carey
/S/ **BILL CAREY**
Project Manager



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree

Work Order: HN2511207
Date Received: 12-Aug-2025

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt

3 soil/solid samples were received for analysis at ALS Environmental on 12-Aug-2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Inorganics

EPA 9056A-S (High)

Run ID: 3403361

The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for the following analyte(s): Chloride, Bromide
Matrix spike value was outside upper limit of calibration. Processed at equivalent dilution level as the parent - Chloride.

Organics

EPA 8260D-FULL HN-5035A-10mL-S

Run ID: 3402980

The MSD recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary. tetrachloroethene
The MS recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary: tetrachloroethene
The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: pentane
The LCS recovery was below the lower control limit. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: methyl acetate

EPA 8081B-3546-S (High)

Run ID: 3440418

The MSD recoveries are unavailable due to dilution below the calibration range.
The MSD recoveries are unavailable due to dilution below the calibration range.
The matrix spike recoveries are unavailable due to dilution below the calibration range.
The matrix spike recoveries are unavailable due to dilution below the calibration range.
The matrix spike recoveries are unavailable due to dilution below the calibration range.
The MSD recoveries are unavailable due to dilution below the calibration range.
HN2511207-001: The reporting limit is due to dilution elevated n needed to eliminate matrix-related interference.
HN2511207-001: One or more surrogate recoveries were below the lower control limit due to sample dilution.
HN2511207-002: One or more surrogate recoveries were below the lower control limit due to sample dilution.
HN2511207-002: The reporting limit is due to dilution elevated n needed to eliminate matrix-related interference.

Run ID: 3440418

HN2511207-003: The reporting limit is due to dilution/elevated n needed to eliminate matrix-related interference.

EPA 8082A-3546-S (High)**Run ID: 3425747**

HN2511207-001: One or more surrogate recoveries were below the lower control limits. The sample results may be biased low.

HN2511207-002: One or more surrogate recoveries were below the lower control limits. The sample results may be biased low.

Metals**EPA 6020B-3050B-S****Run ID: 3405974**

The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Pb, Mn, Zn batch 2162039

The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Pb, Mn, Zn batch 2162039

Run ID: 3410505

The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Ni batch 2162042

The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Cr batch 2162039

The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for the following analyte(s): Cd, Se, Ag batch 2162042

The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Cr batch 2162039

The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Cd, Se, Ag batch 2162042

The MS recovery was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Cr, Mo batch 2162042

HN2511207-003: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Ag

EPA 7471B-S (Mid)**Run ID: 3402960**

The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Hg Batch 2159501

The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: Hg Batch 2159501

SAMPLE DETECTION SUMMARY

This form includes only detections above the limits as presented.

For a full listing of sample results, continue to the Sample Results section of this Report.



CLIENT ID: 4009 SB01 (3-4)			Lab ID: HN2511207-001		
----------------------------	--	--	-----------------------	--	--

Analyte	Results	Flag	MRL	Units	Method
1-Methylnaphthalene	68.2		35.9	µg/kg	EPA 8270E
2-Methylnaphthalene	61.0		35.9	µg/kg	EPA 8270E
Acetone	219		117	µg/kg	EPA 8260D
Anthracene	204		35.9	µg/kg	EPA 8270E
Arsenic	4.94		0.313	mg/kg	EPA 6020B
Barium	75.6		0.313	mg/kg	EPA 6020B
Benzo(a)anthracene	319		35.9	µg/kg	EPA 8270E
Benzo(a)pyrene	344		35.9	µg/kg	EPA 8270E
Benzo(b)fluoranthene	466		35.9	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	308		35.9	µg/kg	EPA 8270E
Benzo(k)fluoranthene	147		35.9	µg/kg	EPA 8270E
Cadmium	0.282		0.125	mg/kg	EPA 6020B
Chloride	55.7		11.2	mg/kg	EPA 9056A
Chromium	12.1		3.13	mg/kg	EPA 6020B
Chrysene	308		35.9	µg/kg	EPA 8270E
Copper	18.7		3.13	mg/kg	EPA 6020B
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	255		178	µg/kg	EPA 8270E
Fluoranthene	739		35.9	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	283		35.9	µg/kg	EPA 8270E
Lead	68.9		0.313	mg/kg	EPA 6020B
Mercury	0.0902		0.0200	mg/kg	EPA 7471B
Naphthalene	46.6		35.9	µg/kg	EPA 8270E
Percent Moisture	10.9		0.1	%	EPA 3550C
Phenanthrene	319		35.9	µg/kg	EPA 8270E
Pyrene	667		35.9	µg/kg	EPA 8270E
Zinc	87.0		6.26	mg/kg	EPA 6020B

CLIENT ID: 4009 SB02 (5-6)			Lab ID: HN2511207-002		
----------------------------	--	--	-----------------------	--	--

Analyte	Results	Flag	MRL	Units	Method
1,2,4-Trimethylbenzene	84.2		35.3	µg/kg	EPA 8260D
1-Methylnaphthalene	97.5		36.1	µg/kg	EPA 8270E
2-Methylnaphthalene	141		36.1	µg/kg	EPA 8270E
Acetone	1910		118	µg/kg	EPA 8260D
Anthracene	242		36.1	µg/kg	EPA 8270E
Arsenic	6.16		0.328	mg/kg	EPA 6020B
Barium	105		0.328	mg/kg	EPA 6020B
Benzo(a)anthracene	372		36.1	µg/kg	EPA 8270E
Benzo(a)pyrene	412		36.1	µg/kg	EPA 8270E
Benzo(b)fluoranthene	513		36.1	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	311		36.1	µg/kg	EPA 8270E

SAMPLE DETECTION SUMMARY

This form includes only detections above the limits as presented.

For a full listing of sample results, continue to the Sample Results section of this Report.



CLIENT ID: 4009 SB02 (5-6)	Lab ID: HN2511207-002
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Analyte	Results	Flag	MRL	Units	Method
Benzo(k)fluoranthene	173		36.1	µg/kg	EPA 8270E
Cadmium	0.634		0.131	mg/kg	EPA 6020B
Chloride	70.0		11.3	mg/kg	EPA 9056A
Chromium	17.0		3.28	mg/kg	EPA 6020B
Chrysene	339		36.1	µg/kg	EPA 8270E
Copper	38.0		3.28	mg/kg	EPA 6020B
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	253		179	µg/kg	EPA 8270E
Fluoranthene	892		36.1	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	354		36.1	µg/kg	EPA 8270E
Lead	166		3.28	mg/kg	EPA 6020B
Mercury	0.265		0.0201	mg/kg	EPA 7471B
Naphthalene	61.4		36.1	µg/kg	EPA 8270E
Percent Moisture	12.2		0.1	%	EPA 3550C
Phenanthrene	455		36.1	µg/kg	EPA 8270E
Pyrene	780		36.1	µg/kg	EPA 8270E
Selenium	0.397		0.328	mg/kg	EPA 6020B
Zinc	213		6.56	mg/kg	EPA 6020B

CLIENT ID: 4009 SB03 (1-2)	Lab ID: HN2511207-003
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Analyte	Results	Flag	MRL	Units	Method
Anthracene	113		35.2	µg/kg	EPA 8270E
Arsenic	4.96		0.326	mg/kg	EPA 6020B
Barium	76.7		0.326	mg/kg	EPA 6020B
Benzo(a)anthracene	165		35.2	µg/kg	EPA 8270E
Benzo(a)pyrene	208		35.2	µg/kg	EPA 8270E
Benzo(b)fluoranthene	274		35.2	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	172		35.2	µg/kg	EPA 8270E
Benzo(k)fluoranthene	102		35.2	µg/kg	EPA 8270E
Cadmium	0.307		0.130	mg/kg	EPA 6020B
Chloride	46.0		11.0	mg/kg	EPA 9056A
Chromium	15.1		3.26	mg/kg	EPA 6020B
Chrysene	190		35.2	µg/kg	EPA 8270E
Copper	23.1		3.26	mg/kg	EPA 6020B
Fluoranthene	380		35.2	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	151		35.2	µg/kg	EPA 8270E
Lead	59.1		0.326	mg/kg	EPA 6020B
Mercury	0.0416		0.0205	mg/kg	EPA 7471B
Naphthalene	38.7		35.2	µg/kg	EPA 8270E
Percent Moisture	8.6		0.1	%	EPA 3550C
Phenanthrene	127		35.2	µg/kg	EPA 8270E

SAMPLE DETECTION SUMMARY

This form includes only detections above the limits as presented.

For a full listing of sample results, continue to the Sample Results section of this Report.



CLIENT ID: 4009 SB03 (1-2)			Lab ID: HN2511207-003		
Analyte	Results	Flag	MRL	Units	Method
Pyrene	348		35.2	µg/kg	EPA 8270E
Zinc	85.4		6.52	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Workorder: HN2511207

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511207-001	4009 SB01 (3-4)	SOIL/SOLID	08/11/25 10:40	08/12/25 08:00
HN2511207-002	4009 SB02 (5-6)	SOIL/SOLID	08/11/25 10:45	08/12/25 08:00
HN2511207-003	4009 SB03 (1-2)	SOIL/SOLID	08/11/25 10:50	08/12/25 08:00



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis														
Purchase Order		Project Name	4009 Pingree	A	VOCs (U.S. EPA Method 8260C (or Method 8260))													
Work Order		Project Number	DETR0060	B	SVOCs (U.S. EPA Method 8270D (or Method 8270))													
Company Name	The Mannik and Smith Group	Bill To Company	The Mannik and Smith Group	C	PCBs (U.S. EPA Method 8082)													
Send Report To	Ryan Montri	Invoice Attn.		D	Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)													
Address	2365 Haggerty Rd South Suite 100	Address	2365 Haggerty Rd South Suite 100	E	Chlorides (U.S. EPA Method 9056A)													
				F	Pesticides (U.S. EPA Method 8081B (or Method 8081))													
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188	G	Herbicides (U.S. EPA Method 8151A (or Method 8151))													
Phone	734-397-3100	Phone	734-397-3100	H														
Fax		Fax		I														
e-Mail Address	RMontri@manniksmithgroup.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	4009 SB01 (3-4)	8/11/25	1040	Soil	M6H	3	X	X	X	X	X	X	X				
2	4009 SB02 (5-6)	I	1045	Soil	I	3	X	X	X	X	X	X	X				
3	4009 SB03 (1-2)	I	1050	Soil	I	3	X	X	X	X	X	X	X				
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign WILEY DAVENPORT		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:			
Relinquished by: [Signature]		Date: 8/11/25	Time: 1644	Received by: [Signature]		Notes: Quote# HN-061825-M&S-MA					
Relinquished by: [Signature]		Date: 8/11/25	Time: 1645	Received by (Laboratory): [Signature]		Cooler Temp. 5.2°C IR6					
Logged by (Laboratory): BC		Date: 8/12/25	Time: 08:51	Checked by (Laboratory):		QC Package: (Check Box Below) ☐ Level II: Standard QC ☐ TRRP-Checklist ☐ Level III: Std QC + Raw Data ☐ TRRP Level IV ☐ Level IV: SW846 CLP-Like					
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035						Other:					

Environmental Division
Holland
Work Order Reference
HN2511207

Telephone : +1 616 399 6070

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Please click the link below for detailed Terms & Conditions:

<https://www.alsglobal.com/ALSGroupUSACorpTC>

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ALS Holland Sample Receiving Checklist

Received by:

BC

Date/Time:

8/12/25 8:00

Carrier Name:

QS

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

COC signed when relinquished and received?

☒ Yes / No

COC 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

Temperature(s) (°C):

5.2°C

Thermometer(s):

IR6

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

Soil

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

8/12/25 0930

Water – VOA vials have zero headspace?

☒ Yes / No / No Vials

Water – pH acceptable upon receipt?

☒ Yes / No / N/A

pH strip lot #: _____ < 2 _____ > 12 _____ Other _____

pH adjusted (note adjustments below)?

☒ Yes / No / N/A

pH adjusted by:

Login Notes:

REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit (if MCL displayed)
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
J	Analyte is present at an estimated concentration between the MDL and Report Limit
NC	Not Calculated
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
V	The Continuing Calibration Verification was outside of control criteria
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.

Holland Laboratory Certifications¹

Agency	Type	ID	Issued	Expires
Alabama	Drinking Water (Secondary)	42500	12/17/2024	12/31/2025
Colorado	UST		07/01/2025	06/30/2026
Connecticut	Drinking Water (Secondary)	PH-0155	12/10/2024	12/31/2026
Florida	NELAP (Primary)	E871106	07/01/2025	06/30/2026
Illinois	NELAP (Secondary)	200076	11/14/2024	12/31/2025
Indiana	Drinking Water (Secondary)	C-MI-08	12/31/2024	09/04/2026
Iowa	State Specific	403	09/18/2023	09/01/2025
Kansas	NELAP (Secondary)	E-10411	07/09/2024	07/31/2025
Kentucky	Waste Water	KY98004	12/20/2024	12/31/2025
Kentucky	UST	120474	06/24/2024	06/30/2025
Michigan	Drinking Water (Primary)	0022	12/19/2023	09/04/2026
Minnesota	NELAP (Secondary)	026-999-449	12/17/2024	12/31/2025
Missouri	Drinking Water (Secondary)	01262	11/14/2024	12/30/2027
New Jersey	NELAP (Secondary)	MI015	07/01/2024	6/30/2025
New York	NELAP (Secondary)	12128	04/01/2025	04/01/2026
North Dakota	State Specific	R-192	11/18/2024	06/30/2025
Ohio	Drinking Water (Secondary)	87783	06/26/2025	6/30/2026
Pennsylvania	NELAP (Secondary)	68-03827	06/14/2024	07/31/2025
Texas	NELAP (Secondary)	T104704494	02/12/2025	01/31/2026
USDA	Domestic CA	Soil-MI-007	02/06/2025	08/07/2026
USDA	Soil Import	525-23-62-77572	03/03/2023	03/03/2026
West Virginia	State Specific	355	06/07/2025	08/31/2026
Wisconsin	State Specific	399084510	08/15/2024	08/31/2025

¹ - Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree

Work Order: HN2511207

Sample Name: 4009 SB01 (3-4)
Laboratory Code: HN2511207-001
Sample Matrix: SOIL/SOLID

Date Collected: 08/11/25
Date Received: 08/12/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2158252		3397197	Nicole Maleski
EPA 6020B	EPA 3050B	001-AC	2162039	Chloe Patrick	3405974	Stephanie Pierson
EPA 6020B	EPA 3050B	001-AC	2162039	Chloe Patrick	3410505	Stephanie Pierson
EPA 7471B	Method	001-AC	2159501	Maxx Richey	3402960	Maxx Richey
EPA 8081B	EPA 3546	001-AC	2173198	Sam Bruzan	3440418	Madison VandenBer
EPA 8082A	EPA 3546	001-AC	2173203	Rachel Plantinga	3425747	Nathaniel Dietlin
EPA 8151A	Method	001-AC	2177088	Sam Bruzan	3436396	Kathy Malmyga
EPA 8260D	EPA 5035A	001-AA	2155600	Jonathan Vazquez	3402980	John Garvale
EPA 8260D	EPA 5035A	001-AA	2155600	Jonathan Vazquez	3409777	Sean Bradfield
EPA 8270E	EPA 3546	001-AC	2180635	Rachel Plantinga	3442024	Erin Wall
EPA 9056A	EPA 9056A	001-AC	2158214	Quoc Nguyen	3403361	Quoc Nguyen

Sample Name: 4009 SB02 (5-6)
Laboratory Code: HN2511207-002
Sample Matrix: SOIL/SOLID

Date Collected: 08/11/25
Date Received: 08/12/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2158252		3397197	Nicole Maleski
EPA 6020B	EPA 3050B	002-AC	2162039	Chloe Patrick	3405974	Stephanie Pierson
EPA 6020B	EPA 3050B	002-AC	2162039	Chloe Patrick	3410505	Stephanie Pierson
EPA 7471B	Method	002-AC	2159501	Maxx Richey	3402960	Maxx Richey
EPA 8081B	EPA 3546	002-AC	2173198	Sam Bruzan	3440418	Madison VandenBer
EPA 8082A	EPA 3546	002-AC	2173203	Rachel Plantinga	3425747	Nathaniel Dietlin
EPA 8151A	Method	002-AC	2177088	Sam Bruzan	3436396	Kathy Malmyga
EPA 8260D	EPA 5035A	002-AA	2155600	Jonathan Vazquez	3402980	John Garvale
EPA 8260D	EPA 5035A	002-AA	2155600	Jonathan Vazquez	3409777	Sean Bradfield
EPA 8270E	EPA 3546	002-AC	2180635	Rachel Plantinga	3442024	Erin Wall
EPA 9056A	EPA 9056A	002-AC	2158214	Quoc Nguyen	3403361	Quoc Nguyen

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree

Work Order: HN2511207

Sample Name: 4009 SB03 (1-2)
Laboratory Code: HN2511207-003
Sample Matrix: SOIL/SOLID

Date Collected: 08/11/25
Date Received: 08/12/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AC	2158252		3397197	Nicole Maleski
EPA 6020B	EPA 3050B	003-AC	2162039	Chloe Patrick	3405974	Stephanie Pierson
EPA 6020B	EPA 3050B	003-AC	2162039	Chloe Patrick	3410505	Stephanie Pierson
EPA 7471B	Method	003-AC	2159501	Maxx Richey	3402960	Maxx Richey
EPA 8081B	EPA 3546	003-AC	2173198	Sam Bruzan	3440418	Madison VandenBer
EPA 8082A	EPA 3546	003-AC	2173203	Rachel Plantinga	3425747	Nathaniel Dietlin
EPA 8151A	Method	003-AC	2177088	Sam Bruzan	3436396	Kathy Malmyga
EPA 8260D	EPA 5035A	003-AA	2155600	Jonathan Vazquez	3402980	John Garvale
EPA 8260D	EPA 5035A	003-AA	2155600	Jonathan Vazquez	3409777	Sean Bradfield
EPA 8270E	EPA 3546	003-AC	2180635	Rachel Plantinga	3442024	Erin Wall
EPA 9056A	EPA 9056A	003-AC	2158214	Quoc Nguyen	3403361	Quoc Nguyen

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:40
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB01 (3-4) **Lab ID: HN2511207-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	10.9		%	0.1	1	08/13/25 00:00	NA
Chloride	EPA 9056A	55.7		mg/kg	11.2	1	08/14/25 15:53	08/13/25 16:10
Metals								
Arsenic	EPA 6020B	4.94		mg/kg	0.313	1	08/16/25 01:15	08/15/25 08:18
Barium	EPA 6020B	75.6		mg/kg	0.313	1	08/16/25 01:15	08/15/25 08:18
Cadmium	EPA 6020B	0.282		mg/kg	0.125	1	08/16/25 01:15	08/15/25 08:18
Chromium	EPA 6020B	12.1		mg/kg	3.13	10	08/18/25 16:24	08/15/25 08:18
Copper	EPA 6020B	18.7		mg/kg	3.13	10	08/18/25 16:24	08/15/25 08:18
Lead	EPA 6020B	68.9		mg/kg	0.313	1	08/16/25 01:15	08/15/25 08:18
Selenium	EPA 6020B	ND		mg/kg	0.313	1	08/16/25 01:15	08/15/25 08:18
Silver	EPA 6020B	ND		mg/kg	0.313	1	08/16/25 01:15	08/15/25 08:18
Zinc	EPA 6020B	87.0		mg/kg	6.26	10	08/18/25 16:24	08/15/25 08:18
Mercury	EPA 7471B	0.0902		mg/kg	0.0200	1	08/15/25 09:59	08/15/25 07:58
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
4,4'-DDE	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
4,4'-DDT	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
Aldrin	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
alpha-BHC	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
beta-BHC	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
Chlordane, Technical	EPA 8081B	ND		µg/kg	2750	100	08/27/25 00:12	08/21/25 13:43
cis-Chlordane	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
delta-BHC	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
Dieldrin	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
Endosulfan I	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
Endosulfan II	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
Endosulfan sulfate	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
Endrin	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
Endrin aldehyde	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
Endrin ketone	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
gamma-BHC (Lindane)	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:40
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB01 (3-4) **Lab ID: HN2511207-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Heptachlor	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
Heptachlor epoxide	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
Methoxychlor	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
Toxaphene	EPA 8081B	ND		µg/kg	6600	100	08/27/25 00:12	08/21/25 13:43
trans-Chlordane	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:12	08/21/25 13:43
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	110		%REC	53-151	100	08/27/25 00:12	08/21/25 13:43
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	50.0	S	%REC	67-127	100	08/27/25 00:12	08/21/25 13:43

Semivolatile Organic Compounds by GC								
Aroclor 1016	EPA 8082A	ND		µg/kg	73.3	1	08/22/25 01:30	08/21/25 11:57
Aroclor 1221	EPA 8082A	ND		µg/kg	73.3	1	08/22/25 01:30	08/21/25 11:57
Aroclor 1232	EPA 8082A	ND		µg/kg	73.3	1	08/22/25 01:30	08/21/25 11:57
Aroclor 1242	EPA 8082A	ND		µg/kg	73.3	1	08/22/25 01:30	08/21/25 11:57
Aroclor 1248	EPA 8082A	ND		µg/kg	73.3	1	08/22/25 01:30	08/21/25 11:57
Aroclor 1254	EPA 8082A	ND		µg/kg	73.3	1	08/22/25 01:30	08/21/25 11:57
Aroclor 1260	EPA 8082A	ND		µg/kg	73.3	1	08/22/25 01:30	08/21/25 11:57
Aroclor 1262	EPA 8082A	ND		µg/kg	73.3	1	08/22/25 01:30	08/21/25 11:57
Aroclor 1268	EPA 8082A	ND		µg/kg	73.3	1	08/22/25 01:30	08/21/25 11:57
Total PCB	EPA 8082A	ND		µg/kg	73.3	1	08/22/25 01:30	08/21/25 11:57
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	66.8		%REC	54-146	1	08/22/25 01:30	08/21/25 11:57
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	44.3	S	%REC	58-140	1	08/22/25 01:30	08/21/25 11:57
2,4,5-T	EPA 8151A	ND		µg/kg	5.47	1	08/26/25 20:20	08/25/25 16:58
2,4,5-TP (Silvex)	EPA 8151A	ND		µg/kg	5.47	1	08/26/25 20:20	08/25/25 16:58
2,4-D	EPA 8151A	ND		µg/kg	10.9	1	08/26/25 20:20	08/25/25 16:58
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	62.0		%REC	10-116	1	08/26/25 20:20	08/25/25 16:58

Semivolatile Organic Compounds by GC-MS								
1,1'-Biphenyl (BZ-0)	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
1,2,4,5-Tetrachlorobenzene	EPA 8270E	ND		µg/kg	1790	5	08/28/25 00:03	08/25/25 16:39
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	ND		µg/kg	897	5	08/28/25 00:03	08/25/25 16:39
1-Methylnaphthalene	EPA 8270E	68.2		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:40
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB01 (3-4)	Lab ID: HN2511207-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,3,4,6-Tetrachlorophenol	EPA 8270E	ND		µg/kg	359	5	08/28/25 00:03	08/25/25 16:39
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
2,4-Dichlorophenol	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
2,4-Dimethylphenol	EPA 8270E	ND	B	µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
2,4-Dinitrophenol	EPA 8270E	ND		µg/kg	1790	5	08/28/25 00:03	08/25/25 16:39
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
2-Chloronaphthalene	EPA 8270E	ND		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
2-Chlorophenol	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
2-Methylnaphthalene	EPA 8270E	61.0		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
2-Nitroaniline	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
2-Nitrophenol	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
3&4-Methylphenol	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
3,3'-Dichlorobenzidine	EPA 8270E	ND		µg/kg	897	5	08/28/25 00:03	08/25/25 16:39
3-Nitroaniline	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
4-Chloro-3-methylphenol	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
4-Chloroaniline	EPA 8270E	ND		µg/kg	359	5	08/28/25 00:03	08/25/25 16:39
4-Chlorophenyl phenylether	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
4-Nitroaniline	EPA 8270E	ND		µg/kg	897	5	08/28/25 00:03	08/25/25 16:39
4-Nitrophenol	EPA 8270E	ND		µg/kg	1790	5	08/28/25 00:03	08/25/25 16:39
Acenaphthene	EPA 8270E	ND		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
Acenaphthylene	EPA 8270E	ND		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
Acetophenone	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Anthracene	EPA 8270E	204		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
Atrazine	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Benzaldehyde	EPA 8270E	ND		µg/kg	359	5	08/28/25 00:03	08/25/25 16:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:40
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB01 (3-4)	Lab ID: HN2511207-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Benzo(a)anthracene	EPA 8270E	319		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
Benzo(a)pyrene	EPA 8270E	344		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
Benzo(b)fluoranthene	EPA 8270E	466		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
Benzo(g,h,i)perylene	EPA 8270E	308		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
Benzo(k)fluoranthene	EPA 8270E	147		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
bis(2-Chloroethoxy) methane	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
bis(2-Chloroethyl) ether	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Butyl benzyl phthalate	EPA 8270E	ND		µg/kg	359	5	08/28/25 00:03	08/25/25 16:39
Caprolactam	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Carbazole	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Chrysene	EPA 8270E	308		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	255		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Dibenz(a,h) anthracene	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Dibenzofuran	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Diethyl phthalate	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Dimethyl phthalate	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Di-n-butyl phthalate	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Di-n-octyl phthalate	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Fluoranthene	EPA 8270E	739		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
Fluorene	EPA 8270E	ND		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
Hexachlorobenzene	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Hexachlorobutadiene	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Hexachlorocyclopentadiene	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Hexachloroethane	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Indeno(1,2,3-cd) pyrene	EPA 8270E	283		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
Isophorone	EPA 8270E	ND		µg/kg	897	5	08/28/25 00:03	08/25/25 16:39
Methylphenol, Total	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Naphthalene	EPA 8270E	46.6		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
Nitrobenzene	EPA 8270E	ND		µg/kg	897	5	08/28/25 00:03	08/25/25 16:39
n-Nitrosodi-n-propylamine	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
N-Nitrosodiphenylamine	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:40
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB01 (3-4) **Lab ID: HN2511207-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Pentachlorophenol	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Phenanthrene	EPA 8270E	319		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
Phenol	EPA 8270E	ND		µg/kg	178	5	08/28/25 00:03	08/25/25 16:39
Pyrene	EPA 8270E	667		µg/kg	35.9	5	08/28/25 00:03	08/25/25 16:39
Pyridine	EPA 8270E	ND		µg/kg	897	5	08/28/25 00:03	08/25/25 16:39
Surr: 2,4,6-Tribromophenol	EPA 8270E	73.9		%REC	48-94	5	08/28/25 00:03	08/25/25 16:39
Surr: 2-Fluorobiphenyl	EPA 8270E	66.6		%REC	50-103	5	08/28/25 00:03	08/25/25 16:39
Surr: 2-Fluorophenol	EPA 8270E	49.5		%REC	43-105	5	08/28/25 00:03	08/25/25 16:39
Surr: 4-Terphenyl-d14	EPA 8270E	74.1		%REC	55-111	5	08/28/25 00:03	08/25/25 16:39
Surr: Nitrobenzene-d5	EPA 8270E	72.3		%REC	47-100	5	08/28/25 00:03	08/25/25 16:39
Surr: Phenol-d6	EPA 8270E	56.0		%REC	49-110	5	08/28/25 00:03	08/25/25 16:39

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	117	1	08/15/25 02:41	08/12/25 13:19
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	117	1	08/15/25 02:41	08/12/25 13:19
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	117	1	08/15/25 02:41	08/12/25 13:19
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	117	1	08/15/25 02:41	08/12/25 13:19
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	117	1	08/15/25 02:41	08/12/25 13:19
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	70.3	1	08/15/25 02:41	08/12/25 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:40
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB01 (3-4)	Lab ID: HN2511207-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	234	1	08/15/25 02:41	08/12/25 13:19
2-Hexanone	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Acetone	EPA 8260D	219		µg/kg	117	1	08/15/25 02:41	08/12/25 13:19
Benzene	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Bromochloromethane	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Bromodichloromethane	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Bromoform	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Carbon disulfide	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Carbon tetrachloride	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Chlorobenzene	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Chlorodibromomethane	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	117	1	08/15/25 02:41	08/12/25 13:19
Chloroform	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	70.3	1	08/15/25 02:41	08/12/25 13:19
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Cyclohexane	EPA 8260D	ND		µg/kg	117	1	08/15/25 02:41	08/12/25 13:19
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	117	1	08/15/25 02:41	08/12/25 13:19
Ethylbenzene	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Isopropylbenzene	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
m+p-Xylene	EPA 8260D	ND		µg/kg	70.3	1	08/15/25 02:41	08/12/25 13:19
Methyl acetate	EPA 8260D	ND		µg/kg	293	1	08/15/25 02:41	08/12/25 13:19
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	117	1	08/15/25 02:41	08/12/25 13:19
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	117	1	08/15/25 02:41	08/12/25 13:19
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Methylcyclohexane	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	293	1	08/15/25 02:41	08/12/25 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:40
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB01 (3-4) **Lab ID: HN2511207-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
o-Xylene	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Styrene	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Toluene	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Total Xylene	EPA 8260D	ND		µg/kg	106	1	08/15/25 02:41	08/12/25 13:19
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	35.2	1	08/15/25 02:41	08/12/25 13:19
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	95.7		%REC	80-120	1	08/15/25 02:41	08/12/25 13:19
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	99.4		%REC	80-120	1	08/15/25 02:41	08/12/25 13:19
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	88.2		%REC	80-120	1	08/15/25 02:41	08/12/25 13:19
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	106		%REC	80-120	1	08/15/25 02:41	08/12/25 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:45
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB02 (5-6) **Lab ID: HN2511207-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	12.2		%	0.1	1	08/13/25 00:00	NA
Chloride	EPA 9056A	70.0		mg/kg	11.3	1	08/14/25 16:01	08/13/25 16:10
Metals								
Arsenic	EPA 6020B	6.16		mg/kg	0.328	1	08/16/25 01:17	08/15/25 08:18
Barium	EPA 6020B	105		mg/kg	0.328	1	08/16/25 01:17	08/15/25 08:18
Cadmium	EPA 6020B	0.634		mg/kg	0.131	1	08/16/25 01:17	08/15/25 08:18
Chromium	EPA 6020B	17.0		mg/kg	3.28	10	08/18/25 16:25	08/15/25 08:18
Copper	EPA 6020B	38.0		mg/kg	3.28	10	08/18/25 16:25	08/15/25 08:18
Lead	EPA 6020B	166		mg/kg	3.28	10	08/18/25 16:25	08/15/25 08:18
Selenium	EPA 6020B	0.397		mg/kg	0.328	1	08/16/25 01:17	08/15/25 08:18
Silver	EPA 6020B	ND		mg/kg	0.328	1	08/16/25 01:17	08/15/25 08:18
Zinc	EPA 6020B	213		mg/kg	6.56	10	08/18/25 16:25	08/15/25 08:18
Mercury	EPA 7471B	0.265		mg/kg	0.0201	1	08/15/25 10:00	08/15/25 07:58
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
4,4'-DDE	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
4,4'-DDT	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
Aldrin	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
alpha-BHC	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
beta-BHC	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
Chlordane, Technical	EPA 8081B	ND		µg/kg	2740	100	08/27/25 00:26	08/21/25 13:43
cis-Chlordane	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
delta-BHC	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
Dieldrin	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
Endosulfan I	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
Endosulfan II	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
Endosulfan sulfate	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
Endrin	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
Endrin aldehyde	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
Endrin ketone	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
gamma-BHC (Lindane)	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:45
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB02 (5-6)	Lab ID: HN2511207-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Heptachlor	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
Heptachlor epoxide	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
Methoxychlor	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
Toxaphene	EPA 8081B	ND		µg/kg	6580	100	08/27/25 00:26	08/21/25 13:43
trans-Chlordane	EPA 8081B	ND		µg/kg	1100	100	08/27/25 00:26	08/21/25 13:43
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	105		%REC	53-151	100	08/27/25 00:26	08/21/25 13:43
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	50.0	S	%REC	67-127	100	08/27/25 00:26	08/21/25 13:43

Semivolatile Organic Compounds by GC

Aroclor 1016	EPA 8082A	ND		µg/kg	73.1	1	08/22/25 02:17	08/21/25 11:57
Aroclor 1221	EPA 8082A	ND		µg/kg	73.1	1	08/22/25 02:17	08/21/25 11:57
Aroclor 1232	EPA 8082A	ND		µg/kg	73.1	1	08/22/25 02:17	08/21/25 11:57
Aroclor 1242	EPA 8082A	ND		µg/kg	73.1	1	08/22/25 02:17	08/21/25 11:57
Aroclor 1248	EPA 8082A	ND		µg/kg	73.1	1	08/22/25 02:17	08/21/25 11:57
Aroclor 1254	EPA 8082A	ND		µg/kg	73.1	1	08/22/25 02:17	08/21/25 11:57
Aroclor 1260	EPA 8082A	ND		µg/kg	73.1	1	08/22/25 02:17	08/21/25 11:57
Aroclor 1262	EPA 8082A	ND		µg/kg	73.1	1	08/22/25 02:17	08/21/25 11:57
Aroclor 1268	EPA 8082A	ND		µg/kg	73.1	1	08/22/25 02:17	08/21/25 11:57
Total PCB	EPA 8082A	ND		µg/kg	73.1	1	08/22/25 02:17	08/21/25 11:57
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	64.7		%REC	54-146	1	08/22/25 02:17	08/21/25 11:57
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	42.8	S	%REC	58-140	1	08/22/25 02:17	08/21/25 11:57
2,4,5-T	EPA 8151A	ND		µg/kg	5.61	1	08/26/25 20:33	08/25/25 16:58
2,4,5-TP (Silvex)	EPA 8151A	ND		µg/kg	5.61	1	08/26/25 20:33	08/25/25 16:58
2,4-D	EPA 8151A	ND		µg/kg	11.2	1	08/26/25 20:33	08/25/25 16:58
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	60.0		%REC	10-116	1	08/26/25 20:33	08/25/25 16:58

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
1,2,4,5-Tetrachlorobenzene	EPA 8270E	ND		µg/kg	1800	5	08/28/25 00:24	08/25/25 16:39
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	ND		µg/kg	903	5	08/28/25 00:24	08/25/25 16:39
1-Methylnaphthalene	EPA 8270E	97.5		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:45
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB02 (5-6)	Lab ID: HN2511207-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,3,4,6-Tetrachlorophenol	EPA 8270E	ND		µg/kg	361	5	08/28/25 00:24	08/25/25 16:39
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
2,4-Dichlorophenol	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
2,4-Dimethylphenol	EPA 8270E	ND	B	µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
2,4-Dinitrophenol	EPA 8270E	ND		µg/kg	1800	5	08/28/25 00:24	08/25/25 16:39
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
2-Chloronaphthalene	EPA 8270E	ND		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
2-Chlorophenol	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
2-Methylnaphthalene	EPA 8270E	141		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
2-Nitroaniline	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
2-Nitrophenol	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
3&4-Methylphenol	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
3,3'-Dichlorobenzidine	EPA 8270E	ND		µg/kg	903	5	08/28/25 00:24	08/25/25 16:39
3-Nitroaniline	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
4-Chloro-3-methylphenol	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
4-Chloroaniline	EPA 8270E	ND		µg/kg	361	5	08/28/25 00:24	08/25/25 16:39
4-Chlorophenyl phenylether	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
4-Nitroaniline	EPA 8270E	ND		µg/kg	903	5	08/28/25 00:24	08/25/25 16:39
4-Nitrophenol	EPA 8270E	ND		µg/kg	1800	5	08/28/25 00:24	08/25/25 16:39
Acenaphthene	EPA 8270E	ND		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
Acenaphthylene	EPA 8270E	ND		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
Acetophenone	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Anthracene	EPA 8270E	242		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
Atrazine	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Benzaldehyde	EPA 8270E	ND		µg/kg	361	5	08/28/25 00:24	08/25/25 16:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:45
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB02 (5-6)	Lab ID: HN2511207-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Benzo(a)anthracene	EPA 8270E	372		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
Benzo(a)pyrene	EPA 8270E	412		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
Benzo(b)fluoranthene	EPA 8270E	513		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
Benzo(g,h,i)perylene	EPA 8270E	311		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
Benzo(k)fluoranthene	EPA 8270E	173		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
bis(2-Chloroethoxy) methane	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
bis(2-Chloroethyl) ether	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Butyl benzyl phthalate	EPA 8270E	ND		µg/kg	361	5	08/28/25 00:24	08/25/25 16:39
Caprolactam	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Carbazole	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Chrysene	EPA 8270E	339		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	253		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Dibenz(a,h) anthracene	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Dibenzofuran	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Diethyl phthalate	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Dimethyl phthalate	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Di-n-butyl phthalate	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Di-n-octyl phthalate	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Fluoranthene	EPA 8270E	892		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
Fluorene	EPA 8270E	ND		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
Hexachlorobenzene	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Hexachlorobutadiene	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Hexachlorocyclopentadiene	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Hexachloroethane	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Indeno(1,2,3-cd) pyrene	EPA 8270E	354		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
Isophorone	EPA 8270E	ND		µg/kg	903	5	08/28/25 00:24	08/25/25 16:39
Methylphenol, Total	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Naphthalene	EPA 8270E	61.4		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
Nitrobenzene	EPA 8270E	ND		µg/kg	903	5	08/28/25 00:24	08/25/25 16:39
n-Nitrosodi-n-propylamine	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
N-Nitrosodiphenylamine	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:45
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB02 (5-6) **Lab ID: HN2511207-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Pentachlorophenol	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Phenanthrene	EPA 8270E	455		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
Phenol	EPA 8270E	ND		µg/kg	179	5	08/28/25 00:24	08/25/25 16:39
Pyrene	EPA 8270E	780		µg/kg	36.1	5	08/28/25 00:24	08/25/25 16:39
Pyridine	EPA 8270E	ND		µg/kg	903	5	08/28/25 00:24	08/25/25 16:39
Surr: 2,4,6-Tribromophenol	EPA 8270E	82.8		%REC	48-94	5	08/28/25 00:24	08/25/25 16:39
Surr: 2-Fluorobiphenyl	EPA 8270E	72.7		%REC	50-103	5	08/28/25 00:24	08/25/25 16:39
Surr: 2-Fluorophenol	EPA 8270E	55.4		%REC	43-105	5	08/28/25 00:24	08/25/25 16:39
Surr: 4-Terphenyl-d14	EPA 8270E	75.4		%REC	55-111	5	08/28/25 00:24	08/25/25 16:39
Surr: Nitrobenzene-d5	EPA 8270E	82.2		%REC	47-100	5	08/28/25 00:24	08/25/25 16:39
Surr: Phenol-d6	EPA 8270E	61.4		%REC	49-110	5	08/28/25 00:24	08/25/25 16:39

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	118	1	08/15/25 02:57	08/12/25 13:19
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	118	1	08/15/25 02:57	08/12/25 13:19
1,2,4-Trimethylbenzene	EPA 8260D	84.2		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	118	1	08/15/25 02:57	08/12/25 13:19
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	118	1	08/15/25 02:57	08/12/25 13:19
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	118	1	08/15/25 02:57	08/12/25 13:19
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	70.7	1	08/15/25 02:57	08/12/25 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:45
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB02 (5-6)	Lab ID: HN2511207-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	236	1	08/15/25 02:57	08/12/25 13:19
2-Hexanone	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Acetone	EPA 8260D	1910		µg/kg	118	1	08/15/25 02:57	08/12/25 13:19
Benzene	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Bromochloromethane	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Bromodichloromethane	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Bromoform	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Carbon disulfide	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Carbon tetrachloride	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Chlorobenzene	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Chlorodibromomethane	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	118	1	08/15/25 02:57	08/12/25 13:19
Chloroform	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	70.7	1	08/15/25 02:57	08/12/25 13:19
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Cyclohexane	EPA 8260D	ND		µg/kg	118	1	08/15/25 02:57	08/12/25 13:19
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	118	1	08/15/25 02:57	08/12/25 13:19
Ethylbenzene	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Isopropylbenzene	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
m+p-Xylene	EPA 8260D	ND		µg/kg	70.7	1	08/15/25 02:57	08/12/25 13:19
Methyl acetate	EPA 8260D	ND		µg/kg	294	1	08/15/25 02:57	08/12/25 13:19
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	118	1	08/15/25 02:57	08/12/25 13:19
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	118	1	08/15/25 02:57	08/12/25 13:19
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Methylcyclohexane	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	294	1	08/15/25 02:57	08/12/25 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:45
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB02 (5-6) **Lab ID: HN2511207-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
o-Xylene	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Styrene	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Toluene	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Total Xylene	EPA 8260D	ND		µg/kg	106	1	08/15/25 02:57	08/12/25 13:19
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	35.3	1	08/15/25 02:57	08/12/25 13:19
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	96.3		%REC	80-120	1	08/15/25 02:57	08/12/25 13:19
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	95.8		%REC	80-120	1	08/15/25 02:57	08/12/25 13:19
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	81.6		%REC	80-120	1	08/15/25 02:57	08/12/25 13:19
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	105		%REC	80-120	1	08/15/25 02:57	08/12/25 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:50
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB03 (1-2) **Lab ID: HN2511207-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	8.6		%	0.1	1	08/13/25 00:00	NA
Chloride	EPA 9056A	46.0		mg/kg	11.0	1	08/14/25 16:09	08/13/25 16:10
Metals								
Arsenic	EPA 6020B	4.96		mg/kg	0.326	1	08/16/25 01:19	08/15/25 08:18
Barium	EPA 6020B	76.7		mg/kg	0.326	1	08/16/25 01:19	08/15/25 08:18
Cadmium	EPA 6020B	0.307		mg/kg	0.130	1	08/16/25 01:19	08/15/25 08:18
Chromium	EPA 6020B	15.1		mg/kg	3.26	10	08/18/25 16:27	08/15/25 08:18
Copper	EPA 6020B	23.1		mg/kg	3.26	10	08/18/25 16:27	08/15/25 08:18
Lead	EPA 6020B	59.1		mg/kg	0.326	1	08/16/25 01:19	08/15/25 08:18
Selenium	EPA 6020B	ND		mg/kg	0.326	1	08/16/25 01:19	08/15/25 08:18
Silver	EPA 6020B	ND		mg/kg	3.26	10	08/18/25 16:27	08/15/25 08:18
Zinc	EPA 6020B	85.4		mg/kg	6.52	10	08/18/25 16:27	08/15/25 08:18
Mercury	EPA 7471B	0.0416		mg/kg	0.0205	1	08/15/25 10:03	08/15/25 07:58
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
4,4'-DDE	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
4,4'-DDT	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
Aldrin	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
alpha-BHC	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
beta-BHC	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
Chlordane, Technical	EPA 8081B	ND		µg/kg	2650	100	08/27/25 00:41	08/21/25 13:43
cis-Chlordane	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
delta-BHC	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
Dieldrin	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
Endosulfan I	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
Endosulfan II	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
Endosulfan sulfate	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
Endrin	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
Endrin aldehyde	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
Endrin ketone	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
gamma-BHC (Lindane)	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:50
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB03 (1-2) **Lab ID: HN2511207-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Heptachlor	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
Heptachlor epoxide	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
Methoxychlor	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
Toxaphene	EPA 8081B	ND		µg/kg	6360	100	08/27/25 00:41	08/21/25 13:43
trans-Chlordane	EPA 8081B	ND		µg/kg	1060	100	08/27/25 00:41	08/21/25 13:43
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	150		%REC	53-151	100	08/27/25 00:41	08/21/25 13:43
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	70.0		%REC	67-127	100	08/27/25 00:41	08/21/25 13:43

Semivolatile Organic Compounds by GC								
Aroclor 1016	EPA 8082A	ND		µg/kg	70.6	1	08/22/25 02:29	08/21/25 11:57
Aroclor 1221	EPA 8082A	ND		µg/kg	70.6	1	08/22/25 02:29	08/21/25 11:57
Aroclor 1232	EPA 8082A	ND		µg/kg	70.6	1	08/22/25 02:29	08/21/25 11:57
Aroclor 1242	EPA 8082A	ND		µg/kg	70.6	1	08/22/25 02:29	08/21/25 11:57
Aroclor 1248	EPA 8082A	ND		µg/kg	70.6	1	08/22/25 02:29	08/21/25 11:57
Aroclor 1254	EPA 8082A	ND		µg/kg	70.6	1	08/22/25 02:29	08/21/25 11:57
Aroclor 1260	EPA 8082A	ND		µg/kg	70.6	1	08/22/25 02:29	08/21/25 11:57
Aroclor 1262	EPA 8082A	ND		µg/kg	70.6	1	08/22/25 02:29	08/21/25 11:57
Aroclor 1268	EPA 8082A	ND		µg/kg	70.6	1	08/22/25 02:29	08/21/25 11:57
Total PCB	EPA 8082A	ND		µg/kg	70.6	1	08/22/25 02:29	08/21/25 11:57
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	97.0		%REC	54-146	1	08/22/25 02:29	08/21/25 11:57
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	63.2		%REC	58-140	1	08/22/25 02:29	08/21/25 11:57
2,4,5-T	EPA 8151A	ND		µg/kg	5.41	1	08/26/25 20:46	08/25/25 16:58
2,4,5-TP (Silvex)	EPA 8151A	ND		µg/kg	5.41	1	08/26/25 20:46	08/25/25 16:58
2,4-D	EPA 8151A	ND		µg/kg	10.8	1	08/26/25 20:46	08/25/25 16:58
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	48.0		%REC	10-116	1	08/26/25 20:46	08/25/25 16:58

Semivolatile Organic Compounds by GC-MS								
1,1'-Biphenyl (BZ-0)	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
1,2,4,5-Tetrachlorobenzene	EPA 8270E	ND		µg/kg	1760	5	08/28/25 00:45	08/25/25 16:39
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	ND		µg/kg	880	5	08/28/25 00:45	08/25/25 16:39
1-Methylnaphthalene	EPA 8270E	ND		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:50
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB03 (1-2)	Lab ID: HN2511207-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,3,4,6-Tetrachlorophenol	EPA 8270E	ND		µg/kg	352	5	08/28/25 00:45	08/25/25 16:39
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
2,4-Dichlorophenol	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
2,4-Dimethylphenol	EPA 8270E	ND	B	µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
2,4-Dinitrophenol	EPA 8270E	ND		µg/kg	1760	5	08/28/25 00:45	08/25/25 16:39
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
2-Chloronaphthalene	EPA 8270E	ND		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
2-Chlorophenol	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
2-Methylnaphthalene	EPA 8270E	ND		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
2-Nitroaniline	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
2-Nitrophenol	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
3&4-Methylphenol	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
3,3'-Dichlorobenzidine	EPA 8270E	ND		µg/kg	880	5	08/28/25 00:45	08/25/25 16:39
3-Nitroaniline	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
4-Chloro-3-methylphenol	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
4-Chloroaniline	EPA 8270E	ND		µg/kg	352	5	08/28/25 00:45	08/25/25 16:39
4-Chlorophenyl phenylether	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
4-Nitroaniline	EPA 8270E	ND		µg/kg	880	5	08/28/25 00:45	08/25/25 16:39
4-Nitrophenol	EPA 8270E	ND		µg/kg	1760	5	08/28/25 00:45	08/25/25 16:39
Acenaphthene	EPA 8270E	ND		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
Acenaphthylene	EPA 8270E	ND		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
Acetophenone	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Anthracene	EPA 8270E	113		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
Atrazine	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Benzaldehyde	EPA 8270E	ND		µg/kg	352	5	08/28/25 00:45	08/25/25 16:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:50
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB03 (1-2)	Lab ID: HN2511207-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Benzo(a)anthracene	EPA 8270E	165		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
Benzo(a)pyrene	EPA 8270E	208		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
Benzo(b)fluoranthene	EPA 8270E	274		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
Benzo(g,h,i)perylene	EPA 8270E	172		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
Benzo(k)fluoranthene	EPA 8270E	102		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
bis(2-Chloroethoxy) methane	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
bis(2-Chloroethyl) ether	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Butyl benzyl phthalate	EPA 8270E	ND		µg/kg	352	5	08/28/25 00:45	08/25/25 16:39
Caprolactam	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Carbazole	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Chrysene	EPA 8270E	190		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Dibenz(a,h) anthracene	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Dibenzofuran	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Diethyl phthalate	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Dimethyl phthalate	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Di-n-butyl phthalate	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Di-n-octyl phthalate	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Fluoranthene	EPA 8270E	380		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
Fluorene	EPA 8270E	ND		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
Hexachlorobenzene	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Hexachlorobutadiene	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Hexachlorocyclopentadiene	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Hexachloroethane	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Indeno(1,2,3-cd) pyrene	EPA 8270E	151		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
Isophorone	EPA 8270E	ND		µg/kg	880	5	08/28/25 00:45	08/25/25 16:39
Methylphenol, Total	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Naphthalene	EPA 8270E	38.7		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
Nitrobenzene	EPA 8270E	ND		µg/kg	880	5	08/28/25 00:45	08/25/25 16:39
n-Nitrosodi-n-propylamine	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
N-Nitrosodiphenylamine	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:50
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB03 (1-2) **Lab ID: HN2511207-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Pentachlorophenol	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Phenanthrene	EPA 8270E	127		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
Phenol	EPA 8270E	ND		µg/kg	174	5	08/28/25 00:45	08/25/25 16:39
Pyrene	EPA 8270E	348		µg/kg	35.2	5	08/28/25 00:45	08/25/25 16:39
Pyridine	EPA 8270E	ND		µg/kg	880	5	08/28/25 00:45	08/25/25 16:39
Surr: 2,4,6-Tribromophenol	EPA 8270E	70.9		%REC	48-94	5	08/28/25 00:45	08/25/25 16:39
Surr: 2-Fluorobiphenyl	EPA 8270E	73.7		%REC	50-103	5	08/28/25 00:45	08/25/25 16:39
Surr: 2-Fluorophenol	EPA 8270E	54.7		%REC	43-105	5	08/28/25 00:45	08/25/25 16:39
Surr: 4-Terphenyl-d14	EPA 8270E	78.5		%REC	55-111	5	08/28/25 00:45	08/25/25 16:39
Surr: Nitrobenzene-d5	EPA 8270E	77.9		%REC	47-100	5	08/28/25 00:45	08/25/25 16:39
Surr: Phenol-d6	EPA 8270E	61.9		%REC	49-110	5	08/28/25 00:45	08/25/25 16:39

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	117	1	08/15/25 03:13	08/12/25 13:19
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	117	1	08/15/25 03:13	08/12/25 13:19
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	117	1	08/15/25 03:13	08/12/25 13:19
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	117	1	08/15/25 03:13	08/12/25 13:19
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	117	1	08/15/25 03:13	08/12/25 13:19
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	70.2	1	08/15/25 03:13	08/12/25 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:50
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB03 (1-2) **Lab ID: HN2511207-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	234	1	08/15/25 03:13	08/12/25 13:19
2-Hexanone	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Acetone	EPA 8260D	ND		µg/kg	117	1	08/15/25 03:13	08/12/25 13:19
Benzene	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Bromochloromethane	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Bromodichloromethane	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Bromoform	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Carbon disulfide	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Carbon tetrachloride	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Chlorobenzene	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Chlorodibromomethane	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	117	1	08/15/25 03:13	08/12/25 13:19
Chloroform	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	70.2	1	08/15/25 03:13	08/12/25 13:19
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Cyclohexane	EPA 8260D	ND		µg/kg	117	1	08/15/25 03:13	08/12/25 13:19
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	117	1	08/15/25 03:13	08/12/25 13:19
Ethylbenzene	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Isopropylbenzene	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
m+p-Xylene	EPA 8260D	ND		µg/kg	70.2	1	08/15/25 03:13	08/12/25 13:19
Methyl acetate	EPA 8260D	ND		µg/kg	292	1	08/15/25 03:13	08/12/25 13:19
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	117	1	08/15/25 03:13	08/12/25 13:19
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	117	1	08/15/25 03:13	08/12/25 13:19
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Methylcyclohexane	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	292	1	08/15/25 03:13	08/12/25 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2511207
Date Collected: 08/11/25 10:50
Date Received: 08/12/25 08:00

CLIENT ID: 4009 SB03 (1-2) **Lab ID: HN2511207-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
o-Xylene	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Styrene	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Toluene	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Total Xylene	EPA 8260D	ND		µg/kg	105	1	08/15/25 03:13	08/12/25 13:19
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	35.1	1	08/15/25 03:13	08/12/25 13:19
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	99.0		%REC	80-120	1	08/15/25 03:13	08/12/25 13:19
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	90.4		%REC	80-120	1	08/15/25 03:13	08/12/25 13:19
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	93.4		%REC	80-120	1	08/15/25 03:13	08/12/25 13:19
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	103		%REC	80-120	1	08/15/25 03:13	08/12/25 13:19



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2158214

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3403361

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2158214-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/14/25 13:19
Prep Date: 08/13/25 16:11

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	ND	mg/kg	10.0							

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2158214-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/14/25 13:27
Prep Date: 08/13/25 16:11

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	99.2	mg/kg	10.0	100		99.2	87-110			

The following samples were analyzed in this batch: HN2511207-001, HN2511207-002, HN2511207-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2158252

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3397197

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2158252-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/13/25 00:00
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	ND	%	0.1							

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2158252-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/13/25 00:00
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	100	%	0.1	100		100.0	98-102			

DUP	CLIENT ID: 4009 SB01 (3-4)	Lab ID: QC-2158252-004
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/13/25 00:00
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	10.5	%	0.1		10.9			3.93	10	

The following samples were analyzed in this batch: HN2511207-001, HN2511207-002, HN2511207-003



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2159501

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3402960

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2159501-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/15/25 09:34
Prep Date: 08/15/25 07:59

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	ND	mg/kg	0.0200							

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2159501-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/15/25 09:36
Prep Date: 08/15/25 07:59

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.170	mg/kg	0.0200	0.1665		102	80-120			

The following samples were analyzed in this batch: HN2511207-001, HN2511207-002, HN2511207-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2162039

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3405974

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2162039-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 08/16/25 00:57
Prep Date: 08/15/25 08:19

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	ND	mg/kg	0.250							
Barium	ND	mg/kg	0.250							
Cadmium	ND	mg/kg	0.100							
Chromium	ND	mg/kg	0.250							
Copper	ND	mg/kg	0.250							
Lead	ND	mg/kg	0.250							
Selenium	ND	mg/kg	0.250							
Silver	ND	mg/kg	0.250							
Zinc	ND	mg/kg	0.500							

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2162039-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 08/16/25 00:59
Prep Date: 08/15/25 08:19

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.71	mg/kg	0.250	5		94.1	80-120			
Barium	4.47	mg/kg	0.250	5		89.4	80-120			
Cadmium	4.87	mg/kg	0.100	5		97.3	80-120			
Chromium	4.66	mg/kg	0.250	5		93.3	80-120			
Copper	4.73	mg/kg	0.250	5		94.6	80-120			
Lead	4.74	mg/kg	0.250	5		94.9	80-120			
Selenium	4.75	mg/kg	0.250	5		94.9	80-120			
Silver	4.74	mg/kg	0.250	5		94.7	80-120			
Zinc	4.64	mg/kg	0.500	5		92.8	80-120			

The following samples were analyzed in this batch: HN2511207-001, HN2511207-002, HN2511207-003



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2173198

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3433721

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2173198-001
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 08/22/25 22:19**Prep Date:** 08/21/25 13:44

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	ND	µg/kg	10.0							
4,4'-DDE	ND	µg/kg	10.0							
4,4'-DDT	ND	µg/kg	10.0							
Aldrin	ND	µg/kg	10.0							
alpha-BHC	ND	µg/kg	10.0							
beta-BHC	ND	µg/kg	10.0							
Chlordane, Technical	ND	µg/kg	25.0							
cis-Chlordane	ND	µg/kg	10.0							
delta-BHC	ND	µg/kg	10.0							
Dieldrin	ND	µg/kg	10.0							
Endosulfan I	ND	µg/kg	10.0							
Endosulfan II	ND	µg/kg	10.0							
Endosulfan sulfate	ND	µg/kg	10.0							
Endrin	ND	µg/kg	10.0							
Endrin aldehyde	ND	µg/kg	10.0							
Endrin ketone	ND	µg/kg	10.0							
gamma-BHC (Lindane)	ND	µg/kg	10.0							
Heptachlor	ND	µg/kg	10.0							
Heptachlor epoxide	ND	µg/kg	10.0							
Methoxychlor	ND	µg/kg	10.0							
Toxaphene	ND	µg/kg	60.0							
trans-Chlordane	ND	µg/kg	10.0							
Surr: Decachlorobiphenyl	42.0	µg/kg		33.33		126	53-151			
Surr: Tetrachloro-m-xylene	34.6	µg/kg		33.33		104	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2173198-002
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 08/22/25 22:49**Prep Date:** 08/21/25 13:44

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	38.0	µg/kg	10.0	33.33		114	55-141			
4,4'-DDE	36.9	µg/kg	10.0	33.33		111	55-143			
4,4'-DDT	40.0	µg/kg	10.0	33.33		120	50-144			
Aldrin	37.4	µg/kg	10.0	33.33		112	57-141			
alpha-BHC	37.6	µg/kg	10.0	33.33		113	58-144			
beta-BHC	36.4	µg/kg	10.0	33.33		109	55-147			
cis-Chlordane	37.2	µg/kg	10.0	33.33		112	58-142			
delta-BHC	37.5	µg/kg	10.0	33.33		112	59-142			
Dieldrin	37.8	µg/kg	10.0	33.33		113	59-142			
Endosulfan I	37.8	µg/kg	10.0	33.33		113	57-145			
Endosulfan II	38.5	µg/kg	10.0	33.33		115	58-138			
Endosulfan sulfate	37.4	µg/kg	10.0	33.33		112	54-136			
Endrin	38.8	µg/kg	10.0	33.33		116	45-150			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2173198

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3433721

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2173198-002			
Method: EPA 8081B		Dilution: 1		Analysis Date: 08/22/25 22:49		Prep Date: 08/21/25 13:44			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Endrin aldehyde	43.8	µg/kg	10.0	33.33		132	41-147		
Endrin ketone	38.2	µg/kg	10.0	33.33		114	54-146		
gamma-BHC (Lindane)	36.7	µg/kg	10.0	33.33		110	58-145		
Heptachlor	38.5	µg/kg	10.0	33.33		116	51-145		
Heptachlor epoxide	37.6	µg/kg	10.0	33.33		113	59-143		
Methoxychlor	37.2	µg/kg	10.0	33.33		112	43-144		
trans-Chlordane	37.4	µg/kg	10.0	33.33		112	56-145		
Surr: Decachlorobiphenyl	41.8	µg/kg		33.33		126	51-151		
Surr: Tetrachloro-m-xylene	35.0	µg/kg		33.33		105	67-127		

The following samples were analyzed in this batch: HN2511207-001, HN2511207-002, HN2511207-003



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2173203

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3425747

Semivolatile Organic Compounds by GC

MB **CLIENT ID: Method Blank** **Lab ID: QC-2173203-001**

Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 08/21/25 23:56
Prep Date: 08/21/25 11:58

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	ND	µg/kg	66.7							
Aroclor 1221	ND	µg/kg	66.7							
Aroclor 1232	ND	µg/kg	66.7							
Aroclor 1242	ND	µg/kg	66.7							
Aroclor 1248	ND	µg/kg	66.7							
Aroclor 1254	ND	µg/kg	66.7							
Aroclor 1260	ND	µg/kg	66.7							
Aroclor 1262	ND	µg/kg	66.7							
Aroclor 1268	ND	µg/kg	66.7							
Total PCB	ND	µg/kg	66.7							
Surr: Decachlorobiphenyl	40.3	µg/kg		33.3		121	54-146			
Surr: Tetrachloro-m-xylene	35.0	µg/kg		33.3		105	58-140			

LCS **CLIENT ID: Laboratory Control Sample** **Lab ID: QC-2173203-002**

Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 08/22/25 00:07
Prep Date: 08/21/25 11:58

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	717	µg/kg	66.7	833		86.0	71-135			
Aroclor 1260	682	µg/kg	66.7	833		81.9	67-135			
Surr: Decachlorobiphenyl	31.5	µg/kg		33.3		94.5	54-146			
Surr: Tetrachloro-m-xylene	27.5	µg/kg		33.3		82.5	58-140			

MS **CLIENT ID: 4009 SB03 (1-2)** **Lab ID: QC-2173203-005**

Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 08/22/25 00:31
Prep Date: 08/21/25 11:58

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	676	µg/kg	71.4	815.53	ND	82.9	71-135			
Aroclor 1260	668	µg/kg	71.4	815.53	ND	81.9	67-135			
Surr: Decachlorobiphenyl	35.0	µg/kg		32.602		107	54-146			
Surr: Tetrachloro-m-xylene	22.0	µg/kg		32.602		67.6	58-140			

MSD **CLIENT ID: 4009 SB03 (1-2)** **Lab ID: QC-2173203-006**

Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 08/22/25 00:43
Prep Date: 08/21/25 11:58

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	602	µg/kg	71.0	811.6	ND	74.2	71-135	11.5	20	
Aroclor 1260	589	µg/kg	71.0	811.6	ND	72.6	67-135	12.5	20	
Surr: Decachlorobiphenyl	33.5	µg/kg		32.445		103	54-146	4.33	30	
Surr: Tetrachloro-m-xylene	20.4	µg/kg		32.445		62.8	58-140	7.86	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2173203

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3425747

The following samples were analyzed in this batch: HN2511207-001, HN2511207-002, HN2511207-003



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2177088

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3436396

Semivolatile Organic Compounds by GC

MB	CLIENT ID: Method Blank	Lab ID: QC-2177088-001
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Method: EPA 8151A

Dilution: 1

Analysis Date: 08/26/25 18:53

Prep Date: 08/25/25 16:58

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	ND	µg/kg	5.00							
2,4,5-TP (Silvex)	ND	µg/kg	5.00							
2,4-D	ND	µg/kg	10.0							
Surr: DCAA	30.0	µg/kg		50		60.0	10-116			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2177088-002
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Method: EPA 8151A

Dilution: 1

Analysis Date: 08/26/25 19:06

Prep Date: 08/25/25 16:58

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	31.0	µg/kg	5.00	50		62.0	10-119			
2,4,5-TP (Silvex)	31.0	µg/kg	5.00	50		62.0	10-101			
2,4-D	33.0	µg/kg	10.0	50		66.0	10-128			
Surr: DCAA	36.0	µg/kg		50		72.0	10-116			

The following samples were analyzed in this batch: HN2511207-001, HN2511207-002, HN2511207-003



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2180635

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3442024

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2180635-001
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 08/27/25 20:14**Prep Date:** 08/25/25 16:40

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	ND	µg/kg	33.0							
1,2,4,5-Tetrachlorobenzene	ND	µg/kg	333							
1,4-Dioxane (1,4- Diethyleneoxide)	ND	µg/kg	167							
1-Methylnaphthalene	ND	µg/kg	6.67							
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	ND	µg/kg	33.0							
2,3,4,6-Tetrachlorophenol	ND	µg/kg	67.0							
2,4,5-Trichlorophenol	ND	µg/kg	33.0							
2,4,6-Trichlorophenol	ND	µg/kg	33.0							
2,4-Dichlorophenol	ND	µg/kg	33.0							
2,4-Dimethylphenol	46.7	µg/kg	33.0							B
2,4-Dinitrophenol	ND	µg/kg	333							
2,4-Dinitrotoluene (2,4-DNT)	ND	µg/kg	33.0							
2,6-Dinitrotoluene (2,6-DNT)	ND	µg/kg	33.0							
2-Chloronaphthalene	ND	µg/kg	6.67							
2-Chlorophenol	ND	µg/kg	33.0							
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	ND	µg/kg	33.0							
2-Methylnaphthalene	ND	µg/kg	6.67							
2-Methylphenol (o-Cresol)	ND	µg/kg	33.0							
2-Nitroaniline	ND	µg/kg	33.0							
2-Nitrophenol	ND	µg/kg	33.0							
3&4-Methylphenol	ND	µg/kg	33.0							
3,3'-Dichlorobenzidine	ND	µg/kg	167							
3-Nitroaniline	ND	µg/kg	33.0							
4-Bromophenyl phenyl ether (BDE-3)	ND	µg/kg	33.0							
4-Chloro-3-methylphenol	ND	µg/kg	33.0							
4-Chloroaniline	ND	µg/kg	67.0							
4-Chlorophenyl phenylether	ND	µg/kg	33.0							
4-Nitroaniline	ND	µg/kg	167							
4-Nitrophenol	ND	µg/kg	333							
Acenaphthene	ND	µg/kg	6.67							
Acenaphthylene	ND	µg/kg	6.67							
Acetophenone	ND	µg/kg	33.0							
Anthracene	ND	µg/kg	6.67							
Atrazine	ND	µg/kg	33.0							
Benzaldehyde	ND	µg/kg	67.0							
Benzo(a)anthracene	ND	µg/kg	6.67							
Benzo(a)pyrene	ND	µg/kg	6.67							
Benzo(b)fluoranthene	ND	µg/kg	6.67							
Benzo(g,h,i)perylene	ND	µg/kg	6.67							
Benzo(k)fluoranthene	ND	µg/kg	6.67							
bis(2-Chloroethoxy)methane	ND	µg/kg	33.0							
bis(2-Chloroethyl) ether	ND	µg/kg	33.0							

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2180635

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3442024

MB	CLIENT ID: Method Blank	Lab ID: QC-2180635-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 08/27/25 20:14

Prep Date: 08/25/25 16:40

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Butyl benzyl phthalate	ND	µg/kg	67.0							
Caprolactam	ND	µg/kg	33.0							
Carbazole	ND	µg/kg	33.0							
Chrysene	ND	µg/kg	6.67							
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	ND	µg/kg	33.0							
Dibenz(a,h) anthracene	ND	µg/kg	33.0							
Dibenzofuran	ND	µg/kg	33.0							
Diethyl phthalate	ND	µg/kg	33.0							
Dimethyl phthalate	ND	µg/kg	33.0							
Di-n-butyl phthalate	ND	µg/kg	33.0							
Di-n-octyl phthalate	ND	µg/kg	33.0							
Fluoranthene	ND	µg/kg	6.67							
Fluorene	ND	µg/kg	6.67							
Hexachlorobenzene	ND	µg/kg	33.0							
Hexachlorobutadiene	ND	µg/kg	33.0							
Hexachlorocyclopentadiene	ND	µg/kg	33.0							
Hexachloroethane	ND	µg/kg	33.0							
Indeno(1,2,3-cd) pyrene	ND	µg/kg	6.67							
Isophorone	ND	µg/kg	167							
Methylphenol, Total	ND	µg/kg	67.0							
Naphthalene	ND	µg/kg	6.67							
Nitrobenzene	ND	µg/kg	167							
n-Nitrosodi-n-propylamine	ND	µg/kg	33.0							
N-Nitrosodiphenylamine	ND	µg/kg	33.0							
Pentachlorophenol	ND	µg/kg	33.0							
Phenanthrene	ND	µg/kg	6.67							
Phenol	ND	µg/kg	33.0							
Pyrene	ND	µg/kg	6.67							
Pyridine	ND	µg/kg	167							
Surr: 2,4,6-Tribromophenol	3060	µg/kg		3333		91.9	48-94			
Surr: 2-Fluorobiphenyl	2560	µg/kg		3333		77.0	50-103			
Surr: 2-Fluorophenol	2610	µg/kg		3333		78.3	43-105			
Surr: 4-Terphenyl-d14	3100	µg/kg		3333		93.0	55-111			
Surr: Nitrobenzene-d5	2580	µg/kg		3333		77.5	47-100			
Surr: Phenol-d6	2670	µg/kg		3333		80.1	49-110			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2180635-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 08/27/25 21:58

Prep Date: 08/25/25 16:40

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1040	µg/kg	33.0	1333		78.2	57-101			
1,2,4,5-Tetrachlorobenzene	1120	µg/kg	33.0	1333		83.8	54-98			
1-Methylnaphthalene	1070	µg/kg	6.67	1333		80.0	56-100			



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2180635

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3442024

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2180635-002			
Method: EPA 8270E		Dilution: 1		Analysis Date: 08/27/25 21:58		Prep Date: 08/25/25 16:40			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	927	µg/kg	33.0	1333		69.6	50-101		
2,3,4,6-Tetrachlorophenol	1080	µg/kg	67.0	1333		81.4	48-103		
2,4,5-Trichlorophenol	1050	µg/kg	33.0	1333		79.0	54-98		
2,4,6-Trichlorophenol	1060	µg/kg	33.0	1333		79.9	56-97		
2,4-Dichlorophenol	1050	µg/kg	33.0	1333		79.0	54-99		
2,4-Dimethylphenol	1040	µg/kg	33.0	1333		77.7	47-102		
2,4-Dinitrophenol	851	µg/kg	333	1333		63.9	10-100		
2,4-Dinitrotoluene (2,4-DNT)	1190	µg/kg	33.0	1333		89.5	62-105		
2,6-Dinitrotoluene (2,6-DNT)	1210	µg/kg	33.0	1333		90.6	62-103		
2-Chloronaphthalene	1060	µg/kg	6.67	1333		79.5	57-101		
2-Chlorophenol	1050	µg/kg	33.0	1333		79.0	52-102		
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	1250	µg/kg	33.0	1333		94.0	42-104		
2-Methylnaphthalene	1030	µg/kg	6.67	1333		77.6	55-102		
2-Methylphenol (o-Cresol)	1020	µg/kg	33.0	1333		76.5	54-103		
2-Nitroaniline	1260	µg/kg	33.0	1333		94.8	57-103		
2-Nitrophenol	1360	µg/kg	33.0	1333		102	52-102		
3&4-Methylphenol	1050	µg/kg	33.0	1333		78.8	56-103		
3,3'-Dichlorobenzidine	868	µg/kg	167	1333		65.1	41-91		
3-Nitroaniline	651	µg/kg	33.0	1333		48.9	35-107		
4-Bromophenyl phenyl ether (BDE-3)	1170	µg/kg	33.0	1333		87.9	63-104		
4-Chloro-3-methylphenol	1080	µg/kg	33.0	1333		81.0	57-103		
4-Chloroaniline	979	µg/kg	67.0	1333		73.4	32-99		
4-Chlorophenyl phenylether	1110	µg/kg	33.0	1333		83.2	62-100		
4-Nitroaniline	702	µg/kg	167	1333		52.7	19-124		
4-Nitrophenol	998	µg/kg	333	1333		74.9	44-106		
Acenaphthene	1050	µg/kg	6.67	1333		79.1	60-101		
Acenaphthylene	1050	µg/kg	6.67	1333		79.0	59-101		
Acetophenone	1030	µg/kg	33.0	1333		77.1	54-102		
Anthracene	1080	µg/kg	6.67	1333		80.7	63-96		
Atrazine	1190	µg/kg	33.0	1333		89.4	60-110		
Benzaldehyde	257	µg/kg	67.0	1333		19.3	10-143		
Benzo(a)anthracene	1040	µg/kg	6.67	1333		77.9	66-102		
Benzo(a)pyrene	1060	µg/kg	6.67	1333		79.7	66-105		
Benzo(b)fluoranthene	1060	µg/kg	6.67	1333		79.3	67-105		
Benzo(g,h,i)perylene	1210	µg/kg	6.67	1333		90.7	59-110		
Benzo(k)fluoranthene	1060	µg/kg	6.67	1333		79.8	68-106		
bis(2-Chloroethoxy)methane	927	µg/kg	33.0	1333		69.6	54-102		
bis(2-Chloroethyl) ether	1100	µg/kg	33.0	1333		82.2	51-101		
Butyl benzyl phthalate	1110	µg/kg	67.0	1333		83.5	59-107		
Caprolactam	957	µg/kg	33.0	1333		71.8	49-103		
Carbazole	986	µg/kg	33.0	1333		74.0	63-103		
Chrysene	1070	µg/kg	6.67	1333		80.2	66-105		
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1110	µg/kg	33.0	1333		83.1	63-101		

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2180635

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3442024

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2180635-002			
Method: EPA 8270E		Dilution: 1		Analysis Date: 08/27/25 21:58		Prep Date: 08/25/25 16:40			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Dibenz(a,h) anthracene	1230	µg/kg	33.0	1333		92.0	61-109		
Dibenzofuran	1070	µg/kg	33.0	1333		80.6	61-101		
Diethyl phthalate	1080	µg/kg	33.0	1333		81.4	63-105		
Dimethyl phthalate	1070	µg/kg	33.0	1333		80.6	64-104		
Di-n-butyl phthalate	1080	µg/kg	33.0	1333		80.8	66-108		
Di-n-octyl phthalate	1050	µg/kg	33.0	1333		79.0	53-126		
Fluoranthene	1010	µg/kg	6.67	1333		75.7	66-105		
Fluorene	1080	µg/kg	6.67	1333		80.7	62-101		
Hexachlorobenzene	1240	µg/kg	33.0	1333		93.1	61-104		
Hexachlorobutadiene	1160	µg/kg	33.0	1333		87.4	52-99		
Hexachlorocyclopentadiene	1100	µg/kg	33.0	1333		82.5	39-106		
Hexachloroethane	1090	µg/kg	33.0	1333		81.6	59-99		
Indeno(1,2,3-cd) pyrene	1180	µg/kg	6.67	1333		88.5	57-114		
Isophorone	1050	µg/kg	167	1333		78.6	55-101		
Methylphenol, Total	2070	µg/kg	67.0	2667		77.6	54-103		
Naphthalene	1000	µg/kg	6.67	1333		75.0	54-99		
Nitrobenzene	1120	µg/kg	167	1333		84.0	53-100		
n-Nitrosodi-n-propylamine	1070	µg/kg	33.0	1333		80.3	52-104		
N-Nitrosodiphenylamine	1090	µg/kg	33.0	1333		81.7	61-104		
Pentachlorophenol	914	µg/kg	33.0	1333		68.6	35-100		
Phenanthrene	1030	µg/kg	6.67	1333		77.2	64-101		
Phenol	993	µg/kg	33.0	1333		74.5	51-107		
Pyrene	1110	µg/kg	6.67	1333		83.2	62-114		
Pyridine	761	µg/kg	167	1333		57.1	40-84		
Surr: 2,4,6-Tribromophenol	3140	µg/kg		3333		94.1	48-94		S
Surr: 2-Fluorobiphenyl	2480	µg/kg		3333		74.3	50-103		
Surr: 2-Fluorophenol	2470	µg/kg		3333		74.1	43-105		
Surr: 4-Terphenyl-d14	2670	µg/kg		3333		80.2	55-111		
Surr: Nitrobenzene-d5	2610	µg/kg		3333		78.2	47-100		
Surr: Phenol-d6	2460	µg/kg		3333		73.8	49-110		

The following samples were analyzed in this batch: HN2511207-001, HN2511207-002, HN2511207-003



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2155600

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3402646

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2155600-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 13:51

Prep Date: 08/12/25 13:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	µg/kg	30.0							
1,1,2,2-Tetrachloroethane	ND	µg/kg	30.0							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	µg/kg	30.0							
1,1,2-Trichloroethane	ND	µg/kg	30.0							
1,1-Dichloroethane	ND	µg/kg	30.0							
1,1-Dichloroethylene	ND	µg/kg	30.0							
1,2,3-Trichlorobenzene	ND	µg/kg	100							
1,2,3-Trichloropropane	ND	µg/kg	30.0							
1,2,4-Trichlorobenzene	ND	µg/kg	100							
1,2,4-Trimethylbenzene	ND	µg/kg	30.0							
1,2-Dibromo-3-chloropropane (DBCP)	ND	µg/kg	100							
1,2-Dibromoethane (EDB, Ethylene dibromide)	ND	µg/kg	30.0							
1,2-Dichlorobenzene (o-Dichlorobenzene)	ND	µg/kg	30.0							
1,2-Dichloroethane (Ethylene dichloride)	ND	µg/kg	100							
1,2-Dichloropropane	ND	µg/kg	30.0							
1,3,5-Trimethylbenzene	ND	µg/kg	100							
1,3-Dichlorobenzene (m-Dichlorobenzene)	ND	µg/kg	30.0							
1,3-Dichloropropene	ND	µg/kg	60.0							
1,4-Dichlorobenzene (p-Dichlorobenzene)	ND	µg/kg	30.0							
2-Butanone (Methyl ethyl ketone, MEK)	ND	µg/kg	200							
2-Hexanone	ND	µg/kg	30.0							
4-Methyl-2-pentanone (MIBK)	ND	µg/kg	30.0							
Acetone	ND	µg/kg	100							
Benzene	ND	µg/kg	30.0							
Bromochloromethane	ND	µg/kg	30.0							
Bromodichloromethane	ND	µg/kg	30.0							
Bromoform	ND	µg/kg	30.0							
Carbon disulfide	ND	µg/kg	30.0							
Carbon tetrachloride	ND	µg/kg	30.0							
Chlorobenzene	ND	µg/kg	30.0							
Chlorodibromomethane	ND	µg/kg	30.0							
Chloroethane (Ethyl chloride)	ND	µg/kg	100							
Chloroform	ND	µg/kg	30.0							
cis & trans-1,2-Dichloroethene	ND	µg/kg	60.0							
cis-1,2-Dichloroethylene	ND	µg/kg	30.0							
cis-1,3-Dichloropropene	ND	µg/kg	30.0							
Cyclohexane	ND	µg/kg	100							
Dichlorodifluoromethane (Freon-12)	ND	µg/kg	100							

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2155600

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3402646

MB	CLIENT ID: Method Blank	Lab ID: QC-2155600-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 13:51

Prep Date: 08/12/25 13:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Ethylbenzene	ND	µg/kg	30.0							
Isopropylbenzene	ND	µg/kg	30.0							
m+p-Xylene	ND	µg/kg	60.0							
Methyl acetate	ND	µg/kg	250							
Methyl bromide (Bromomethane)	ND	µg/kg	100							
Methyl chloride (Chloromethane)	ND	µg/kg	100							
Methyl tert-butyl ether (MTBE)	ND	µg/kg	30.0							
Methylcyclohexane	ND	µg/kg	30.0							
Methylene chloride (Dichloromethane)	ND	µg/kg	250							
o-Xylene	ND	µg/kg	30.0							
Styrene	ND	µg/kg	30.0							
Tetrachloroethylene (Perchloroethylene)	ND	µg/kg	30.0							
Toluene	ND	µg/kg	30.0							
Total Xylene	ND	µg/kg	90.0							
trans-1,2-Dichloroethylene	ND	µg/kg	30.0							
trans-1,3-Dichloropropylene	ND	µg/kg	30.0							
Trichloroethene (Trichloroethylene)	ND	µg/kg	30.0							
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	ND	µg/kg	30.0							
Vinyl chloride (Chloroethene)	ND	µg/kg	30.0							
Surr: 1,2-Dichloroethane-d4	986	µg/kg		1000		98.6	80-120			
Surr: 4-Bromofluorobenzene	896	µg/kg		1000		89.6	80-120			
Surr: Dibromofluoromethane	920	µg/kg		1000		92.0	80-120			
Surr: Toluene-d8	1030	µg/kg		1000		103	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2155600-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 13:03

Prep Date: 08/12/25 13:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	883	µg/kg	30.0	1000		88.3	75-121			
1,1,2,2-Tetrachloroethane	878	µg/kg	30.0	1000		87.8	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	896	µg/kg	30.0	1000		89.6	62-129			
1,1,2-Trichloroethane	896	µg/kg	30.0	1000		89.6	80-123			
1,1-Dichloroethane	898	µg/kg	30.0	1000		89.8	74-124			
1,1-Dichloroethylene	894	µg/kg	30.0	1000		89.4	68-131			
1,2,3-Trichlorobenzene	892	µg/kg	100	1000		89.2	60-135			
1,2,3-Trichloropropane	774	µg/kg	30.0	1000		77.4	77-121			
1,2,4-Trichlorobenzene	870	µg/kg	100	1000		87.0	63-130			
1,2,4-Trimethylbenzene	850	µg/kg	30.0	1000		85.0	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	820	µg/kg	100	1000		82.0	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	846	µg/kg	30.0	1000		84.6	63-155			



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2155600

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3402646

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2155600-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 13:03

Prep Date: 08/12/25 13:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichlorobenzene (o-Dichlorobenzene)	900	µg/kg	30.0	1000		90.0	77-122			
1,2-Dichloroethane (Ethylene dichloride)	884	µg/kg	100	1000		88.4	70-130			
1,2-Dichloropropane	922	µg/kg	30.0	1000		92.2	71-130			
1,3,5-Trimethylbenzene	869	µg/kg	100	1000		86.9	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	868	µg/kg	30.0	1000		86.8	78-121			
1,3-Dichloropropene	1750	µg/kg	60.0	2000		87.4	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	876	µg/kg	30.0	1000		87.6	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	885	µg/kg	200	1000		88.5	47-164			
2-Hexanone	982	µg/kg	30.0	1000		98.2	70-137			
4-Methyl-2-pentanone (MIBK)	1390	µg/kg	30.0	1000		139	57-200			
Acetone	1040	µg/kg	100	1000		104	52-190			
Benzene	916	µg/kg	30.0	1000		91.6	78-122			
Bromochloromethane	826	µg/kg	30.0	1000		82.6	68-130			
Bromodichloromethane	906	µg/kg	30.0	1000		90.6	75-125			
Bromoform	854	µg/kg	30.0	1000		85.4	59-120			
Carbon disulfide	1020	µg/kg	30.0	1000		102	60-163			
Carbon tetrachloride	1070	µg/kg	30.0	1000		107	69-123			
Chlorobenzene	884	µg/kg	30.0	1000		88.4	79-120			
Chlorodibromomethane	846	µg/kg	30.0	1000		84.6	57-123			
Chloroethane (Ethyl chloride)	867	µg/kg	100	1000		86.7	38-132			
Chloroform	890	µg/kg	30.0	1000		89.0	72-122			
cis & trans-1,2-Dichloroethene	1790	µg/kg	60.0	2000		89.6	72-127			
cis-1,2-Dichloroethylene	882	µg/kg	30.0	1000		88.2	74-125			
cis-1,3-Dichloropropene	928	µg/kg	30.0	1000		92.8	62-124			
Dichlorodifluoromethane (Freon-12)	923	µg/kg	100	1000		92.3	28-137			
Ethylbenzene	894	µg/kg	30.0	1000		89.4	75-121			
Isopropylbenzene	880	µg/kg	30.0	1000		88.0	74-121			
m+p-Xylene	1780	µg/kg	60.0	2000		88.8	67-129			
Methyl acetate	620	µg/kg	250	1000		62.0	61-125			
Methyl bromide (Bromomethane)	919	µg/kg	100	1000		91.9	31-169			
Methyl chloride (Chloromethane)	803	µg/kg	100	1000		80.3	24-119			
Methyl tert-butyl ether (MTBE)	998	µg/kg	30.0	1000		99.8	79-139			
Methylene chloride (Dichloromethane)	994	µg/kg	250	1000		99.4	62-135			
o-Xylene	925	µg/kg	30.0	1000		92.5	75-120			
Styrene	892	µg/kg	30.0	1000		89.2	74-126			
Tetrachloroethylene (Perchloroethylene)	924	µg/kg	30.0	1000		92.4	76-128			
Toluene	917	µg/kg	30.0	1000		91.7	76-120			
Total Xylene	2700	µg/kg	90.0	3000		90.0	67-129			
trans-1,2-Dichloroethylene	910	µg/kg	30.0	1000		91.0	72-127			
trans-1,3-Dichloropropylene	820	µg/kg	30.0	1000		82.0	66-120			
Trichloroethene (Trichloroethylene)	862	µg/kg	30.0	1000		86.2	75-122			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2155600

Work Order: HN2511207
Date Collected: NA
Date Received: NA
Run ID: 3402646

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2155600-002
------------	---	-------------------------------

Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 13:03

Prep Date: 08/12/25 13:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	739	µg/kg	30.0	1000		73.9	51-115			
Vinyl chloride (Chloroethene)	966	µg/kg	30.0	1000		96.6	43-128			
<i>Surr: 1,2-Dichloroethane-d4</i>	946	<i>µg/kg</i>		1000		94.6	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	976	<i>µg/kg</i>		1000		97.6	80-120			
<i>Surr: Dibromofluoromethane</i>	1070	<i>µg/kg</i>		1000		107	80-120			
<i>Surr: Toluene-d8</i>	962	<i>µg/kg</i>		1000		96.2	80-120			

The following samples were analyzed in this batch: HN2511207-001, HN2511207-002, HN2511207-003



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CERTIFICATE OF ANALYSIS

Work Order

HN2514819

Client

The Mannik & Smith Group, Inc.

Project

DETR0060

Project Date

October 03, 2025

Reporting Contact

Ryan Montri



right solutions.
right partner.

October 15, 2025

Ryan Montri
The Mannik & Smith Group, Inc.
2365 Haggerty Road South
Suite 100
Canton, MI 48188

Re: **DETR0060**

Date Received: **10/03/2025**

Work Order: **HN2514819**

Dear Ryan,

Enclosed are the results of the sample(s) submitted to our laboratory.

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.

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

Dale Schipper

/s/ **ALEX CSASZAR** on behalf of PM listed above

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: DETR0060

Work Order: HN2514819
Date Received: 08-Oct-2025

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt

1 soil/solid sample was received for analysis at ALS Environmental on 08-Oct-2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Workorder: HN2514819

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2514819-001	4009 Pingree SB02 TCLP	SOIL/SOLID	10/07/25 11:05	10/08/25 07:00



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information		ALS Project Manager:		Work Order #:					
Parameter/Method Request for Analysis											
Purchase Order		Project Name	4009 Pingree	A	TCLP Arsenic						
Work Order	Quote ID - 11631	Project Number	DETR0060	B	TCLP Mercury						
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group	C							
Send Report To	Ryan Montri	Invoice Attn.		D							
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road	E							
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188	F							
Phone	734-397-3100	Phone	734-397-3100	G							
Fax		Fax		H							
e-Mail Address	rmontri@manniksmithgroup.com	e-Mail Address		I							
				J							
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E
1	4009 Pingree S302 TCLP	10/7/25	11:05	Soil		2	X	X			
2											
3											
4											
5											
6											
7											
8											
9											
10											
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:		Results Due Date:					
Samantha Walzmarck				☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour							
Relinquished by:	Date:	Time:	Received by:	Notes:							
Edmund Bosma	10/7/25	1441	Edmund Bosma	rel: Dat 10/7/25 1200 rec: GS 10/7/25 1200							
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp.							
Edmund Bosma	10/7/25	1529		12.7 1.5c							
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	QC Package: (Check Box Below)							
BH	10/8/25	11:35		☐ Level II: Standard QC ☐ TRRP-Checklist							
				☐ Level III: Std QC + Raw Data ☐ TRRP Level IV							
				☐ Level IV: SW846 CLP-Like							
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035				Other: _____							

Environmental Division
Holland
Work Order Reference
HN2514819

Telephone : + 1 616 399 6070

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Please click the link below for detailed Terms & Conditions:

<https://www.alsglobal.com/ALSGroupUSACorpTC>

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QS to Bridget H 10/8/25 0700



ALS Holland Sample Receiving Checklist

Received by: Brittany H

Date/Time: 10/8/25 0700

Carrier Name: QS

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

COC signed when relinquished and received? (Yes) / No

COC 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

Temperature(s) (°C): 1.5/1.5c

Thermometer(s): 1R7

Sample(s) received on ice? (Yes) / No

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 10/8/25 11:35

Water – VOA vials have zero headspace? Yes / No / No Vials

Water – pH acceptable upon receipt? Yes / No / N/A

pH strip lot #: _____ < 2 _____ > 12 _____ Other _____

pH adjusted (note adjustments below)? Yes / No / N/A

pH adjusted by: _____

Login Notes:

REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit (if MCL displayed)
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
J	Analyte is present at an estimated concentration between the MDL and Report Limit
NC	Not Calculated
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
V	The Continuing Calibration Verification was outside of control criteria
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.

Holland Laboratory Certifications¹

Agency	Type	ID	Issued	Expires
Alabama	Drinking Water (Secondary)	42500	12/17/2024	12/31/2025
Colorado	UST		07/01/2025	06/30/2026
Connecticut	Drinking Water (Secondary)	PH-0155	12/10/2024	12/31/2026
Florida	NELAP (Primary)	E871106	07/01/2025	06/30/2026
Illinois	NELAP (Secondary)	200076	11/14/2024	12/31/2025
Indiana	Drinking Water (Secondary)	C-MI-08	12/31/2024	09/04/2026
Iowa	State Specific	403	09/18/2023	09/01/2025
Kansas	NELAP (Secondary)	E-10411	07/09/2024	07/31/2025
Kentucky	Waste Water	KY98004	12/20/2024	12/31/2025
Kentucky	UST	120474	06/24/2024	06/30/2025
Michigan	Drinking Water (Primary)	0022	12/19/2023	09/04/2026
Minnesota	NELAP (Secondary)	026-999-449	12/17/2024	12/31/2025
Missouri	Drinking Water (Secondary)	01262	11/14/2024	12/30/2027
New Jersey	NELAP (Secondary)	MI015	07/01/2024	6/30/2025
New York	NELAP (Secondary)	12128	04/01/2025	04/01/2026
North Dakota	State Specific	R-192	11/18/2024	06/30/2025
Ohio	Drinking Water (Secondary)	87783	06/26/2025	6/30/2026
Pennsylvania	NELAP (Secondary)	68-03827	06/14/2024	07/31/2025
Texas	NELAP (Secondary)	T104704494	02/12/2025	01/31/2026
USDA	Domestic CA	Soil-MI-007	02/06/2025	08/07/2026
USDA	Soil Import	525-23-62-77572	03/03/2023	03/03/2026
West Virginia	State Specific	355	06/07/2025	08/31/2026
Wisconsin	State Specific	399084510	08/15/2024	08/31/2025

¹ - Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060

Work Order: HN2514819

Sample Name: 4009 Pingree SB02 TCLP
Laboratory Code: HN2514819-001
Sample Matrix: SOIL/SOLID

Date Collected: 10/07/25
Date Received: 10/08/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AD	2272800	Nicolee Allen	3586409	Hunter Johnson
EPA 7470A	Method	001-AD	2273477	Maxx Richey	3584247	Maxx Richey

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID

Work Order: HN2514819
Date Collected: 10/07/25 11:05
Date Received: 10/08/25 07:00

CLIENT ID: 4009 Pingree SB02 TCLP

Lab ID: HN2514819-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Arsenic	EPA 6020B	ND		mg/L	0.0499	1	10/14/25 18:34	10/12/25 09:34
Mercury	EPA 7470A	ND		mg/L	0.00200	1	10/13/25 18:14	10/13/25 13:00

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2272800

Work Order: HN2514819
Date Collected: NA
Date Received: NA
Run ID: 3584478

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2272800-001
-----------	--------------------------------	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/13/25 22:50
Prep Date: 10/12/25 09:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	ND	mg/L	0.0499							

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2272800-002
------------	---	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/13/25 22:52
Prep Date: 10/12/25 09:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	0.926	mg/L	0.0499	1		92.6	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2272800-004
-----------	----------------------------	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/13/25 22:55
Prep Date: 10/12/25 09:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	0.926	mg/L	0.0499	1	ND	92.6	75-125			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2272800-005
------------	----------------------------	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/13/25 22:57
Prep Date: 10/12/25 09:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	0.913	mg/L	0.0499	1	ND	91.3	75-125	1.38	20	

The following samples were analyzed in this batch: HN2514819-001

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2273477

Work Order: HN2514819
Date Collected: NA
Date Received: NA
Run ID: 3584247

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2273477-001
-----------	--------------------------------	-------------------------------

Method: EPA 7470A **Dilution:** 1 **Analysis Date:** 10/13/25 18:01
Prep Date: 10/13/25 13:01

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	ND	mg/L	0.00200							

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2273477-002
------------	---	-------------------------------

Method: EPA 7470A **Dilution:** 1 **Analysis Date:** 10/13/25 18:03
Prep Date: 10/13/25 13:01

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.0222	mg/L	0.00200	0.02		111	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2273477-004
-----------	----------------------------	-------------------------------

Method: EPA 7470A **Dilution:** 1 **Analysis Date:** 10/13/25 18:07
Prep Date: 10/13/25 13:01

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.0207	mg/L	0.00200	0.02	ND	107	75-125			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2273477-005
------------	----------------------------	-------------------------------

Method: EPA 7470A **Dilution:** 1 **Analysis Date:** 10/13/25 18:08
Prep Date: 10/13/25 13:01

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.0210	mg/L	0.00200	0.02	ND	109	75-125	1.44	20	

The following samples were analyzed in this batch: HN2514819-001



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November 17, 2025

Ryan Montri
The Mannik & Smith Group, Inc.
2365 Haggerty Road South
Suite 100
Canton, MI 48188

Re: **DETR0060 - 4009 Pingree**

Date Received: **10/28/2025**

Work Order: **HN2516060**

Revision: **1**

Dear Ryan,

Enclosed are the results of the sample(s) submitted to our laboratory.

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.

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

Kathy Jones-Gronda

/S/ KATHY JONES-GRONDA

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree

Work Order: HN2516060
Date Received: 28-Oct-2025

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt

1 soil/solid sample was received for analysis at ALS Environmental on 28-Oct-2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

WorkOrder: HN2516060

Analytical report amended to include the additional analysis requested. This replaces report dated 11/7/25.

Organics

EPA 8270E-FULL HN-3546-S

Run ID: 3667671

The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: Atrazine

HN2516060-001: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

EPA 8081B-3546-S (High)

Run ID: 3641348

HN2516060-001: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

HN2516060-001: One or more surrogate recoveries were below the lower control limits. The sample results may be biased low.

SAMPLE DETECTION SUMMARY

This form includes only detections above the limits as presented.

For a full listing of sample results, continue to the Sample Results section of this Report.



CLIENT ID: 4009 Pingree SB02 (5-6')-R			Lab ID: HN2516060-001		
Analyte	Results	Flag	MRL	Units	Method
Anthracene	197		179	µg/kg	EPA 8270E
Benzo(a)anthracene	393		179	µg/kg	EPA 8270E
Benzo(a)pyrene	375		179	µg/kg	EPA 8270E
Benzo(b)fluoranthene	429		179	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	250		179	µg/kg	EPA 8270E
Benzo(k)fluoranthene	197		179	µg/kg	EPA 8270E
Chrysene	214		179	µg/kg	EPA 8270E
Fluoranthene	751		179	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	322		179	µg/kg	EPA 8270E
Percent Moisture	14.6		0.1	%	EPA 3550C
Phenanthrene	679		179	µg/kg	EPA 8270E
Pyrene	626		179	µg/kg	EPA 8270E

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Workorder: HN2516060

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2516060-001	4009 Pingree SB02 (5-6')-R	SOIL/SOLID	10/27/25 10:40	10/28/25 06:00



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information		ALS Project Manager:		Work Order #:										
Parameter/Method Request for Analysis		Project Name		Project Number		Parameter/Method Request for Analysis										
Purchase Order		Project Name	4009 PINGREE	A	Pesticides (U.S. EPA Method 8081B (or Method 8081))											
Work Order		Project Number	DETR0060	B	Herbicides (U.S. EPA Method 8151A (or Method 8151))											
Company Name	The Mannik and Smith Group	Bill To Company	The Mannik and Smith Group	C	SVOCs (US EPA METH 8270D or 8- 47)											
Send Report To	Ryan Montri	Invoice Attn.		D	(8270D or 8270) ⁴⁰											
Address	2365 Haggerty Rd South Suite 100	Address	2365 Haggerty Rd South Suite 100	E												
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188	F												
Phone	734-397-3100	Phone	734-397-3100	G												
Fax		Fax		H												
e-Mail Address	RMontri@mnniksmithgroup.com	e-Mail Address		I												
J																
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J
1	4009 PINGREE SBOZ (S-6')-R	10/27/25	1040	S	NA	1	X	X	X	4						
2																
3																
4																
5																
6																
7																
8																
9																
10																
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:		Other: 72 hours		Results Due Date:								
WILEY DAVENPORT						☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour										
Relinquished by:		Date:	Time:	Received by:		Notes:		Quote# HN-061825-M&S-MA								
WILEY DAVENPORT		10/27/25	1558	[Signature]		QS to Broughton 10/28/25 0600										
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler Temp.		QC Package: (Check Box Below)								
[Signature]		10/27/25	1558	QS		127 5.8C		☐ Level II: Standard QC ☐ TRRP-Checklist								
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):				☐ Level III: Std QC + Raw Data ☐ TRRP Level IV								
BH		10/28/25	08:33					☐ Level IV: SW846 CLP-Like								
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035								Other: _____								

Environmental Division
Holland
Work Order Reference
HN2516060

Telephone : +1 616 399 6070

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Please click the link below for detailed Terms & Conditions:

<https://www.alsglobal.com/ALSGroupUSACorpTC>

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ALS Holland Sample Receiving Checklist

Received by:

Brilliant

Date/Time:

10/28/25 0600

Carrier Name:

QS

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

COC signed when relinquished and received?

☒ Yes / No

COC 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

Temperature(s) (°C):

5.8 / 5.8c

Thermometer(s):

127

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

Soil

Cooler(s)/Kit(s):

1

Date/Time sample(s) sent to storage:

10/28/25 08:33

Water – VOA vials have zero headspace?

Yes / No / ☒ No Vials

Water – pH acceptable upon receipt?

Yes / No / ☒ N/A

pH strip lot #: _____

< 2 _____

> 12 _____

Other _____

pH adjusted (note adjustments below)?

Yes / No / ☒ N/A

pH adjusted by:

Login Notes:

REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit (if MCL displayed)
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
J	Analyte is present at an estimated concentration between the MDL and Report Limit
NC	Not Calculated
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
V	The Continuing Calibration Verification was outside of control criteria
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.

Holland Laboratory Certifications¹

Agency	Type	ID	Issued	Expires
Alabama	Drinking Water (Secondary)	42500	12/17/2024	12/31/2025
Colorado	UST		07/01/2025	06/30/2026
Connecticut	Drinking Water (Secondary)	PH-0155	12/10/2024	12/31/2026
Florida	NELAP (Primary)	E871106	07/01/2025	06/30/2026
Illinois	NELAP (Secondary)	200076	11/14/2024	12/31/2025
Indiana	Drinking Water (Secondary)	C-MI-08	12/31/2024	09/04/2026
Iowa	State Specific	403	09/18/2023	09/01/2025
Kansas	NELAP (Secondary)	E-10411	07/09/2024	07/31/2025
Kentucky	Waste Water	KY98004	12/20/2024	12/31/2025
Kentucky	UST	120474	06/24/2024	06/30/2025
Michigan	Drinking Water (Primary)	0022	12/19/2023	09/04/2026
Minnesota	NELAP (Secondary)	026-999-449	12/17/2024	12/31/2025
Missouri	Drinking Water (Secondary)	01262	11/14/2024	12/30/2027
New Jersey	NELAP (Secondary)	MI015	07/01/2024	6/30/2025
New York	NELAP (Secondary)	12128	04/01/2025	04/01/2026
North Dakota	State Specific	R-192	11/18/2024	06/30/2025
Ohio	Drinking Water (Secondary)	87783	06/26/2025	6/30/2026
Pennsylvania	NELAP (Secondary)	68-03827	06/14/2024	07/31/2025
Texas	NELAP (Secondary)	T104704494	02/12/2025	01/31/2026
USDA	Domestic CA	Soil-MI-007	02/06/2025	08/07/2026
USDA	Soil Import	525-23-62-77572	03/03/2023	03/03/2026
West Virginia	State Specific	355	06/07/2025	08/31/2026
Wisconsin	State Specific	399084510	08/15/2024	08/31/2025

¹ - Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree

Work Order: HN2516060

Sample Name: 4009 Pingree SB02 (5-6')-R
Laboratory Code: HN2516060-001
Sample Matrix: SOIL/SOLID

Date Collected: 10/27/25
Date Received: 10/28/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AA	2302720		3631423	Nicole Maleski
EPA 8081B	EPA 3546	001-AA	2305050	Mya Harmer	3641348	Madison VandenBer
EPA 8081B	EPA 3511	001-AC	2334132	Mac Peterson	3686395	Madison VandenBer
EPA 8151A	Method	001-AA	2309163	Sam Bruzan	3642247	Kathy Malmyga
EPA 8270E	EPA 3546	001-AA	2319451	Willow Julien	3667671	Sam Bruzan

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2516060
Date Collected: 10/27/25 10:40
Date Received: 10/28/25 06:00

CLIENT ID: 4009 Pingree SB02 (5-6')-R

Lab ID: HN2516060-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<2.62	U	µg/kg	14.2	1	10/30/25 17:53	10/29/25 10:50
2,4,5-TP (Silvex)	EPA 8151A	<4.67	U	µg/kg	14.2	1	10/30/25 17:53	10/29/25 10:50
2,4-D	EPA 8151A	<7.61	U	µg/kg	28.5	1	10/30/25 17:53	10/29/25 10:50
Surr: DCAA	EPA 8151A	48.0		%REC	10-116	1	10/30/25 17:53	10/29/25 10:50
General Chemistry Parameters								
Percent Moisture	EPA 3550C	14.6		%	0.1	1	10/28/25 11:36	NA
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<175	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
4,4'-DDE	EPA 8081B	<181	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
4,4'-DDT	EPA 8081B	<182	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
Aldrin	EPA 8081B	<178	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
alpha-BHC	EPA 8081B	<180	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
beta-BHC	EPA 8081B	<180	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
Chlordane, Technical	EPA 8081B	<272	U	µg/kg	686	10	10/30/25 01:55	10/29/25 11:36
cis-Chlordane	EPA 8081B	<183	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
delta-BHC	EPA 8081B	<180	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
Dieldrin	EPA 8081B	<192	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
Endosulfan I	EPA 8081B	<184	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
Endosulfan II	EPA 8081B	<182	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
Endosulfan sulfate	EPA 8081B	<169	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
Endrin	EPA 8081B	<222	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
Endrin aldehyde	EPA 8081B	<174	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
Endrin ketone	EPA 8081B	<167	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
gamma-BHC (Lindane)	EPA 8081B	<180	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
Heptachlor	EPA 8081B	<177	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
Heptachlor epoxide	EPA 8081B	<181	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
Methoxychlor	EPA 8081B	<183	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36
Toxaphene	EPA 8081B	<296	U	µg/kg	1650	10	10/30/25 01:55	10/29/25 11:36
trans-Chlordane	EPA 8081B	<182	U	µg/kg	274	10	10/30/25 01:55	10/29/25 11:36

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2516060
Date Collected: 10/27/25 10:40
Date Received: 10/28/25 06:00

CLIENT ID: 4009 Pingree SB02 (5-6')-R

Lab ID: HN2516060-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	60.0		%REC	53-151	10	10/30/25 01:55	10/29/25 11:36
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	54.0	S	%REC	67-127	10	10/30/25 01:55	10/29/25 11:36

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<145	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<206	U	µg/kg	8930	10	11/06/25 20:22	11/05/25 12:25
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<641	U	µg/kg	4470	10	11/06/25 20:22	11/05/25 12:25
1-Methylnaphthalene	EPA 8270E	<129	U	µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	<209	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
2,3,4,6-Tetrachlorophenol	EPA 8270E	<654	U	µg/kg	1790	10	11/06/25 20:22	11/05/25 12:25
2,4,5-Trichlorophenol	EPA 8270E	<529	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
2,4,6-Trichlorophenol	EPA 8270E	<238	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
2,4-Dichlorophenol	EPA 8270E	<481	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
2,4-Dimethylphenol	EPA 8270E	<459	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
2,4-Dinitrophenol	EPA 8270E	<6530	U	µg/kg	8930	10	11/06/25 20:22	11/05/25 12:25
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<580	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<228	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
2-Chloronaphthalene	EPA 8270E	<125	U	µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
2-Chlorophenol	EPA 8270E	<585	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<746	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
2-Methylnaphthalene	EPA 8270E	<90.9	U	µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
2-Methylphenol (o-Cresol)	EPA 8270E	<242	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
2-Nitroaniline	EPA 8270E	<496	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
2-Nitrophenol	EPA 8270E	<255	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
3&4-Methylphenol	EPA 8270E	<487	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
3,3'-Dichlorobenzidine	EPA 8270E	<417	U	µg/kg	4470	10	11/06/25 20:22	11/05/25 12:25
3-Nitroaniline	EPA 8270E	<519	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<490	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2516060
Date Collected: 10/27/25 10:40
Date Received: 10/28/25 06:00

CLIENT ID: 4009 Pingree SB02 (5-6')-R

Lab ID: HN2516060-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
4-Chloro-3-methylphenol	EPA 8270E	<255	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
4-Chloroaniline	EPA 8270E	<454	U	µg/kg	1790	10	11/06/25 20:22	11/05/25 12:25
4-Chlorophenyl phenylether	EPA 8270E	<247	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
4-Nitroaniline	EPA 8270E	<1390	U	µg/kg	4470	10	11/06/25 20:22	11/05/25 12:25
4-Nitrophenol	EPA 8270E	<2090	U	µg/kg	8930	10	11/06/25 20:22	11/05/25 12:25
Acenaphthene	EPA 8270E	<129	U	µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
Acenaphthylene	EPA 8270E	<155	U	µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
Acetophenone	EPA 8270E	<140	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Anthracene	EPA 8270E	197		µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
Atrazine	EPA 8270E	<524	SU	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Benzaldehyde	EPA 8270E	<1370	U	µg/kg	1790	10	11/06/25 20:22	11/05/25 12:25
Benzo(a)anthracene	EPA 8270E	393		µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
Benzo(a)pyrene	EPA 8270E	375		µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
Benzo(b)fluoranthene	EPA 8270E	429		µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
Benzo(g,h,i)perylene	EPA 8270E	250		µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
Benzo(k)fluoranthene	EPA 8270E	197		µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
bis(2-Chloroethoxy) methane	EPA 8270E	<566	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
bis(2-Chloroethyl) ether	EPA 8270E	<253	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Butyl benzyl phthalate	EPA 8270E	<1120	U	µg/kg	1790	10	11/06/25 20:22	11/05/25 12:25
Caprolactam	EPA 8270E	<806	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Carbazole	EPA 8270E	<263	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Chrysene	EPA 8270E	214		µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	<739	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Dibenz(a,h) anthracene	EPA 8270E	<96.5	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Dibenzofuran	EPA 8270E	<131	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Diethyl phthalate	EPA 8270E	<304	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Dimethyl phthalate	EPA 8270E	<174	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Fluoranthene	EPA 8270E	751		µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
Fluorene	EPA 8270E	<130	U	µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
Hexachlorobenzene	EPA 8270E	<260	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2516060
Date Collected: 10/27/25 10:40
Date Received: 10/28/25 06:00

CLIENT ID: 4009 Pingree SB02 (5-6')-R

Lab ID: HN2516060-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Hexachlorobutadiene	EPA 8270E	<210	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Hexachlorocyclopentadiene	EPA 8270E	<847	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Hexachloroethane	EPA 8270E	<370	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Indeno(1,2,3-cd) pyrene	EPA 8270E	322		µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
Isophorone	EPA 8270E	<175	U	µg/kg	4470	10	11/06/25 20:22	11/05/25 12:25
Methylphenol, Total	EPA 8270E	<242	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Naphthalene	EPA 8270E	<114	U	µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
Nitrobenzene	EPA 8270E	<300	U	µg/kg	4470	10	11/06/25 20:22	11/05/25 12:25
n-Nitrosodi-n-propylamine	EPA 8270E	<147	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
N-Nitrosodiphenylamine	EPA 8270E	<517	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Pentachlorophenol	EPA 8270E	<710	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Phenanthrene	EPA 8270E	679		µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
Phenol	EPA 8270E	<449	U	µg/kg	885	10	11/06/25 20:22	11/05/25 12:25
Pyrene	EPA 8270E	626		µg/kg	179	10	11/06/25 20:22	11/05/25 12:25
Pyridine	EPA 8270E	<1760	U	µg/kg	4470	10	11/06/25 20:22	11/05/25 12:25
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	52.8		%REC	48-94	10	11/06/25 20:22	11/05/25 12:25
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	58.8		%REC	50-103	10	11/06/25 20:22	11/05/25 12:25
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	59.6		%REC	43-105	10	11/06/25 20:22	11/05/25 12:25
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	61.8		%REC	55-111	10	11/06/25 20:22	11/05/25 12:25
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	48.2		%REC	47-100	10	11/06/25 20:22	11/05/25 12:25
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	50.8		%REC	49-110	10	11/06/25 20:22	11/05/25 12:25

TCLP Organochlorine Pesticides by GC/ECD

Chlordane, Technical	EPA 8081B	<0.0340	U	µg/L	0.501	1	11/13/25 19:34	11/13/25 12:24
Endrin	EPA 8081B	<0.00852	U	µg/L	0.0100	1	11/13/25 19:34	11/13/25 12:24
gamma-BHC (Lindane)	EPA 8081B	<0.00833	U	µg/L	0.0100	1	11/13/25 19:34	11/13/25 12:24
Heptachlor	EPA 8081B	<0.00761	U	µg/L	0.0100	1	11/13/25 19:34	11/13/25 12:24
Heptachlor epoxide	EPA 8081B	<0.00794	U	µg/L	0.0100	1	11/13/25 19:34	11/13/25 12:24
Methoxychlor	EPA 8081B	<0.00990	U	µg/L	0.0100	1	11/13/25 19:34	11/13/25 12:24
Toxaphene	EPA 8081B	<0.110	U	µg/L	2.00	1	11/13/25 19:34	11/13/25 12:24
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	114		%REC	42-148	1	11/13/25 19:34	11/13/25 12:24
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	64.4		%REC	57-141	1	11/13/25 19:34	11/13/25 12:24



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2309163

Work Order: HN2516060
Date Collected: NA
Date Received: NA
Run ID: 3642247

Chlorinated Herbicides by GC/ECD

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2309163-002
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 10/30/25 16:49
Prep Date: 10/29/25 10:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	30.0	µg/kg	5.00	50		60.0	10-119			
2,4,5-TP (Silvex)	29.0	µg/kg	5.00	50		58.0	10-101			
2,4-D	26.0	µg/kg	10.0	50		52.0	10-128			
Surr: DCAA	27.0	µg/kg		50		54.0	10-116			

MS	CLIENT ID: Batch QC	Lab ID: QC-2309163-005
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 10/30/25 17:02
Prep Date: 10/29/25 10:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	74.5	µg/kg	14.5	124.22	<2.29	60.0	10-119			
2,4,5-TP (Silvex)	72.0	µg/kg	14.5	124.22	<4.07	58.0	10-101			
2,4-D	72.0	µg/kg	29.0	124.22	<6.63	58.0	10-128			
Surr: DCAA	77.0	µg/kg		124.22		62.0	10-116			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2309163-006
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 10/30/25 17:15
Prep Date: 10/29/25 10:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	67.3	µg/kg	14.6	124.69	<2.29	54.0	10-119	10.2	30	
2,4,5-TP (Silvex)	64.8	µg/kg	14.6	124.69	<4.09	52.0	10-101	10.5	30	
2,4-D	67.3	µg/kg	29.1	124.69	<6.66	54.0	10-128	6.77	30	
Surr: DCAA	67.3	µg/kg		124.69		54.0	10-116	13.4	30	

MB	CLIENT ID: Method Blank	Lab ID: QC-MRG2-2309163001
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 10/30/25 16:36
Prep Date: 10/29/25 10:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	<0.920	µg/kg	5.00	0		NC	0-0			U
2,4,5-TP (Silvex)	<1.64	µg/kg	5.00	0		NC	0-0			U
2,4-D	<2.67	µg/kg	10.0	0		NC	0-0			U
Surr: DCAA	30.0	µg/kg		50		60.0	10-116			

The following samples were analyzed in this batch: HN2516060-001

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2302720

Work Order: HN2516060
Date Collected: NA
Date Received: NA
Run ID: 3631423

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2302720-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 10/28/25 11:36
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	<0.1	%	0.1	0		NC	0-0			U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2302720-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 10/28/25 11:36
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	100	%	0.1	100		100.0	98-102			

DUP	CLIENT ID: Batch QC	Lab ID: QC-2302720-004
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 10/28/25 11:36
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	37.5	%	0.1	0	37.7	NC	0-0	0.559	10	

DUP	CLIENT ID: Batch QC	Lab ID: QC-2302720-015
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 10/28/25 11:36
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	38.5	%	0.1	0	39.5	NC	0-0	2.51	10	

The following samples were analyzed in this batch: HN2516060-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2305050

Work Order: HN2516060
Date Collected: NA
Date Received: NA
Run ID: 3641348

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2305050-001
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Method: EPA 8081B

Dilution: 1

Analysis Date: 10/29/25 23:02

Prep Date: 10/29/25 11:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	<6.39	µg/kg	10.0	0		NC	0-0			U
4,4'-DDE	<6.59	µg/kg	10.0	0		NC	0-0			U
4,4'-DDT	<6.65	µg/kg	10.0	0		NC	0-0			U
Aldrin	<6.50	µg/kg	10.0	0		NC	0-0			U
alpha-BHC	<6.58	µg/kg	10.0	0		NC	0-0			U
beta-BHC	<6.57	µg/kg	10.0	0		NC	0-0			U
Chlordane, Technical	<9.92	µg/kg	25.0	0		NC	0-0			U
cis-Chlordane	<6.68	µg/kg	10.0	0		NC	0-0			U
delta-BHC	<6.55	µg/kg	10.0	0		NC	0-0			U
Dieldrin	<6.99	µg/kg	10.0	0		NC	0-0			U
Endosulfan I	<6.72	µg/kg	10.0	0		NC	0-0			U
Endosulfan II	<6.62	µg/kg	10.0	0		NC	0-0			U
Endosulfan sulfate	<6.15	µg/kg	10.0	0		NC	0-0			U
Endrin	<8.09	µg/kg	10.0	0		NC	0-0			U
Endrin aldehyde	<6.34	µg/kg	10.0	0		NC	0-0			U
Endrin ketone	<6.08	µg/kg	10.0	0		NC	0-0			U
gamma-BHC (Lindane)	<6.56	µg/kg	10.0	0		NC	0-0			U
Heptachlor	<6.45	µg/kg	10.0	0		NC	0-0			U
Heptachlor epoxide	<6.62	µg/kg	10.0	0		NC	0-0			U
Methoxychlor	<6.69	µg/kg	10.0	0		NC	0-0			U
Toxaphene	<10.8	µg/kg	60.0	0		NC	0-0			U
trans-Chlordane	<6.64	µg/kg	10.0	0		NC	0-0			U
Surr: Decachlorobiphenyl	35.8	µg/kg		33.33		107	53-151			
Surr: Tetrachloro-m-xylene	28.7	µg/kg		33.33		86.2	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2305050-002
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Method: EPA 8081B

Dilution: 1

Analysis Date: 10/29/25 23:14

Prep Date: 10/29/25 11:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	27.5	µg/kg	10.0	33.33		82.6	55-141			
4,4'-DDE	29.8	µg/kg	10.0	33.33		89.5	55-143			
4,4'-DDT	34.7	µg/kg	10.0	33.33		104	50-144			
Aldrin	30.6	µg/kg	10.0	33.33		91.7	57-141			
alpha-BHC	30.4	µg/kg	10.0	33.33		91.2	58-144			
beta-BHC	30.4	µg/kg	10.0	33.33		91.2	55-147			
cis-Chlordane	30.0	µg/kg	10.0	33.33		90.2	58-142			
delta-BHC	24.8	µg/kg	10.0	33.33		74.4	59-142			
Dieldrin	30.7	µg/kg	10.0	33.33		92.1	59-142			
Endosulfan I	29.2	µg/kg	10.0	33.33		87.8	57-145			
Endosulfan II	29.2	µg/kg	10.0	33.33		87.8	58-138			
Endosulfan sulfate	28.3	µg/kg	10.0	33.33		85.0	54-136			
Endrin	34.8	µg/kg	10.0	33.33		104	45-150			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2305050

Work Order: HN2516060
Date Collected: NA
Date Received: NA
Run ID: 3641348

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2305050-002			
Method: EPA 8081B		Dilution: 1		Analysis Date: 10/29/25 23:14		Prep Date: 10/29/25 11:37			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Endrin aldehyde	36.8	µg/kg	10.0	33.33		111	41-147		
Endrin ketone	27.6	µg/kg	10.0	33.33		82.7	54-146		
gamma-BHC (Lindane)	30.6	µg/kg	10.0	33.33		91.9	58-145		
Heptachlor	31.8	µg/kg	10.0	33.33		95.3	51-145		
Heptachlor epoxide	30.7	µg/kg	10.0	33.33		92.1	59-143		
Methoxychlor	33.4	µg/kg	10.0	33.33		100	43-144		
trans-Chlordane	30.0	µg/kg	10.0	33.33		90.0	56-145		
Surr: Decachlorobiphenyl	29.8	µg/kg		33.33		89.3	51-151		
Surr: Tetrachloro-m-xylene	25.8	µg/kg		33.33		77.4	67-127		

The following samples were analyzed in this batch: HN2516060-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516060
Date Collected: NA
Date Received: NA
Run ID: 3667671

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2319451-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 12:42

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	<5.41	µg/kg	33.0	0		NC	0-0			U
1,2,4,5-Tetrachlorobenzene	<7.69	µg/kg	333	0		NC	0-0			U
1,4-Dioxane (1,4- Diethyleneoxide)	<23.9	µg/kg	167	0		NC	0-0			U
1-Methylnaphthalene	<4.80	µg/kg	6.67	0		NC	0-0			U
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	<7.81	µg/kg	33.0	0		NC	0-0			U
2,3,4,6-Tetrachlorophenol	<24.4	µg/kg	67.0	0		NC	0-0			U
2,4,5-Trichlorophenol	<19.8	µg/kg	33.0	0		NC	0-0			U
2,4,6-Trichlorophenol	<8.87	µg/kg	33.0	0		NC	0-0			U
2,4-Dichlorophenol	<17.9	µg/kg	33.0	0		NC	0-0			U
2,4-Dimethylphenol	<17.1	µg/kg	33.0	0		NC	0-0			U
2,4-Dinitrophenol	<244	µg/kg	333	0		NC	0-0			U
2,4-Dinitrotoluene (2,4-DNT)	<21.6	µg/kg	33.0	0		NC	0-0			U
2,6-Dinitrotoluene (2,6-DNT)	<8.51	µg/kg	33.0	0		NC	0-0			U
2-Chloronaphthalene	<4.66	µg/kg	6.67	0		NC	0-0			U
2-Chlorophenol	<21.8	µg/kg	33.0	0		NC	0-0			U
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	<27.8	µg/kg	33.0	0		NC	0-0			U
2-Methylnaphthalene	<3.39	µg/kg	6.67	0		NC	0-0			U
2-Methylphenol (o-Cresol)	<9.01	µg/kg	33.0	0		NC	0-0			U
2-Nitroaniline	<18.5	µg/kg	33.0	0		NC	0-0			U
2-Nitrophenol	<9.50	µg/kg	33.0	0		NC	0-0			U
3&4-Methylphenol	<18.2	µg/kg	33.0	0		NC	0-0			U
3,3'-Dichlorobenzidine	<15.6	µg/kg	167	0		NC	0-0			U
3-Nitroaniline	<19.4	µg/kg	33.0	0		NC	0-0			U
4-Bromophenyl phenyl ether (BDE-3)	<18.3	µg/kg	33.0	0		NC	0-0			U
4-Chloro-3-methylphenol	<9.50	µg/kg	33.0	0		NC	0-0			U
4-Chloroaniline	<16.9	µg/kg	67.0	0		NC	0-0			U
4-Chlorophenyl phenylether	<9.21	µg/kg	33.0	0		NC	0-0			U
4-Nitroaniline	<51.7	µg/kg	167	0		NC	0-0			U
4-Nitrophenol	<78.1	µg/kg	333	0		NC	0-0			U
Acenaphthene	<4.82	µg/kg	6.67	0		NC	0-0			U
Acenaphthylene	<5.78	µg/kg	6.67	0		NC	0-0			U
Acetophenone	<5.22	µg/kg	33.0	0		NC	0-0			U
Anthracene	<4.70	µg/kg	6.67	0		NC	0-0			U
Atrazine	<19.5	µg/kg	33.0	0		NC	0-0			U
Benzaldehyde	<51.2	µg/kg	67.0	0		NC	0-0			U
Benzo(a)anthracene	<5.76	µg/kg	6.67	0		NC	0-0			U
Benzo(a)pyrene	<4.09	µg/kg	6.67	0		NC	0-0			U
Benzo(b)fluoranthene	<4.97	µg/kg	6.67	0		NC	0-0			U
Benzo(g,h,i)perylene	<5.11	µg/kg	6.67	0		NC	0-0			U
Benzo(k)fluoranthene	<5.05	µg/kg	6.67	0		NC	0-0			U
bis(2-Chloroethoxy)methane	<21.1	µg/kg	33.0	0		NC	0-0			U
bis(2-Chloroethyl) ether	<9.44	µg/kg	33.0	0		NC	0-0			U

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516060
Date Collected: NA
Date Received: NA
Run ID: 3667671

MB	CLIENT ID: Method Blank	Lab ID: QC-2319451-001
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 11/06/25 12:42**Prep Date:** 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Butyl benzyl phthalate	<41.7	µg/kg	67.0	0		NC	0-0			U
Caprolactam	<30.1	µg/kg	33.0	0		NC	0-0			U
Carbazole	<9.82	µg/kg	33.0	0		NC	0-0			U
Chrysene	<5.39	µg/kg	6.67	0		NC	0-0			U
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	<27.6	µg/kg	33.0	0		NC	0-0			U
Dibenz(a,h) anthracene	<3.60	µg/kg	33.0	0		NC	0-0			U
Dibenzofuran	<4.90	µg/kg	33.0	0		NC	0-0			U
Diethyl phthalate	<11.3	µg/kg	33.0	0		NC	0-0			U
Dimethyl phthalate	<6.50	µg/kg	33.0	0		NC	0-0			U
Fluoranthene	<3.20	µg/kg	6.67	0		NC	0-0			U
Fluorene	<4.84	µg/kg	6.67	0		NC	0-0			U
Hexachlorobenzene	<9.70	µg/kg	33.0	0		NC	0-0			U
Hexachlorobutadiene	<7.85	µg/kg	33.0	0		NC	0-0			U
Hexachlorocyclopentadiene	<31.6	µg/kg	33.0	0		NC	0-0			U
Hexachloroethane	<13.8	µg/kg	33.0	0		NC	0-0			U
Indeno(1,2,3-cd) pyrene	<4.64	µg/kg	6.67	0		NC	0-0			U
Isophorone	<6.51	µg/kg	167	0		NC	0-0			U
Methylphenol, Total	<9.01	µg/kg	67.0	0		NC	0-0			U
Naphthalene	<4.26	µg/kg	6.67	0		NC	0-0			U
Nitrobenzene	<11.2	µg/kg	167	0		NC	0-0			U
n-Nitrosodi-n-propylamine	<5.50	µg/kg	33.0	0		NC	0-0			U
N-Nitrosodiphenylamine	<19.3	µg/kg	33.0	0		NC	0-0			U
Pentachlorophenol	<26.5	µg/kg	33.0	0		NC	0-0			U
Phenanthrene	<3.10	µg/kg	6.67	0		NC	0-0			U
Phenol	<16.7	µg/kg	33.0	0		NC	0-0			U
Pyrene	<3.33	µg/kg	6.67	0		NC	0-0			U
Pyridine	<65.6	µg/kg	167	0		NC	0-0			U
Surr: 2,4,6-Tribromophenol	2410	µg/kg		3333		72.4	48-94			
Surr: 2-Fluorobiphenyl	2480	µg/kg		3333		74.4	50-103			
Surr: 2-Fluorophenol	2600	µg/kg		3333		77.9	43-105			
Surr: 4-Terphenyl-d14	2530	µg/kg		3333		76.0	55-111			
Surr: Nitrobenzene-d5	2160	µg/kg		3333		64.7	47-100			
Surr: Phenol-d6	2500	µg/kg		3333		74.9	49-110			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2319451-002
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 11/06/25 13:03**Prep Date:** 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	981	µg/kg	33.0	1333		73.6	57-101			
1,2,4,5-Tetrachlorobenzene	971	µg/kg	333	1333		72.8	54-98			
1-Methylnaphthalene	971	µg/kg	6.67	1333		72.8	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	948	µg/kg	33.0	1333		71.1	50-101			
2,3,4,6-Tetrachlorophenol	1070	µg/kg	67.0	1333		80.1	48-103			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516060
Date Collected: NA
Date Received: NA
Run ID: 3667671

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2319451-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 13:03

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1010	µg/kg	33.0	1333		75.9	54-98			
2,4,6-Trichlorophenol	988	µg/kg	33.0	1333		74.1	56-97			
2,4-Dichlorophenol	929	µg/kg	33.0	1333		69.7	54-99			
2,4-Dimethylphenol	1010	µg/kg	33.0	1333		76.0	47-102			
2,4-Dinitrophenol	850	µg/kg	333	1333		63.8	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1020	µg/kg	33.0	1333		76.8	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1010	µg/kg	33.0	1333		75.4	62-103			
2-Chloronaphthalene	957	µg/kg	6.67	1333		71.8	57-101			
2-Chlorophenol	973	µg/kg	33.0	1333		73.0	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	967	µg/kg	33.0	1333		72.5	42-104			
2-Methylnaphthalene	955	µg/kg	6.67	1333		71.6	55-102			
2-Methylphenol (o-Cresol)	994	µg/kg	33.0	1333		74.6	54-103			
2-Nitroaniline	963	µg/kg	33.0	1333		72.2	57-103			
2-Nitrophenol	976	µg/kg	33.0	1333		73.2	52-102			
3&4-Methylphenol	960	µg/kg	33.0	1333		72.0	56-103			
3,3'-Dichlorobenzidine	773	µg/kg	167	1333		58.0	41-91			
3-Nitroaniline	737	µg/kg	33.0	1333		55.3	35-107			
4-Bromophenyl phenyl ether (BDE-3)	987	µg/kg	33.0	1333		74.0	63-104			
4-Chloro-3-methylphenol	986	µg/kg	33.0	1333		74.0	57-103			
4-Chloroaniline	1000	µg/kg	67.0	1333		75.0	32-99			
4-Chlorophenyl phenylether	1010	µg/kg	33.0	1333		75.7	62-100			
4-Nitroaniline	689	µg/kg	167	1333		51.7	19-124			
4-Nitrophenol	1030	µg/kg	333	1333		77.0	44-106			
Acenaphthene	972	µg/kg	6.67	1333		72.9	60-101			
Acenaphthylene	999	µg/kg	6.67	1333		75.0	59-101			
Acetophenone	948	µg/kg	33.0	1333		71.1	54-102			
Anthracene	997	µg/kg	6.67	1333		74.8	63-96			
Atrazine	1890	µg/kg	33.0	1333		142	60-110			S
Benzaldehyde	371	µg/kg	67.0	1333		27.8	10-143			
Benzo(a)anthracene	1030	µg/kg	6.67	1333		77.3	66-102			
Benzo(a)pyrene	1040	µg/kg	6.67	1333		78.3	66-105			
Benzo(b)fluoranthene	1030	µg/kg	6.67	1333		77.5	67-105			
Benzo(g,h,i)perylene	1030	µg/kg	6.67	1333		77.2	59-110			
Benzo(k)fluoranthene	1040	µg/kg	6.67	1333		78.0	68-106			
bis(2-Chloroethoxy)methane	948	µg/kg	33.0	1333		71.1	54-102			
bis(2-Chloroethyl) ether	953	µg/kg	33.0	1333		71.5	51-101			
Butyl benzyl phthalate	1010	µg/kg	67.0	1333		75.5	59-107			
Caprolactam	921	µg/kg	33.0	1333		69.1	49-103			
Carbazole	989	µg/kg	33.0	1333		74.2	63-103			
Chrysene	1000	µg/kg	6.67	1333		75.2	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1030	µg/kg	33.0	1333		77.6	63-101			
Dibenz(a,h) anthracene	1040	µg/kg	33.0	1333		78.2	61-109			
Dibenzofuran	1000	µg/kg	33.0	1333		75.0	61-101			
Diethyl phthalate	1010	µg/kg	33.0	1333		75.7	63-105			



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516060
Date Collected: NA
Date Received: NA
Run ID: 3667671

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2319451-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 13:03

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Dimethyl phthalate	1000	µg/kg	33.0	1333		75.0	64-104			
Fluoranthene	1010	µg/kg	6.67	1333		75.7	66-105			
Fluorene	1000	µg/kg	6.67	1333		75.1	62-101			
Hexachlorobenzene	989	µg/kg	33.0	1333		74.2	61-104			
Hexachlorobutadiene	972	µg/kg	33.0	1333		72.9	52-99			
Hexachlorocyclopentadiene	800	µg/kg	33.0	1333		60.0	39-106			
Hexachloroethane	981	µg/kg	33.0	1333		73.6	59-99			
Indeno(1,2,3-cd) pyrene	1150	µg/kg	6.67	1333		86.0	57-114			
Isophorone	942	µg/kg	167	1333		70.7	55-101			
Methylphenol, Total	1950	µg/kg	67.0	2667		73.3	54-103			
Naphthalene	974	µg/kg	6.67	1333		73.1	54-99			
Nitrobenzene	925	µg/kg	167	1333		69.4	53-100			
n-Nitrosodi-n-propylamine	955	µg/kg	33.0	1333		71.6	52-104			
N-Nitrosodiphenylamine	981	µg/kg	33.0	1333		73.6	61-104			
Pentachlorophenol	993	µg/kg	33.0	1333		74.5	35-100			
Phenanthrene	998	µg/kg	6.67	1333		74.9	64-101			
Phenol	922	µg/kg	33.0	1333		69.2	51-107			
Pyrene	1040	µg/kg	6.67	1333		77.7	62-114			
Pyridine	797	µg/kg	167	1333		59.8	40-84			
Surr: 2,4,6-Tribromophenol	2480	µg/kg		3333		74.4	48-94			
Surr: 2-Fluorobiphenyl	2320	µg/kg		3333		69.7	50-103			
Surr: 2-Fluorophenol	2330	µg/kg		3333		69.8	43-105			
Surr: 4-Terphenyl-d14	2410	µg/kg		3333		72.2	55-111			
Surr: Nitrobenzene-d5	2120	µg/kg		3333		63.7	47-100			
Surr: Phenol-d6	2300	µg/kg		3333		69.1	49-110			

MS	CLIENT ID: Batch QC	Lab ID: QC-2319451-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 14:06

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	995	µg/kg	34.4	1308.5	<5.41	75.7	57-101			
1,2,4,5-Tetrachlorobenzene	1010	µg/kg	347	1308.5	<7.69	76.8	54-98			
1-Methylnaphthalene	1020	µg/kg	6.94	1308.5	<4.80	77.7	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	967	µg/kg	34.4	1308.5	<7.81	73.9	50-101			
2,3,4,6-Tetrachlorophenol	1050	µg/kg	69.4	1308.5	<24.4	80.1	48-103			
2,4,5-Trichlorophenol	1030	µg/kg	34.4	1308.5	<19.8	79.0	54-98			
2,4,6-Trichlorophenol	1110	µg/kg	34.4	1308.5	<8.87	84.9	56-97			
2,4-Dichlorophenol	971	µg/kg	34.4	1308.5	<17.9	74.2	54-99			
2,4-Dimethylphenol	1020	µg/kg	34.4	1308.5	<17.1	77.9	47-102			
2,4-Dinitrophenol	382	µg/kg	347	1308.5	<244	29.2	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1060	µg/kg	34.4	1308.5	<21.6	81.3	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1050	µg/kg	34.4	1308.5	<8.51	80.1	62-103			
2-Chloronaphthalene	1020	µg/kg	6.94	1308.5	<4.66	77.9	57-101			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516060
Date Collected: NA
Date Received: NA
Run ID: 3667671

MS	CLIENT ID: Batch QC	Lab ID: QC-2319451-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 14:06

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2-Chlorophenol	971	µg/kg	34.4	1308.5	<21.8	74.2	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	917	µg/kg	34.4	1308.5	<27.8	70.1	42-104			
2-Methylnaphthalene	974	µg/kg	6.94	1308.5	<3.39	74.4	55-102			
2-Methylphenol (o-Cresol)	995	µg/kg	34.4	1308.5	<9.01	76.1	54-103			
2-Nitroaniline	1010	µg/kg	34.4	1308.5	<18.5	77.2	57-103			
2-Nitrophenol	1020	µg/kg	34.4	1308.5	<9.50	77.6	52-102			
3&4-Methylphenol	978	µg/kg	34.4	1308.5	<18.2	74.8	56-103			
3,3'-Dichlorobenzidine	861	µg/kg	174	1308.5	<15.6	65.8	41-91			
3-Nitroaniline	739	µg/kg	34.4	1308.5	<19.4	56.5	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1020	µg/kg	34.4	1308.5	<18.3	78.3	63-104			
4-Chloro-3-methylphenol	1000	µg/kg	34.4	1308.5	<9.50	76.6	57-103			
4-Chloroaniline	1010	µg/kg	69.4	1308.5	<16.9	76.9	32-99			
4-Chlorophenyl phenylether	1050	µg/kg	34.4	1308.5	<9.21	80.5	62-100			
4-Nitroaniline	589	µg/kg	174	1308.5	<51.7	45.0	19-124			
4-Nitrophenol	1090	µg/kg	347	1308.5	<78.1	83.0	44-106			
Acenaphthene	1020	µg/kg	6.94	1308.5	<4.82	77.8	60-101			
Acenaphthylene	1030	µg/kg	6.94	1308.5	<5.78	79.0	59-101			
Acetophenone	946	µg/kg	34.4	1308.5	<5.22	72.3	54-102			
Anthracene	1030	µg/kg	6.94	1308.5	<4.70	78.9	63-96			
Atrazine	<19.5	µg/kg	34.4	1308.5	<19.5	0.00	60-110			SU
Benzaldehyde	350	µg/kg	69.4	1308.5	<51.2	26.8	10-143			
Benzo(a)anthracene	1050	µg/kg	6.94	1308.5	<5.76	80.2	66-102			
Benzo(a)pyrene	1080	µg/kg	6.94	1308.5	<4.09	82.9	66-105			
Benzo(b)fluoranthene	1090	µg/kg	6.94	1308.5	<4.97	83.1	67-105			
Benzo(g,h,i)perylene	1070	µg/kg	6.94	1308.5	<5.11	82.0	59-110			
Benzo(k)fluoranthene	1080	µg/kg	6.94	1308.5	<5.05	82.2	68-106			
bis(2-Chloroethoxy)methane	967	µg/kg	34.4	1308.5	<21.1	73.9	54-102			
bis(2-Chloroethyl) ether	965	µg/kg	34.4	1308.5	<9.44	73.7	51-101			
Butyl benzyl phthalate	1050	µg/kg	69.4	1308.5	<41.7	80.3	59-107			
Caprolactam	973	µg/kg	34.4	1308.5	<30.1	74.4	49-103			
Carbazole	1020	µg/kg	34.4	1308.5	<9.82	78.1	63-103			
Chrysene	1050	µg/kg	6.94	1308.5	<5.69	80.6	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1070	µg/kg	34.4	1308.5	32.5	79.7	63-101			
Dibenz(a,h) anthracene	1070	µg/kg	34.4	1308.5	<3.60	82.1	61-109			
Dibenzofuran	1040	µg/kg	34.4	1308.5	<4.90	79.5	61-101			
Diethyl phthalate	1030	µg/kg	34.4	1308.5	<11.3	78.7	63-105			
Dimethyl phthalate	1030	µg/kg	34.4	1308.5	<6.50	78.8	64-104			
Fluoranthene	1050	µg/kg	6.94	1308.5	<3.20	80.2	66-105			
Fluorene	1040	µg/kg	6.94	1308.5	<4.84	79.6	62-101			
Hexachlorobenzene	1020	µg/kg	34.4	1308.5	<9.70	77.8	61-104			
Hexachlorobutadiene	987	µg/kg	34.4	1308.5	<7.85	75.4	52-99			
Hexachlorocyclopentadiene	887	µg/kg	34.4	1308.5	<32.6	67.8	39-106			
Hexachloroethane	969	µg/kg	34.4	1308.5	<13.8	74.1	59-99			
Indeno(1,2,3-cd) pyrene	1180	µg/kg	6.94	1308.5	<4.64	90.5	57-114			



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516060
Date Collected: NA
Date Received: NA
Run ID: 3667671

MS		CLIENT ID: Batch QC				Lab ID: QC-2319451-005			
Method: EPA 8270E		Dilution: 1		Analysis Date: 11/06/25 14:06		Prep Date: 11/05/25 12:26			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Isophorone	965	µg/kg	174	1308.5	<6.51	73.8	55-101		
Methylphenol, Total	1970	µg/kg	67.0	2618	<9.01	75.4	54-103		
Naphthalene	995	µg/kg	6.94	1308.5	<4.26	76.0	54-99		
Nitrobenzene	961	µg/kg	174	1308.5	<11.2	73.5	53-100		
n-Nitrosodi-n-propylamine	963	µg/kg	34.4	1308.5	<5.50	73.6	52-104		
N-Nitrosodiphenylamine	1030	µg/kg	34.4	1308.5	<19.3	78.5	61-104		
Pentachlorophenol	1090	µg/kg	34.4	1308.5	<26.5	83.1	35-100		
Phenanthrene	1020	µg/kg	6.94	1308.5	<3.10	77.9	64-101		
Phenol	934	µg/kg	34.4	1308.5	<16.7	71.4	51-107		
Pyrene	1090	µg/kg	6.94	1308.5	<3.33	83.0	52-114		
Pyridine	834	µg/kg	174	1308.5	<65.6	63.8	40-84		
Surr: 2,4,6-Tribromophenol	2570	µg/kg		3271.7		78.6	48-94		
Surr: 2-Fluorobiphenyl	2420	µg/kg		3271.7		74.1	50-103		
Surr: 2-Fluorophenol	2380	µg/kg		3271.7		72.7	43-105		
Surr: 4-Terphenyl-d14	2490	µg/kg		3271.7		76.1	55-111		
Surr: Nitrobenzene-d5	2180	µg/kg		3271.7		66.7	47-100		
Surr: Phenol-d6	2360	µg/kg		3271.7		72.2	49-110		

MSD		CLIENT ID: Batch QC				Lab ID: QC-2319451-006			
Method: EPA 8270E		Dilution: 1		Analysis Date: 11/06/25 14:27		Prep Date: 11/05/25 12:26			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
1,1'-Biphenyl (BZ-0)	1020	µg/kg	34.5	1312.7	<5.41	77.2	57-101	2.21	30
1,2,4,5-Tetrachlorobenzene	1010	µg/kg	348	1312.7	<7.69	77.0	54-98	0.580	30
1-Methylnaphthalene	1030	µg/kg	6.96	1312.7	<4.80	78.1	56-100	0.898	30
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	962	µg/kg	34.5	1312.7	<7.81	73.3	50-101	0.428	30
2,3,4,6-Tetrachlorophenol	1040	µg/kg	69.6	1312.7	<24.4	79.4	48-103	0.495	30
2,4,5-Trichlorophenol	1060	µg/kg	34.5	1312.7	<19.8	80.6	54-98	2.26	30
2,4,6-Trichlorophenol	1060	µg/kg	34.5	1312.7	<8.87	80.9	56-97	4.51	30
2,4-Dichlorophenol	973	µg/kg	34.5	1312.7	<17.9	74.1	54-99	0.185	30
2,4-Dimethylphenol	1020	µg/kg	34.5	1312.7	<17.1	77.7	47-102	0.0626	30
2,4-Dinitrophenol	<244	µg/kg	348	1312.7	<244	26.4	10-100	NC	U
2,4-Dinitrotoluene (2,4-DNT)	1060	µg/kg	34.5	1312.7	<21.6	81.0	62-105	0.112	30
2,6-Dinitrotoluene (2,6-DNT)	1050	µg/kg	34.5	1312.7	<8.51	80.1	62-103	0.320	30
2-Chloronaphthalene	1010	µg/kg	6.96	1312.7	<4.66	76.9	57-101	0.972	30
2-Chlorophenol	966	µg/kg	34.5	1312.7	<21.8	73.6	52-102	0.560	30
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	844	µg/kg	34.5	1312.7	<27.8	64.3	42-104	8.32	30
2-Methylnaphthalene	1010	µg/kg	6.96	1312.7	<3.39	76.6	55-102	3.23	30
2-Methylphenol (o-Cresol)	1000	µg/kg	34.5	1312.7	<9.01	76.3	54-103	0.582	30
2-Nitroaniline	1000	µg/kg	34.5	1312.7	<18.5	76.4	57-103	0.657	30
2-Nitrophenol	1030	µg/kg	34.5	1312.7	<9.50	78.7	52-102	1.66	30
3&4-Methylphenol	999	µg/kg	34.5	1312.7	<18.2	76.1	56-103	2.04	30
3,3'-Dichlorobenzidine	846	µg/kg	174	1312.7	<15.6	64.5	41-91	1.75	30

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516060
Date Collected: NA
Date Received: NA
Run ID: 3667671

MSD	CLIENT ID: Batch QC	Lab ID: QC-2319451-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 14:27

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
3-Nitroaniline	690	µg/kg	34.5	1312.7	<19.4	52.6	35-107	6.92	30	
4-Bromophenyl phenyl ether (BDE-3)	1020	µg/kg	34.5	1312.7	<18.3	77.8	63-104	0.321	30	
4-Chloro-3-methylphenol	1020	µg/kg	34.5	1312.7	<9.50	77.5	57-103	1.49	30	
4-Chloroaniline	1030	µg/kg	69.6	1312.7	<16.9	78.2	32-99	1.93	30	
4-Chlorophenyl phenylether	1060	µg/kg	34.5	1312.7	<9.21	80.4	62-100	0.258	30	
4-Nitroaniline	571	µg/kg	174	1312.7	<51.7	43.5	19-124	3.19	30	
4-Nitrophenol	1100	µg/kg	348	1312.7	<78.1	83.5	44-106	0.981	30	
Acenaphthene	1010	µg/kg	6.96	1312.7	<4.82	77.3	60-101	0.390	30	
Acenaphthylene	1050	µg/kg	6.96	1312.7	<5.78	80.1	59-101	1.64	30	
Acetophenone	980	µg/kg	34.5	1312.7	<5.22	74.7	54-102	3.52	30	
Anthracene	1060	µg/kg	6.96	1312.7	<4.70	81.0	63-96	2.95	30	
Atrazine	<19.5	µg/kg	34.5	1312.7	<19.5	0.00	60-110			SU
Benzaldehyde	320	µg/kg	69.6	1312.7	<51.2	24.4	10-143	9.07	30	
Benzo(a)anthracene	1050	µg/kg	6.96	1312.7	<5.76	79.9	66-102	0.0551	30	
Benzo(a)pyrene	1100	µg/kg	6.96	1312.7	<4.09	84.2	66-105	1.88	30	
Benzo(b)fluoranthene	1070	µg/kg	6.96	1312.7	<4.97	81.9	67-105	1.20	30	
Benzo(g,h,i)perylene	1080	µg/kg	6.96	1312.7	<5.11	82.0	59-110	0.259	30	
Benzo(k)fluoranthene	1120	µg/kg	6.96	1312.7	<5.05	85.4	68-106	4.14	30	
bis(2-Chloroethoxy)methane	962	µg/kg	34.5	1312.7	<21.1	73.3	54-102	0.428	30	
bis(2-Chloroethyl) ether	993	µg/kg	34.5	1312.7	<9.44	75.6	51-101	2.87	30	
Butyl benzyl phthalate	1050	µg/kg	69.6	1312.7	<41.7	79.7	59-107	0.368	30	
Caprolactam	1010	µg/kg	34.5	1312.7	<30.1	76.6	49-103	3.24	30	
Carbazole	1030	µg/kg	34.5	1312.7	<9.82	78.4	63-103	0.703	30	
Chrysene	1070	µg/kg	6.96	1312.7	<5.69	81.2	66-105	1.06	30	
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1090	µg/kg	34.5	1312.7	32.5	80.7	63-101	1.47	30	
Dibenz(a,h) anthracene	1080	µg/kg	34.5	1312.7	<3.60	82.4	61-109	0.685	30	
Dibenzofuran	1040	µg/kg	34.5	1312.7	<4.90	79.4	61-101	0.194	30	
Diethyl phthalate	1050	µg/kg	34.5	1312.7	<11.3	80.2	63-105	2.15	30	
Dimethyl phthalate	1050	µg/kg	34.5	1312.7	<6.50	80.3	64-104	2.14	30	
Fluoranthene	1060	µg/kg	6.96	1312.7	<3.20	81.1	66-105	1.50	30	
Fluorene	1040	µg/kg	6.96	1312.7	<4.84	79.2	62-101	0.184	30	
Hexachlorobenzene	1000	µg/kg	34.5	1312.7	<9.70	76.2	61-104	1.82	30	
Hexachlorobutadiene	970	µg/kg	34.5	1312.7	<7.85	73.9	52-99	1.76	30	
Hexachlorocyclopentadiene	850	µg/kg	34.5	1312.7	<32.6	64.7	39-106	4.36	30	
Hexachloroethane	959	µg/kg	34.5	1312.7	<13.8	73.1	59-99	1.04	30	
Indeno(1,2,3-cd) pyrene	1200	µg/kg	6.96	1312.7	<4.64	91.2	57-114	1.09	30	
Isophorone	989	µg/kg	174	1312.7	<6.51	75.3	55-101	2.40	30	
Methylphenol, Total	2000	µg/kg	67.0	2626.3	<9.01	76.1	54-103	1.31	30	
Naphthalene	967	µg/kg	6.96	1312.7	<4.26	73.7	54-99	2.82	30	
Nitrobenzene	945	µg/kg	174	1312.7	<11.2	72.0	53-100	1.74	30	
n-Nitrosodi-n-propylamine	1010	µg/kg	34.5	1312.7	<5.50	77.3	52-104	5.22	30	
N-Nitrosodiphenylamine	1020	µg/kg	34.5	1312.7	<19.3	77.5	61-104	0.963	30	
Pentachlorophenol	1040	µg/kg	34.5	1312.7	<26.5	79.4	35-100	4.30	30	
Phenanthrene	1010	µg/kg	6.96	1312.7	<3.10	76.7	64-101	1.17	30	
Phenol	999	µg/kg	34.5	1312.7	<16.7	76.1	51-107	6.69	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516060
Date Collected: NA
Date Received: NA
Run ID: 3667671

MSD	CLIENT ID: Batch QC	Lab ID: QC-2319451-006
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Method: EPA 8270E **Dilution:** 1 **Analysis Date:** 11/06/25 14:27

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Pyrene	1070	µg/kg	6.96	1312.7	<3.33	81.8	52-114	1.14	30	
Pyridine	809	µg/kg	174	1312.7	<65.6	61.6	40-84	3.11	30	
Surr: 2,4,6-Tribromophenol	2520	µg/kg		3282.2		76.8	48-94	2.05	30	
Surr: 2-Fluorobiphenyl	2370	µg/kg		3282.2		72.2	50-103	2.17	30	
Surr: 2-Fluorophenol	2330	µg/kg		3282.2		71.0	43-105	2.05	30	
Surr: 4-Terphenyl-d14	2520	µg/kg		3282.2		76.9	55-111	1.34	30	
Surr: Nitrobenzene-d5	2160	µg/kg		3282.2		65.8	47-100	1.10	30	
Surr: Phenol-d6	2380	µg/kg		3282.2		72.6	49-110	0.872	30	

The following samples were analyzed in this batch: HN2516060-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2334132

Work Order: HN2516060
Date Collected: NA
Date Received: NA
Run ID: 3686395

TCLP Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2334132-001
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Method: EPA 8081B

Dilution: 1

Analysis Date: 11/13/25 16:53

Prep Date: 11/13/25 12:25

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlordane, Technical	<0.0340	µg/L	0.500	0		NC	0-0			U
Endrin	<0.00851	µg/L	0.0100	0		NC	0-0			U
gamma-BHC (Lindane)	<0.00832	µg/L	0.0100	0		NC	0-0			U
Heptachlor	<0.00760	µg/L	0.0100	0		NC	0-0			U
Heptachlor epoxide	<0.00796	µg/L	0.0100	0		NC	0-0			U
Methoxychlor	<0.00989	µg/L	0.0100	0		NC	0-0			U
Toxaphene	<0.110	µg/L	2.00	0		NC	0-0			U
Surr: Decachlorobiphenyl	0.281	µg/L		0.25		112	0.42-148			
Surr: Tetrachloro-m-xylene	0.137	µg/L		0.25		54.8	57-141			S

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2334132-002
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Method: EPA 8081B

Dilution: 1

Analysis Date: 11/13/25 17:05

Prep Date: 11/13/25 12:25

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Endrin	0.195	µg/L	0.0100	0.2		97.5	43-176			
gamma-BHC (Lindane)	0.199	µg/L	0.0100	0.2		99.4	63-158			
Heptachlor	0.168	µg/L	0.0100	0.2		84.2	47-166			
Heptachlor epoxide	0.202	µg/L	0.0100	0.2		101	63-164			
Methoxychlor	0.169	µg/L	0.0100	0.2		84.3	36-176			
Surr: Decachlorobiphenyl	0.275	µg/L		0.25		110	42-148			
Surr: Tetrachloro-m-xylene	0.201	µg/L		0.25		80.6	57-141			

DLCS	CLIENT ID: Laboratory Control Sample Duplicate	Lab ID: QC-2334132-003
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Method: EPA 8081B

Dilution: 1

Analysis Date: 11/13/25 17:16

Prep Date: 11/13/25 12:25

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Endrin	0.197	µg/L	0.0100	0.2		98.4	43-176	0.919	20	
gamma-BHC (Lindane)	0.197	µg/L	0.0100	0.2		98.6	63-158	0.808	20	
Heptachlor	0.174	µg/L	0.0100	0.2		87.1	47-166	3.39	20	
Heptachlor epoxide	0.202	µg/L	0.0100	0.2		101	63-164	0.00	20	
Methoxychlor	0.169	µg/L	0.0100	0.2		84.7	36-176	0.473	20	
Surr: Decachlorobiphenyl	0.267	µg/L		0.25		107	42-148	3.10	30	
Surr: Tetrachloro-m-xylene	0.178	µg/L		0.25		71.4	57-141	12.1	30	

The following samples were analyzed in this batch: HN2516060-001



right solutions.
right partner.

December 11, 2025

Ryan Montri
The Mannik & Smith Group, Inc.
2365 Haggerty Road South
Suite 100
Canton, MI 48188

Re: **4009 Pingree**

Date Received: **12/06/2025**

Work Order: **HN2518407**

Dear Ryan,

Enclosed are the results of the sample(s) submitted to our laboratory.

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.

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

Kathy Jones-Gronda

/S/ KATHY JONES-GRONDA

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree

Work Order: HN2518407
Date Received: 06-Dec-2025

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt

1 soil/solid sample was received for analysis at ALS Environmental on 06-Dec-2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

WorkOrder: HN2518407

Soil/solid results are reported on a dry-weight basis, corrected using laboratory-determined percent moisture content, unless explicitly identified otherwise.

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Workorder: HN2518407

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2518407-001	4009 Pingree SB02 (5-6') TCLP	SOIL/SOLID	12/05/25 11:15	12/06/25 08:00



ALS Environmental

Chain of Custody Form

Laboratory location:

Page _____ of _____

Customer Information		Project Information					Parameter/Method Request for Analysis										
Purchase Order		Project Name	4009 Pingree			A	TCLP Lead										
Work Order	Quote ID - 11631	Project Number	DETR0060			B											
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group			C											
Send Report To	Ryan Montri	Invoice Attn.				D											
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road			E											
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188			F											
Phone	734-397-3100	Phone	734-397-3100			G											
Fax		Fax				H											
e-Mail Address	montri@manniksmithgroup.com	e-Mail Address	omitchell@manniksmithgroup.com			I											
						J											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	4009 Pingree SB02 (5-6') TCLP	12/5/25	11:15	Soil	-	1	X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:		Results Due Date:											
Shannon Kacemenek 12/5/25				☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		12/6/25 0800											
Relinquished by:	Date:	Time:	Received by:	Notes:													
Shannon Kacemenek	12/5/25	1335		QS → Alyssa B													
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp.		QC Package: (Check Box Below)											
	12/5/25	172		3.1C		☐ Level II: Standard QC ☐ TRRP-Checklist											
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):			☐ Level III: Std QC + Raw Data ☐ TRRP Level IV											
	12/6/25	1140				☐ Level IV: SW846 CLP-Like											
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035						Other: _____											

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Please click the link below for detailed Terms & Conditions:

<https://www.alsglobal.com/ALSGroupUSACorpTC>

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ALS Holland
3352 128th Ave., Holland MI 49424

ALS Holland Sample Receiving Checklist

Received by: Chapman

Date/Time: 12/6/25 0800

Carrier Name: QS

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

COC signed when relinquished and received? (Yes) / No

COC 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

Temperature(s) (°C): 3.1c/3.1c

Thermometer(s): 1R6

Sample(s) received on ice? (Yes) / No

Matrix/Matrices: soil

Cooler(s)/Kit(s): 1 cooler

Date/Time sample(s) sent to storage: 12/6/25 1140

Water – VOA vials have zero headspace? Yes / No / (No Vials)

Water – pH acceptable upon receipt? Yes / No / (N/A)

pH strip lot #: < 2 > 12 Other

pH adjusted (note adjustments below)? Yes / No / (N/A)

pH adjusted by:

Login Notes:

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HN-SHT-160-R01, Sample Receipt Checklist

REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit (if MCL displayed)
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
J	Analyte is present at an estimated concentration between the MDL and Report Limit
NC	Not Calculated
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
V	The Continuing Calibration Verification was outside of control criteria
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.

Holland Laboratory Certifications¹

Agency	Type	ID	Issued	Expires
Alabama	Drinking Water (Secondary)	42500	12/17/2024	12/31/2025
Colorado	UST		07/01/2025	06/30/2026
Connecticut	Drinking Water (Secondary)	PH-0155	12/10/2024	12/31/2026
Florida	NELAP (Primary)	E871106	07/01/2025	06/30/2026
Illinois	NELAP (Secondary)	200076	11/14/2024	12/31/2025
Indiana	Drinking Water (Secondary)	C-MI-08	12/31/2024	09/04/2026
Iowa	State Specific	403	09/01/2025	09/01/2027
Kansas	NELAP (Secondary)	E-10411	08/01/2025	07/31/2026
Kentucky	Waste Water	KY98004	12/20/2024	12/31/2025
Kentucky	UST	120474	07/07/2025	06/30/2026
Michigan	Drinking Water (Primary)	0022	12/19/2023	09/04/2026
Minnesota	NELAP (Secondary)	026-999-449	12/17/2024	12/31/2025
Missouri	Drinking Water (Secondary)	01262	11/14/2024	12/30/2027
New Jersey	NELAP (Secondary)	MI015	07/01/2025	6/30/2026
New York	NELAP (Secondary)	12128	04/01/2025	04/01/2026
North Dakota	State Specific	R-192	11/18/2024	06/30/2025
Ohio	Drinking Water (Secondary)	87783	06/26/2025	6/30/2026
Pennsylvania	NELAP (Secondary)	68-03827	11/25/2025	07/31/2026
Texas	NELAP (Secondary)	T104704494	02/12/2025	01/31/2026
USDA	Domestic CA	Soil-MI-007	02/06/2025	08/07/2026
USDA	Soil Import	525-23-62-77572	03/03/2023	03/03/2026
West Virginia	State Specific	355	06/07/2025	08/31/2026
Wisconsin	State Specific	399084510	08/08/2025	08/31/2026

¹ - Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree

Work Order: HN2518407

Sample Name: 4009 Pinegree SB02 (5-6') TCLP
Laboratory Code: HN2518407-001
Sample Matrix: SOIL/SOLID

Date Collected: 12/05/25
Date Received: 12/06/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AC	2378097	Chloe Patrick	3757454	Hunter Johnson

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID

Work Order: HN2518407
Date Collected: 12/05/25 11:15
Date Received: 12/06/25 08:00

CLIENT ID: 4009 Pinegree SB02 (5-6') TCLP **Lab ID: HN2518407-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Lead	EPA 6020B	<0.00220	U	mg/L	0.0499	1	12/10/25 18:18	12/10/25 09:56

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4009 Pingree
Matrix: SOIL/SOLID
QC Lot: 2378097

Work Order: HN2518407
Date Collected: NA
Date Received: NA
Run ID: 3757454

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2378097-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 12/10/25 18:15
Prep Date: 12/10/25 09:57

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Lead	<0.00220	mg/L	0.0499							U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2378097-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 12/10/25 18:16
Prep Date: 12/10/25 09:57

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Lead	0.993	mg/L	0.0499	1		99.3	80-120			

MS	CLIENT ID: 4009 Pinegree SB02 (5-6') TCLP	Lab ID: QC-2378097-004
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 12/10/25 18:20
Prep Date: 12/10/25 09:57

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Lead	1.00	mg/L	0.0499	1	0.00505	99.8	75-125			

MSD	CLIENT ID: 4009 Pinegree SB02 (5-6') TCLP	Lab ID: QC-2378097-005
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 12/10/25 18:21
Prep Date: 12/10/25 09:57

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Lead	0.980	mg/L	0.0499	1	0.00505	97.5	75-125	2.36	20	

The following samples were analyzed in this batch: HN2518407-001