

DRAFT

FILL MATERIAL SAMPLING REPORT

4000 FAIRVIEW STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48214



OCTOBER 24, 2025
REVISED DECEMBER 12, 2025

PREPARED FOR:
THE CITY OF DETROIT DEMOLITION DEPARTMENT
1301 THIRD STREET, SUITE 606
DETROIT, MICHIGAN 48226



FILL MATERIAL SAMPLING REPORT

4000 FAIRVIEW STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48214

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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 4000 Fairview 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 4000 SB01, 4000 SB02, and 4000 SB03 generally consisted of four to five feet of brown sand underlain by clay to six feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores ranged from 0.0 to 0.9 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; however, wood debris was observed in 4000 SB03.
- Concentrations of arsenic were detected in soil sample 4000 SB02 (3-4') in excess of its respective Part 201 groundwater surface water interface protection criteria (GSIPC) and drinking water protection criteria (DWPC).
- Concentrations of aldrin, barium, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chromium (Total), copper, fluoranthene, lead, pyrene, and zinc were detected in soil samples 4000 SB01 (1-2'), 4000 SB02 (3-4'), and/or 4000 SB03 (5-6') 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 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*.
- VOCs, PCBs, and chloride 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.

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.

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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 4000 Fairview 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 September 3, 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); semi-volatile 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 September 3, 2025, and October 13, 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) soil borings, designated 4000 SB01, 4000 SB02, and 4000 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 13, 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.

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 three (3) soil samples designated 4000 SB01 (1-2'), 4000 SB02 (3-4'), and 4000 SB03 (5-6'), and one (1) composite soil sample designated 4000 Fairview SB02 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 September 3, 2025, and October 13, 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 4000 SB01, 4000 SB02, and 4000 SB03 generally consisted of four to five feet of brown sand underlain by clay to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 0.9 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

Three (3) soil samples, designated 4000 SB01 (1-2'), 4000 SB02 (3-4'), and 4000 SB03 (5-6'), were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and 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	4000 SB02 (3-4')	GSIPC ² / 4,600 DWPC ³ / 4,600	6,500

¹µg/kg – micrograms per kilogram;

²GSIPC – Groundwater Surface Water Interface Protection Criteria

³DWPC – Drinking Water Protection Criteria

4.3 TCLP Analytical Results

Arsenic was 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.

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 4000 SB01, 4000 SB02, and 4000 SB03 generally consisted of four to five feet of brown sand underlain by clay to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 0.9 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, wood debris was observed in 4000 SB03.
- Concentrations of arsenic were detected in soil sample 4000 SB02 (3-4') in excess of its respective Part 201 GSIPC and DWPC.
- Concentrations of aldrin, barium, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chromium (Total), copper, fluoranthene, lead, pyrene, and zinc were detected in soil samples 4000 SB01 (1-2'), 4000

SB02 (3-4'), and/or 4000 SB03 (5-6') at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.

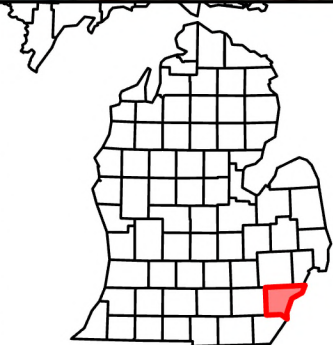
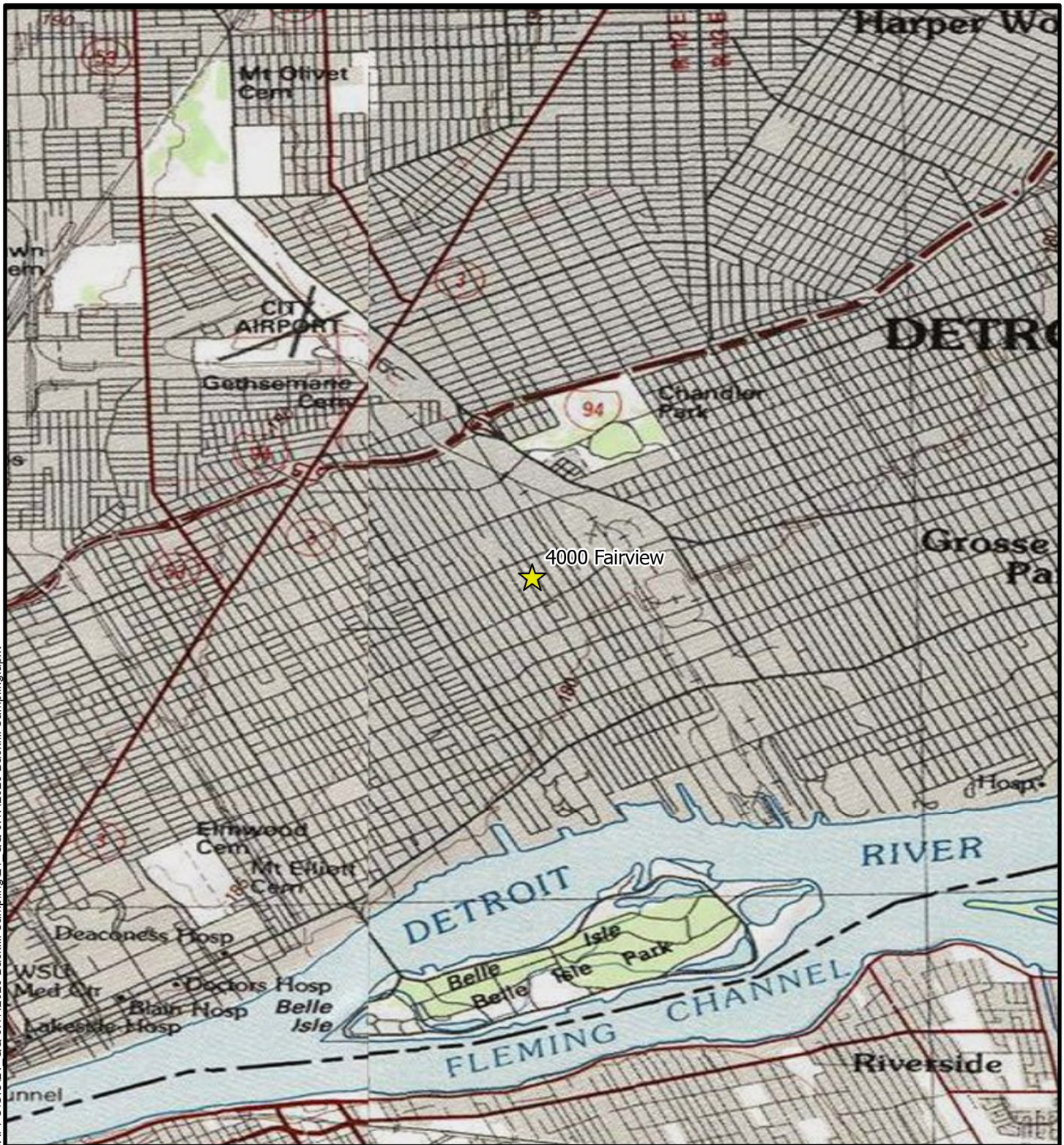
- TCLP laboratory analytical results revealed that concentrations of arsenic were not in excess of 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste.
- VOCs, PCBs, and chloride 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.

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





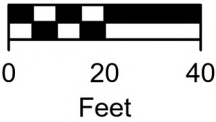
★ Site Location



FIGURE 1
SITE LOCATION

4000 Fairview, Detroit, MI

DATE 9/23/2025	DRAWN BY JWW	DESIGNED BY JWW	PROJECT NO. DETRO060
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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

4000 Fairview, 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
4000 Fairview, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 Units: µg/kg			Volatile Organic Compounds (VOCs)	Semivolatile Organic Compounds (SVOCs)					Michigan 10 Metals										Pesticides/ Herbicides	Polychlorinated Biphenyls (PCBs)	Inorganic Anions/Ions	
				Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(a)pyrene	Fluoranthene	Pyrene	Arsenic	Barium (B)	Cadmium (B)	Chromium (Total)	Copper (B)	Lead (B)	Mercury (B,Z)	Selenium (B)	Silver (B)	Zinc (B)	Aldrin		Chloride	
CAS Number				56-55-3	205-99-2	50-32-8	206-44-0	129-00-0	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	309002		16887006	
Statewide Default Background Levels				NA	NA	NA	NA	NA	5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000	NA	NA		
Drinking Water Protection Criteria (DWPC)				NLL	NLL	NLL	7.3E+05	4.8E+05	4,600	1.3E+06	6,000	30,000	5.8E+06	7.0E+05	1,700	4,000	4,500	2.4E+06	NLL	5.00E+06		
Groundwater Surface Water Interface Protection Criteria (GSIPC)				NLL	NLL	NLL	5,500	ID	4,600	(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27	(G)	NLL	(X)		
Soil Volatilization to Indoor Air Inhalation (SVIIC)				NLV	ID	NLV	1.0E+09 (D)	1.0E+09 (D)	NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV	1.3E+06	NLV		
Soil Volatilization to Indoor Air Pathway (SVIAP)				1.6E+05 (MM)	NA	NA	NA	2.5E+07	NA	NA	NA	--	NA	NA	22 (M)	NA	NA	NA	520	--		
Infinite Source Volatile Soil Inhalation Criteria (VSIC)				NLV	ID	NLV	7.4E+08	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	58,000	NLV		
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)				NLV	ID	NLV	7.4E+08	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	58,000	NLV		
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)				NLV	ID	NLV	7.4E+08	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	58,000	NLV		
Particulate Soil Inhalation Criteria (PSIC)				ID	ID	1.5E+06	9.3E+09	6.7E+09	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	6.4E+05	ID		
Direct Contact Criteria (DCC)				20,000	20,000	2,000	4.6E+07	2.9E+07	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	1,000	5.0E+5 (F)		
Soil Saturation Concentration Screening Levels (C _{sat})				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Recommended Interim Action Screening Level (RIASL)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7E-02	NA	NA	NA	NA	--		
SAMPLE ID		DEPTH	SAMPLE DATE																			
4000 SB01		1-2	9/3/2025	ND	<6.96	<6.96	<6.96	<6.96	<6.96	<3,180	10,100	<1,270	4,680	6,390	3,310	<20.0	<3,180	<3,180	20,200	<10.1	ND	<10,800
4000 SB02		3-4	9/3/2025	ND	22.0	25.7	22.0	38.6	31.2	6,500	42,000	<1,460	11,000	12,800	12,700	<22.5	<3,650	<3,650	39,000	63.7	ND	<12,200
4000 SB03		5-6	9/3/2025	ND	<20.2	<20.2	<20.2	<20.2	<20.2	4,210	58,500	<1,280	16,400	13,000	7,440	<20.0	<3,200	<3,200	51,300	<24.8	ND	<12,800

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
4000 Fairview, 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
Maximum Concentration of Contaminants for the Toxicity Characteristic		5.00
SAMPLE ID	SAMPLE DATE	
4000 Fairview SB02 TCLP	10/13/2025	<0.00190

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: <u>09/03/2025</u>	Day: <u>Wednesday</u>	Temp: <u>70 ° F</u> (AM) <u>N/A</u> (PM)
MSG Personnel: <u>SRK, BM, OM</u>	Cloud Cover: <u>0%</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>~ 1 hours</u>		

Contractors Information		
Contractor: <u>MSG</u>	No. Men and Type: <u>3; Operator/Geologist</u>	Equipment Type: <u>Geoprobe 7822DT</u>

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:
1052 – MSG (SRK, BM, OM) onsite (4000 Fairview Street) 1055 – Marked out boring locations. Unloaded and prepared equipment. 1102 – Began drilling SB01 1104 – Finished drilling SB01 1106 – Began drilling SB02 1108 – Finished drilling SB02 1110 – Began drilling SB03 1112 – Finished drilling SB03 1112 – Sampled 4000 SB01 (1-2') 1120 – Sampled 4000 SB02 (3-4') 1133 – Sampled 4000 SB03 (5-6') 1135 – Packed up equipment 1145 – 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
<u>N/A</u>
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: 10/13/2025	Day: Monday	Temp: 60 ° F	(AM)	N/A	(PM)
MSG Personnel: SRK, JF		Cloud Cover: 0%	(AM)	N/A	(PM)
		Precip.: N/A	(AM)	N/A	(PM)
Personnel: MSG					
MSG Hours On-Site: ~ 1 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:					
1136 – MSG (SRK, JF) onsite (4000 Fairview) 1138 – Attempted to locate previous boring locations. Marked out new boring location. 1151 – Began drilling SB02 TCLP 1153 – Finished drilling SB02 TCLP 1200 – Sampled 4000 Fairview SB02 TCLP 1210 – Collected GPS points 1220 – Packed up equipment 1225 – 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 ☒
				Field Note Book Taken	Yes ☒
Problem Identification and Corrective Measures					
N/A					
Resolved? Yes ☐ No ☐					

APPENDIX C

INVESTIGATION PHOTOGRAPHS





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



Photo 2: View of Site at the time of initial soil boring activities.



Photo 3: View of Site at the time of TCLP soil boring activities.



Photo 4: View of TCLP soil boring location.



Photo 5: View of soil recovery at the time of TCLP sampling.



Photo 6: View of Site at the time of TCLP soil boring activities.

APPENDIX D

SOIL BORING LOGS





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

BORING ID: SB01

PAGE 1 OF 1

CLIENT <u>City of Detroit</u>	PROJECT NAME <u>4000 Fairview</u>
PROJECT NUMBER <u>DETR0060</u>	PROJECT LOCATION <u>4000 Fairview St, Detroit, Michigan</u>
DATE STARTED <u>9/3/25</u> COMPLETED <u>9/3/25</u>	BORING DIAMETER: <u>3.25 inches</u>
DRILLING CONTRACTOR <u>MSG</u>	SURVEY COORDINATES: <u>N/A</u>
DRILLING METHOD <u>Direct Push</u>	GROUND SURFACE ELEV.: <u>N/A</u>
LOGGED BY <u>SRK</u> CHECKED BY <u>PDH</u>	GROUND WATER ENCOUNTERED DURING DRILLING: <u>Not Encountered</u>
NOTES	WATER LEVEL AFTER DRILLING: <u>N/A</u>

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 9/8/25 13:55 - W:\PROJECTS\PROJECTS A-EIDETRO060\ADMIN\24 QQ 7.25.2025 BACKFILL SAMPLING (8 SITES)\4000 FAIRVIEW\BORING LOGS\DETR0060_4000.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Brown SAND, trace gravel, dry	0.9		
						0.0		Collected soil sample 4000 SB01 (1-2) at 11:12
						0.0		
						0.0		
					Becomes moist at 4 feet bgs	0.0		
5				5.0		0.0		
					Gray and Orange Mottled CLAY	0.0		
				6.0		0.0		
					Bottom of borehole at 6.0 feet.			



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

BORING ID: SB02

PAGE 1 OF 1

CLIENT	City of Detroit	PROJECT NAME	4000 Fairview
PROJECT NUMBER	DETR0060	PROJECT LOCATION	4000 Fairview St, Detroit, Michigan
DATE STARTED	9/3/25	COMPLETED	9/3/25
BORING DIAMETER:	3.25 inches		
DRILLING CONTRACTOR	MSG		
SURVEY COORDINATES:	N/A		
DRILLING METHOD	Direct Push		
GROUND SURFACE ELEV.:	N/A		
LOGGED BY	SRK	CHECKED BY	PDH
		GROUND WATER ENCOUNTERED DURING DRILLING:	Not Encountered
NOTES		WATER LEVEL AFTER DRILLING: N/A	

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 9/8/25 13:55 - W:\PROJECTS\PROJECTS A-EIDETRO060\ADMIN\24 QQ 7.25.2025 BACKFILL SAMPLING (8 SITES)\4000 FAIRVIEW\BORING LOGS\DETR0060_4000.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Brown SAND, trace gravel, dry	0.4		
						0.0		
						0.0		
	MC 1	2.5		4.0		0.0		
					Gray and Orange Mottled CLAY, trace gravel, moist	0.0		Collected soil sample 4000 SB02 (3-4) at 11:20
5						0.0		
				6.0		0.0		
					Bottom of borehole at 6.0 feet.	0.0		

APPENDIX E
LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

CERTIFICATE OF ANALYSIS

Work Order

HN2512728

Client

The Mannik & Smith Group, Inc.

Project

4000_Fairview

Project Date

September 04, 2025

Reporting Contact

Ryan Montri



right solutions.
right partner.

September 22, 2025

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

Re: **4000_Fairview**

Date Received: **09/04/2025**

Work Order: **HN2512728**

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: 4000_Fairview

Work Order: HN2512728
Date Received: 04-Sep-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 04-Sep-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.

Organics

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

Run ID: 3484265

The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: 1,1,2,2-tetrachloroethane, chloroethane

The MS recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary: see qc

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): 1,1,2,2-tetrachloroethane, chloroethane

The MSD recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary. see qc

EPA 8081B-3546-S (High)

Run ID: 3498906

QC-2211933-005: The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: See QC

QC-2211933-001: One or more surrogate recoveries were above the upper control limits. The sample was non-detect, therefore, no qualification is needed.

QC-2211933-006: 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): See QC

QC-2212333-005: The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Methoxychlor

QC-2212333-006: The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Methoxychlor

QC-2211933-002, QC-2212333-002: 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: Methoxychlor

QC-2211933-005: The MSD was not spiked with surrogate. However, surrogate recoveries for the MS and LCS were in control.

Metals

EPA 6020B-3050B-S

Run ID: 3477883

The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte:Pb batch 2206881

The concentration in the Method Blank was greater than the quantitation limit. Positive results in the batch may be biased high for this analyte:Cu batch 2206881

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:Zn batch 2206881

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):Pb batch 2206881

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:Zn batch 2206881

HN2512728-001: Copper - The concentration in the Method Blank was greater than the quantitation limit. The sample result was greater than 10x the concentration in the Method Blank; therefore, no qualification is necessary for this analyte:Cu

HN2512728-001: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes.As, Cd Se Ag

HN2512728-002: Copper - The concentration in the Method Blank was greater than the quantitation limit. The sample result was greater than 10x the concentration in the Method Blank; therefore, no qualification is necessary for this analyte:Cu

HN2512728-002: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes.As, Cd Se Ag

HN2512728-003: Copper - The concentration in the Method Blank was greater than the quantitation limit. The sample result was greater than 10x the concentration in the Method Blank; therefore, no qualification is necessary for this analyte:Cu

HN2512728-003: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes.As, Cd Se Ag

Inorganics

EPA 9056A-S (High)

Run ID: 3468479

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

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

The LCS recovery was above the upper control limit. The sample results for this batch may be biased high for this analyte: Fluoride

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: 4000 SB01 (1-2)	Lab ID: HN2512728-001
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Analyte	Results	Flag	MRL	Units	Method
Barium	10.1	B	3.18	mg/kg	EPA 6020B
Chromium	4.68		3.18	mg/kg	EPA 6020B
Copper	6.39		3.18	mg/kg	EPA 6020B
Lead	3.31		3.18	mg/kg	EPA 6020B
Percent Moisture	7.1		0.1	%	EPA 3550C
Zinc	20.2		6.37	mg/kg	EPA 6020B

CLIENT ID: 4000 SB02 (3-4)	Lab ID: HN2512728-002
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Analyte	Results	Flag	MRL	Units	Method
Aldrin	63.7	B	26.7	µg/kg	EPA 8081B
Arsenic	6.50		3.65	mg/kg	EPA 6020B
Barium	42.0		3.65	mg/kg	EPA 6020B
Benzo(a)anthracene	22.0		18.4	µg/kg	EPA 8270E
Benzo(a)pyrene	22.0		18.4	µg/kg	EPA 8270E
Benzo(b)fluoranthene	25.7		18.4	µg/kg	EPA 8270E
Chromium	11.0		3.65	mg/kg	EPA 6020B
Copper	12.8		3.65	mg/kg	EPA 6020B
Fluoranthene	38.6		18.4	µg/kg	EPA 8270E
Lead	12.7		3.65	mg/kg	EPA 6020B
Percent Moisture	18.2		0.1	%	EPA 3550C
Pyrene	31.2		18.4	µg/kg	EPA 8270E
Zinc	39.0		7.31	mg/kg	EPA 6020B

CLIENT ID: 4000 SB03 (5-6)	Lab ID: HN2512728-003
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Analyte	Results	Flag	MRL	Units	Method
Arsenic	4.21	B	3.20	mg/kg	EPA 6020B
Barium	58.5		3.20	mg/kg	EPA 6020B
Chromium	16.4		3.20	mg/kg	EPA 6020B
Copper	13.0		3.20	mg/kg	EPA 6020B
Lead	7.44		3.20	mg/kg	EPA 6020B
Percent Moisture	20.8		0.1	%	EPA 3550C
Zinc	51.3		6.40	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Workorder: HN2512728

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2512728-001	4000 SB01 (1-2)	SOIL/SOLID	09/03/25 11:12	09/04/25 10:00
HN2512728-002	4000 SB02 (3-4)	SOIL/SOLID	09/03/25 11:20	09/04/25 10:00
HN2512728-003	4000 SB03 (5-6)	SOIL/SOLID	09/03/25 11:33	09/04/25 10:00



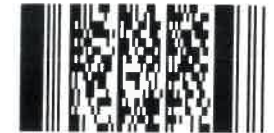
ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis															
Purchase Order		Project Name	4000_Fairview	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 Chorides (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@mannaiksmithgroup.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	4000 SB01 (1-2)	9/3/25	11:12	Soil	7	3	X	X	X	X	X	X	X						
2	4000 SB02 (3-4)		11:20	Soil	7	3	X	X	X	X	X	X	X						
3	4000 SB03 (5-6)		11:33	Soil	7	3	X	X	X	X	X	X	X						
4																			
5																			
6																			
7																			
8																			
9																			
10																			
Sampler(s): Please Print & Sign <i>Shannon Kaczmarek</i>		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____															
Relinquished by: <i>Shannon Kaczmarek</i>		Date: 9/3/25	Time: 1:24	Received by: <i>Ryan Montri</i>		Notes: Quote# HN-061825-M&S-MA													
Relinquished by: <i>[Signature]</i>		Date: 9/3/25	Time: 1700	Received by (Laboratory): <i>[Signature]</i> 9/3/25 1700		Cooler Temp. 4.9°C													
Logged by (Laboratory): <i>BC</i>		Date: 9/4/25	Time: 10:34	Checked by (Laboratory): <i>as</i> 9/4/25 10:34		QC Package: (Check Box Below)													
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035						Level II: Standard QC TRRP-Checklist													
						Level III: Std QC + Raw Data TRRP Level IV													
						Level IV: SW846 CLP-Like													
						Other: _____													

Environmental Division
HollandWork Order Reference
HN2512728

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:

9/4/25 10:30

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):

4.9°C

Thermometer(s):

IR6

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

Soil

Cooler(s)/Kit(s):

1

Date/Time sample(s) sent to storage:

9/4/25

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: 4000_Fairview

Work Order: HN2512728

Sample Name: 4000 SB01 (1-2)
Laboratory Code: HN2512728-001
Sample Matrix: SOIL/SOLID

Date Collected: 09/03/25
Date Received: 09/04/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AA	2199550		3463563	Nicole Maleski
EPA 6020B	EPA 3050B	001-AA	2206881	Weston Kotecki	3477883	Denise Coffey
EPA 7471B	Method	001-AA	2206896	Maxx Richey	3479811	Maxx Richey
EPA 8081B	EPA 3546	001-AA	2212333	Willow Julien	3498906	Madison VandenBer
EPA 8082A	EPA 3546	001-AA	2210438	Willow Julien	3495780	Nathaniel Dietlin
EPA 8151A	Method	001-AA	2217494	Willow Julien	3500433	Kathy Malmyga
EPA 8260D	EPA 5035A	001-AB	2199843	Jonathan Vazquez	3484265	John Garvale
EPA 8270E	EPA 3546	001-AA	2215327	Rachel Plantinga	3512737	Sam Bruzan
EPA 9056A	EPA 9056A	001-AA	2202102	Quoc Nguyen	3468479	Quoc Nguyen

Sample Name: 4000 SB02 (3-4)
Laboratory Code: HN2512728-002
Sample Matrix: SOIL/SOLID

Date Collected: 09/03/25
Date Received: 09/04/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AA	2199550		3463563	Nicole Maleski
EPA 6020B	EPA 3050B	002-AA	2206881	Weston Kotecki	3477883	Denise Coffey
EPA 7471B	Method	002-AA	2206896	Maxx Richey	3479811	Maxx Richey
EPA 8081B	EPA 3546	002-AA	2212333	Willow Julien	3498906	Madison VandenBer
EPA 8082A	EPA 3546	002-AA	2210438	Willow Julien	3495780	Nathaniel Dietlin
EPA 8151A	Method	002-AA	2217494	Willow Julien	3500433	Kathy Malmyga
EPA 8260D	EPA 5035A	002-AB	2199843	Jonathan Vazquez	3484265	John Garvale
EPA 8270E	EPA 3546	002-AA	2215327	Rachel Plantinga	3512737	Sam Bruzan
EPA 9056A	EPA 9056A	002-AA	2202102	Quoc Nguyen	3468479	Quoc Nguyen

Sample Name: 4000 SB03 (5-6)
Laboratory Code: HN2512728-003
Sample Matrix: SOIL/SOLID

Date Collected: 09/03/25
Date Received: 09/04/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AA	2199550		3463563	Nicole Maleski

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview

Work Order: HN2512728

Sample Name: 4000 SB03 (5-6)
Laboratory Code: HN2512728-003
Sample Matrix: SOIL/SOLID

Date Collected: 09/03/25
Date Received: 09/04/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3050B	003-AA	2206881	Weston Kotecki	3477883	Denise Coffey
EPA 7471B	Method	003-AA	2206896	Maxx Richey	3479811	Maxx Richey
EPA 8081B	EPA 3546	003-AA	2212333	Willow Julien	3498906	Madison VandenBer
EPA 8082A	EPA 3546	003-AA	2210438	Willow Julien	3495780	Nathaniel Dietlin
EPA 8151A	Method	003-AA	2217494	Willow Julien	3500433	Kathy Malmyga
EPA 8260D	EPA 5035A	003-AB	2199843	Jonathan Vazquez	3484265	John Garvale
EPA 8270E	EPA 3546	003-AA	2215327	Rachel Plantinga	3512737	Sam Bruzan
EPA 9056A	EPA 9056A	003-AA	2202102	Quoc Nguyen	3468479	Quoc Nguyen

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:12
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB01 (1-2) **Lab ID: HN2512728-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	7.1		%	0.1	1	09/04/25 15:48	NA
Chloride	EPA 9056A	ND		mg/kg	10.8	1	09/05/25 17:56	09/05/25 13:54
Metals								
Arsenic	EPA 6020B	ND		mg/kg	3.18	10	09/10/25 15:14	09/09/25 10:20
Barium	EPA 6020B	10.1		mg/kg	3.18	10	09/10/25 15:14	09/09/25 10:20
Cadmium	EPA 6020B	ND		mg/kg	1.27	10	09/10/25 15:14	09/09/25 10:20
Chromium	EPA 6020B	4.68		mg/kg	3.18	10	09/10/25 15:14	09/09/25 10:20
Copper	EPA 6020B	6.39	B	mg/kg	3.18	10	09/10/25 15:14	09/09/25 10:20
Lead	EPA 6020B	3.31		mg/kg	3.18	10	09/10/25 15:14	09/09/25 10:20
Selenium	EPA 6020B	ND		mg/kg	3.18	10	09/10/25 15:14	09/09/25 10:20
Silver	EPA 6020B	ND		mg/kg	3.18	10	09/10/25 15:14	09/09/25 10:20
Zinc	EPA 6020B	20.2		mg/kg	6.37	10	09/10/25 15:14	09/09/25 10:20
Mercury	EPA 7471B	ND		mg/kg	0.0200	1	09/10/25 16:55	09/10/25 08:20
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
4,4'-DDE	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
4,4'-DDT	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
Aldrin	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
alpha-BHC	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
beta-BHC	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
Chlordane, Technical	EPA 8081B	ND		µg/kg	25.2	1	09/16/25 07:05	09/11/25 11:42
cis-Chlordane	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
delta-BHC	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
Dieldrin	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
Endosulfan I	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
Endosulfan II	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
Endosulfan sulfate	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
Endrin	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
Endrin aldehyde	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
Endrin ketone	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
gamma-BHC (Lindane)	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:12
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB01 (1-2)	Lab ID: HN2512728-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Heptachlor	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
Heptachlor epoxide	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
Methoxychlor	EPA 8081B	ND	S	µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
Toxaphene	EPA 8081B	ND		µg/kg	60.6	1	09/16/25 07:05	09/11/25 11:42
trans-Chlordane	EPA 8081B	ND		µg/kg	10.1	1	09/16/25 07:05	09/11/25 11:42
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	145		%REC	53-151	1	09/16/25 07:05	09/11/25 11:42
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	105		%REC	67-127	1	09/16/25 07:05	09/11/25 11:42

Semivolatile Organic Compounds by GC

Aroclor 1016	EPA 8082A	ND		µg/kg	67.4	1	09/13/25 03:32	09/11/25 15:44
Aroclor 1221	EPA 8082A	ND		µg/kg	67.4	1	09/13/25 03:32	09/11/25 15:44
Aroclor 1232	EPA 8082A	ND		µg/kg	67.4	1	09/13/25 03:32	09/11/25 15:44
Aroclor 1242	EPA 8082A	ND		µg/kg	67.4	1	09/13/25 03:32	09/11/25 15:44
Aroclor 1248	EPA 8082A	ND		µg/kg	67.4	1	09/13/25 03:32	09/11/25 15:44
Aroclor 1254	EPA 8082A	ND		µg/kg	67.4	1	09/13/25 03:32	09/11/25 15:44
Aroclor 1260	EPA 8082A	ND		µg/kg	67.4	1	09/13/25 03:32	09/11/25 15:44
Aroclor 1262	EPA 8082A	ND		µg/kg	67.4	1	09/13/25 03:32	09/11/25 15:44
Aroclor 1268	EPA 8082A	ND		µg/kg	67.4	1	09/13/25 03:32	09/11/25 15:44
Total PCB	EPA 8082A	ND		µg/kg	67.4	1	09/13/25 03:32	09/11/25 15:44
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	124		%REC	54-146	1	09/13/25 03:32	09/11/25 15:44
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	111		%REC	58-140	1	09/13/25 03:32	09/11/25 15:44
2,4,5-T	EPA 8151A	ND		µg/kg	7.05	1	09/17/25 20:38	09/16/25 15:45
2,4,5-TP (Silvex)	EPA 8151A	ND		µg/kg	7.05	1	09/17/25 20:38	09/16/25 15:45
2,4-D	EPA 8151A	ND		µg/kg	14.1	1	09/17/25 20:38	09/16/25 15:45
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	54.0		%REC	10-116	1	09/17/25 20:38	09/16/25 15:45

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
1,2,4,5-Tetrachlorobenzene	EPA 8270E	ND		µg/kg	348	1	09/19/25 10:20	09/12/25 14:42
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	ND		µg/kg	174	1	09/19/25 10:20	09/12/25 14:42
1-Methylnaphthalene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:12
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB01 (1-2) **Lab ID: HN2512728-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,3,4,6-Tetrachlorophenol	EPA 8270E	ND		µg/kg	69.6	1	09/19/25 10:20	09/12/25 14:42
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
2,4-Dichlorophenol	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
2,4-Dimethylphenol	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
2,4-Dinitrophenol	EPA 8270E	ND		µg/kg	348	1	09/19/25 10:20	09/12/25 14:42
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
2-Chloronaphthalene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
2-Chlorophenol	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
2-Methylnaphthalene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
2-Nitroaniline	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
2-Nitrophenol	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
3&4-Methylphenol	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
3,3'-Dichlorobenzidine	EPA 8270E	ND		µg/kg	174	1	09/19/25 10:20	09/12/25 14:42
3-Nitroaniline	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
4-Chloro-3-methylphenol	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
4-Chloroaniline	EPA 8270E	ND		µg/kg	69.6	1	09/19/25 10:20	09/12/25 14:42
4-Chlorophenyl phenylether	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
4-Nitroaniline	EPA 8270E	ND		µg/kg	174	1	09/19/25 10:20	09/12/25 14:42
4-Nitrophenol	EPA 8270E	ND		µg/kg	348	1	09/19/25 10:20	09/12/25 14:42
Acenaphthene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
Acenaphthylene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
Acetophenone	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Anthracene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
Atrazine	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Benzaldehyde	EPA 8270E	ND		µg/kg	69.6	1	09/19/25 10:20	09/12/25 14:42

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:12
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB01 (1-2)	Lab ID: HN2512728-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Benzo(a)anthracene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
Benzo(a)pyrene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
Benzo(b)fluoranthene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
Benzo(g,h,i)perylene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
Benzo(k)fluoranthene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
bis(2-Chloroethoxy) methane	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
bis(2-Chloroethyl) ether	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Butyl benzyl phthalate	EPA 8270E	ND		µg/kg	69.6	1	09/19/25 10:20	09/12/25 14:42
Caprolactam	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Carbazole	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Chrysene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Dibenz(a,h) anthracene	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Dibenzofuran	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Diethyl phthalate	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Dimethyl phthalate	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Di-n-butyl phthalate	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Di-n-octyl phthalate	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Fluoranthene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
Fluorene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
Hexachlorobenzene	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Hexachlorobutadiene	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Hexachlorocyclopentadiene	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Hexachloroethane	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Indeno(1,2,3-cd) pyrene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
Isophorone	EPA 8270E	ND		µg/kg	174	1	09/19/25 10:20	09/12/25 14:42
Methylphenol, Total	EPA 8270E	ND		µg/kg	67.0	1	09/19/25 10:20	09/12/25 14:42
Naphthalene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
Nitrobenzene	EPA 8270E	ND		µg/kg	174	1	09/19/25 10:20	09/12/25 14:42
n-Nitrosodi-n-propylamine	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
N-Nitrosodiphenylamine	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:12
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB01 (1-2) **Lab ID: HN2512728-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Pentachlorophenol	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Phenanthrene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
Phenol	EPA 8270E	ND		µg/kg	34.5	1	09/19/25 10:20	09/12/25 14:42
Pyrene	EPA 8270E	ND		µg/kg	6.96	1	09/19/25 10:20	09/12/25 14:42
Pyridine	EPA 8270E	ND		µg/kg	174	1	09/19/25 10:20	09/12/25 14:42
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	61.2		%REC	48-94	1	09/19/25 10:20	09/12/25 14:42
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	65.2		%REC	50-103	1	09/19/25 10:20	09/12/25 14:42
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	66.8		%REC	43-105	1	09/19/25 10:20	09/12/25 14:42
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	72.5		%REC	55-111	1	09/19/25 10:20	09/12/25 14:42
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	59.1		%REC	47-100	1	09/19/25 10:20	09/12/25 14:42
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	70.4		%REC	49-110	1	09/19/25 10:20	09/12/25 14:42

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	123	1	09/10/25 16:11	09/04/25 15:23
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	123	1	09/10/25 16:11	09/04/25 15:23
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	123	1	09/10/25 16:11	09/04/25 15:23
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	123	1	09/10/25 16:11	09/04/25 15:23
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	123	1	09/10/25 16:11	09/04/25 15:23
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	73.8	1	09/10/25 16:11	09/04/25 15:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:12
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB01 (1-2) **Lab ID: HN2512728-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	246	1	09/10/25 16:11	09/04/25 15:23
2-Hexanone	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Acetone	EPA 8260D	ND		µg/kg	123	1	09/10/25 16:11	09/04/25 15:23
Benzene	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Bromochloromethane	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Bromodichloromethane	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Bromoform	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Carbon disulfide	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Carbon tetrachloride	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Chlorobenzene	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Chlorodibromomethane	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	123	1	09/10/25 16:11	09/04/25 15:23
Chloroform	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	73.8	1	09/10/25 16:11	09/04/25 15:23
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Cyclohexane	EPA 8260D	ND		µg/kg	123	1	09/10/25 16:11	09/04/25 15:23
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	123	1	09/10/25 16:11	09/04/25 15:23
Ethylbenzene	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Isopropylbenzene	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
m+p-Xylene	EPA 8260D	ND		µg/kg	73.8	1	09/10/25 16:11	09/04/25 15:23
Methyl acetate	EPA 8260D	ND		µg/kg	308	1	09/10/25 16:11	09/04/25 15:23
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	123	1	09/10/25 16:11	09/04/25 15:23
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	123	1	09/10/25 16:11	09/04/25 15:23
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Methylcyclohexane	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	308	1	09/10/25 16:11	09/04/25 15:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:12
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB01 (1-2) **Lab ID: HN2512728-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
o-Xylene	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Styrene	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Toluene	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Total Xylene	EPA 8260D	ND		µg/kg	111	1	09/10/25 16:11	09/04/25 15:23
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	36.9	1	09/10/25 16:11	09/04/25 15:23
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	95.6		%REC	80-120	1	09/10/25 16:11	09/04/25 15:23
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	99.6		%REC	80-120	1	09/10/25 16:11	09/04/25 15:23
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	90.9		%REC	72-120	1	09/10/25 16:11	09/04/25 15:23
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	103		%REC	80-120	1	09/10/25 16:11	09/04/25 15:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:20
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB02 (3-4) **Lab ID: HN2512728-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	18.2		%	0.1	1	09/04/25 15:48	NA
Chloride	EPA 9056A	ND		mg/kg	12.2	1	09/05/25 18:20	09/05/25 13:54
Metals								
Arsenic	EPA 6020B	6.50		mg/kg	3.65	10	09/10/25 15:15	09/09/25 10:20
Barium	EPA 6020B	42.0		mg/kg	3.65	10	09/10/25 15:15	09/09/25 10:20
Cadmium	EPA 6020B	ND		mg/kg	1.46	10	09/10/25 15:15	09/09/25 10:20
Chromium	EPA 6020B	11.0		mg/kg	3.65	10	09/10/25 15:15	09/09/25 10:20
Copper	EPA 6020B	12.8	B	mg/kg	3.65	10	09/10/25 15:15	09/09/25 10:20
Lead	EPA 6020B	12.7		mg/kg	3.65	10	09/10/25 15:15	09/09/25 10:20
Selenium	EPA 6020B	ND		mg/kg	3.65	10	09/10/25 15:15	09/09/25 10:20
Silver	EPA 6020B	ND		mg/kg	3.65	10	09/10/25 15:15	09/09/25 10:20
Zinc	EPA 6020B	39.0		mg/kg	7.31	10	09/10/25 15:15	09/09/25 10:20
Mercury	EPA 7471B	ND		mg/kg	0.0225	1	09/10/25 16:56	09/10/25 08:20
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
4,4'-DDE	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
4,4'-DDT	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
Aldrin	EPA 8081B	63.7		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
alpha-BHC	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
beta-BHC	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
Chlordane, Technical	EPA 8081B	ND		µg/kg	66.7	1	09/16/25 07:19	09/11/25 11:42
cis-Chlordane	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
delta-BHC	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
Dieldrin	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
Endosulfan I	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
Endosulfan II	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
Endosulfan sulfate	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
Endrin	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
Endrin aldehyde	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
Endrin ketone	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
gamma-BHC (Lindane)	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:20
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB02 (3-4) **Lab ID: HN2512728-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Heptachlor	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
Heptachlor epoxide	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
Methoxychlor	EPA 8081B	ND	S	µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
Toxaphene	EPA 8081B	ND		µg/kg	160	1	09/16/25 07:19	09/11/25 11:42
trans-Chlordane	EPA 8081B	ND		µg/kg	26.7	1	09/16/25 07:19	09/11/25 11:42
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	137		%REC	53-151	1	09/16/25 07:19	09/11/25 11:42
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	100		%REC	67-127	1	09/16/25 07:19	09/11/25 11:42

Semivolatile Organic Compounds by GC

Aroclor 1016	EPA 8082A	ND		µg/kg	178	1	09/13/25 03:44	09/11/25 15:44
Aroclor 1221	EPA 8082A	ND		µg/kg	178	1	09/13/25 03:44	09/11/25 15:44
Aroclor 1232	EPA 8082A	ND		µg/kg	178	1	09/13/25 03:44	09/11/25 15:44
Aroclor 1242	EPA 8082A	ND		µg/kg	178	1	09/13/25 03:44	09/11/25 15:44
Aroclor 1248	EPA 8082A	ND		µg/kg	178	1	09/13/25 03:44	09/11/25 15:44
Aroclor 1254	EPA 8082A	ND		µg/kg	178	1	09/13/25 03:44	09/11/25 15:44
Aroclor 1260	EPA 8082A	ND		µg/kg	178	1	09/13/25 03:44	09/11/25 15:44
Aroclor 1262	EPA 8082A	ND		µg/kg	178	1	09/13/25 03:44	09/11/25 15:44
Aroclor 1268	EPA 8082A	ND		µg/kg	178	1	09/13/25 03:44	09/11/25 15:44
Total PCB	EPA 8082A	ND		µg/kg	178	1	09/13/25 03:44	09/11/25 15:44
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	110		%REC	54-146	1	09/13/25 03:44	09/11/25 15:44
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	101		%REC	58-140	1	09/13/25 03:44	09/11/25 15:44
2,4,5-T	EPA 8151A	ND		µg/kg	19.2	1	09/17/25 20:50	09/16/25 15:45
2,4,5-TP (Silvex)	EPA 8151A	ND		µg/kg	19.2	1	09/17/25 20:50	09/16/25 15:45
2,4-D	EPA 8151A	ND		µg/kg	38.4	1	09/17/25 20:50	09/16/25 15:45
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	46.0		%REC	10-116	1	09/17/25 20:50	09/16/25 15:45

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
1,2,4,5-Tetrachlorobenzene	EPA 8270E	ND		µg/kg	918	1	09/19/25 10:41	09/12/25 14:42
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	ND		µg/kg	459	1	09/19/25 10:41	09/12/25 14:42
1-Methylnaphthalene	EPA 8270E	ND		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:20
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB02 (3-4)	Lab ID: HN2512728-002
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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	184	1	09/19/25 10:41	09/12/25 14:42
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
2,4-Dichlorophenol	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
2,4-Dimethylphenol	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
2,4-Dinitrophenol	EPA 8270E	ND		µg/kg	918	1	09/19/25 10:41	09/12/25 14:42
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
2-Chloronaphthalene	EPA 8270E	ND		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
2-Chlorophenol	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
2-Methylnaphthalene	EPA 8270E	ND		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
2-Nitroaniline	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
2-Nitrophenol	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
3&4-Methylphenol	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
3,3'-Dichlorobenzidine	EPA 8270E	ND		µg/kg	459	1	09/19/25 10:41	09/12/25 14:42
3-Nitroaniline	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
4-Chloro-3-methylphenol	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
4-Chloroaniline	EPA 8270E	ND		µg/kg	184	1	09/19/25 10:41	09/12/25 14:42
4-Chlorophenyl phenylether	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
4-Nitroaniline	EPA 8270E	ND		µg/kg	459	1	09/19/25 10:41	09/12/25 14:42
4-Nitrophenol	EPA 8270E	ND		µg/kg	918	1	09/19/25 10:41	09/12/25 14:42
Acenaphthene	EPA 8270E	ND		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
Acenaphthylene	EPA 8270E	ND		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
Acetophenone	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Anthracene	EPA 8270E	ND		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
Atrazine	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Benzaldehyde	EPA 8270E	ND		µg/kg	184	1	09/19/25 10:41	09/12/25 14:42

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:20
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB02 (3-4)	Lab ID: HN2512728-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Benzo(a)anthracene	EPA 8270E	22.0		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
Benzo(a)pyrene	EPA 8270E	22.0		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
Benzo(b)fluoranthene	EPA 8270E	25.7		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
Benzo(g,h,i)perylene	EPA 8270E	ND		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
Benzo(k)fluoranthene	EPA 8270E	ND		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
bis(2-Chloroethoxy) methane	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
bis(2-Chloroethyl) ether	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Butyl benzyl phthalate	EPA 8270E	ND		µg/kg	184	1	09/19/25 10:41	09/12/25 14:42
Caprolactam	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Carbazole	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Chrysene	EPA 8270E	ND		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Dibenz(a,h) anthracene	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Dibenzofuran	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Diethyl phthalate	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Dimethyl phthalate	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Di-n-butyl phthalate	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Di-n-octyl phthalate	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Fluoranthene	EPA 8270E	38.6		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
Fluorene	EPA 8270E	ND		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
Hexachlorobenzene	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Hexachlorobutadiene	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Hexachlorocyclopentadiene	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Hexachloroethane	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Indeno(1,2,3-cd) pyrene	EPA 8270E	ND		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
Isophorone	EPA 8270E	ND		µg/kg	459	1	09/19/25 10:41	09/12/25 14:42
Methylphenol, Total	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Naphthalene	EPA 8270E	ND		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
Nitrobenzene	EPA 8270E	ND		µg/kg	459	1	09/19/25 10:41	09/12/25 14:42
n-Nitrosodi-n-propylamine	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
N-Nitrosodiphenylamine	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:20
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB02 (3-4) **Lab ID: HN2512728-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Pentachlorophenol	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Phenanthrene	EPA 8270E	ND		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
Phenol	EPA 8270E	ND		µg/kg	91.0	1	09/19/25 10:41	09/12/25 14:42
Pyrene	EPA 8270E	31.2		µg/kg	18.4	1	09/19/25 10:41	09/12/25 14:42
Pyridine	EPA 8270E	ND		µg/kg	459	1	09/19/25 10:41	09/12/25 14:42
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	<i>57.8</i>		<i>%REC</i>	<i>48-94</i>	<i>1</i>	<i>09/19/25 10:41</i>	<i>09/12/25 14:42</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	<i>65.6</i>		<i>%REC</i>	<i>50-103</i>	<i>1</i>	<i>09/19/25 10:41</i>	<i>09/12/25 14:42</i>
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	<i>69.8</i>		<i>%REC</i>	<i>43-105</i>	<i>1</i>	<i>09/19/25 10:41</i>	<i>09/12/25 14:42</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	<i>68.5</i>		<i>%REC</i>	<i>55-111</i>	<i>1</i>	<i>09/19/25 10:41</i>	<i>09/12/25 14:42</i>
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	<i>60.2</i>		<i>%REC</i>	<i>47-100</i>	<i>1</i>	<i>09/19/25 10:41</i>	<i>09/12/25 14:42</i>
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	<i>69.9</i>		<i>%REC</i>	<i>49-110</i>	<i>1</i>	<i>09/19/25 10:41</i>	<i>09/12/25 14:42</i>

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	161	1	09/10/25 16:30	09/04/25 15:23
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	161	1	09/10/25 16:30	09/04/25 15:23
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	161	1	09/10/25 16:30	09/04/25 15:23
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	161	1	09/10/25 16:30	09/04/25 15:23
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	161	1	09/10/25 16:30	09/04/25 15:23
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	96.4	1	09/10/25 16:30	09/04/25 15:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:20
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB02 (3-4)	Lab ID: HN2512728-002
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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	48.2	1	09/10/25 16:30	09/04/25 15:23
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	321	1	09/10/25 16:30	09/04/25 15:23
2-Hexanone	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Acetone	EPA 8260D	ND		µg/kg	161	1	09/10/25 16:30	09/04/25 15:23
Benzene	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Bromochloromethane	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Bromodichloromethane	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Bromoform	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Carbon disulfide	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Carbon tetrachloride	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Chlorobenzene	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Chlorodibromomethane	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	161	1	09/10/25 16:30	09/04/25 15:23
Chloroform	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	96.4	1	09/10/25 16:30	09/04/25 15:23
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Cyclohexane	EPA 8260D	ND		µg/kg	161	1	09/10/25 16:30	09/04/25 15:23
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	161	1	09/10/25 16:30	09/04/25 15:23
Ethylbenzene	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Isopropylbenzene	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
m+p-Xylene	EPA 8260D	ND		µg/kg	96.4	1	09/10/25 16:30	09/04/25 15:23
Methyl acetate	EPA 8260D	ND		µg/kg	402	1	09/10/25 16:30	09/04/25 15:23
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	161	1	09/10/25 16:30	09/04/25 15:23
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	161	1	09/10/25 16:30	09/04/25 15:23
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Methylcyclohexane	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	402	1	09/10/25 16:30	09/04/25 15:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:20
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB02 (3-4) **Lab ID: HN2512728-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
o-Xylene	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Styrene	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Toluene	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Total Xylene	EPA 8260D	ND		µg/kg	144	1	09/10/25 16:30	09/04/25 15:23
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	48.2	1	09/10/25 16:30	09/04/25 15:23
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	95.8		%REC	80-120	1	09/10/25 16:30	09/04/25 15:23
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	102		%REC	80-120	1	09/10/25 16:30	09/04/25 15:23
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	88.1		%REC	72-120	1	09/10/25 16:30	09/04/25 15:23
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	106		%REC	80-120	1	09/10/25 16:30	09/04/25 15:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:33
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB03 (5-6) **Lab ID: HN2512728-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	20.8		%	0.1	1	09/04/25 15:48	NA
Chloride	EPA 9056A	ND		mg/kg	12.8	1	09/05/25 18:29	09/05/25 13:54
Metals								
Arsenic	EPA 6020B	4.21		mg/kg	3.20	10	09/10/25 15:17	09/09/25 10:20
Barium	EPA 6020B	58.5		mg/kg	3.20	10	09/10/25 15:17	09/09/25 10:20
Cadmium	EPA 6020B	ND		mg/kg	1.28	10	09/10/25 15:17	09/09/25 10:20
Chromium	EPA 6020B	16.4		mg/kg	3.20	10	09/10/25 15:17	09/09/25 10:20
Copper	EPA 6020B	13.0	B	mg/kg	3.20	10	09/10/25 15:17	09/09/25 10:20
Lead	EPA 6020B	7.44		mg/kg	3.20	10	09/10/25 15:17	09/09/25 10:20
Selenium	EPA 6020B	ND		mg/kg	3.20	10	09/10/25 15:17	09/09/25 10:20
Silver	EPA 6020B	ND		mg/kg	3.20	10	09/10/25 15:17	09/09/25 10:20
Zinc	EPA 6020B	51.3		mg/kg	6.40	10	09/10/25 15:17	09/09/25 10:20
Mercury	EPA 7471B	ND		mg/kg	0.0200	1	09/10/25 16:58	09/10/25 08:20
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
4,4'-DDE	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
4,4'-DDT	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
Aldrin	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
alpha-BHC	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
beta-BHC	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
Chlordane, Technical	EPA 8081B	ND		µg/kg	62.0	1	09/16/25 07:33	09/11/25 11:42
cis-Chlordane	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
delta-BHC	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
Dieldrin	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
Endosulfan I	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
Endosulfan II	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
Endosulfan sulfate	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
Endrin	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
Endrin aldehyde	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
Endrin ketone	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
gamma-BHC (Lindane)	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:33
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB03 (5-6)	Lab ID: HN2512728-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Heptachlor	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
Heptachlor epoxide	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
Methoxychlor	EPA 8081B	ND	S	µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
Toxaphene	EPA 8081B	ND		µg/kg	149	1	09/16/25 07:33	09/11/25 11:42
trans-Chlordane	EPA 8081B	ND		µg/kg	24.8	1	09/16/25 07:33	09/11/25 11:42
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	137		%REC	53-151	1	09/16/25 07:33	09/11/25 11:42
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	101		%REC	67-127	1	09/16/25 07:33	09/11/25 11:42

Semivolatile Organic Compounds by GC

Aroclor 1016	EPA 8082A	ND		µg/kg	165	1	09/13/25 03:56	09/11/25 15:44
Aroclor 1221	EPA 8082A	ND		µg/kg	165	1	09/13/25 03:56	09/11/25 15:44
Aroclor 1232	EPA 8082A	ND		µg/kg	165	1	09/13/25 03:56	09/11/25 15:44
Aroclor 1242	EPA 8082A	ND		µg/kg	165	1	09/13/25 03:56	09/11/25 15:44
Aroclor 1248	EPA 8082A	ND		µg/kg	165	1	09/13/25 03:56	09/11/25 15:44
Aroclor 1254	EPA 8082A	ND		µg/kg	165	1	09/13/25 03:56	09/11/25 15:44
Aroclor 1260	EPA 8082A	ND		µg/kg	165	1	09/13/25 03:56	09/11/25 15:44
Aroclor 1262	EPA 8082A	ND		µg/kg	165	1	09/13/25 03:56	09/11/25 15:44
Aroclor 1268	EPA 8082A	ND		µg/kg	165	1	09/13/25 03:56	09/11/25 15:44
Total PCB	EPA 8082A	ND		µg/kg	165	1	09/13/25 03:56	09/11/25 15:44
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	62.6		%REC	54-146	1	09/13/25 03:56	09/11/25 15:44
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	58.6		%REC	58-140	1	09/13/25 03:56	09/11/25 15:44
2,4,5-T	EPA 8151A	ND		µg/kg	19.7	1	09/17/25 21:03	09/16/25 15:45
2,4,5-TP (Silvex)	EPA 8151A	ND		µg/kg	19.7	1	09/17/25 21:03	09/16/25 15:45
2,4-D	EPA 8151A	ND		µg/kg	39.5	1	09/17/25 21:03	09/16/25 15:45
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	46.0		%REC	10-116	1	09/17/25 21:03	09/16/25 15:45

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
1,2,4,5-Tetrachlorobenzene	EPA 8270E	ND		µg/kg	1010	1	09/19/25 11:03	09/12/25 14:42
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	ND		µg/kg	506	1	09/19/25 11:03	09/12/25 14:42
1-Methylnaphthalene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:33
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB03 (5-6) **Lab ID: HN2512728-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,3,4,6-Tetrachlorophenol	EPA 8270E	ND		µg/kg	202	1	09/19/25 11:03	09/12/25 14:42
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
2,4-Dichlorophenol	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
2,4-Dimethylphenol	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
2,4-Dinitrophenol	EPA 8270E	ND		µg/kg	1010	1	09/19/25 11:03	09/12/25 14:42
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
2-Chloronaphthalene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
2-Chlorophenol	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
2-Methylnaphthalene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
2-Nitroaniline	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
2-Nitrophenol	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
3&4-Methylphenol	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
3,3'-Dichlorobenzidine	EPA 8270E	ND		µg/kg	506	1	09/19/25 11:03	09/12/25 14:42
3-Nitroaniline	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
4-Chloro-3-methylphenol	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
4-Chloroaniline	EPA 8270E	ND		µg/kg	202	1	09/19/25 11:03	09/12/25 14:42
4-Chlorophenyl phenylether	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
4-Nitroaniline	EPA 8270E	ND		µg/kg	506	1	09/19/25 11:03	09/12/25 14:42
4-Nitrophenol	EPA 8270E	ND		µg/kg	1010	1	09/19/25 11:03	09/12/25 14:42
Acenaphthene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
Acenaphthylene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
Acetophenone	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Anthracene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
Atrazine	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Benzaldehyde	EPA 8270E	ND		µg/kg	202	1	09/19/25 11:03	09/12/25 14:42

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:33
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB03 (5-6)	Lab ID: HN2512728-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Benzo(a)anthracene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
Benzo(a)pyrene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
Benzo(b)fluoranthene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
Benzo(g,h,i)perylene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
Benzo(k)fluoranthene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
bis(2-Chloroethoxy) methane	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
bis(2-Chloroethyl) ether	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Butyl benzyl phthalate	EPA 8270E	ND		µg/kg	202	1	09/19/25 11:03	09/12/25 14:42
Caprolactam	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Carbazole	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Chrysene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Dibenz(a,h) anthracene	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Dibenzofuran	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Diethyl phthalate	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Dimethyl phthalate	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Di-n-butyl phthalate	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Di-n-octyl phthalate	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Fluoranthene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
Fluorene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
Hexachlorobenzene	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Hexachlorobutadiene	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Hexachlorocyclopentadiene	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Hexachloroethane	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Indeno(1,2,3-cd) pyrene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
Isophorone	EPA 8270E	ND		µg/kg	506	1	09/19/25 11:03	09/12/25 14:42
Methylphenol, Total	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Naphthalene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
Nitrobenzene	EPA 8270E	ND		µg/kg	506	1	09/19/25 11:03	09/12/25 14:42
n-Nitrosodi-n-propylamine	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
N-Nitrosodiphenylamine	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:33
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB03 (5-6) **Lab ID: HN2512728-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Pentachlorophenol	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Phenanthrene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
Phenol	EPA 8270E	ND		µg/kg	100	1	09/19/25 11:03	09/12/25 14:42
Pyrene	EPA 8270E	ND		µg/kg	20.2	1	09/19/25 11:03	09/12/25 14:42
Pyridine	EPA 8270E	ND		µg/kg	506	1	09/19/25 11:03	09/12/25 14:42
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	<i>50.7</i>		<i>%REC</i>	<i>48-94</i>	<i>1</i>	<i>09/19/25 11:03</i>	<i>09/12/25 14:42</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	<i>62.0</i>		<i>%REC</i>	<i>50-103</i>	<i>1</i>	<i>09/19/25 11:03</i>	<i>09/12/25 14:42</i>
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	<i>64.8</i>		<i>%REC</i>	<i>43-105</i>	<i>1</i>	<i>09/19/25 11:03</i>	<i>09/12/25 14:42</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	<i>62.1</i>		<i>%REC</i>	<i>55-111</i>	<i>1</i>	<i>09/19/25 11:03</i>	<i>09/12/25 14:42</i>
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	<i>58.4</i>		<i>%REC</i>	<i>47-100</i>	<i>1</i>	<i>09/19/25 11:03</i>	<i>09/12/25 14:42</i>
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	<i>65.0</i>		<i>%REC</i>	<i>49-110</i>	<i>1</i>	<i>09/19/25 11:03</i>	<i>09/12/25 14:42</i>

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	157	1	09/10/25 16:49	09/04/25 15:23
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	157	1	09/10/25 16:49	09/04/25 15:23
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	157	1	09/10/25 16:49	09/04/25 15:23
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	157	1	09/10/25 16:49	09/04/25 15:23
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	157	1	09/10/25 16:49	09/04/25 15:23
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	94.1	1	09/10/25 16:49	09/04/25 15:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:33
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB03 (5-6) **Lab ID: HN2512728-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	314	1	09/10/25 16:49	09/04/25 15:23
2-Hexanone	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Acetone	EPA 8260D	ND		µg/kg	157	1	09/10/25 16:49	09/04/25 15:23
Benzene	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Bromochloromethane	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Bromodichloromethane	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Bromoform	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Carbon disulfide	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Carbon tetrachloride	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Chlorobenzene	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Chlorodibromomethane	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	157	1	09/10/25 16:49	09/04/25 15:23
Chloroform	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	94.1	1	09/10/25 16:49	09/04/25 15:23
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Cyclohexane	EPA 8260D	ND		µg/kg	157	1	09/10/25 16:49	09/04/25 15:23
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	157	1	09/10/25 16:49	09/04/25 15:23
Ethylbenzene	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Isopropylbenzene	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
m+p-Xylene	EPA 8260D	ND		µg/kg	94.1	1	09/10/25 16:49	09/04/25 15:23
Methyl acetate	EPA 8260D	ND		µg/kg	392	1	09/10/25 16:49	09/04/25 15:23
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	157	1	09/10/25 16:49	09/04/25 15:23
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	157	1	09/10/25 16:49	09/04/25 15:23
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Methylcyclohexane	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	392	1	09/10/25 16:49	09/04/25 15:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID

Work Order: HN2512728
Date Collected: 09/03/25 11:33
Date Received: 09/04/25 10:00

CLIENT ID: 4000 SB03 (5-6) **Lab ID: HN2512728-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
o-Xylene	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Styrene	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Toluene	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Total Xylene	EPA 8260D	ND		µg/kg	141	1	09/10/25 16:49	09/04/25 15:23
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	47.0	1	09/10/25 16:49	09/04/25 15:23
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	97.2		%REC	80-120	1	09/10/25 16:49	09/04/25 15:23
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	96.2		%REC	80-120	1	09/10/25 16:49	09/04/25 15:23
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	92.3		%REC	72-120	1	09/10/25 16:49	09/04/25 15:23
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	106		%REC	80-120	1	09/10/25 16:49	09/04/25 15:23



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2199550

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3463563

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2199550-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 09/04/25 15:48
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-2199550-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 09/04/25 15:48
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			

The following samples were analyzed in this batch: HN2512728-001, HN2512728-002, HN2512728-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2202102

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3468479

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2202102-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 09/05/25 17:40
Prep Date: 09/05/25 13:55

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-2202102-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 09/05/25 17:48
Prep Date: 09/05/25 13:55

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	106	mg/kg	10.0	100		106	87-110			

MS	CLIENT ID: 4000 SB01 (1-2)	Lab ID: QC-2202102-004
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 09/05/25 18:04
Prep Date: 09/05/25 13:55

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	104	mg/kg	10.8	100.2	<10.8	101	87-110			

MSD	CLIENT ID: 4000 SB01 (1-2)	Lab ID: QC-2202102-005
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 09/05/25 18:12
Prep Date: 09/05/25 13:55

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	104	mg/kg	10.7	99.8	<10.8	100	87-110	0.871	15	

The following samples were analyzed in this batch: HN2512728-001, HN2512728-002, HN2512728-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2206881

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3477883

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2206881-001
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Method: EPA 6020B

Dilution: 1

Analysis Date: 09/10/25 14:50

Prep Date: 09/09/25 10:21

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	0.327	mg/kg	0.250							B
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-2206881-002
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Method: EPA 6020B

Dilution: 1

Analysis Date: 09/10/25 14:51

Prep Date: 09/09/25 10:21

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.96	mg/kg	0.250	5		99.3	80-120			
Barium	5.05	mg/kg	0.250	5		101	80-120			
Cadmium	5.12	mg/kg	0.100	5		102	80-120			
Chromium	5.25	mg/kg	0.250	5		105	80-120			
Copper	5.30	mg/kg	0.250	5		106	80-120			
Lead	5.07	mg/kg	0.250	5		101	80-120			
Selenium	4.95	mg/kg	0.250	5		99.0	80-120			
Silver	5.21	mg/kg	0.250	5		104	80-120			
Zinc	5.08	mg/kg	0.500	5		102	80-120			

The following samples were analyzed in this batch: HN2512728-001, HN2512728-002, HN2512728-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2206896

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3479811

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2206896-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 09/10/25 16:25
Prep Date: 09/10/25 08:21

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-2206896-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 09/10/25 16:27
Prep Date: 09/10/25 08:21

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.168	mg/kg	0.0200	0.1665		101	80-120			

The following samples were analyzed in this batch: HN2512728-001, HN2512728-002, HN2512728-003



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2212333

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3498906

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2212333-001
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 09/16/25 02:46**Prep Date:** 09/11/25 11:43

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	48.7	µg/kg		33.33		146	53-151			
Surr: Tetrachloro-m-xylene	37.0	µg/kg		33.33		111	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2212333-002
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 09/16/25 03:15**Prep Date:** 09/11/25 11:43

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	42.4	µg/kg	10.0	33.33		127	55-141			
4,4'-DDE	38.4	µg/kg	10.0	33.33		115	55-143			
4,4'-DDT	46.2	µg/kg	10.0	33.33		138	50-144			
Aldrin	40.7	µg/kg	10.0	33.33		122	57-141			
alpha-BHC	43.8	µg/kg	10.0	33.33		131	58-144			
beta-BHC	44.0	µg/kg	10.0	33.33		132	55-147			
cis-Chlordane	40.0	µg/kg	10.0	33.33		120	58-142			
delta-BHC	43.9	µg/kg	10.0	33.33		132	59-142			
Dieldrin	42.9	µg/kg	10.0	33.33		129	59-142			
Endosulfan I	41.3	µg/kg	10.0	33.33		124	57-145			
Endosulfan II	42.4	µg/kg	10.0	33.33		127	58-138			
Endosulfan sulfate	43.2	µg/kg	10.0	33.33		130	54-136			
Endrin	42.8	µg/kg	10.0	33.33		128	45-150			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2212333

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3498906

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2212333-002			
Method: EPA 8081B		Dilution: 1		Analysis Date: 09/16/25 03:15		Prep Date: 09/11/25 11:43			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Endrin aldehyde	49.0	µg/kg	10.0	33.33		147	41-147		
Endrin ketone	42.8	µg/kg	10.0	33.33		128	54-146		
gamma-BHC (Lindane)	43.4	µg/kg	10.0	33.33		130	58-145		
Heptachlor	43.2	µg/kg	10.0	33.33		130	51-145		
Heptachlor epoxide	42.0	µg/kg	10.0	33.33		126	59-143		
Methoxychlor	54.8	µg/kg	10.0	33.33		164	43-144		S
trans-Chlordane	41.9	µg/kg	10.0	33.33		126	56-145		
Surr: Decachlorobiphenyl	48.2	µg/kg		33.33		144	51-151		
Surr: Tetrachloro-m-xylene	35.3	µg/kg		33.33		106	67-127		
The following samples were analyzed in this batch: HN2512728-001, HN2512728-002, HN2512728-003									



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2210438

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3495780

Semivolatile Organic Compounds by GC

MB	CLIENT ID: Method Blank	Lab ID: QC-2210438-001
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Method: EPA 8082A

Dilution: 1

Analysis Date: 09/13/25 09:49

Prep Date: 09/11/25 15:45

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	45.4	µg/kg		33.3		136	54-146			
Surr: Tetrachloro-m-xylene	36.4	µg/kg		33.3		109	58-140			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2210438-002
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Method: EPA 8082A

Dilution: 1

Analysis Date: 09/13/25 10:01

Prep Date: 09/11/25 15:45

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	848	µg/kg	66.7	833		102	71-135			
Aroclor 1260	894	µg/kg	66.7	833		107	67-135			
Surr: Decachlorobiphenyl	40.7	µg/kg		33.3		122	54-146			
Surr: Tetrachloro-m-xylene	35.2	µg/kg		33.3		106	58-140			

The following samples were analyzed in this batch: HN2512728-001, HN2512728-002, HN2512728-003



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2217494

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3500433

Semivolatile Organic Compounds by GC

MB	CLIENT ID: Method Blank	Lab ID: QC-2217494-001
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Method: EPA 8151A

Dilution: 1

Analysis Date: 09/17/25 17:54

Prep Date: 09/16/25 15:46

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	25.0	µg/kg		50		50.0	10-116			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2217494-002
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Method: EPA 8151A

Dilution: 1

Analysis Date: 09/17/25 18:06

Prep Date: 09/16/25 15:46

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	32.0	µg/kg	5.00	50		64.0	10-119			
2,4,5-TP (Silvex)	30.0	µg/kg	5.00	50		60.0	10-101			
2,4-D	30.0	µg/kg	10.0	50		60.0	10-128			
Surr: DCAA	30.0	µg/kg		50		60.0	10-116			

The following samples were analyzed in this batch: HN2512728-001, HN2512728-002, HN2512728-003



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2215327

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3512737

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2215327-001
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 09/19/25 04:00**Prep Date:** 09/12/25 14:43

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	33.0							
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	ND	µg/kg	33.0							
2,4-Dinitrophenol	ND	µg/kg	33.0							
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	33.0							
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							



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2215327

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3512737

MB	CLIENT ID: Method Blank	Lab ID: QC-2215327-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 09/19/25 04:00

Prep Date: 09/12/25 14:43

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	2040	µg/kg		3333		61.1	48-94			
Surr: 2-Fluorobiphenyl	2160	µg/kg		3333		64.9	50-103			
Surr: 2-Fluorophenol	2250	µg/kg		3333		67.4	43-105			
Surr: 4-Terphenyl-d14	2510	µg/kg		3333		75.4	55-111			
Surr: Nitrobenzene-d5	2070	µg/kg		3333		62.0	47-100			
Surr: Phenol-d6	2350	µg/kg		3333		70.6	49-110			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2215327-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 09/19/25 04:21

Prep Date: 09/12/25 14:43

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	871	µg/kg	33.0	1333		65.3	57-101			
1,2,4,5-Tetrachlorobenzene	839	µg/kg	33.0	1333		62.9	54-98			
1-Methylnaphthalene	859	µg/kg	6.67	1333		64.4	56-100			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2215327

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3512737

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2215327-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 09/19/25 04:21

Prep Date: 09/12/25 14:43

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	834	µg/kg	33.0	1333		62.6	50-101			
2,3,4,6-Tetrachlorophenol	986	µg/kg	67.0	1333		74.0	48-103			
2,4,5-Trichlorophenol	894	µg/kg	33.0	1333		67.1	54-98			
2,4,6-Trichlorophenol	864	µg/kg	33.0	1333		64.8	56-97			
2,4-Dichlorophenol	831	µg/kg	33.0	1333		62.3	54-99			
2,4-Dimethylphenol	786	µg/kg	33.0	1333		59.0	47-102			
2,4-Dinitrophenol	802	µg/kg	333	1333		60.2	10-100			
2,4-Dinitrotoluene (2,4-DNT)	965	µg/kg	33.0	1333		72.4	62-105			
2,6-Dinitrotoluene (2,6-DNT)	918	µg/kg	33.0	1333		68.9	62-103			
2-Chloronaphthalene	867	µg/kg	6.67	1333		65.0	57-101			
2-Chlorophenol	853	µg/kg	33.0	1333		64.0	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	965	µg/kg	33.0	1333		72.4	42-104			
2-Methylnaphthalene	845	µg/kg	6.67	1333		63.4	55-102			
2-Methylphenol (o-Cresol)	839	µg/kg	33.0	1333		62.9	54-103			
2-Nitroaniline	953	µg/kg	33.0	1333		71.5	57-103			
2-Nitrophenol	902	µg/kg	33.0	1333		67.7	52-102			
3&4-Methylphenol	861	µg/kg	33.0	1333		64.6	56-103			
3,3'-Dichlorobenzidine	757	µg/kg	167	1333		56.8	41-91			
3-Nitroaniline	757	µg/kg	33.0	1333		56.8	35-107			
4-Bromophenyl phenyl ether (BDE-3)	927	µg/kg	33.0	1333		69.6	63-104			
4-Chloro-3-methylphenol	920	µg/kg	33.0	1333		69.0	57-103			
4-Chloroaniline	907	µg/kg	67.0	1333		68.0	32-99			
4-Chlorophenyl phenylether	911	µg/kg	33.0	1333		68.4	62-100			
4-Nitroaniline	524	µg/kg	167	1333		39.3	19-124			
4-Nitrophenol	919	µg/kg	333	1333		68.9	44-106			
Acenaphthene	891	µg/kg	6.67	1333		66.8	60-101			
Acenaphthylene	882	µg/kg	6.67	1333		66.2	59-101			
Acetophenone	851	µg/kg	33.0	1333		63.8	54-102			
Anthracene	953	µg/kg	6.67	1333		71.5	63-96			
Atrazine	1030	µg/kg	33.0	1333		77.5	60-110			
Benzaldehyde	347	µg/kg	67.0	1333		26.0	10-143			
Benzo(a)anthracene	985	µg/kg	6.67	1333		73.9	66-102			
Benzo(a)pyrene	1000	µg/kg	6.67	1333		75.2	66-105			
Benzo(b)fluoranthene	1020	µg/kg	6.67	1333		76.3	67-105			
Benzo(g,h,i)perylene	962	µg/kg	6.67	1333		72.2	59-110			
Benzo(k)fluoranthene	969	µg/kg	6.67	1333		72.7	68-106			
bis(2-Chloroethoxy)methane	834	µg/kg	33.0	1333		62.6	54-102			
bis(2-Chloroethyl) ether	825	µg/kg	33.0	1333		61.9	51-101			
Butyl benzyl phthalate	988	µg/kg	67.0	1333		74.1	59-107			
Caprolactam	974	µg/kg	33.0	1333		73.1	49-103			
Carbazole	975	µg/kg	33.0	1333		73.1	63-103			
Chrysene	1000	µg/kg	6.67	1333		75.0	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1020	µg/kg	33.0	1333		76.9	63-101			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2215327

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3512737

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2215327-002			
Method: EPA 8270E		Dilution: 1		Analysis Date: 09/19/25 04:21		Prep Date: 09/12/25 14:43			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Dibenz(a,h) anthracene	927	µg/kg	33.0	1333		69.6	61-109		
Dibenzofuran	893	µg/kg	33.0	1333		67.0	61-101		
Diethyl phthalate	973	µg/kg	33.0	1333		73.0	63-105		
Dimethyl phthalate	945	µg/kg	33.0	1333		70.9	64-104		
Di-n-butyl phthalate	1010	µg/kg	33.0	1333		75.5	66-108		
Di-n-octyl phthalate	1100	µg/kg	33.0	1333		82.4	53-126		
Fluoranthene	980	µg/kg	6.67	1333		73.5	66-105		
Fluorene	912	µg/kg	6.67	1333		68.4	62-101		
Hexachlorobenzene	977	µg/kg	33.0	1333		73.3	61-104		
Hexachlorobutadiene	846	µg/kg	33.0	1333		63.5	52-99		
Hexachlorocyclopentadiene	817	µg/kg	33.0	1333		61.3	39-106		
Hexachloroethane	807	µg/kg	33.0	1333		60.5	59-99		
Indeno(1,2,3-cd) pyrene	1040	µg/kg	6.67	1333		78.3	57-114		
Isophorone	866	µg/kg	167	1333		65.0	55-101		
Methylphenol, Total	1700	µg/kg	67.0	2667		63.7	54-103		
Naphthalene	849	µg/kg	6.67	1333		63.7	54-99		
Nitrobenzene	881	µg/kg	167	1333		66.1	53-100		
n-Nitrosodi-n-propylamine	855	µg/kg	33.0	1333		64.1	52-104		
N-Nitrosodiphenylamine	945	µg/kg	33.0	1333		70.9	61-104		
Pentachlorophenol	971	µg/kg	33.0	1333		72.9	35-100		
Phenanthrene	941	µg/kg	6.67	1333		70.6	64-101		
Phenol	844	µg/kg	33.0	1333		63.3	51-107		
Pyrene	998	µg/kg	6.67	1333		74.9	62-114		
Pyridine	733	µg/kg	167	1333		55.0	40-84		
Surr: 2,4,6-Tribromophenol	2270	µg/kg		3333		68.1	48-94		
Surr: 2-Fluorobiphenyl	2010	µg/kg		3333		60.3	50-103		
Surr: 2-Fluorophenol	2000	µg/kg		3333		59.9	43-105		
Surr: 4-Terphenyl-d14	2370	µg/kg		3333		71.2	55-111		
Surr: Nitrobenzene-d5	1970	µg/kg		3333		59.0	47-100		
Surr: Phenol-d6	2090	µg/kg		3333		62.7	49-110		

The following samples were analyzed in this batch: HN2512728-001, HN2512728-002, HN2512728-003



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2199843

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3484265

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2199843-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 09/10/25 14:37

Prep Date: 09/04/25 15:24

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							



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2199843

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3484265

MB	CLIENT ID: Method Blank	Lab ID: QC-2199843-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 09/10/25 14:37

Prep Date: 09/04/25 15:24

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	ND	µg/kg	30.0							
(Fluorotrichloromethane, Freon 11)										
Vinyl chloride (Chloroethene)	ND	µg/kg	30.0							
Surr: 1,2-Dichloroethane-d4	934	µg/kg		1000		93.4	80-120			
Surr: 4-Bromofluorobenzene	990	µg/kg		1000		99.0	80-120			
Surr: Dibromofluoromethane	894	µg/kg		1000		89.4	72-120			
Surr: Toluene-d8	1040	µg/kg		1000		104	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2199843-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 09/10/25 13:25

Prep Date: 09/04/25 15:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	992	µg/kg	30.0	1000		99.2	75-121			
1,1,2,2-Tetrachloroethane	890	µg/kg	30.0	1000		89.0	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1220	µg/kg	30.0	1000		122	62-129			
1,1,2-Trichloroethane	927	µg/kg	30.0	1000		92.7	80-123			
1,1-Dichloroethane	926	µg/kg	30.0	1000		92.6	74-124			
1,1-Dichloroethylene	1010	µg/kg	30.0	1000		101	68-131			
1,2,3-Trichlorobenzene	1000	µg/kg	100	1000		100	60-135			
1,2,3-Trichloropropane	877	µg/kg	30.0	1000		87.7	77-121			
1,2,4-Trichlorobenzene	1050	µg/kg	100	1000		105	63-130			
1,2,4-Trimethylbenzene	980	µg/kg	30.0	1000		98.0	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	942	µg/kg	100	1000		94.2	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	908	µg/kg	30.0	1000		90.8	63-155			



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2199843

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3484265

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2199843-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 09/10/25 13:25

Prep Date: 09/04/25 15:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichlorobenzene (o-Dichlorobenzene)	1030	µg/kg	30.0	1000		103	77-122			
1,2-Dichloroethane (Ethylene dichloride)	930	µg/kg	100	1000		93.0	70-130			
1,2-Dichloropropane	905	µg/kg	30.0	1000		90.5	71-130			
1,3,5-Trimethylbenzene	1020	µg/kg	100	1000		102	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	1100	µg/kg	30.0	1000		110	78-121			
1,3-Dichloropropene	1910	µg/kg	60.0	2000		95.4	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	1060	µg/kg	30.0	1000		106	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1020	µg/kg	200	1000		102	47-164			
2-Hexanone	980	µg/kg	30.0	1000		98.0	70-137			
4-Methyl-2-pentanone (MIBK)	1300	µg/kg	30.0	1000		130	57-200			
Acetone	994	µg/kg	100	1000		99.4	52-190			
Benzene	976	µg/kg	30.0	1000		97.6	78-122			
Bromochloromethane	922	µg/kg	30.0	1000		92.2	68-130			
Bromodichloromethane	996	µg/kg	30.0	1000		99.6	75-125			
Bromoform	906	µg/kg	30.0	1000		90.6	59-120			
Carbon disulfide	1240	µg/kg	30.0	1000		124	60-163			
Carbon tetrachloride	1080	µg/kg	30.0	1000		108	69-123			
Chlorobenzene	970	µg/kg	30.0	1000		97.0	79-120			
Chlorodibromomethane	788	µg/kg	30.0	1000		78.8	57-123			
Chloroethane (Ethyl chloride)	797	µg/kg	100	1000		79.7	38-132			
Chloroform	913	µg/kg	30.0	1000		91.3	72-122			
cis & trans-1,2-Dichloroethene	1920	µg/kg	60.0	2000		96.0	72-127			
cis-1,2-Dichloroethylene	962	µg/kg	30.0	1000		96.2	74-125			
cis-1,3-Dichloropropene	1040	µg/kg	30.0	1000		104	62-124			
Dichlorodifluoromethane (Freon-12)	813	µg/kg	100	1000		81.3	28-137			
Ethylbenzene	956	µg/kg	30.0	1000		95.6	75-121			
Isopropylbenzene	1030	µg/kg	30.0	1000		103	74-121			
m+p-Xylene	1900	µg/kg	60.0	2000		95.2	67-129			
Methyl acetate	898	µg/kg	250	1000		89.8	61-125			
Methyl bromide (Bromomethane)	1020	µg/kg	100	1000		102	31-169			
Methyl chloride (Chloromethane)	814	µg/kg	100	1000		81.4	24-119			
Methyl tert-butyl ether (MTBE)	1060	µg/kg	30.0	1000		106	79-139			
Methylene chloride (Dichloromethane)	979	µg/kg	250	1000		97.9	62-135			
o-Xylene	942	µg/kg	30.0	1000		94.2	75-120			
Styrene	1040	µg/kg	30.0	1000		104	74-126			
Tetrachloroethylene (Perchloroethylene)	1110	µg/kg	30.0	1000		111	76-128			
Toluene	1020	µg/kg	30.0	1000		102	76-120			
Total Xylene	2840	µg/kg	90.0	3000		94.8	67-129			
trans-1,2-Dichloroethylene	958	µg/kg	30.0	1000		95.8	72-127			
trans-1,3-Dichloropropylene	872	µg/kg	30.0	1000		87.2	66-120			
Trichloroethene (Trichloroethylene)	953	µg/kg	30.0	1000		95.3	75-122			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4000_Fairview
Matrix: SOIL/SOLID
QC Lot: 2199843

Work Order: HN2512728
Date Collected: NA
Date Received: NA
Run ID: 3484265

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2199843-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 09/10/25 13:25

Prep Date: 09/04/25 15:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	955	µg/kg	30.0	1000		95.5	51-115			
Vinyl chloride (Chloroethene)	864	µg/kg	30.0	1000		86.4	43-128			
<i>Surr: 1,2-Dichloroethane-d4</i>	956	<i>µg/kg</i>		1000		95.6	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	1000	<i>µg/kg</i>		1000		100	80-120			
<i>Surr: Dibromofluoromethane</i>	976	<i>µg/kg</i>		1000		97.6	72-120			
<i>Surr: Toluene-d8</i>	962	<i>µg/kg</i>		1000		96.2	80-120			

The following samples were analyzed in this batch: HN2512728-001, HN2512728-002, HN2512728-003



right solutions.
right partner.

October 22, 2025

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

Re: **DETR0060**

Date Received: **10/14/2025**

Work Order: **HN2515196**

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/ **DALE SCHIPPER**

Project Manager



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

Work Order: HN2515196
Date Received: 14-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 14-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: HN2515196

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2515196-001	4000 Fairview SB02 TCLP	SOIL/SOLID	10/13/25 12:00	10/14/25 07:00

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

Analytical Report



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

Work Order: HN2515196
Date Collected: 10/13/25 12:00
Date Received: 10/14/25 07:00

CLIENT ID: 4000 Fairview SB02 TCLP **Lab ID: HN2515196-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Arsenic	EPA 6020B	<0.00190	U	mg/L	0.0499	1	10/21/25 02:07	10/19/25 08:11

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2284412

Work Order: HN2515196
Date Collected: NA
Date Received: NA
Run ID: 3605054

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2284412-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/21/25 02:03
Prep Date: 10/19/25 08:12

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	<0.00190	mg/L	0.0499							U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2284412-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/21/25 02:05
Prep Date: 10/19/25 08:12

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	1.01	mg/L	0.0499	1		101	80-120			

MS	CLIENT ID: 4000 Fairview SB02 TCLP	Lab ID: QC-2284412-004
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/21/25 02:09
Prep Date: 10/19/25 08:12

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	1.03	mg/L	0.0499	1	<0.00190	102	75-125			

MSD	CLIENT ID: 4000 Fairview SB02 TCLP	Lab ID: QC-2284412-005
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/21/25 02:12
Prep Date: 10/19/25 08:12

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	1.03	mg/L	0.0499	1	<0.00190	102	75-125	0.0847	20	

The following samples were analyzed in this batch: HN2515196-001

ANALYST SUMMARY



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

Work Order: HN2515196

Sample Name: 4000 Fairview SB02 TCLP
Laboratory Code: HN2515196-001
Sample Matrix: SOIL/SOLID

Date Collected: 10/13/25
Date Received: 10/14/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AD	2284412	Nicolee Allen	3605054	Stephanie Pierson



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	4000 Fairview	A	TCLP Arsenic										
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											
				F											
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188	G											
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					Hold
1	4000 Fairview SPS2 TCLP	10/13/25	12:00	Soil		2	X								
2															
3															
4															
5															
6															
7															
8															
9															
10															
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:		☐ Other		Results Due Date:							
Shannon Haczmarek				☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour											
Relinquished by:		Date:	Time:	Received by:		Notes:									
Shannon Haczmarek		10/13/25	1547	Celine											
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler Temp.		QC Package: (Check Box Below)							
QS		10/14/25	0700	Brittany H		10/14/25 0700		127 3.7c		☐ Level II: Standard QC		☐ TRRP-Checklist			
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):						☐ Level III: Std QC + Raw Data		☐ TRRP Level IV			
BH		10/14/25	10:00							☐ 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:

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ALS Holland Sample Receiving Checklist

Received by: B. H. H. H.

Date/Time: 10/14/25 0700

Carrier Name: GS

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): 3.7 13.7

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: 10/14/25 10:00

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: