

DRAFT

FILL MATERIAL SAMPLING REPORT

19250 ANDOVER STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48214



FEBRUARY 12, 2026
REVISED: APRIL 13, 2026

PREPARED FOR:

THE CITY OF DETROIT DEMOLITION DEPARTMENT

1301 THIRD STREET, SUITE 606

DETROIT, MICHIGAN 48226



FILL MATERIAL SAMPLING REPORT

19250 ANDOVER 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 19250 Andover 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); 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. 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 19250 SB01, 19250 SB02, and 19250 SB03 generally consisted of brown silty clay and some gravel to six (6) feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris was observed in 19250 SB01 and 19250 SB03.
- Concentrations of arsenic and chromium (Total) were detected in soil samples 19250 SB01 (1-2')_20260116, 19250 SB02 (3-4')_20260116, and/or 19250 SB03 (5-6')_20260116 in excess of their respective Part 201 groundwater surface water interface protection criteria (GSIPC), drinking water protection criteria (DWPC), and/or direct contact criteria (DCC).
- Concentrations of 1,2,4-trimethylbenzene were detected in soil sample 19250 SB02 (3-4')_20260116 in excess of its respective soil volatilization to indoor air pathway (SVIAP).
- Concentrations of 1,2,4-trimethylbenzene, 2-methylnaphthalene, acetone, anthracene, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, bis(2-ethylhexyl) phthalate, chloride, chrysene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, phenanthrene, pyrene, and zinc were detected in soil samples 19250 SB01 (1-2')_20260116, 19250 SB02 (3-4')_20260116, and/or 19250 SB03 (5-6')_20260116 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 pesticides were not in excess of 40 C.F.R. § 261.24 Title 40 - *Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste*.
- PCBs, pesticides, and herbicides were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD,

and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Since the building on site has been razed, the soil volatilization to indoor air pathway (SVIAP) is not currently complete, however, consideration may need to be given to this pathway if future construction is planned. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

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 19250 Andover Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location as referenced to nearby roads and major geographic features is presented as *Figure 1, Site Location Map*. *Figure 2, Site Layout*, depicts the current layout of the Site.

The purpose of this work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths. The scope of work for this investigation was performed in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. This report presents the findings of this investigation. Soil samples were collected by MSG on August 16, 2026, and February 25, 2026. 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 January 16, 2026, and February 25, 2026. 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 19250 SB01, 19250 SB02, and 19250 SB03, using a direct push drill rig at the locations depicted on Figure 2. Photographs collected during the 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 February 25, 2026, 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 and/or applicable Toxicity Characteristic Constituents and Regulatory Levels. Soils were continuously profiled from the ground surface to the termination depth of six feet bgs using a direct push drill rig. The soil sample was placed into unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses.

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 19250 SB01 (1-2')_20260116, 19250 SB02 (3-4')_20260116, and 19250 SB03 (5-6')_20260116, 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 January 16, 2026, and February 25, 2026.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 19250 SB01, 19250 SB02, and 19250 SB03 generally consisted of brown silty clay and some gravel to six (6) feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris was observed in 19250 SB01 and 19250 SB03.

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 19250 SB01 (1-2')_20260116, 19250 SB02 (3-4')_20260116, and 19250 SB03 (5-6')_20260116, 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	19250 SB01 (1-2')_20260116	GSIPC ² / 4,600	9,170
		19250 SB02 (3-4')_20260116	DWPC ³ / 4,600	
		19250 SB03 (5-6')_20260116	DCC ⁴ / 7,600	
Chromium (Total)	7440-47-3	19250 SB02 (3-4')_20260116	GSIPC ² / 3,300	20,300

¹µg/kg – micrograms per kilogram;

²GSIPC – Groundwater Surface Water Interface Protection Criteria

³DWPC – Drinking Water Protection Criteria

⁴DCC – Direct Contact Criteria

4.3 TCLP Analytical Results

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

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

4.4 Exposure Evaluation

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

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

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 19250 SB01, 19250 SB02, and 19250 SB03 generally consisted of brown silty clay and some gravel to six (6) feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris was observed in 19250 SB01 and 19250 SB03.
- Concentrations of arsenic and chromium (Total) were detected in soil samples 19250 SB01 (1-2')_20260116, 19250 SB02 (3-4')_20260116, and/or 19250 SB03 (5-6')_20260116 in excess of their respective Part 201 groundwater surface water interface protection criteria (GSIPC), drinking water protection criteria (DWPC), and/or direct contact criteria (DCC).

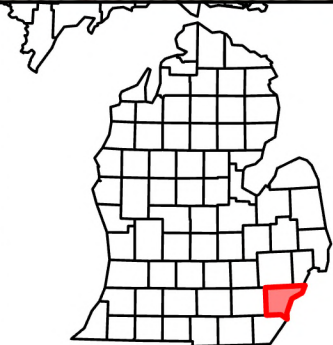
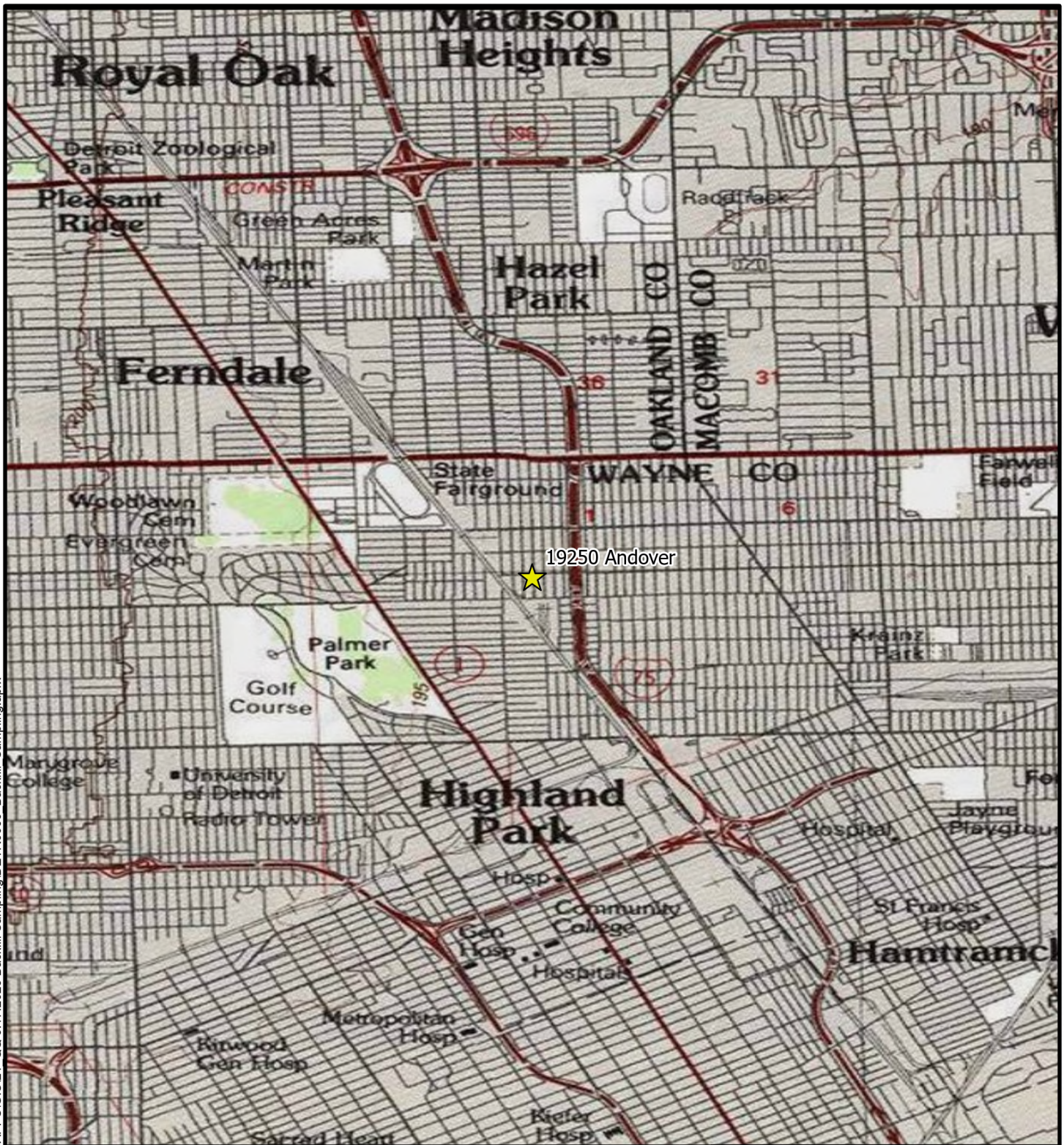
- Concentrations of 1,2,4-trimethylbenzene were detected in soil sample 19250 SB02 (3-4')_20260116 in excess of its respective soil volatilization to indoor air pathway (SVIAP).
- Concentrations of 1,2,4-trimethylbenzene, 2-methylnaphthalene, acetone, anthracene, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, bis(2-ethylhexyl) phthalate, chloride, chrysene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, phenanthrene, pyrene, and zinc were detected in soil samples 19250 SB01 (1-2')_20260116, 19250 SB02 (3-4')_20260116, and/or 19250 SB03 (5-6')_20260116 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 pesticides were not in excess of 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste.
- PCBs, pesticides, and herbicides were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

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

19250 Andover, Detroit, MI

DATE 1/8/2026	DRAWN BY JWW	DESIGNED BY JWW	PROJECT NO. DETR0060
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- Sample Locations
- ▭ Parcels (Current)
- ▭ Subject Property

Notes
• Parcel boundaries are approximate
• Basemap Credits: SampleLocations:
GPS_Test:
All Roads:
Parcels (Current):
Wayne - 2020 - 6in - 4-band:



FIGURE 2
Site Layout

19250 Andover, Detroit, MI

DATE 1/6/2026	DRAWN BY JWW	DESIGNED BY KRB	PROJECT NO. DETR0060
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TABLES



Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
19250 Andover, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 and Volatilization to Indoor Air Pathway Screening Levels Revised February 26, 2024	Inorganic Anions/Ions	Metals							Semivolatile Organic Compounds (SVOCs)												Volatile Organic Compounds (VOCs)				
	Chloride	Arsenic (B)	Barium (B)	Chromium, Total (B)	Copper (B)	Lead (B)	Mercury (B)	Zinc (B)	2-Methylnaphthalene	Anthracene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Bis(2-ethylhexyl) phthalate	Chrysene	Fluoranthene	Indeno(1,2,3-Cd)Pyrene	Phenanthrene	Pyrene	1,2,4-Trimethylbenzene	Acetone		
	CAS Number	16887-00-6	7440-38-2	7440-39-3	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7440-66-6	91-57-6	120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	117-81-7	218-01-9	206-44-0	193-39-5	85-01-8	129-00-0	95-63-6	67-64-1	
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	
	Statewide Default Background Levels	NC	5,800	75,000	18,000	32,000	21,000	130	47,000	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
	Drinking Water Protection Criteria (DWPC)	5.00E+06	4,600	1.30E+06	30,000	5.80E+06	7.00E+05	1,700	2.40E+06	57,000	41,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7.30E+05	NLL	56,000	4.80E+05	2,100	15,000	
	Groundwater Surface Water Interface Protection Criteria (GSIIPC)	NC	4,600	4.40E+05 ^(G)	3,300	75,000 ^(G)	6.00E+06 ^(G)	50 ^(M,1,2)	1.60E+05	4,200	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	NLL	2,100	ID	570	34,000	
	Soil Volatilization to Indoor Air Inhalation (SVIIC)	NC	NLV	NLV	NC	NLV	NLV	48,000	NC	2.70E+06	1.00E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	1.00E+09	NLV	2.80E+06	1.00E+09	4.30E+06	2.90E+08	
	Soil Volatilization to Indoor Air Pathway (SVIAP)	NC	NC	NC	NC	NC	NC	22 ^(M)	NC	1,700	1.30E+07	1.60E+05 ^(M)	NC	NC	NC	NC	NC	NC	NC	NC	1,700	2.50E+07	150	2.60E+05	
	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	NC	NLV	NLV	NC	NLV	NLV	52,000	NC	1.50E+06	1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	7.40E+08	NLV	1.60E+05	6.50E+08	2.10E+07	1.30E+08	
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)	NC	NLV	NLV	NC	NLV	NLV	52,000	NC	1.50E+06	1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	7.40E+08	NLV	1.60E+05	6.50E+08	5.00E+08	1.30E+08		
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)	NC	NLV	NLV	NC	NLV	NLV	52,000	NC	1.50E+06	1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	7.40E+08	NLV	1.60E+05	6.50E+08	5.00E+08	1.90E+08		
Particulate Soil Inhalation Criteria (PSIC)	NC	7.20E+05	3.30E+08	2.60E+05	1.30E+08	1.00E+08	2.00E+07	NC	6.70E+08	6.70E+10	ID	1.50E+06	ID	8.00E+08	ID	7.00E+08	ID	9.30E+09	ID	6.70E+06	6.70E+09	8.20E+10	3.90E+11		
Direct Contact Criteria (DCC)	5.00E+05	7,600	3.70E+07	2.50E+06	2.00E+07	4.00E+05	1.60E+05	1.70E+08	8.10E+06	2.30E+08	20,000	2,000	20,000	2.50E+06	2.00E+05	2.80E+06	2.00E+06	4.60E+07	20,000	1.60E+06	2.90E+07	3.20E+07	2.30E+07		
Soil Saturation Concentration Screening Levels (Csat)	NC	NA	NA	NC	NA	NA	NA	NC	NA	NA	NA	NA	NA	NA	NA	1.00E+07	NA	NA	NA	NA	NA	1.10E+05	1.10E+08		
Sample ID	Sample Depth (ft)	Sample Date																							
19250 SB01	1.0 - 2.0	01/16/2026	70,600	6,330	80,100	15,200 S	30,100	93,200	69	125,000	232	<126	374	392	748	321	730	<736	249	784	392	338	623	102	<108
19250 SB02	3.0 - 4.0	01/16/2026	142,000	7,650	105,000	20,300	18,200	15,500	60.1	56,200	<48.6	124	239	220	287	191	115	1,140	172	459	230	373	421	160	495
19250 SB03	5.0 - 6.0	01/16/2026	79,200	9,170	56,200	12,100	16,700	23,100	53.4	45,200	<50.3	<69.8	99	139	139	119	<75	<409	<80.1	198	119	119	139	109	<156

Notes

Only parameters with one or more detections are shown.

ug/kg = Micrograms per Kilogram.

Exceeds Generic Drinking Water Protection Criteria.

Exceeds Groundwater Surface Water Interface Protection Criteria.

Exceeds Applicable Soil Vapor Inhalation Criteria/Screening Levels.

Exceeds Two or More DWPC, GSIIPC, and/or Applicable Soil Vapor Inhalation Criteria/Screening Levels.

Exceeds PSIC, DCC, and/or Csat, likely exceeds others.

Bold indicates concentration above laboratory reporting limits.

NC = No Criteria; NA = Not Applicable; NLV = Not Likely to Volatize; NLL = Not Likely to Leach.

Part 201 GSIIPC Hardness specific criteria (G) calculated using a regional hardness value of the lower portion of the lower peninsula, 150 mg CaCO3/L.

Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, updated October 12, 2023.

Table 2
TCLP Analytical Detection Summary

Table 2
TCLP Analytical Detection Summary

Detroit Backfill Sampling
19250 Andover, 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 Pesticides						
		Chlordane	Endrin	Lindane	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
Maximum Concentration of Contaminants for the Toxicity Characteristic		0.03	0.02	0.4	0.008	0.008	10.0	0.5
SAMPLE ID	SAMPLE DATE							
19250 TCLP SB01 (1-2')_20260225	2/25/2026	<0.00000794	<0.00000845	<0.00000826	<0.00000755	<0.00000788	<0.00000982	<0.000109

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 with 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
Project: DETR0060 / 19250 Andover

Report No.: 01
Job No.: _____

Date: <u>1/16/2026</u>	Day: <u>Friday</u>	Temp: <u>24F</u> (AM) <u>15F</u> (PM)
MSG Personnel: <u>EJH, KDW, MW</u>	Cloud Cover: <u> </u> % (AM) <u> </u> % (PM)	Precip.: <u> </u> (AM) <u>Light snow</u> (PM)
Personnel: _____		
MSG Hours On-Site: <u>1</u>		
Contractors Information		
Contractor: MSG No. Men and Type: 3; Geologist, Helper, Driller Equipment Type: drill rig, PID		
Summary of Work Performed:		
Drill 3 boreholes, sample three borings		
Field Notes:		
08:45 - EJH/KDW on Site 08:54 - Driller (MW) on Site 09:10 Started drilling SB-01 09:15 - Collected SB-01 sample 09:19 - Started drilling SB-02 09:29 - SB-02 sample collected 09:31 - Started drilling SB-03 09:40 - Collected SB-03 sample		

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



DAILY FIELD REPORT

Client: City of Detroit
Project: DETR0060 / 19250 Andover

Report No.: 02
Job No.: _____

Date: <u>2/25/2026</u>	Day: <u>Wednesday</u>	Temp: <u>35F</u> (AM) _____ (PM) _____
MSG Personnel: <u>ZK, MW</u>		Cloud Cover: _____% (AM) _____% (PM) _____
		Precip.: _____ (AM) _____ (PM) _____
Personnel: _____		
MSG Hours On-Site: <u>~1 hour</u>		
Contractors Information		
Contractor: MSG No. Men and Type: 3; Geologist, Helper, Equipment Type: drill rig, PID Driller		
Summary of Work Performed:		
- Advanced one soil boring to a maximum depth of 6 feet below ground surface (bgs) - Collected one soil sample from soil boring SB01 (1-2') to submit for TCLP analysis.		
Field Notes:		
1015 – MSG on-site (19250 Andover) 1020 – Unloaded equipment and marked out boring location 1027 – Begin drilling SB01 (1-2') 1035 – 19250 TCLP SB01 (1-2')_20260225 sampled 1045 – Packed up equipment 1100 – MSG off-site		

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

APPENDIX C

INVESTIGATION PHOTOGRAPHS





Photo 1: View of the Site pre-drilling, facing east.



Photo 2: View of drilling at 19250 SB01, facing east.



Photo 3: Viewing 19250 SB02 soil recovery, facing east.



Photo 4: View of drilling at 19250 SB03, facing east.

APPENDIX D

SOIL BORING LOGS





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

BOREHOLE NUMBER SB03

Sheet 1 of 1

CLIENT City of Detroit
PROJECT NUMBER DETR0060_19250 Andover
DATE STARTED 01-16-2026 **COMPLETED** 01-16-2026
DRILLING CONTRACTOR MSG
DRILLING METHOD Direct Push
EQUIPMENT GeoProbe 7822DT **Operator** MW

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 19250 Andover, Detroit, MI
POSITION
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
LOGGED BY EJH **CHECKED BY** SCD
REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
				Brown, Gravelly CLAY, Dry	0	
				1.8		
				Brown, Silty CLAY, Dry - Concrete debris at 1.8' bgs	0	
ES		64		3.3		
				Brown, CLAY, Dry - Concrete debris at 4' bgs	0	
5					0	Collected Soil Sample 19250 SB03 (5-6') _20260116 at 0940
				6.0		
				Terminated at 6.00 ft.		
10						

LEGEND:

- ▽ AT TIME OF DRILLING Not Encountered
▼ AT END OF DRILLING
▽ AFTER DRILLING

APPENDIX E

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

January 26, 2026

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

Re: **19250 Andover**

Date Received: **01/17/2026**

Work Order: **HN2600832**

Dear Ryan,

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

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

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

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

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

Kathy Jones-Gronda

/S/ **BRIAN GRZAN** on behalf of PM listed above

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover

Work Order: HN2600832
Date Received: 17-Jan-2026

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 17-Jan-2026. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

WorkOrder: HN2600832

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

Organics

EPA 8270E-FULL HN-3546-S

Run ID: 3835774

The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Atrazine.

The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: 2,4-Dinitrophenol; 4,6-Dinitro-2-Methylphenol; Benzoic acid; Di-n-octylphthalate. HN2600832-001: Benzo(b)fluoranthene - Split Peak could not be resolved. Sample results should be considered estimated for the following analytes: Benzo(b)fluoranthene; Benzo(k)fluoranthene.

HN2600832-001: Benzo(k)fluoranthene - Split Peak could not be resolved. Sample results should be considered estimated for the following analytes: Benzo(b)fluoranthene; Benzo(k)fluoranthene.

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

Run ID: 3833207

QC-2422019-006The 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 report

QC-2422019-006The MSD recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary: tetrachloroethene

QC-2422019-005The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: see qc report

QC-2422019-005The MS recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary: tetrachloroethene

QC-2422019-002The 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: tetrachloroethene

The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification:

Chloroethane (Ethyl chloride), Dichlorodifluoromethane (Freon-12), Methyl bromide (Bromomethane), Trichlorofluoromethane (Fluorotrichloromethane, Freon 11), Vinyl chloride (Chloroethene)

EPA 8151A-S



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover

Work Order: HN2600832
Date Received: 17-Jan-2026

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.

Run ID: 3838451

The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: 2,4-D.

EPA 8081B-3546-S (High)

Run ID: 3837308

HN2600832-001: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

HN2600832-001: The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Heptachlor

Run ID: 3833201

HN2600832-002: One or more surrogate recoveries were below the lower control limits. The sample results may be biased low.

Metals

EPA 7471B-S (Mid)

Run ID: 3842171

Matrix spike duplicate value was outside upper limit of calibration. Processed at equivalent dilution level as the parent. Hg Batch 2427774

The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Hg Batch 2427774

Matrix spike value was outside upper limit of calibration. Processed at equivalent dilution level as the parent. Hg Batch 2427774

EPA 6020B-3050B-S

Run ID: 3838280

The matrix spike recoveries are unavailable due to dilution below the calibration range. Zn Batch 2426113

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 2426113

Run ID: 3836793

The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Cu, Pb Batch 2426113

The MS recovery was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: As, Cr Batch 2426113

The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Cu, Pb Batch 2426113

HN2600832-001: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

Run ID: 3836793

HN2600832-001: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag
HN2600832-001: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag
HN2600832-002: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag
HN2600832-002: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag
HN2600832-002: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag
HN2600832-003: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag
HN2600832-003: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag
HN2600832-003: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

Inorganics

EPA 9056A-S (High)

Run ID: 3832077

The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Chloride, Sulfate
The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for the following analyte(s): Chloride, Sulfate

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: 19250 SB01 (1-2)_20260116			Lab ID: HN2600832-001		
--------------------------------------	--	--	-----------------------	--	--

Analyte	Results	Flag	MRL	Units	Method
1,2,4-Trimethylbenzene	102		36.5	µg/kg	EPA 8260D
2-Methylnaphthalene	232		178	µg/kg	EPA 8270E
Arsenic	6.33	S	3.36	mg/kg	EPA 6020B
Barium	80.1		3.36	mg/kg	EPA 6020B
Benzo(a)anthracene	374		178	µg/kg	EPA 8270E
Benzo(a)pyrene	392		178	µg/kg	EPA 8270E
Benzo(b)fluoranthene	748		178	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	321		178	µg/kg	EPA 8270E
Benzo(k)fluoranthene	730		178	µg/kg	EPA 8270E
Chloride	70.6		11.9	mg/kg	EPA 9056A
Chromium	15.2	S	3.36	mg/kg	EPA 6020B
Chrysene	249		178	µg/kg	EPA 8270E
Copper	30.1		3.36	mg/kg	EPA 6020B
Fluoranthene	784		178	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	392		178	µg/kg	EPA 8270E
Lead	93.2		3.36	mg/kg	EPA 6020B
Mercury	0.0690		0.0213	mg/kg	EPA 7471B
Percent Moisture	13.6		0.1	%	EPA 3550C
Phenanthrene	338		178	µg/kg	EPA 8270E
Pyrene	623		178	µg/kg	EPA 8270E
Zinc	125		67.1	mg/kg	EPA 6020B

CLIENT ID: 19250 SB02 (3-4)_20260116			Lab ID: HN2600832-002		
--------------------------------------	--	--	-----------------------	--	--

Analyte	Results	Flag	MRL	Units	Method
1,2,4-Trimethylbenzene	160		39.0	µg/kg	EPA 8260D
Acetone	495		130	µg/kg	EPA 8260D
Anthracene	124		95.7	µg/kg	EPA 8270E
Arsenic	7.65		3.52	mg/kg	EPA 6020B
Barium	105		3.52	mg/kg	EPA 6020B
Benzo(a)anthracene	239		95.7	µg/kg	EPA 8270E
Benzo(a)pyrene	220		95.7	µg/kg	EPA 8270E
Benzo(b)fluoranthene	287		95.7	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	191		95.7	µg/kg	EPA 8270E
Benzo(k)fluoranthene	115		95.7	µg/kg	EPA 8270E
Chloride	142		13.6	mg/kg	EPA 9056A
Chromium	20.3		3.52	mg/kg	EPA 6020B
Chrysene	172		95.7	µg/kg	EPA 8270E
Copper	18.2		3.52	mg/kg	EPA 6020B
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	1140		474	µg/kg	EPA 8270E
Fluoranthene	459		95.7	µg/kg	EPA 8270E

SAMPLE DETECTION SUMMARY

This form includes only detections above the limits as presented.

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



CLIENT ID: 19250 SB02 (3-4)_20260116

Lab ID: HN2600832-002

Analyte	Results	Flag	MRL	Units	Method
Indeno(1,2,3-cd) pyrene	230		95.7	µg/kg	EPA 8270E
Lead	15.5		3.52	mg/kg	EPA 6020B
Mercury	0.0601		0.0226	mg/kg	EPA 7471B
Percent Moisture	17.8		0.1	%	EPA 3550C
Phenanthrene	373		95.7	µg/kg	EPA 8270E
Pyrene	421		95.7	µg/kg	EPA 8270E
Zinc	56.2		7.03	mg/kg	EPA 6020B

CLIENT ID: 19250 SB03 (5-6)_20260116

Lab ID: HN2600832-003

Analyte	Results	Flag	MRL	Units	Method
1,2,4-Trimethylbenzene	109		52.5	µg/kg	EPA 8260D
Arsenic	9.17		3.94	mg/kg	EPA 6020B
Barium	56.2		3.94	mg/kg	EPA 6020B
Benzo(a)anthracene	99.0		99.0	µg/kg	EPA 8270E
Benzo(a)pyrene	139		99.0	µg/kg	EPA 8270E
Benzo(b)fluoranthene	139		99.0	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	119		99.0	µg/kg	EPA 8270E
Chloride	79.2		12.8	mg/kg	EPA 9056A
Chromium	12.1		3.94	mg/kg	EPA 6020B
Copper	16.7		3.94	mg/kg	EPA 6020B
Fluoranthene	198		99.0	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	119		99.0	µg/kg	EPA 8270E
Lead	23.1		3.94	mg/kg	EPA 6020B
Mercury	0.0534		0.0204	mg/kg	EPA 7471B
Percent Moisture	23.4		0.1	%	EPA 3550C
Phenanthrene	119		99.0	µg/kg	EPA 8270E
Pyrene	139		99.0	µg/kg	EPA 8270E
Zinc	45.2		7.87	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Workorder: HN2600832

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2600832-001	19250 SB01 (1-2)_20260116	SOIL/SOLID	01/16/26 09:15	01/17/26 08:00
HN2600832-002	19250 SB02 (3-4)_20260116	SOIL/SOLID	01/16/26 09:29	01/17/26 08:00
HN2600832-003	19250 SB03 (5-6)_20260116	SOIL/SOLID	01/16/26 09:40	01/17/26 08:00



ALS Environmental

Laboratory location:

Chain of Custody Form

Page _____ of _____

Customer Information		Project Information		Parameter/Method Request for Analysis															
Purchase Order		Project Name	19250 Andover	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	Mannik Smith Group	Bill To Company	Mannik Smith Group	C PCBs (U.S. EPA Method 8082)															
Send Report To	Ryan Montri and Olivia Mitchell	Invoice Attn.		D Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)															
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road	E Chlorides (U.S. EPA Method 9056A)															
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188	F Pesticides (U.S. EPA Method 8081B (or Method 8081))															
Phone	734-397-3100	Phone	734-397-3100	G Herbicides (U.S. EPA Method 8151A (or Method 8151))															
Fax		Fax		H															
e-Mail Address	montri@manniksmithgroup.com	e-Mail Address	omitchell@manniksmithgroup.com	I															
				J															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	19250 SB01 (1-2) 2026 0116	1/16/26	0915	Soil	7	3	✓	✓	✓	✓	✓	✓	✓						
2	19250 SB02 (3-4) 2026 0116	1/16/26	0929	Soil	7	3	✓	✓	✓	✓	✓	✓	✓						
3	19250 SB03 (5-6) 2026 0116	1/16/26	0940	Soil	7	3	✓	✓	✓	✓	✓	✓	✓						
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:		☐ Other _____	
Eric Haas (MSG) [Signature]				☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour			
Relinquished by:		Date:	Time:	Received by:		Notes:	
Eric Haas (MSG) [Signature]		1/16/26	1515	[Signature] 1/16 1515			
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler Temp.	
[Signature]		1/16	1700	[Signature] 1/16 1700		2.1°C	
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		QC Package: (Check Box Below)	
[Signature]		1/17	15:00	[Signature]		☒ Level II: Standard QC ☐ TRRP-Checklist	
						☐ Level III: Std QC + Raw Data ☐ TRRP Level IV	
						☐ Level IV: SW846 CLP-Like	
						Other: _____	

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NAOH 5-NA2S2O3 6-NAHSO4 7-Other 8-4 degrees C 9-5035

Environmental Division
Holland

Work Order Reference

HN2600832



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

3352 128th Ave., Holland MI 49424

ALS Holland Sample Receiving Checklist

Received by: BC

Date/Time: 1/17/26 08:00

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): 2.1°C

Thermometer(s): 127

Sample(s) received on ice? Yes / No

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 1/17/26

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

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

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

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

pH adjusted by: _____

Login Notes:

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HN-SHT-160-R01, Sample Receipt Checklist

REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit (if MCL displayed)
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
NC	Not Calculated
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
V	The Continuing Calibration Verification was outside of control criteria
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Holland Laboratory Certifications¹

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

¹ - Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover

Work Order: HN2600832

Sample Name: 19250 SB01 (1-2)_20260116
Laboratory Code: HN2600832-001
Sample Matrix: SOIL/SOLID

Date Collected: 01/16/26
Date Received: 01/17/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AA	2422981		3830350	Nicole Maleski
EPA 6020B	EPA 3050B	001-AA	2426113	Weston Kotecki	3836793	Hunter Johnson
EPA 6020B	EPA 3050B	001-AA	2426113	Weston Kotecki	3838280	Hunter Johnson
EPA 7471B	Method	001-AA	2427774	Maxx Richey	3842171	Maxx Richey
EPA 8081B	EPA 3546	001-AA	2421584	Mya Harmer	3837308	Madison VandenBer
EPA 8082A	EPA 3546	001-AA	2421581	Mya Harmer	3831072	Madison VandenBer
EPA 8151A	Method	001-AA	2423622	Willow Julien	3838451	Kathy Malmyga
EPA 8260D	EPA 5035A	001-AB	2422019	Jonathan Vazquez	3833207	John Garvale
EPA 8270E	EPA 3546	001-AA	2422965	Benjamin Farmer	3835774	Taryn Van Wyngarde
EPA 9056A	EPA 9056A	001-AA	2422266	Kelsey Beaudette	3832077	Quoc Nguyen

Sample Name: 19250 SB02 (3-4)_20260116
Laboratory Code: HN2600832-002
Sample Matrix: SOIL/SOLID

Date Collected: 01/16/26
Date Received: 01/17/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AA	2422981		3830350	Nicole Maleski
EPA 6020B	EPA 3050B	002-AA	2426113	Weston Kotecki	3836793	Hunter Johnson
EPA 7471B	Method	002-AA	2427774	Maxx Richey	3842171	Maxx Richey
EPA 8081B	EPA 3546	002-AA	2421584	Mya Harmer	3833201	Madison VandenBer
EPA 8082A	EPA 3546	002-AA	2421581	Mya Harmer	3831072	Madison VandenBer
EPA 8151A	Method	002-AA	2423622	Willow Julien	3838451	Kathy Malmyga
EPA 8260D	EPA 5035A	002-AB	2422019	Jonathan Vazquez	3833207	John Garvale
EPA 8270E	EPA 3546	002-AA	2422965	Benjamin Farmer	3835774	Taryn Van Wyngarde
EPA 9056A	EPA 9056A	002-AA	2422266	Kelsey Beaudette	3832077	Quoc Nguyen

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover

Work Order: HN2600832

Sample Name: 19250 SB03 (5-6)_20260116
Laboratory Code: HN2600832-003
Sample Matrix: SOIL/SOLID

Date Collected: 01/16/26
Date Received: 01/17/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AA	2422981		3830350	Nicole Maleski
EPA 6020B	EPA 3050B	003-AA	2426113	Weston Kotecki	3836793	Hunter Johnson
EPA 7471B	Method	003-AA	2427774	Maxx Richey	3842171	Maxx Richey
EPA 8081B	EPA 3546	003-AA	2421584	Mya Harmer	3833201	Madison VandenBer
EPA 8082A	EPA 3546	003-AA	2421581	Mya Harmer	3831072	Madison VandenBer
EPA 8151A	Method	003-AA	2423622	Willow Julien	3838451	Kathy Malmyga
EPA 8260D	EPA 5035A	003-AB	2422019	Jonathan Vazquez	3833207	John Garvale
EPA 8270E	EPA 3546	003-AA	2422965	Benjamin Farmer	3835774	Taryn Van Wyngarde
EPA 9056A	EPA 9056A	003-AA	2422266	Kelsey Beaudette	3832077	Quoc Nguyen

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:15
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB01 (1-2)_20260116

Lab ID: HN2600832-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<6.82	U	µg/kg	37.1	1	01/22/26 19:07	01/20/26 15:08
2,4,5-TP (Silvex)	EPA 8151A	<12.2	U	µg/kg	37.1	1	01/22/26 19:07	01/20/26 15:08
2,4-D	EPA 8151A	<19.8	U	µg/kg	74.1	1	01/22/26 19:07	01/20/26 15:08
Surr: DCAA	EPA 8151A	74.0		%REC	10-116	1	01/22/26 19:07	01/20/26 15:08
General Chemistry Parameters								
Percent Moisture	EPA 3550C	13.6		%	0.1	1	01/20/26 13:16	NA
Chloride	EPA 9056A	70.6		mg/kg	11.9	1	01/20/26 19:54	01/19/26 15:22
Metals								
Arsenic	EPA 6020B	6.33	S	mg/kg	3.36	10	01/22/26 16:35	01/22/26 09:47
Barium	EPA 6020B	80.1		mg/kg	3.36	10	01/22/26 16:35	01/22/26 09:47
Cadmium	EPA 6020B	<0.201	U	mg/kg	1.34	10	01/22/26 16:35	01/22/26 09:47
Chromium	EPA 6020B	15.2	S	mg/kg	3.36	10	01/22/26 16:35	01/22/26 09:47
Copper	EPA 6020B	30.1		mg/kg	3.36	10	01/22/26 16:35	01/22/26 09:47
Lead	EPA 6020B	93.2		mg/kg	3.36	10	01/22/26 16:35	01/22/26 09:47
Selenium	EPA 6020B	<3.09	U	mg/kg	3.36	10	01/22/26 16:35	01/22/26 09:47
Silver	EPA 6020B	<0.443	SU	mg/kg	3.36	10	01/22/26 16:35	01/22/26 09:47
Zinc	EPA 6020B	125		mg/kg	67.1	100	01/23/26 12:44	01/22/26 09:47
Mercury	EPA 7471B	0.0690		mg/kg	0.0213	1	01/26/26 13:50	01/23/26 13:25
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<181	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
4,4'-DDE	EPA 8081B	<186	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
4,4'-DDT	EPA 8081B	<188	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
Aldrin	EPA 8081B	<184	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
alpha-BHC	EPA 8081B	<186	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
beta-BHC	EPA 8081B	<186	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
Chlordane, Technical	EPA 8081B	<280	VU	µg/kg	707	10	01/21/26 12:36	01/19/26 08:04
cis-Chlordane	EPA 8081B	<189	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
delta-BHC	EPA 8081B	<185	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
Dieldrin	EPA 8081B	<198	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:15
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB01 (1-2)_20260116

Lab ID: HN2600832-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<190	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
Endosulfan II	EPA 8081B	<187	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
Endosulfan sulfate	EPA 8081B	<174	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
Endrin	EPA 8081B	<229	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
Endrin aldehyde	EPA 8081B	<179	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
Endrin ketone	EPA 8081B	<172	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
gamma-BHC (Lindane)	EPA 8081B	<186	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
Heptachlor	EPA 8081B	<182	VU	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
Heptachlor epoxide	EPA 8081B	<187	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
Methoxychlor	EPA 8081B	<189	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
Toxaphene	EPA 8081B	<305	VU	µg/kg	1700	10	01/21/26 12:36	01/19/26 08:04
trans-Chlordane	EPA 8081B	<188	U	µg/kg	283	10	01/21/26 12:36	01/19/26 08:04
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	114		%REC	53-151	10	01/21/26 12:36	01/19/26 08:04
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	84.5		%REC	67-127	10	01/21/26 12:36	01/19/26 08:04

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<64.6	U	µg/kg	189	1	01/20/26 08:00	01/19/26 07:47
Aroclor 1221	EPA 8082A	<64.6	U	µg/kg	189	1	01/20/26 08:00	01/19/26 07:47
Aroclor 1232	EPA 8082A	<64.6	U	µg/kg	189	1	01/20/26 08:00	01/19/26 07:47
Aroclor 1242	EPA 8082A	<64.6	U	µg/kg	189	1	01/20/26 08:00	01/19/26 07:47
Aroclor 1248	EPA 8082A	<64.6	U	µg/kg	189	1	01/20/26 08:00	01/19/26 07:47
Aroclor 1254	EPA 8082A	<52.7	U	µg/kg	189	1	01/20/26 08:00	01/19/26 07:47
Aroclor 1260	EPA 8082A	<52.7	U	µg/kg	189	1	01/20/26 08:00	01/19/26 07:47
Aroclor 1262	EPA 8082A	<52.7	U	µg/kg	189	1	01/20/26 08:00	01/19/26 07:47
Aroclor 1268	EPA 8082A	<52.7	U	µg/kg	189	1	01/20/26 08:00	01/19/26 07:47
Total PCB	EPA 8082A	<52.7	U	µg/kg	189	1	01/20/26 08:00	01/19/26 07:47
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	113		%REC	54-146	1	01/20/26 08:00	01/19/26 07:47
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	88.5		%REC	58-140	1	01/20/26 08:00	01/19/26 07:47

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<145	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<205	U	µg/kg	8900	5	01/21/26 22:50	01/20/26 13:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:15
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB01 (1-2)_20260116

Lab ID: HN2600832-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<638	U	µg/kg	4450	5	01/21/26 22:50	01/20/26 13:29
1-Methylnaphthalene	EPA 8270E	<128	U	µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<209	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
2,3,4,6-Tetrachlorophenol	EPA 8270E	<652	U	µg/kg	1780	5	01/21/26 22:50	01/20/26 13:29
2,4,5-Trichlorophenol	EPA 8270E	<528	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
2,4,6-Trichlorophenol	EPA 8270E	<237	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
2,4-Dichlorophenol	EPA 8270E	<479	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
2,4-Dimethylphenol	EPA 8270E	<458	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
2,4-Dinitrophenol	EPA 8270E	<6510	U	µg/kg	8900	5	01/21/26 22:50	01/20/26 13:29
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<578	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<227	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
2-Chloronaphthalene	EPA 8270E	<124	U	µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
2-Chlorophenol	EPA 8270E	<583	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<744	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
2-Methylnaphthalene	EPA 8270E	232		µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
2-Methylphenol (o-Cresol)	EPA 8270E	<241	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
2-Nitroaniline	EPA 8270E	<494	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
2-Nitrophenol	EPA 8270E	<254	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
3&4-Methylphenol	EPA 8270E	<485	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
3,3'-Dichlorobenzidine	EPA 8270E	<416	U	µg/kg	4450	5	01/21/26 22:50	01/20/26 13:29
3-Nitroaniline	EPA 8270E	<517	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<488	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
4-Chloro-3-methylphenol	EPA 8270E	<254	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
4-Chloroaniline	EPA 8270E	<453	U	µg/kg	1780	5	01/21/26 22:50	01/20/26 13:29
4-Chlorophenyl phenylether	EPA 8270E	<246	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
4-Nitroaniline	EPA 8270E	<1380	U	µg/kg	4450	5	01/21/26 22:50	01/20/26 13:29
4-Nitrophenol	EPA 8270E	<2090	U	µg/kg	8900	5	01/21/26 22:50	01/20/26 13:29
Acenaphthene	EPA 8270E	<129	U	µg/kg	178	5	01/21/26 22:50	01/20/26 13:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:15
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB01 (1-2)_20260116

Lab ID: HN2600832-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<154	U	µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
Acetophenone	EPA 8270E	<139	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Anthracene	EPA 8270E	<126	U	µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
Atrazine	EPA 8270E	<522	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Benzaldehyde	EPA 8270E	<1370	U	µg/kg	1780	5	01/21/26 22:50	01/20/26 13:29
Benzo(a)anthracene	EPA 8270E	374		µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
Benzo(a)pyrene	EPA 8270E	392		µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
Benzo(b)fluoranthene	EPA 8270E	748		µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
Benzo(g,h,i)perylene	EPA 8270E	321		µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
Benzo(k)fluoranthene	EPA 8270E	730		µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
bis(2-Chloroethoxy) methane	EPA 8270E	<564	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
bis(2-Chloroethyl) ether	EPA 8270E	<252	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Butyl benzyl phthalate	EPA 8270E	<1110	U	µg/kg	1780	5	01/21/26 22:50	01/20/26 13:29
Caprolactam	EPA 8270E	<804	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Carbazole	EPA 8270E	<262	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Chrysene	EPA 8270E	249		µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<736	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Dibenz(a,h) anthracene	EPA 8270E	<96.2	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Dibenzofuran	EPA 8270E	<131	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Diethyl phthalate	EPA 8270E	<303	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Dimethyl phthalate	EPA 8270E	<174	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Fluoranthene	EPA 8270E	784		µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
Fluorene	EPA 8270E	<129	U	µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
Hexachlorobenzene	EPA 8270E	<259	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Hexachlorobutadiene	EPA 8270E	<210	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Hexachlorocyclopentadiene	EPA 8270E	<844	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Hexachloroethane	EPA 8270E	<369	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Indeno(1,2,3-cd) pyrene	EPA 8270E	392		µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
Isophorone	EPA 8270E	<174	U	µg/kg	4450	5	01/21/26 22:50	01/20/26 13:29
Methylphenol, Total	EPA 8270E	<241	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:15
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB01 (1-2)_20260116

Lab ID: HN2600832-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<114	U	µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
Nitrobenzene	EPA 8270E	<299	U	µg/kg	4450	5	01/21/26 22:50	01/20/26 13:29
n-Nitrosodi-n-propylamine	EPA 8270E	<147	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
N-Nitrosodiphenylamine	EPA 8270E	<516	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Pentachlorophenol	EPA 8270E	<707	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Phenanthrene	EPA 8270E	338		µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
Phenol	EPA 8270E	<447	U	µg/kg	882	5	01/21/26 22:50	01/20/26 13:29
Pyrene	EPA 8270E	623		µg/kg	178	5	01/21/26 22:50	01/20/26 13:29
Pyridine	EPA 8270E	<1750	U	µg/kg	4450	5	01/21/26 22:50	01/20/26 13:29
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	59.0		%REC	48-94	5	01/21/26 22:50	01/20/26 13:29
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	61.0		%REC	50-103	5	01/21/26 22:50	01/20/26 13:29
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	59.4		%REC	43-105	5	01/21/26 22:50	01/20/26 13:29
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	61.9		%REC	55-111	5	01/21/26 22:50	01/20/26 13:29
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	66.2		%REC	47-100	5	01/21/26 22:50	01/20/26 13:29
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	56.0		%REC	49-110	5	01/21/26 22:50	01/20/26 13:29

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<16.6	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
1,1,2,2-Tetrachloroethane	EPA 8260D	<16.1	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<23.1	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
1,1,2-Trichloroethane	EPA 8260D	<15.5	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
1,1-Dichloroethane	EPA 8260D	<13.3	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
1,1-Dichloroethylene	EPA 8260D	<11.8	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
1,2,3-Trichlorobenzene	EPA 8260D	<43.8	U	µg/kg	122	1	01/20/26 19:34	01/19/26 12:25
1,2,3-Trichloropropane	EPA 8260D	<15.3	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
1,2,4-Trichlorobenzene	EPA 8260D	<41.4	U	µg/kg	122	1	01/20/26 19:34	01/19/26 12:25
1,2,4-Trimethylbenzene	EPA 8260D	102		µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<33.6	U	µg/kg	122	1	01/20/26 19:34	01/19/26 12:25
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<21.5	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<13.9	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:15
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB01 (1-2)_20260116

Lab ID: HN2600832-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<21.5	U	µg/kg	122	1	01/20/26 19:34	01/19/26 12:25
1,2-Dichloropropane	EPA 8260D	<26.9	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
1,3,5-Trimethylbenzene	EPA 8260D	<25.8	U	µg/kg	122	1	01/20/26 19:34	01/19/26 12:25
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<25.2	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
1,3-Dichloropropene	EPA 8260D	<20.4	U	µg/kg	73.1	1	01/20/26 19:34	01/19/26 12:25
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<29.7	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<86.9	U	µg/kg	244	1	01/20/26 19:34	01/19/26 12:25
2-Hexanone	EPA 8260D	<18.1	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<34.0	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Acetone	EPA 8260D	<108	U	µg/kg	122	1	01/20/26 19:34	01/19/26 12:25
Benzene	EPA 8260D	<17.7	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Bromochloromethane	EPA 8260D	<18.6	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Bromodichloromethane	EPA 8260D	<20.5	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Bromoform	EPA 8260D	<15.4	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Carbon disulfide	EPA 8260D	<18.9	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Carbon tetrachloride	EPA 8260D	<14.3	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Chlorobenzene	EPA 8260D	<12.1	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Chlorodibromomethane	EPA 8260D	<20.5	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Chloroethane (Ethyl chloride)	EPA 8260D	<102	U	µg/kg	122	1	01/20/26 19:34	01/19/26 12:25
Chloroform	EPA 8260D	<13.4	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
cis-1,2-Dichloroethylene	EPA 8260D	<23.5	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
cis-1,3-Dichloropropene	EPA 8260D	<27.5	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Cyclohexane	EPA 8260D	<28.0	U	µg/kg	122	1	01/20/26 19:34	01/19/26 12:25
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<44.2	U	µg/kg	122	1	01/20/26 19:34	01/19/26 12:25
Ethylbenzene	EPA 8260D	<25.9	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Isopropylbenzene	EPA 8260D	<23.1	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
m+p-Xylene	EPA 8260D	<48.7	U	µg/kg	73.1	1	01/20/26 19:34	01/19/26 12:25
Methyl acetate	EPA 8260D	<43.7	U	µg/kg	304	1	01/20/26 19:34	01/19/26 12:25
Methyl bromide (Bromomethane)	EPA 8260D	<69.9	U	µg/kg	122	1	01/20/26 19:34	01/19/26 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:15
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB01 (1-2)_20260116

Lab ID: HN2600832-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<99.8	U	µg/kg	122	1	01/20/26 19:34	01/19/26 12:25
Methyl tert-butyl ether (MTBE)	EPA 8260D	<26.6	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Methylcyclohexane	EPA 8260D	<13.9	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Methylene chloride (Dichloromethane)	EPA 8260D	<96.9	U	µg/kg	304	1	01/20/26 19:34	01/19/26 12:25
o-Xylene	EPA 8260D	<14.1	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Styrene	EPA 8260D	<14.5	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<22.0	SU	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Toluene	EPA 8260D	<30.1	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Total Xylene	EPA 8260D	<14.1	U	µg/kg	110	1	01/20/26 19:34	01/19/26 12:25
trans-1,2-Dichloroethylene	EPA 8260D	<30.1	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
trans-1,3-Dichloropropylene	EPA 8260D	<20.4	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Trichloroethene (Trichloroethylene)	EPA 8260D	<16.4	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<18.7	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
Vinyl chloride (Chloroethene)	EPA 8260D	<24.3	U	µg/kg	36.5	1	01/20/26 19:34	01/19/26 12:25
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	104		%REC	80-120	1	01/20/26 19:34	01/19/26 12:25
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	01/20/26 19:34	01/19/26 12:25
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	101		%REC	72-120	1	01/20/26 19:34	01/19/26 12:25
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	99.6		%REC	80-120	1	01/20/26 19:34	01/19/26 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:29
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB02 (3-4)_20260116

Lab ID: HN2600832-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<6.33	U	µg/kg	34.4	1	01/22/26 19:22	01/20/26 15:08
2,4,5-TP (Silvex)	EPA 8151A	<11.3	U	µg/kg	34.4	1	01/22/26 19:22	01/20/26 15:08
2,4-D	EPA 8151A	<18.4	U	µg/kg	68.8	1	01/22/26 19:22	01/20/26 15:08
Surr: DCAA	EPA 8151A	82.0		%REC	10-116	1	01/22/26 19:22	01/20/26 15:08
General Chemistry Parameters								
Percent Moisture	EPA 3550C	17.8		%	0.1	1	01/20/26 13:16	NA
Chloride	EPA 9056A	142		mg/kg	13.6	1	01/20/26 20:18	01/19/26 15:22
Metals								
Arsenic	EPA 6020B	7.65		mg/kg	3.52	10	01/22/26 16:47	01/22/26 09:47
Barium	EPA 6020B	105		mg/kg	3.52	10	01/22/26 16:47	01/22/26 09:47
Cadmium	EPA 6020B	<0.211	U	mg/kg	1.41	10	01/22/26 16:47	01/22/26 09:47
Chromium	EPA 6020B	20.3		mg/kg	3.52	10	01/22/26 16:47	01/22/26 09:47
Copper	EPA 6020B	18.2		mg/kg	3.52	10	01/22/26 16:47	01/22/26 09:47
Lead	EPA 6020B	15.5		mg/kg	3.52	10	01/22/26 16:47	01/22/26 09:47
Selenium	EPA 6020B	<3.24	U	mg/kg	3.52	10	01/22/26 16:47	01/22/26 09:47
Silver	EPA 6020B	<0.464	U	mg/kg	3.52	10	01/22/26 16:47	01/22/26 09:47
Zinc	EPA 6020B	56.2		mg/kg	7.03	10	01/22/26 16:47	01/22/26 09:47
Mercury	EPA 7471B	0.0601		mg/kg	0.0226	1	01/26/26 13:52	01/23/26 13:25
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<18.1	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
4,4'-DDE	EPA 8081B	<18.7	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
4,4'-DDT	EPA 8081B	<18.8	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
Aldrin	EPA 8081B	<18.4	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
alpha-BHC	EPA 8081B	<18.7	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
beta-BHC	EPA 8081B	<18.6	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
Chlordane, Technical	EPA 8081B	<28.1	U	µg/kg	70.9	1	01/20/26 23:36	01/19/26 08:04
cis-Chlordane	EPA 8081B	<18.9	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
delta-BHC	EPA 8081B	<18.6	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
Dieldrin	EPA 8081B	<19.8	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:29
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB02 (3-4)_20260116

Lab ID: HN2600832-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<19.0	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
Endosulfan II	EPA 8081B	<18.8	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
Endosulfan sulfate	EPA 8081B	<17.4	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
Endrin	EPA 8081B	<22.9	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
Endrin aldehyde	EPA 8081B	<18.0	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
Endrin ketone	EPA 8081B	<17.2	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
gamma-BHC (Lindane)	EPA 8081B	<18.6	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
Heptachlor	EPA 8081B	<18.3	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
Heptachlor epoxide	EPA 8081B	<18.7	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
Methoxychlor	EPA 8081B	<18.9	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
Toxaphene	EPA 8081B	<30.6	U	µg/kg	170	1	01/20/26 23:36	01/19/26 08:04
trans-Chlordane	EPA 8081B	<18.8	U	µg/kg	28.3	1	01/20/26 23:36	01/19/26 08:04
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	78.4		%REC	53-151	1	01/20/26 23:36	01/19/26 08:04
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	56.5	S	%REC	67-127	1	01/20/26 23:36	01/19/26 08:04

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<64.8	U	µg/kg	189	1	01/20/26 08:11	01/19/26 07:47
Aroclor 1221	EPA 8082A	<64.8	U	µg/kg	189	1	01/20/26 08:11	01/19/26 07:47
Aroclor 1232	EPA 8082A	<64.8	U	µg/kg	189	1	01/20/26 08:11	01/19/26 07:47
Aroclor 1242	EPA 8082A	<64.8	U	µg/kg	189	1	01/20/26 08:11	01/19/26 07:47
Aroclor 1248	EPA 8082A	<64.8	U	µg/kg	189	1	01/20/26 08:11	01/19/26 07:47
Aroclor 1254	EPA 8082A	<52.8	U	µg/kg	189	1	01/20/26 08:11	01/19/26 07:47
Aroclor 1260	EPA 8082A	<52.8	U	µg/kg	189	1	01/20/26 08:11	01/19/26 07:47
Aroclor 1262	EPA 8082A	<52.8	U	µg/kg	189	1	01/20/26 08:11	01/19/26 07:47
Aroclor 1268	EPA 8082A	<52.8	U	µg/kg	189	1	01/20/26 08:11	01/19/26 07:47
Total PCB	EPA 8082A	<52.8	U	µg/kg	189	1	01/20/26 08:11	01/19/26 07:47
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	77.9		%REC	54-146	1	01/20/26 08:11	01/19/26 07:47
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	73.3		%REC	58-140	1	01/20/26 08:11	01/19/26 07:47

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<77.6	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<110	U	µg/kg	4780	5	01/21/26 23:11	01/20/26 13:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:29
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB02 (3-4)_20260116

Lab ID: HN2600832-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<343	U	µg/kg	2390	5	01/21/26 23:11	01/20/26 13:29
1-Methylnaphthalene	EPA 8270E	<68.9	U	µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<112	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
2,3,4,6-Tetrachlorophenol	EPA 8270E	<350	U	µg/kg	957	5	01/21/26 23:11	01/20/26 13:29
2,4,5-Trichlorophenol	EPA 8270E	<283	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
2,4,6-Trichlorophenol	EPA 8270E	<127	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
2,4-Dichlorophenol	EPA 8270E	<257	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
2,4-Dimethylphenol	EPA 8270E	<246	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
2,4-Dinitrophenol	EPA 8270E	<3500	U	µg/kg	4780	5	01/21/26 23:11	01/20/26 13:29
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<311	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<122	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
2-Chloronaphthalene	EPA 8270E	<66.9	U	µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
2-Chlorophenol	EPA 8270E	<313	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<399	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
2-Methylnaphthalene	EPA 8270E	<48.6	U	µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
2-Methylphenol (o-Cresol)	EPA 8270E	<129	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
2-Nitroaniline	EPA 8270E	<266	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
2-Nitrophenol	EPA 8270E	<136	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
3&4-Methylphenol	EPA 8270E	<261	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
3,3'-Dichlorobenzidine	EPA 8270E	<223	U	µg/kg	2390	5	01/21/26 23:11	01/20/26 13:29
3-Nitroaniline	EPA 8270E	<278	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<262	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
4-Chloro-3-methylphenol	EPA 8270E	<136	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
4-Chloroaniline	EPA 8270E	<243	U	µg/kg	957	5	01/21/26 23:11	01/20/26 13:29
4-Chlorophenyl phenylether	EPA 8270E	<132	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
4-Nitroaniline	EPA 8270E	<742	U	µg/kg	2390	5	01/21/26 23:11	01/20/26 13:29
4-Nitrophenol	EPA 8270E	<1120	U	µg/kg	4780	5	01/21/26 23:11	01/20/26 13:29
Acenaphthene	EPA 8270E	<69.2	U	µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:29
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB02 (3-4)_20260116

Lab ID: HN2600832-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<82.9	U	µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
Acetophenone	EPA 8270E	<74.9	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Anthracene	EPA 8270E	124		µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
Atrazine	EPA 8270E	<280	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Benzaldehyde	EPA 8270E	<735	U	µg/kg	957	5	01/21/26 23:11	01/20/26 13:29
Benzo(a)anthracene	EPA 8270E	239		µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
Benzo(a)pyrene	EPA 8270E	220		µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
Benzo(b)fluoranthene	EPA 8270E	287		µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
Benzo(g,h,i)perylene	EPA 8270E	191		µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
Benzo(k)fluoranthene	EPA 8270E	115		µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
bis(2-Chloroethoxy) methane	EPA 8270E	<303	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
bis(2-Chloroethyl) ether	EPA 8270E	<135	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Butyl benzyl phthalate	EPA 8270E	<599	U	µg/kg	957	5	01/21/26 23:11	01/20/26 13:29
Caprolactam	EPA 8270E	<432	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Carbazole	EPA 8270E	<141	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Chrysene	EPA 8270E	172		µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	1140		µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Dibenz(a,h) anthracene	EPA 8270E	<51.7	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Dibenzofuran	EPA 8270E	<70.3	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Diethyl phthalate	EPA 8270E	<163	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Dimethyl phthalate	EPA 8270E	<93.3	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Fluoranthene	EPA 8270E	459		µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
Fluorene	EPA 8270E	<69.5	U	µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
Hexachlorobenzene	EPA 8270E	<139	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Hexachlorobutadiene	EPA 8270E	<113	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Hexachlorocyclopentadiene	EPA 8270E	<453	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Hexachloroethane	EPA 8270E	<198	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Indeno(1,2,3-cd) pyrene	EPA 8270E	230		µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
Isophorone	EPA 8270E	<93.4	U	µg/kg	2390	5	01/21/26 23:11	01/20/26 13:29
Methylphenol, Total	EPA 8270E	<129	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:29
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB02 (3-4)_20260116

Lab ID: HN2600832-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<61.1	U	µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
Nitrobenzene	EPA 8270E	<161	U	µg/kg	2390	5	01/21/26 23:11	01/20/26 13:29
n-Nitrosodi-n-propylamine	EPA 8270E	<78.9	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
N-Nitrosodiphenylamine	EPA 8270E	<277	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Pentachlorophenol	EPA 8270E	<380	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Phenanthrene	EPA 8270E	373		µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
Phenol	EPA 8270E	<240	U	µg/kg	474	5	01/21/26 23:11	01/20/26 13:29
Pyrene	EPA 8270E	421		µg/kg	95.7	5	01/21/26 23:11	01/20/26 13:29
Pyridine	EPA 8270E	<941	U	µg/kg	2390	5	01/21/26 23:11	01/20/26 13:29
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	74.0		%REC	48-94	5	01/21/26 23:11	01/20/26 13:29
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	72.5		%REC	50-103	5	01/21/26 23:11	01/20/26 13:29
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	73.5		%REC	43-105	5	01/21/26 23:11	01/20/26 13:29
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	78.4		%REC	55-111	5	01/21/26 23:11	01/20/26 13:29
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	81.4		%REC	47-100	5	01/21/26 23:11	01/20/26 13:29
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	68.3		%REC	49-110	5	01/21/26 23:11	01/20/26 13:29

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<17.7	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
1,1,2,2-Tetrachloroethane	EPA 8260D	<17.2	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<24.7	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
1,1,2-Trichloroethane	EPA 8260D	<16.6	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
1,1-Dichloroethane	EPA 8260D	<14.2	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
1,1-Dichloroethylene	EPA 8260D	<12.6	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
1,2,3-Trichlorobenzene	EPA 8260D	<46.8	U	µg/kg	130	1	01/20/26 19:53	01/19/26 12:25
1,2,3-Trichloropropane	EPA 8260D	<16.3	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
1,2,4-Trichlorobenzene	EPA 8260D	<44.2	U	µg/kg	130	1	01/20/26 19:53	01/19/26 12:25
1,2,4-Trimethylbenzene	EPA 8260D	160		µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<35.9	U	µg/kg	130	1	01/20/26 19:53	01/19/26 12:25
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<22.9	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<14.8	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:29
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB02 (3-4)_20260116

Lab ID: HN2600832-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<22.9	U	µg/kg	130	1	01/20/26 19:53	01/19/26 12:25
1,2-Dichloropropane	EPA 8260D	<28.7	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
1,3,5-Trimethylbenzene	EPA 8260D	<27.5	U	µg/kg	130	1	01/20/26 19:53	01/19/26 12:25
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<26.9	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
1,3-Dichloropropene	EPA 8260D	<21.8	U	µg/kg	78.0	1	01/20/26 19:53	01/19/26 12:25
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<31.7	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<92.8	U	µg/kg	260	1	01/20/26 19:53	01/19/26 12:25
2-Hexanone	EPA 8260D	<19.3	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<36.3	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Acetone	EPA 8260D	495		µg/kg	130	1	01/20/26 19:53	01/19/26 12:25
Benzene	EPA 8260D	<18.9	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Bromochloromethane	EPA 8260D	<19.8	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Bromodichloromethane	EPA 8260D	<21.8	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Bromoform	EPA 8260D	<16.4	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Carbon disulfide	EPA 8260D	<20.2	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Carbon tetrachloride	EPA 8260D	<15.3	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Chlorobenzene	EPA 8260D	<12.9	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Chlorodibromomethane	EPA 8260D	<21.9	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Chloroethane (Ethyl chloride)	EPA 8260D	<109	U	µg/kg	130	1	01/20/26 19:53	01/19/26 12:25
Chloroform	EPA 8260D	<14.3	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
cis-1,2-Dichloroethylene	EPA 8260D	<25.1	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
cis-1,3-Dichloropropene	EPA 8260D	<29.4	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Cyclohexane	EPA 8260D	<29.8	U	µg/kg	130	1	01/20/26 19:53	01/19/26 12:25
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<47.2	U	µg/kg	130	1	01/20/26 19:53	01/19/26 12:25
Ethylbenzene	EPA 8260D	<27.7	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Isopropylbenzene	EPA 8260D	<24.6	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
m+p-Xylene	EPA 8260D	<52.0	U	µg/kg	78.0	1	01/20/26 19:53	01/19/26 12:25
Methyl acetate	EPA 8260D	<46.7	U	µg/kg	325	1	01/20/26 19:53	01/19/26 12:25
Methyl bromide (Bromomethane)	EPA 8260D	<74.6	U	µg/kg	130	1	01/20/26 19:53	01/19/26 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:29
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB02 (3-4)_20260116

Lab ID: HN2600832-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<107	U	µg/kg	130	1	01/20/26 19:53	01/19/26 12:25
Methyl tert-butyl ether (MTBE)	EPA 8260D	<28.4	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Methylcyclohexane	EPA 8260D	<14.9	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Methylene chloride (Dichloromethane)	EPA 8260D	<103	U	µg/kg	325	1	01/20/26 19:53	01/19/26 12:25
o-Xylene	EPA 8260D	<15.1	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Styrene	EPA 8260D	<15.5	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<23.5	SU	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Toluene	EPA 8260D	<32.1	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Total Xylene	EPA 8260D	<15.1	U	µg/kg	117	1	01/20/26 19:53	01/19/26 12:25
trans-1,2-Dichloroethylene	EPA 8260D	<32.2	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
trans-1,3-Dichloropropylene	EPA 8260D	<21.8	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Trichloroethene (Trichloroethylene)	EPA 8260D	<17.5	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<19.9	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
Vinyl chloride (Chloroethene)	EPA 8260D	<25.9	U	µg/kg	39.0	1	01/20/26 19:53	01/19/26 12:25
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	102		%REC	80-120	1	01/20/26 19:53	01/19/26 12:25
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	103		%REC	80-120	1	01/20/26 19:53	01/19/26 12:25
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	100		%REC	72-120	1	01/20/26 19:53	01/19/26 12:25
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	96.3		%REC	80-120	1	01/20/26 19:53	01/19/26 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:40
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB03 (5-6)_20260116

Lab ID: HN2600832-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<3.97	U	µg/kg	21.6	1	01/22/26 19:37	01/20/26 15:08
2,4,5-TP (Silvex)	EPA 8151A	<7.08	U	µg/kg	21.6	1	01/22/26 19:37	01/20/26 15:08
2,4-D	EPA 8151A	<11.5	U	µg/kg	43.2	1	01/22/26 19:37	01/20/26 15:08
Surr: DCAA	EPA 8151A	64.0		%REC	10-116	1	01/22/26 19:37	01/20/26 15:08
General Chemistry Parameters								
Percent Moisture	EPA 3550C	23.4		%	0.1	1	01/20/26 13:16	NA
Chloride	EPA 9056A	79.2		mg/kg	12.8	1	01/20/26 20:26	01/19/26 15:22
Metals								
Arsenic	EPA 6020B	9.17		mg/kg	3.94	10	01/22/26 16:48	01/22/26 09:47
Barium	EPA 6020B	56.2		mg/kg	3.94	10	01/22/26 16:48	01/22/26 09:47
Cadmium	EPA 6020B	<0.236	U	mg/kg	1.57	10	01/22/26 16:48	01/22/26 09:47
Chromium	EPA 6020B	12.1		mg/kg	3.94	10	01/22/26 16:48	01/22/26 09:47
Copper	EPA 6020B	16.7		mg/kg	3.94	10	01/22/26 16:48	01/22/26 09:47
Lead	EPA 6020B	23.1		mg/kg	3.94	10	01/22/26 16:48	01/22/26 09:47
Selenium	EPA 6020B	<3.62	U	mg/kg	3.94	10	01/22/26 16:48	01/22/26 09:47
Silver	EPA 6020B	<0.519	U	mg/kg	3.94	10	01/22/26 16:48	01/22/26 09:47
Zinc	EPA 6020B	45.2		mg/kg	7.87	10	01/22/26 16:48	01/22/26 09:47
Mercury	EPA 7471B	0.0534		mg/kg	0.0204	1	01/26/26 13:53	01/23/26 13:25
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<19.7	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
4,4'-DDE	EPA 8081B	<20.3	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
4,4'-DDT	EPA 8081B	<20.5	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
Aldrin	EPA 8081B	<20.1	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
alpha-BHC	EPA 8081B	<20.3	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
beta-BHC	EPA 8081B	<20.3	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
Chlordane, Technical	EPA 8081B	<30.6	U	µg/kg	77.2	1	01/20/26 23:50	01/19/26 08:04
cis-Chlordane	EPA 8081B	<20.6	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
delta-BHC	EPA 8081B	<20.2	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
Dieldrin	EPA 8081B	<21.6	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:40
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB03 (5-6)_20260116

Lab ID: HN2600832-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<20.8	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
Endosulfan II	EPA 8081B	<20.4	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
Endosulfan sulfate	EPA 8081B	<19.0	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
Endrin	EPA 8081B	<25.0	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
Endrin aldehyde	EPA 8081B	<19.6	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
Endrin ketone	EPA 8081B	<18.8	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
gamma-BHC (Lindane)	EPA 8081B	<20.3	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
Heptachlor	EPA 8081B	<19.9	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
Heptachlor epoxide	EPA 8081B	<20.4	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
Methoxychlor	EPA 8081B	<20.6	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
Toxaphene	EPA 8081B	<33.3	U	µg/kg	185	1	01/20/26 23:50	01/19/26 08:04
trans-Chlordane	EPA 8081B	<20.5	U	µg/kg	30.9	1	01/20/26 23:50	01/19/26 08:04
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	93.5		%REC	53-151	1	01/20/26 23:50	01/19/26 08:04
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	68.4		%REC	67-127	1	01/20/26 23:50	01/19/26 08:04

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<70.6	U	µg/kg	206	1	01/20/26 08:47	01/19/26 07:47
Aroclor 1221	EPA 8082A	<70.6	U	µg/kg	206	1	01/20/26 08:47	01/19/26 07:47
Aroclor 1232	EPA 8082A	<70.6	U	µg/kg	206	1	01/20/26 08:47	01/19/26 07:47
Aroclor 1242	EPA 8082A	<70.6	U	µg/kg	206	1	01/20/26 08:47	01/19/26 07:47
Aroclor 1248	EPA 8082A	<70.6	U	µg/kg	206	1	01/20/26 08:47	01/19/26 07:47
Aroclor 1254	EPA 8082A	<57.5	U	µg/kg	206	1	01/20/26 08:47	01/19/26 07:47
Aroclor 1260	EPA 8082A	<57.5	U	µg/kg	206	1	01/20/26 08:47	01/19/26 07:47
Aroclor 1262	EPA 8082A	<57.5	U	µg/kg	206	1	01/20/26 08:47	01/19/26 07:47
Aroclor 1268	EPA 8082A	<57.5	U	µg/kg	206	1	01/20/26 08:47	01/19/26 07:47
Total PCB	EPA 8082A	<57.5	U	µg/kg	206	1	01/20/26 08:47	01/19/26 07:47
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	122		%REC	54-146	1	01/20/26 08:47	01/19/26 07:47
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	84.1		%REC	58-140	1	01/20/26 08:47	01/19/26 07:47

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<80.3	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<114	U	µg/kg	4950	5	01/21/26 23:32	01/20/26 13:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:40
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB03 (5-6)_20260116

Lab ID: HN2600832-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<355	U	µg/kg	2480	5	01/21/26 23:32	01/20/26 13:29
1-Methylnaphthalene	EPA 8270E	<71.3	U	µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<116	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
2,3,4,6-Tetrachlorophenol	EPA 8270E	<363	U	µg/kg	990	5	01/21/26 23:32	01/20/26 13:29
2,4,5-Trichlorophenol	EPA 8270E	<293	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
2,4,6-Trichlorophenol	EPA 8270E	<132	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
2,4-Dichlorophenol	EPA 8270E	<266	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
2,4-Dimethylphenol	EPA 8270E	<255	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
2,4-Dinitrophenol	EPA 8270E	<3620	U	µg/kg	4950	5	01/21/26 23:32	01/20/26 13:29
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<322	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<126	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
2-Chloronaphthalene	EPA 8270E	<69.2	U	µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
2-Chlorophenol	EPA 8270E	<324	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<413	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
2-Methylnaphthalene	EPA 8270E	<50.3	U	µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
2-Methylphenol (o-Cresol)	EPA 8270E	<134	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
2-Nitroaniline	EPA 8270E	<275	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
2-Nitrophenol	EPA 8270E	<141	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
3&4-Methylphenol	EPA 8270E	<270	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
3,3'-Dichlorobenzidine	EPA 8270E	<231	U	µg/kg	2480	5	01/21/26 23:32	01/20/26 13:29
3-Nitroaniline	EPA 8270E	<287	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<271	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
4-Chloro-3-methylphenol	EPA 8270E	<141	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
4-Chloroaniline	EPA 8270E	<252	U	µg/kg	990	5	01/21/26 23:32	01/20/26 13:29
4-Chlorophenyl phenylether	EPA 8270E	<137	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
4-Nitroaniline	EPA 8270E	<768	U	µg/kg	2480	5	01/21/26 23:32	01/20/26 13:29
4-Nitrophenol	EPA 8270E	<1160	U	µg/kg	4950	5	01/21/26 23:32	01/20/26 13:29
Acenaphthene	EPA 8270E	<71.6	U	µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:40
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB03 (5-6)_20260116

Lab ID: HN2600832-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<85.8	U	µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
Acetophenone	EPA 8270E	<77.5	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Anthracene	EPA 8270E	<69.8	U	µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
Atrazine	EPA 8270E	<290	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Benzaldehyde	EPA 8270E	<760	U	µg/kg	990	5	01/21/26 23:32	01/20/26 13:29
Benzo(a)anthracene	EPA 8270E	99.0		µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
Benzo(a)pyrene	EPA 8270E	139		µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
Benzo(b)fluoranthene	EPA 8270E	139		µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
Benzo(g,h,i)perylene	EPA 8270E	119		µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
Benzo(k)fluoranthene	EPA 8270E	<75.0	U	µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
bis(2-Chloroethoxy) methane	EPA 8270E	<314	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
bis(2-Chloroethyl) ether	EPA 8270E	<140	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Butyl benzyl phthalate	EPA 8270E	<620	U	µg/kg	990	5	01/21/26 23:32	01/20/26 13:29
Caprolactam	EPA 8270E	<447	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Carbazole	EPA 8270E	<146	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Chrysene	EPA 8270E	<80.1	U	µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<409	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Dibenz(a,h) anthracene	EPA 8270E	<53.5	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Dibenzofuran	EPA 8270E	<72.8	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Diethyl phthalate	EPA 8270E	<168	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Dimethyl phthalate	EPA 8270E	<96.5	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Fluoranthene	EPA 8270E	198		µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
Fluorene	EPA 8270E	<71.9	U	µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
Hexachlorobenzene	EPA 8270E	<144	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Hexachlorobutadiene	EPA 8270E	<117	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Hexachlorocyclopentadiene	EPA 8270E	<469	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Hexachloroethane	EPA 8270E	<205	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Indeno(1,2,3-cd) pyrene	EPA 8270E	119		µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
Isophorone	EPA 8270E	<96.7	U	µg/kg	2480	5	01/21/26 23:32	01/20/26 13:29
Methylphenol, Total	EPA 8270E	<134	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:40
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB03 (5-6)_20260116

Lab ID: HN2600832-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<63.3	U	µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
Nitrobenzene	EPA 8270E	<166	U	µg/kg	2480	5	01/21/26 23:32	01/20/26 13:29
n-Nitrosodi-n-propylamine	EPA 8270E	<81.7	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
N-Nitrosodiphenylamine	EPA 8270E	<287	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Pentachlorophenol	EPA 8270E	<393	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Phenanthrene	EPA 8270E	119		µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
Phenol	EPA 8270E	<249	U	µg/kg	490	5	01/21/26 23:32	01/20/26 13:29
Pyrene	EPA 8270E	139		µg/kg	99.0	5	01/21/26 23:32	01/20/26 13:29
Pyridine	EPA 8270E	<974	U	µg/kg	2480	5	01/21/26 23:32	01/20/26 13:29
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	73.3		%REC	48-94	5	01/21/26 23:32	01/20/26 13:29
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	67.8		%REC	50-103	5	01/21/26 23:32	01/20/26 13:29
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	71.3		%REC	43-105	5	01/21/26 23:32	01/20/26 13:29
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	71.9		%REC	55-111	5	01/21/26 23:32	01/20/26 13:29
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	73.4		%REC	47-100	5	01/21/26 23:32	01/20/26 13:29
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	63.8		%REC	49-110	5	01/21/26 23:32	01/20/26 13:29

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<23.8	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
1,1,2,2-Tetrachloroethane	EPA 8260D	<23.2	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<33.3	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
1,1,2-Trichloroethane	EPA 8260D	<22.3	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
1,1-Dichloroethane	EPA 8260D	<19.1	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
1,1-Dichloroethylene	EPA 8260D	<17.0	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
1,2,3-Trichlorobenzene	EPA 8260D	<63.0	U	µg/kg	175	1	01/20/26 20:13	01/19/26 12:25
1,2,3-Trichloropropane	EPA 8260D	<22.0	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
1,2,4-Trichlorobenzene	EPA 8260D	<59.5	U	µg/kg	175	1	01/20/26 20:13	01/19/26 12:25
1,2,4-Trimethylbenzene	EPA 8260D	109		µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<48.3	U	µg/kg	175	1	01/20/26 20:13	01/19/26 12:25
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<30.9	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<19.9	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:40
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB03 (5-6)_20260116

Lab ID: HN2600832-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<30.9	U	µg/kg	175	1	01/20/26 20:13	01/19/26 12:25
1,2-Dichloropropane	EPA 8260D	<38.7	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
1,3,5-Trimethylbenzene	EPA 8260D	<37.1	U	µg/kg	175	1	01/20/26 20:13	01/19/26 12:25
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<36.3	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
1,3-Dichloropropene	EPA 8260D	<29.3	U	µg/kg	105	1	01/20/26 20:13	01/19/26 12:25
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<42.7	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<125	U	µg/kg	350	1	01/20/26 20:13	01/19/26 12:25
2-Hexanone	EPA 8260D	<26.0	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<48.9	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Acetone	EPA 8260D	<156	U	µg/kg	175	1	01/20/26 20:13	01/19/26 12:25
Benzene	EPA 8260D	<25.4	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Bromochloromethane	EPA 8260D	<26.7	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Bromodichloromethane	EPA 8260D	<29.4	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Bromoform	EPA 8260D	<22.1	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Carbon disulfide	EPA 8260D	<27.2	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Carbon tetrachloride	EPA 8260D	<20.5	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Chlorobenzene	EPA 8260D	<17.4	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Chlorodibromomethane	EPA 8260D	<29.5	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Chloroethane (Ethyl chloride)	EPA 8260D	<147	U	µg/kg	175	1	01/20/26 20:13	01/19/26 12:25
Chloroform	EPA 8260D	<19.2	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
cis-1,2-Dichloroethylene	EPA 8260D	<33.8	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
cis-1,3-Dichloropropene	EPA 8260D	<39.6	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Cyclohexane	EPA 8260D	<40.2	U	µg/kg	175	1	01/20/26 20:13	01/19/26 12:25
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<63.5	U	µg/kg	175	1	01/20/26 20:13	01/19/26 12:25
Ethylbenzene	EPA 8260D	<37.2	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Isopropylbenzene	EPA 8260D	<33.2	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
m+p-Xylene	EPA 8260D	<70.0	U	µg/kg	105	1	01/20/26 20:13	01/19/26 12:25
Methyl acetate	EPA 8260D	<62.9	U	µg/kg	438	1	01/20/26 20:13	01/19/26 12:25
Methyl bromide (Bromomethane)	EPA 8260D	<100	U	µg/kg	175	1	01/20/26 20:13	01/19/26 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2600832
Date Collected: 01/16/26 09:40
Date Received: 01/17/26 08:00

CLIENT ID: 19250 SB03 (5-6)_20260116

Lab ID: HN2600832-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<144	U	µg/kg	175	1	01/20/26 20:13	01/19/26 12:25
Methyl tert-butyl ether (MTBE)	EPA 8260D	<38.3	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Methylcyclohexane	EPA 8260D	<20.0	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Methylene chloride (Dichloromethane)	EPA 8260D	<139	U	µg/kg	438	1	01/20/26 20:13	01/19/26 12:25
o-Xylene	EPA 8260D	<20.3	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Styrene	EPA 8260D	<20.8	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<31.6	SU	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Toluene	EPA 8260D	<43.3	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Total Xylene	EPA 8260D	<20.3	U	µg/kg	158	1	01/20/26 20:13	01/19/26 12:25
trans-1,2-Dichloroethylene	EPA 8260D	<43.3	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
trans-1,3-Dichloropropylene	EPA 8260D	<29.3	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Trichloroethene (Trichloroethylene)	EPA 8260D	<23.5	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<26.8	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
Vinyl chloride (Chloroethene)	EPA 8260D	<34.9	U	µg/kg	52.5	1	01/20/26 20:13	01/19/26 12:25
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	104		%REC	<i>80-120</i>	<i>1</i>	<i>01/20/26 20:13</i>	<i>01/19/26 12:25</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	105		%REC	<i>80-120</i>	<i>1</i>	<i>01/20/26 20:13</i>	<i>01/19/26 12:25</i>
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	103		%REC	<i>72-120</i>	<i>1</i>	<i>01/20/26 20:13</i>	<i>01/19/26 12:25</i>
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	97.2		%REC	<i>80-120</i>	<i>1</i>	<i>01/20/26 20:13</i>	<i>01/19/26 12:25</i>



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2423622

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3838451

Chlorinated Herbicides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2423622-001
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/22/26 18:06
Prep Date: 01/20/26 15:09

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	<1.23	µg/kg	6.67							U
2,4,5-TP (Silvex)	<2.19	µg/kg	6.67							U
2,4-D	<3.56	µg/kg	13.3							U
Surr: DCAA	53.3	µg/kg		50		80.0	10-116			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2423622-002
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/22/26 18:21
Prep Date: 01/20/26 15:09

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	46.7	µg/kg	6.67	66.667		70.0	10-119			
2,4,5-TP (Silvex)	41.3	µg/kg	6.67	66.667		62.0	10-101			
2,4-D	44.0	µg/kg	13.3	66.667		66.0	10-128			
Surr: DCAA	50.7	µg/kg		66.667		76.0	10-116			

MS	CLIENT ID: Batch QC	Lab ID: QC-2423622-005
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/22/26 18:36
Prep Date: 01/20/26 15:09

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	23.8	µg/kg	5.39	49.643	<0.913	48.0	10-119			
2,4,5-TP (Silvex)	17.9	µg/kg	5.39	49.643	<1.63	36.0	10-101			
2,4-D	25.8	µg/kg	10.8	49.643	<2.65	52.0	10-128			
Surr: DCAA	31.8	µg/kg		49.643		64.0	10-116			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2423622-006
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/22/26 18:51
Prep Date: 01/20/26 15:09

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	24.8	µg/kg	5.39	49.665	<0.920	50.0	10-119	4.13	30	
2,4,5-TP (Silvex)	22.8	µg/kg	5.39	49.665	<1.64	46.0	10-101	24.4	30	
2,4-D	47.7	µg/kg	10.8	49.665	<2.67	96.0	10-128	59.5	30	R
Surr: DCAA	33.8	µg/kg		49.665		68.0	10-116	6.11	30	

The following samples were analyzed in this batch: HN2600832-001, HN2600832-002, HN2600832-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422266

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3832077

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2422266-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/20/26 19:37
Prep Date: 01/19/26 15:23

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	<3.10	mg/kg	10.0							U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422266-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/20/26 19:46
Prep Date: 01/19/26 15:23

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	93.6	mg/kg	10.0	100		93.6	87-110			

MS	CLIENT ID: 19250 SB01 (1-2)_20260116	Lab ID: QC-2422266-004
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/20/26 20:02
Prep Date: 01/19/26 15:23

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	170	mg/kg	12.0	103.75	70.6	105	87-110			

MSD	CLIENT ID: 19250 SB01 (1-2)_20260116	Lab ID: QC-2422266-005
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/20/26 20:10
Prep Date: 01/19/26 15:23

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	170	mg/kg	11.9	102.83	70.6	106	87-110	0.119	15	

The following samples were analyzed in this batch: HN2600832-001, HN2600832-002, HN2600832-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422981

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3830350

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2422981-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/20/26 13:16
Prep Date: NA

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422981-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/20/26 13:16
Prep Date: NA

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

DUP	CLIENT ID: Batch QC	Lab ID: QC-2422981-004
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/20/26 13:16
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	3.5	%	0.1		3.6			1.70	10	

DUP	CLIENT ID: Batch QC	Lab ID: QC-2422981-015
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/20/26 13:16
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	15.7	%	0.1		16.0			1.71	10	

The following samples were analyzed in this batch: HN2600832-001, HN2600832-002, HN2600832-003



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2426113

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3836793

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2426113-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 01/22/26 16:32
Prep Date: 01/22/26 09:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	<0.0300	mg/kg	0.250							U
Barium	<0.230	mg/kg	0.250							U
Cadmium	<0.0150	mg/kg	0.100							U
Chromium	<0.110	mg/kg	0.250							U
Copper	<0.250	mg/kg	0.250							U
Lead	<0.120	mg/kg	0.250							U
Selenium	<0.230	mg/kg	0.250							U
Silver	<0.0330	mg/kg	0.250							U
Zinc	<0.490	mg/kg	0.500							U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2426113-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 01/22/26 16:33
Prep Date: 01/22/26 09:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.80	mg/kg	0.250	5		95.9	80-120			
Barium	5.18	mg/kg	0.250	5		104	80-120			
Cadmium	4.78	mg/kg	0.100	5		95.6	80-120			
Chromium	4.79	mg/kg	0.250	5		95.8	80-120			
Copper	4.73	mg/kg	0.250	5		94.5	80-120			
Lead	5.05	mg/kg	0.250	5		101	80-120			
Selenium	4.80	mg/kg	0.250	5		96.0	80-120			
Silver	4.82	mg/kg	0.250	5		96.4	80-120			
Zinc	4.70	mg/kg	0.500	5		93.9	80-120			

MS	CLIENT ID: 19250 SB01 (1-2)_20260116	Lab ID: QC-2426113-004
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 01/22/26 16:37
Prep Date: 01/22/26 09:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	9.70	mg/kg	3.37	5.8207	6.33	72.6	75-125			S
Barium	77.9	mg/kg	3.37	5	80.1	NC	75-125			O
Cadmium	5.40	mg/kg	1.35	5.8207	0.510	85.2	75-125			
Chromium	15.2	mg/kg	3.37	5.8207	15.2	35.5	75-125			S
Copper	17.3	mg/kg	3.37	5	30.1	NC	75-125			O
Lead	39.2	mg/kg	3.37	5	93.2	NC	75-125			O
Selenium	5.37	mg/kg	3.37	5.8207	<2.68	81.0	75-125			
Silver	5.14	mg/kg	3.37	5.8207	<0.384	86.3	75-125			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2426113

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3836793

MSD	CLIENT ID: 19250 SB01 (1-2)_20260116	Lab ID: QC-2426113-005
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 01/22/26 16:38
Prep Date: 01/22/26 09:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	9.97	mg/kg	3.43	5.9312	6.33	75.8	75-125	2.76	20	
Barium	72.8	mg/kg	3.43	5	80.1	NC	75-125	6.85	20	O
Cadmium	5.55	mg/kg	1.37	5.9312	0.510	86.1	75-125	2.64	20	
Chromium	17.7	mg/kg	3.43	5.9312	15.2	77.9	75-125	15.5	20	
Copper	18.2	mg/kg	3.43	5	30.1	NC	75-125	5.28	20	O
Lead	43.5	mg/kg	3.43	5	93.2	NC	75-125	10.4	20	O
Selenium	5.69	mg/kg	3.43	5.9312	<2.73	85.0	75-125	5.88	20	
Silver	5.23	mg/kg	3.43	5.9312	<0.391	86.1	75-125	1.60	20	

PDS	CLIENT ID: 19250 SB01 (1-2)_20260116	Lab ID: QC-2426113-007
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 01/22/26 16:42
Prep Date: 01/22/26 09:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	60.3	mg/kg	3.36	58.005	6.33	94.5	75-125			
Barium	126	mg/kg	3.36	58.005	80.1	98.4	75-125			
Cadmium	52.6	mg/kg	1.34	58.005	0.510	89.9	75-125			
Chromium	65.0	mg/kg	3.36	58.005	15.2	89.4	75-125			
Copper	76.3	mg/kg	3.36	58.005	30.1	86.7	75-125			
Lead	135	mg/kg	3.36	58.005	93.2	93.6	75-125			
Selenium	53.4	mg/kg	3.36	58.005	<2.67	91.0	75-125			
Silver	42.5	mg/kg	3.36	58.005	<0.383	73.1	75-125			S

The following samples were analyzed in this batch: HN2600832-001, HN2600832-002, HN2600832-003



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2426113

Work Order: HN2600832
Date Collected: 01/16/26 09:15
Date Received: 01/17/26 08:00
Run ID: 3838280

Metals

MS	CLIENT ID: 19250 SB01 (1-2)_20260116	Lab ID: QC-2426113-004
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Method: EPA 6020B	Dilution: 100	Analysis Date: 01/23/26 12:46
Prep Date: 01/22/26 09:48		

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Zinc	<57.0	mg/kg	67.4	5	125	NC	75-125			OU

MSD	CLIENT ID: 19250 SB01 (1-2)_20260116	Lab ID: QC-2426113-005
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Method: EPA 6020B	Dilution: 100	Analysis Date: 01/23/26 12:47
Prep Date: 01/22/26 09:48		

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Zinc	79.9	mg/kg	68.7	5	125	NC	75-125	NC		O

The following samples were analyzed in this batch: HN2600832-001, HN2600832-002, HN2600832-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2427774

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3842171

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2427774-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/26/26 15:30
Prep Date: 01/23/26 13:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	<0.0136	mg/kg	0.0200							U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2427774-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/26/26 15:32
Prep Date: 01/23/26 13:26

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

MS	CLIENT ID: Batch QC	Lab ID: QC-2427774-004
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/26/26 13:28
Prep Date: 01/23/26 13:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.383	mg/kg	0.0200	0.13647	0.316	85.9	75-125			E

MSD	CLIENT ID: Batch QC	Lab ID: QC-2427774-005
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/26/26 13:31
Prep Date: 01/23/26 13:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.307	mg/kg	0.0200	0.13179	0.316	31.4	75-125	22.0	35	ES

The following samples were analyzed in this batch: HN2600832-001, HN2600832-002, HN2600832-003



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2421584

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3833270

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2421584-001
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 01/20/26 05:01**Prep Date:** 01/19/26 08:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	<6.39	µg/kg	10.0							U
4,4'-DDE	<6.59	µg/kg	10.0							U
4,4'-DDT	<6.65	µg/kg	10.0							U
Aldrin	<6.50	µg/kg	10.0							U
alpha-BHC	<6.58	µg/kg	10.0							U
beta-BHC	<6.57	µg/kg	10.0							U
Chlordane, Technical	<9.92	µg/kg	25.0							U
cis-Chlordane	<6.68	µg/kg	10.0							U
delta-BHC	<6.55	µg/kg	10.0							U
Dieldrin	<6.99	µg/kg	10.0							U
Endosulfan I	<6.72	µg/kg	10.0							U
Endosulfan II	<6.62	µg/kg	10.0							U
Endosulfan sulfate	<6.15	µg/kg	10.0							U
Endrin	<8.09	µg/kg	10.0							U
Endrin aldehyde	<6.34	µg/kg	10.0							U
Endrin ketone	<6.08	µg/kg	10.0							U
gamma-BHC (Lindane)	<6.56	µg/kg	10.0							U
Heptachlor	<6.45	µg/kg	10.0							U
Heptachlor epoxide	<6.62	µg/kg	10.0							U
Methoxychlor	<6.69	µg/kg	10.0							U
Toxaphene	<10.8	µg/kg	60.0							U
trans-Chlordane	<6.64	µg/kg	10.0							U
Surr: Decachlorobiphenyl	45.6	µg/kg		33.33		137	53-151			
Surr: Tetrachloro-m-xylene	34.4	µg/kg		33.33		103	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2421584-002
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 01/20/26 05:16**Prep Date:** 01/19/26 08:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	31.0	µg/kg	10.0	33.33		92.9	55-141			
4,4'-DDE	30.6	µg/kg	10.0	33.33		92.0	55-143			
4,4'-DDT	31.1	µg/kg	10.0	33.33		93.3	50-144			
Aldrin	33.0	µg/kg	10.0	33.33		99.0	57-141			
alpha-BHC	31.9	µg/kg	10.0	33.33		95.6	58-144			
beta-BHC	32.9	µg/kg	10.0	33.33		98.7	55-147			
cis-Chlordane	31.3	µg/kg	10.0	33.33		94.0	58-142			
delta-BHC	33.0	µg/kg	10.0	33.33		99.2	59-142			
Dieldrin	31.3	µg/kg	10.0	33.33		93.8	59-142			
Endosulfan I	28.1	µg/kg	10.0	33.33		84.3	57-145			
Endosulfan II	31.4	µg/kg	10.0	33.33		94.2	58-138			
Endosulfan sulfate	30.6	µg/kg	10.0	33.33		91.8	54-136			
Endrin	31.8	µg/kg	10.0	33.33		95.5	45-150			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2421584

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3833270

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2421584-002
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/20/26 05:16

Prep Date: 01/19/26 08:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Endrin aldehyde	35.7	µg/kg	10.0	33.33		107	41-147			
Endrin ketone	32.5	µg/kg	10.0	33.33		97.6	54-146			
gamma-BHC (Lindane)	32.4	µg/kg	10.0	33.33		97.2	58-145			
Heptachlor	39.0	µg/kg	10.0	33.33		117	51-145			
Heptachlor epoxide	31.9	µg/kg	10.0	33.33		95.8	59-143			
Methoxychlor	30.6	µg/kg	10.0	33.33		91.9	43-144			
trans-Chlordane	31.7	µg/kg	10.0	33.33		95.1	56-145			
Surr: Decachlorobiphenyl	37.5	µg/kg		33.33		113	51-151			
Surr: Tetrachloro-m-xylene	30.3	µg/kg		33.33		90.9	67-127			

MS	CLIENT ID: Batch QC	Lab ID: QC-2421584-005
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/20/26 07:59

Prep Date: 01/19/26 08:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	73.7	µg/kg	25.6	78.485	<15.0	94.0	55-141			
4,4'-DDE	74.0	µg/kg	25.6	78.485	<15.5	94.3	55-143			
4,4'-DDT	76.0	µg/kg	25.6	78.485	<15.7	96.8	50-144			
Aldrin	74.9	µg/kg	25.6	78.485	<15.3	95.4	57-141			
alpha-BHC	73.4	µg/kg	25.6	78.485	<15.5	93.6	58-144			
beta-BHC	75.4	µg/kg	25.6	78.485	<15.5	96.0	55-147			
cis-Chlordane	75.6	µg/kg	25.6	78.485	<15.7	96.4	58-142			
delta-BHC	75.9	µg/kg	25.6	78.485	<15.4	96.7	59-142			
Dieldrin	75.4	µg/kg	25.6	78.485	<16.5	96.1	59-142			
Endosulfan I	65.8	µg/kg	25.6	78.485	<15.8	83.8	57-145			
Endosulfan II	75.0	µg/kg	25.6	78.485	<15.6	95.6	58-138			
Endosulfan sulfate	73.0	µg/kg	25.6	78.485	<14.5	93.0	54-135			
Endrin	78.6	µg/kg	25.6	78.485	<19.1	100	45-150			
Endrin aldehyde	88.9	µg/kg	25.6	78.485	<14.9	113	41-147			
Endrin ketone	77.4	µg/kg	25.6	78.485	<14.3	98.6	54-146			
gamma-BHC (Lindane)	74.3	µg/kg	25.6	78.485	<15.5	94.7	58-145			
Heptachlor	90.2	µg/kg	25.6	78.485	<15.2	115	51-145			
Heptachlor epoxide	75.7	µg/kg	25.6	78.485	<15.6	96.5	59-143			
Methoxychlor	76.6	µg/kg	25.6	78.485	<15.7	97.6	43-144			
trans-Chlordane	75.3	µg/kg	25.6	78.485	<15.6	96.0	56-145			
Surr: Decachlorobiphenyl	88.3	µg/kg		78.485		113	53-151			
Surr: Tetrachloro-m-xylene	70.6	µg/kg		78.485		90.0	67-127			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2421584-006
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/20/26 08:14

Prep Date: 01/19/26 08:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	69.9	µg/kg	25.3	77.512	<14.9	90.2	55-141	5.38	20	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2421584

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3833270

MSD	CLIENT ID: Batch QC	Lab ID: QC-2421584-006
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/20/26 08:14

Prep Date: 01/19/26 08:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDE	70.5	µg/kg	25.3	77.512	<15.3	91.0	55-143	4.81	20	
4,4'-DDT	72.8	µg/kg	25.3	77.512	<15.5	93.9	50-144	4.34	20	
Aldrin	72.3	µg/kg	25.3	77.512	<15.1	93.3	57-141	3.53	20	
alpha-BHC	69.1	µg/kg	25.3	77.512	<15.3	89.2	58-144	6.06	20	
beta-BHC	71.9	µg/kg	25.3	77.512	<15.3	92.7	55-147	4.75	20	
cis-Chlordane	71.8	µg/kg	25.3	77.512	<15.5	92.6	58-142	5.22	20	
delta-BHC	72.3	µg/kg	25.3	77.512	<15.2	93.3	59-142	4.83	20	
Dieldrin	71.2	µg/kg	25.3	77.512	<16.3	91.9	59-142	5.72	20	
Endosulfan I	63.3	µg/kg	25.3	77.512	<15.6	81.6	57-145	3.91	20	
Endosulfan II	70.9	µg/kg	25.3	77.512	<15.4	91.5	58-138	5.63	20	
Endosulfan sulfate	70.4	µg/kg	25.3	77.512	<14.3	90.8	54-135	3.64	20	
Endrin	74.4	µg/kg	25.3	77.512	<18.8	96.0	45-150	5.48	20	
Endrin aldehyde	82.9	µg/kg	25.3	77.512	<14.7	107	41-147	6.97	20	
Endrin ketone	74.1	µg/kg	25.3	77.512	<14.1	95.6	54-146	4.34	20	
gamma-BHC (Lindane)	70.5	µg/kg	25.3	77.512	<15.3	90.9	58-145	5.29	20	
Heptachlor	86.8	µg/kg	25.3	77.512	<15.0	112	51-145	3.85	20	
Heptachlor epoxide	71.6	µg/kg	25.3	77.512	<15.4	92.4	59-143	5.64	20	
Methoxychlor	75.1	µg/kg	25.3	77.512	<15.5	96.9	43-144	1.97	20	
trans-Chlordane	72.3	µg/kg	25.3	77.512	<15.4	93.3	56-145	4.10	20	
Surr: Decachlorobiphenyl	84.7	µg/kg		77.512		109	53-151	4.18	30	
Surr: Tetrachloro-m-xylene	66.4	µg/kg		77.512		85.7	67-127	6.20	30	

The following samples were analyzed in this batch: HN2600832-001, HN2600832-002, HN2600832-003



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2421581

Work Order: HN2600832
Date Collected: 01/16/26 13:43
Date Received: 01/17/26 08:00
Run ID: 3831072

Polychlorinated Biphenyls (PCBs) by GC/ECD

MS	CLIENT ID: Batch QC	Lab ID: QC-2421581-005
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/20/26 05:27
Prep Date: 01/19/26 07:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	1890	µg/kg	187	1977.1	<54.3	95.5	71-135			
Aroclor 1260	1810	µg/kg	187	1977.1	<44.2	91.7	67-135			
Surr: Decachlorobiphenyl	90.8	µg/kg		79.035		115	54-146			
Surr: Tetrachloro-m-xylene	76.1	µg/kg		79.035		96.2	58-140			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2421581-006
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/20/26 05:38
Prep Date: 01/19/26 07:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	1980	µg/kg	185	1958.5	<53.7	101	71-135	4.86	20	
Aroclor 1260	1820	µg/kg	185	1958.5	<43.8	92.7	67-135	0.120	20	
Surr: Decachlorobiphenyl	90.7	µg/kg		78.292		116	54-146	0.120	30	
Surr: Tetrachloro-m-xylene	79.6	µg/kg		78.292		102	58-140	4.52	30	

The following samples were analyzed in this batch: HN2600832-001, HN2600832-002, HN2600832-003



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2421581

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3833598

Polychlorinated Biphenyls (PCBs) by GC/ECD

MB CLIENT ID: Method Blank Lab ID: QC-2421581-001

Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/20/26 17:38
Prep Date: 01/19/26 07:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	<22.9	µg/kg	66.7							U
Aroclor 1221	<22.9	µg/kg	66.7							U
Aroclor 1232	<22.9	µg/kg	66.7							U
Aroclor 1242	<22.9	µg/kg	66.7							U
Aroclor 1248	<22.9	µg/kg	66.7							U
Aroclor 1254	<18.6	µg/kg	66.7							U
Aroclor 1260	<18.6	µg/kg	66.7							U
Aroclor 1262	<18.6	µg/kg	66.7							U
Aroclor 1268	<18.6	µg/kg	66.7							U
Total PCB	<18.6	µg/kg	66.7							U
Surr: Decachlorobiphenyl	54.1	µg/kg		33.3		163	54-146			S
Surr: Tetrachloro-m-xylene	37.8	µg/kg		33.3		114	58-140			

LCS CLIENT ID: Laboratory Control Sample Lab ID: QC-2421581-002

Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/20/26 17:50
Prep Date: 01/19/26 07:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	814	µg/kg	66.7	833		97.7	71-135			
Aroclor 1260	857	µg/kg	66.7	833		103	67-135			
Surr: Decachlorobiphenyl	49.9	µg/kg		33.3		150	54-146			S
Surr: Tetrachloro-m-xylene	33.3	µg/kg		33.3		99.9	58-140			

The following samples were analyzed in this batch: HN2600832-001, HN2600832-002, HN2600832-003



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422965

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3835774

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2422965-001
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 01/21/26 16:32**Prep Date:** 01/20/26 13:30

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



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422965

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3835774

MB	CLIENT ID: Method Blank	Lab ID: QC-2422965-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/21/26 16:32

Prep Date: 01/20/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Butyl benzyl phthalate	<41.7	µg/kg	67.0							U
Caprolactam	<30.1	µg/kg	33.0							U
Carbazole	<9.82	µg/kg	33.0							U
Chrysene	<5.39	µg/kg	6.67							U
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	<27.6	µg/kg	33.0							U
Dibenz(a,h) anthracene	<3.60	µg/kg	33.0							U
Dibenzofuran	<4.90	µg/kg	33.0							U
Diethyl phthalate	<11.3	µg/kg	33.0							U
Dimethyl phthalate	<6.50	µg/kg	33.0							U
Fluoranthene	<3.20	µg/kg	6.67							U
Fluorene	<4.84	µg/kg	6.67							U
Hexachlorobenzene	<9.70	µg/kg	33.0							U
Hexachlorobutadiene	<7.85	µg/kg	33.0							U
Hexachlorocyclopentadiene	<31.6	µg/kg	33.0							U
Hexachloroethane	<13.8	µg/kg	33.0							U
Indeno(1,2,3-cd) pyrene	<4.64	µg/kg	6.67							U
Isophorone	<6.51	µg/kg	167							U
Methylphenol, Total	<9.01	µg/kg	67.0							U
Naphthalene	<4.26	µg/kg	6.67							U
Nitrobenzene	<11.2	µg/kg	167							U
n-Nitrosodi-n-propylamine	<5.50	µg/kg	33.0							U
N-Nitrosodiphenylamine	<19.3	µg/kg	33.0							U
Pentachlorophenol	<26.5	µg/kg	33.0							U
Phenanthrene	<3.10	µg/kg	6.67							U
Phenol	<16.7	µg/kg	33.0							U
Pyrene	<3.33	µg/kg	6.67							U
Pyridine	<65.6	µg/kg	167							U
Surr: 2,4,6-Tribromophenol	2570	µg/kg		3333		77.1	48-94			
Surr: 2-Fluorobiphenyl	2640	µg/kg		3333		79.2	50-103			
Surr: 2-Fluorophenol	2590	µg/kg		3333		77.7	43-105			
Surr: 4-Terphenyl-d14	2860	µg/kg		3333		85.8	55-111			
Surr: Nitrobenzene-d5	3020	µg/kg		3333		90.5	47-100			
Surr: Phenol-d6	2610	µg/kg		3333		78.3	49-110			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422965-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/21/26 16:53

Prep Date: 01/20/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1040	µg/kg	33.0	1333		78.3	57-101			
1,2,4,5-Tetrachlorobenzene	1070	µg/kg	33.0	1333		80.2	54-98			
1-Methylnaphthalene	1060	µg/kg	6.67	1333		79.8	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	1060	µg/kg	33.0	1333		79.9	50-101			
2,3,4,6-Tetrachlorophenol	1080	µg/kg	67.0	1333		81.1	48-103			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422965

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3835774

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422965-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/21/26 16:53

Prep Date: 01/20/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1110	µg/kg	33.0	1333		83.5	54-98			
2,4,6-Trichlorophenol	1090	µg/kg	33.0	1333		81.4	56-97			
2,4-Dichlorophenol	1080	µg/kg	33.0	1333		81.2	54-99			
2,4-Dimethylphenol	979	µg/kg	33.0	1333		73.4	47-102			
2,4-Dinitrophenol	1110	µg/kg	333	1333		83.6	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1110	µg/kg	33.0	1333		83.2	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1080	µg/kg	33.0	1333		81.3	62-103			
2-Chloronaphthalene	1050	µg/kg	6.67	1333		78.6	57-101			
2-Chlorophenol	1040	µg/kg	33.0	1333		77.7	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	1210	µg/kg	33.0	1333		91.0	42-104			
2-Methylnaphthalene	1060	µg/kg	6.67	1333		79.4	55-102			
2-Methylphenol (o-Cresol)	1010	µg/kg	33.0	1333		76.0	54-103			
2-Nitroaniline	1200	µg/kg	33.0	1333		89.9	57-103			
2-Nitrophenol	1220	µg/kg	33.0	1333		91.4	52-102			
3&4-Methylphenol	990	µg/kg	33.0	1333		74.3	56-103			
3,3'-Dichlorobenzidine	856	µg/kg	167	1333		64.2	41-91			
3-Nitroaniline	707	µg/kg	33.0	1333		53.0	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1090	µg/kg	33.0	1333		81.7	63-104			
4-Chloro-3-methylphenol	1100	µg/kg	33.0	1333		82.7	57-103			
4-Chloroaniline	1140	µg/kg	67.0	1333		85.9	32-99			
4-Chlorophenyl phenylether	1030	µg/kg	33.0	1333		77.5	62-100			
4-Nitroaniline	507	µg/kg	167	1333		38.0	19-124			
4-Nitrophenol	1060	µg/kg	333	1333		79.6	44-106			
Acenaphthene	1040	µg/kg	6.67	1333		78.4	60-101			
Acenaphthylene	1080	µg/kg	6.67	1333		80.8	59-101			
Acetophenone	1030	µg/kg	33.0	1333		77.0	54-102			
Anthracene	1070	µg/kg	6.67	1333		80.3	63-96			
Atrazine	1090	µg/kg	33.0	1333		82.0	60-110			
Benzaldehyde	177	µg/kg	67.0	1333		13.3	10-143			
Benzo(a)anthracene	1100	µg/kg	6.67	1333		82.7	66-102			
Benzo(a)pyrene	1140	µg/kg	6.67	1333		85.5	66-105			
Benzo(b)fluoranthene	1140	µg/kg	6.67	1333		85.6	67-105			
Benzo(g,h,i)perylene	1150	µg/kg	6.67	1333		86.4	59-110			
Benzo(k)fluoranthene	1090	µg/kg	6.67	1333		81.6	68-106			
bis(2-Chloroethoxy)methane	1060	µg/kg	33.0	1333		79.9	54-102			
bis(2-Chloroethyl) ether	1050	µg/kg	33.0	1333		79.0	51-101			
Butyl benzyl phthalate	1160	µg/kg	67.0	1333		86.9	59-107			
Caprolactam	1070	µg/kg	33.0	1333		80.0	49-103			
Carbazole	1090	µg/kg	33.0	1333		81.7	63-103			
Chrysene	1110	µg/kg	6.67	1333		83.3	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1230	µg/kg	33.0	1333		92.4	63-101			
Dibenz(a,h) anthracene	1170	µg/kg	33.0	1333		88.0	61-109			
Dibenzofuran	1060	µg/kg	33.0	1333		79.6	61-101			
Diethyl phthalate	1090	µg/kg	33.0	1333		81.5	63-105			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422965

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3835774

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422965-002
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 01/21/26 16:53**Prep Date:** 01/20/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Dimethyl phthalate	1060	µg/kg	33.0	1333		79.3	64-104			
Fluoranthene	1100	µg/kg	6.67	1333		82.3	66-105			
Fluorene	1060	µg/kg	6.67	1333		79.5	62-101			
Hexachlorobenzene	1110	µg/kg	33.0	1333		83.6	61-104			
Hexachlorobutadiene	1090	µg/kg	33.0	1333		81.7	52-99			
Hexachlorocyclopentadiene	945	µg/kg	33.0	1333		70.9	39-106			
Hexachloroethane	1050	µg/kg	33.0	1333		79.0	59-99			
Indeno(1,2,3-cd) pyrene	1220	µg/kg	6.67	1333		91.6	57-114			
Isophorone	1080	µg/kg	167	1333		81.3	55-101			
Methylphenol, Total	2000	µg/kg	67.0	2667		75.1	54-103			
Naphthalene	1090	µg/kg	6.67	1333		81.6	54-99			
Nitrobenzene	1150	µg/kg	167	1333		86.4	53-100			
n-Nitrosodi-n-propylamine	1060	µg/kg	33.0	1333		79.2	52-104			
N-Nitrosodiphenylamine	1090	µg/kg	33.0	1333		81.6	61-104			
Pentachlorophenol	1060	µg/kg	33.0	1333		79.2	35-100			
Phenanthrene	1120	µg/kg	6.67	1333		84.0	64-101			
Phenol	1010	µg/kg	33.0	1333		75.8	51-107			
Pyrene	1110	µg/kg	6.67	1333		83.3	62-114			
Pyridine	803	µg/kg	167	1333		60.2	40-84			
Surr: 2,4,6-Tribromophenol	2590	µg/kg		3333		77.6	48-94			
Surr: 2-Fluorobiphenyl	2540	µg/kg		3333		76.2	50-103			
Surr: 2-Fluorophenol	2520	µg/kg		3333		75.6	43-105			
Surr: 4-Terphenyl-d14	2710	µg/kg		3333		81.4	55-111			
Surr: Nitrobenzene-d5	3140	µg/kg		3333		94.3	47-100			
Surr: Phenol-d6	2600	µg/kg		3333		77.9	49-110			

MS	CLIENT ID: Batch QC	Lab ID: QC-2422965-005
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 01/21/26 17:14**Prep Date:** 01/20/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1760	µg/kg	60.0	2180.5	<8.85	80.8	57-101			
1,2,4,5-Tetrachlorobenzene	1810	µg/kg	605	2180.5	<12.6	83.0	54-98			
1-Methylnaphthalene	1830	µg/kg	12.1	2180.5	<7.85	83.9	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	1770	µg/kg	60.0	2180.5	<12.8	81.2	50-101			
2,3,4,6-Tetrachlorophenol	1900	µg/kg	121	2180.5	<39.9	87.2	48-103			
2,4,5-Trichlorophenol	1930	µg/kg	60.0	2180.5	<32.3	88.7	54-98			
2,4,6-Trichlorophenol	1800	µg/kg	60.0	2180.5	<14.5	82.6	56-97			
2,4-Dichlorophenol	1870	µg/kg	60.0	2180.5	<29.3	85.6	54-99			
2,4-Dimethylphenol	1510	µg/kg	60.0	2180.5	<28.0	69.1	47-102			
2,4-Dinitrophenol	925	µg/kg	605	2180.5	<399	42.4	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1850	µg/kg	60.0	2180.5	<35.4	84.6	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1860	µg/kg	60.0	2180.5	<13.9	85.2	62-103			
2-Chloronaphthalene	1760	µg/kg	12.1	2180.5	<7.62	80.8	57-101			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422965

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3835774

MS	CLIENT ID: Batch QC	Lab ID: QC-2422965-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/21/26 17:14

Prep Date: 01/20/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2-Chlorophenol	1740	µg/kg	60.0	2180.5	<35.7	79.8	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	1870	µg/kg	60.0	2180.5	<45.5	85.6	42-104			
2-Methylnaphthalene	1780	µg/kg	12.1	2180.5	<5.55	81.8	55-102			
2-Methylphenol (o-Cresol)	1640	µg/kg	60.0	2180.5	<14.7	75.2	54-103			
2-Nitroaniline	2060	µg/kg	60.0	2180.5	<30.3	94.6	57-103			
2-Nitrophenol	2090	µg/kg	60.0	2180.5	<15.5	95.9	52-102			
3&4-Methylphenol	1620	µg/kg	60.0	2180.5	<29.7	74.5	56-103			
3,3'-Dichlorobenzidine	1520	µg/kg	303	2180.5	<25.5	69.6	41-91			
3-Nitroaniline	1150	µg/kg	60.0	2180.5	<31.7	52.8	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1860	µg/kg	60.0	2180.5	<29.9	85.5	63-104			
4-Chloro-3-methylphenol	1850	µg/kg	60.0	2180.5	<15.5	84.8	57-103			
4-Chloroaniline	1930	µg/kg	121	2180.5	<27.7	88.3	32-99			
4-Chlorophenyl phenylether	1700	µg/kg	60.0	2180.5	<15.1	78.0	62-100			
4-Nitroaniline	844	µg/kg	303	2180.5	<84.6	38.7	19-124			
4-Nitrophenol	1790	µg/kg	605	2180.5	<128	82.2	44-106			
Acenaphthene	1770	µg/kg	12.1	2180.5	<7.88	81.1	60-101			
Acenaphthylene	1810	µg/kg	12.1	2180.5	<9.45	83.1	59-101			
Acetophenone	1690	µg/kg	60.0	2180.5	<8.54	77.4	54-102			
Anthracene	1850	µg/kg	12.1	2180.5	<7.69	84.8	63-96			
Atrazine	1850	µg/kg	60.0	2180.5	<31.9	84.9	60-110			
Benzaldehyde	257	µg/kg	121	2180.5	<83.8	11.8	10-143			
Benzo(a)anthracene	1880	µg/kg	12.1	2180.5	<9.42	86.1	66-102			
Benzo(a)pyrene	1950	µg/kg	12.1	2180.5	<6.69	89.4	66-105			
Benzo(b)fluoranthene	1900	µg/kg	12.1	2180.5	<8.13	87.0	67-105			
Benzo(g,h,i)perylene	1970	µg/kg	12.1	2180.5	<8.36	90.1	59-110			
Benzo(k)fluoranthene	1860	µg/kg	12.1	2180.5	<8.26	85.5	68-106			
bis(2-Chloroethoxy)methane	1770	µg/kg	60.0	2180.5	<34.5	81.2	54-102			
bis(2-Chloroethyl) ether	1720	µg/kg	60.0	2180.5	<15.4	79.0	51-101			
Butyl benzyl phthalate	1950	µg/kg	121	2180.5	<68.3	89.3	59-107			
Caprolactam	1930	µg/kg	60.0	2180.5	<49.2	88.7	49-103			
Carbazole	1820	µg/kg	60.0	2180.5	<16.1	83.6	63-103			
Chrysene	1900	µg/kg	12.1	2180.5	<9.31	87.2	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	2050	µg/kg	60.0	2180.5	<45.1	94.2	63-101			
Dibenz(a,h) anthracene	1970	µg/kg	60.0	2180.5	<5.89	90.1	61-109			
Dibenzofuran	1770	µg/kg	60.0	2180.5	<8.02	81.2	61-101			
Diethyl phthalate	1800	µg/kg	60.0	2180.5	<18.5	82.6	63-105			
Dimethyl phthalate	1770	µg/kg	60.0	2180.5	<10.6	81.4	64-104			
Fluoranthene	1850	µg/kg	12.1	2180.5	<5.23	85.0	66-105			
Fluorene	1770	µg/kg	12.1	2180.5	<7.92	81.3	62-101			
Hexachlorobenzene	1830	µg/kg	60.0	2180.5	<15.9	83.8	61-104			
Hexachlorobutadiene	1800	µg/kg	60.0	2180.5	<12.8	82.7	52-99			
Hexachlorocyclopentadiene	1580	µg/kg	60.0	2180.5	<53.3	72.5	39-106			
Hexachloroethane	1730	µg/kg	60.0	2180.5	<22.6	79.5	59-99			
Indeno(1,2,3-cd) pyrene	2020	µg/kg	12.1	2180.5	<7.59	92.6	57-114			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422965

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3835774

MS		CLIENT ID: Batch QC				Lab ID: QC-2422965-005				
Method: EPA 8270E		Dilution: 1				Analysis Date: 01/21/26 17:14				
						Prep Date: 01/20/26 13:30				
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Isophorone	1840	µg/kg	303	2180.5	<10.6	84.2	55-101			
Methylphenol, Total	3260	µg/kg	60.0	4362.6	<14.7	74.8	54-103			
Naphthalene	1820	µg/kg	12.1	2180.5	<6.97	83.4	54-99			
Nitrobenzene	1970	µg/kg	303	2180.5	<18.3	90.5	53-100			
n-Nitrosodi-n-propylamine	1710	µg/kg	60.0	2180.5	<9.00	78.2	52-104			
N-Nitrosodiphenylamine	1880	µg/kg	60.0	2180.5	<31.6	86.3	61-104			
Pentachlorophenol	1850	µg/kg	60.0	2180.5	<43.3	85.1	35-100			
Phenanthrene	1860	µg/kg	12.1	2180.5	<5.07	85.5	64-101			
Phenol	1650	µg/kg	60.0	2180.5	<27.4	75.5	51-107			
Pyrene	1910	µg/kg	12.1	2180.5	<5.44	87.4	52-114			
Pyridine	1600	µg/kg	303	2180.5	<107	73.2	40-84			
Surr: 2,4,6-Tribromophenol	4370	µg/kg		5452		80.1	48-94			
Surr: 2-Fluorobiphenyl	4250	µg/kg		5452		78.0	50-103			
Surr: 2-Fluorophenol	4280	µg/kg		5452		78.5	43-105			
Surr: 4-Terphenyl-d14	4560	µg/kg		5452		83.7	55-111			
Surr: Nitrobenzene-d5	5330	µg/kg		5452		97.8	47-100			
Surr: Phenol-d6	4260	µg/kg		5452		78.2	49-110			

MSD		CLIENT ID: Batch QC				Lab ID: QC-2422965-006				
Method: EPA 8270E		Dilution: 1				Analysis Date: 01/21/26 17:35				
						Prep Date: 01/20/26 13:30				
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1790	µg/kg	59.9	2178.1	<8.84	82.3	57-101	1.73	30	
1,2,4,5-Tetrachlorobenzene	1820	µg/kg	604	2178.1	<12.6	83.7	54-98	0.731	30	
1-Methylnaphthalene	1870	µg/kg	12.1	2178.1	<7.84	86.0	56-100	2.30	30	
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	1860	µg/kg	59.9	2178.1	<12.8	85.5	50-101	5.05	30	
2,3,4,6-Tetrachlorophenol	1940	µg/kg	121	2178.1	<39.9	89.1	48-103	2.05	30	
2,4,5-Trichlorophenol	1990	µg/kg	59.9	2178.1	<32.3	91.5	54-98	2.94	30	
2,4,6-Trichlorophenol	1840	µg/kg	59.9	2178.1	<14.5	84.3	56-97	1.87	30	
2,4-Dichlorophenol	1930	µg/kg	59.9	2178.1	<29.3	88.8	54-99	3.62	30	
2,4-Dimethylphenol	1450	µg/kg	59.9	2178.1	<28.0	66.5	47-102	3.87	30	
2,4-Dinitrophenol	902	µg/kg	604	2178.1	<398	41.4	10-100	2.50	30	
2,4-Dinitrotoluene (2,4-DNT)	1860	µg/kg	59.9	2178.1	<35.4	85.2	62-105	0.598	30	
2,6-Dinitrotoluene (2,6-DNT)	1800	µg/kg	59.9	2178.1	<13.9	82.7	62-103	3.09	30	
2-Chloronaphthalene	1780	µg/kg	12.1	2178.1	<7.61	81.8	57-101	1.06	30	
2-Chlorophenol	1810	µg/kg	59.9	2178.1	<35.6	83.2	52-102	4.13	30	
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	1940	µg/kg	59.9	2178.1	<45.5	89.1	42-104	3.84	30	
2-Methylnaphthalene	1840	µg/kg	12.1	2178.1	<5.54	84.4	55-102	3.02	30	
2-Methylphenol (o-Cresol)	1630	µg/kg	59.9	2178.1	<14.7	74.9	54-103	0.509	30	
2-Nitroaniline	2060	µg/kg	59.9	2178.1	<30.2	94.7	57-103	0.0032	30	
								8		
2-Nitrophenol	2190	µg/kg	59.9	2178.1	<15.5	101	52-102	4.77	30	
3&4-Methylphenol	1640	µg/kg	59.9	2178.1	<29.7	75.3	56-103	1.03	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422965

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3835774

MSD	CLIENT ID: Batch QC	Lab ID: QC-2422965-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/21/26 17:35

Prep Date: 01/20/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
3,3'-Dichlorobenzidine	1590	µg/kg	302	2178.1	<25.4	72.9	41-91	4.53	30	
3-Nitroaniline	1040	µg/kg	59.9	2178.1	<31.6	47.9	35-107	9.85	30	
4-Bromophenyl phenyl ether (BDE-3)	1880	µg/kg	59.9	2178.1	<29.8	86.5	63-104	1.05	30	
4-Chloro-3-methylphenol	1900	µg/kg	59.9	2178.1	<15.5	87.1	57-103	2.57	30	
4-Chloroaniline	1940	µg/kg	121	2178.1	<27.7	89.1	32-99	0.737	30	
4-Chlorophenyl phenylether	1730	µg/kg	59.9	2178.1	<15.0	79.3	62-100	1.61	30	
4-Nitroaniline	781	µg/kg	302	2178.1	<84.5	35.9	19-124	7.75	30	
4-Nitrophenol	1820	µg/kg	604	2178.1	<128	83.6	44-106	1.58	30	
Acenaphthene	1800	µg/kg	12.1	2178.1	<7.88	82.7	60-101	1.84	30	
Acenaphthylene	1850	µg/kg	12.1	2178.1	<9.44	84.8	59-101	1.98	30	
Acetophenone	1730	µg/kg	59.9	2178.1	<8.53	79.3	54-102	2.25	30	
Anthracene	1880	µg/kg	12.1	2178.1	<7.68	86.1	63-96	1.47	30	
Atrazine	1850	µg/kg	59.9	2178.1	<31.9	84.9	60-110	0.109	30	
Benzaldehyde	260	µg/kg	121	2178.1	<83.7	12.0	10-143	1.15	30	
Benzo(a)anthracene	1870	µg/kg	12.1	2178.1	<9.41	85.7	66-102	0.517	30	
Benzo(a)pyrene	1970	µg/kg	12.1	2178.1	<6.68	90.5	66-105	1.11	30	
Benzo(b)fluoranthene	1910	µg/kg	12.1	2178.1	<8.12	87.6	67-105	0.578	30	
Benzo(g,h,i)perylene	2010	µg/kg	12.1	2178.1	<8.35	92.4	59-110	2.41	30	
Benzo(k)fluoranthene	1890	µg/kg	12.1	2178.1	<8.25	86.6	68-106	1.23	30	
bis(2-Chloroethoxy)methane	1860	µg/kg	59.9	2178.1	<34.5	85.5	54-102	5.05	30	
bis(2-Chloroethyl) ether	1810	µg/kg	59.9	2178.1	<15.4	82.9	51-101	4.71	30	
Butyl benzyl phthalate	1970	µg/kg	121	2178.1	<68.2	90.5	59-107	1.23	30	
Caprolactam	1950	µg/kg	59.9	2178.1	<49.2	89.3	49-103	0.622	30	
Carbazole	1850	µg/kg	59.9	2178.1	<16.1	84.8	63-103	1.32	30	
Chrysene	1910	µg/kg	12.1	2178.1	<9.30	87.7	66-105	0.463	30	
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	2070	µg/kg	59.9	2178.1	<45.0	95.2	63-101	0.947	30	
Dibenz(a,h) anthracene	2020	µg/kg	59.9	2178.1	<5.88	92.7	61-109	2.74	30	
Dibenzofuran	1790	µg/kg	59.9	2178.1	<8.01	82.0	61-101	0.871	30	
Diethyl phthalate	1820	µg/kg	59.9	2178.1	<18.5	83.5	63-105	0.975	30	
Dimethyl phthalate	1840	µg/kg	59.9	2178.1	<10.6	84.3	64-104	3.39	30	
Fluoranthene	1870	µg/kg	12.1	2178.1	<5.23	86.1	66-105	1.12	30	
Fluorene	1780	µg/kg	12.1	2178.1	<7.91	81.9	62-101	0.627	30	
Hexachlorobenzene	1860	µg/kg	59.9	2178.1	<15.8	85.2	61-104	1.55	30	
Hexachlorobutadiene	1830	µg/kg	59.9	2178.1	<12.8	83.8	52-99	1.21	30	
Hexachlorocyclopentadiene	1580	µg/kg	59.9	2178.1	<53.3	72.7	39-106	0.0977	30	
Hexachloroethane	1810	µg/kg	59.9	2178.1	<22.5	83.1	59-99	4.26	30	
Indeno(1,2,3-cd) pyrene	2090	µg/kg	12.1	2178.1	<7.58	96.2	57-114	3.71	30	
Isophorone	1890	µg/kg	302	2178.1	<10.6	86.9	55-101	2.99	30	
Methylphenol, Total	3270	µg/kg	67.0	4357.8	<14.7	75.1	54-103	0.258	30	
Naphthalene	1840	µg/kg	12.1	2178.1	<6.96	84.3	54-99	0.964	30	
Nitrobenzene	1970	µg/kg	302	2178.1	<18.3	90.5	53-100	0.109	30	
n-Nitrosodi-n-propylamine	1840	µg/kg	59.9	2178.1	<8.99	84.6	52-104	7.75	30	
N-Nitrosodiphenylamine	1890	µg/kg	59.9	2178.1	<31.5	86.6	61-104	0.180	30	
Pentachlorophenol	1790	µg/kg	59.9	2178.1	<43.3	82.0	35-100	3.76	30	
Phenanthrene	1880	µg/kg	12.1	2178.1	<5.07	86.5	64-101	0.996	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422965

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3835774

MSD		CLIENT ID: Batch QC				Lab ID: QC-2422965-006				
Method: EPA 8270E		Dilution: 1				Analysis Date: 01/21/26 17:35				
						Prep Date: 01/20/26 13:30				
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Phenol	1740	µg/kg	59.9	2178.1	<27.4	79.7	51-107	5.30	30	
Pyrene	1900	µg/kg	12.1	2178.1	<5.43	87.2	52-114	0.281	30	
Pyridine	1650	µg/kg	302	2178.1	<107	75.6	40-84	3.05	30	
Surr: 2,4,6-Tribromophenol	4400	µg/kg		5446.1		80.8	48-94	0.686	30	
Surr: 2-Fluorobiphenyl	4290	µg/kg		5446.1		78.7	50-103	0.835	30	
Surr: 2-Fluorophenol	4300	µg/kg		5446.1		79.0	43-105	0.526	30	
Surr: 4-Terphenyl-d14	4530	µg/kg		5446.1		83.1	55-111	0.828	30	
Surr: Nitrobenzene-d5	5300	µg/kg		5446.1		97.3	47-100	0.601	30	
Surr: Phenol-d6	4460	µg/kg		5446.1		81.9	49-110	4.54	30	

The following samples were analyzed in this batch: HN2600832-001, HN2600832-002, HN2600832-003



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422019

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3833207

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2422019-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 15:20

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	<13.6	µg/kg	30.0							U
1,1,2,2-Tetrachloroethane	<13.2	µg/kg	30.0							U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	<19.0	µg/kg	30.0							U
1,1,2-Trichloroethane	<12.8	µg/kg	30.0							U
1,1-Dichloroethane	<10.9	µg/kg	30.0							U
1,1-Dichloroethylene	<9.72	µg/kg	30.0							U
1,2,3-Trichlorobenzene	<36.0	µg/kg	100							U
1,2,3-Trichloropropane	<12.6	µg/kg	30.0							U
1,2,4-Trichlorobenzene	<34.0	µg/kg	100							U
1,2,4-Trimethylbenzene	<22.0	µg/kg	30.0							U
1,2-Dibromo-3-chloropropane (DBCP)	<27.6	µg/kg	100							U
1,2-Dibromoethane (EDB, Ethylene dibromide)	<17.6	µg/kg	30.0							U
1,2-Dichlorobenzene (o-Dichlorobenzene)	<11.4	µg/kg	30.0							U
1,2-Dichloroethane (Ethylene dichloride)	<26.3	µg/kg	100							U
1,2-Dichloropropane	<22.1	µg/kg	30.0							U
1,3,5-Trimethylbenzene	<21.2	µg/kg	100							U
1,3-Dichlorobenzene (m-Dichlorobenzene)	<20.7	µg/kg	30.0							U
1,3-Dichloropropene	<16.8	µg/kg	60.0							U
1,4-Dichlorobenzene (p-Dichlorobenzene)	<24.4	µg/kg	30.0							U
2-Butanone (Methyl ethyl ketone, MEK)	<71.4	µg/kg	200							U
2-Hexanone	<14.9	µg/kg	30.0							U
4-Methyl-2-pentanone (MIBK)	<28.0	µg/kg	30.0							U
Acetone	<89.0	µg/kg	100							U
Benzene	<14.5	µg/kg	30.0							U
Bromochloromethane	<15.3	µg/kg	30.0							U
Bromodichloromethane	<16.8	µg/kg	30.0							U
Bromoform	<12.6	µg/kg	30.0							U
Carbon disulfide	<15.5	µg/kg	30.0							U
Carbon tetrachloride	<11.7	µg/kg	30.0							U
Chlorobenzene	<9.96	µg/kg	30.0							U
Chlorodibromomethane	<16.8	µg/kg	30.0							U
Chloroethane (Ethyl chloride)	<84.0	µg/kg	100							U
Chloroform	<11.0	µg/kg	30.0							U
cis-1,2-Dichloroethylene	<19.3	µg/kg	30.0							U
cis-1,3-Dichloropropene	<22.6	µg/kg	30.0							U
Cyclohexane	<23.0	µg/kg	100							U
Dichlorodifluoromethane (Freon-12)	<36.3	µg/kg	100							U
Ethylbenzene	<21.3	µg/kg	30.0							U



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422019

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3833207

MB	CLIENT ID: Method Blank	Lab ID: QC-2422019-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 15:20

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Isopropylbenzene	<19.0	µg/kg	30.0							U
m+p-Xylene	<40.0	µg/kg	60.0							U
Methyl acetate	<35.9	µg/kg	250							U
Methyl bromide (Bromomethane)	<57.4	µg/kg	100							U
Methyl chloride (Chloromethane)	<82.0	µg/kg	100							U
Methyl tert-butyl ether (MTBE)	<21.9	µg/kg	30.0							U
Methylcyclohexane	<11.4	µg/kg	30.0							U
Methylene chloride (Dichloromethane)	<79.6	µg/kg	250							U
o-Xylene	<11.6	µg/kg	30.0							U
Styrene	<11.9	µg/kg	30.0							U
Tetrachloroethylene (Perchloroethylene)	<18.1	µg/kg	30.0							U
Toluene	<24.7	µg/kg	30.0							U
Total Xylene	<11.6	µg/kg	90.0							U
trans-1,2-Dichloroethylene	<24.8	µg/kg	30.0							U
trans-1,3-Dichloropropylene	<16.8	µg/kg	30.0							U
Trichloroethene (Trichloroethylene)	<13.4	µg/kg	30.0							U
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	<15.3	µg/kg	30.0							U
Vinyl chloride (Chloroethene)	<19.9	µg/kg	30.0							U
Surr: 1,2-Dichloroethane-d4	1040	µg/kg		1000		104	80-120			
Surr: 4-Bromofluorobenzene	1030	µg/kg		1000		103	80-120			
Surr: Dibromofluoromethane	1020	µg/kg		1000		102	72-120			
Surr: Toluene-d8	958	µg/kg		1000		95.8	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422019-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 14:21

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	923	µg/kg	30.0	1000		92.3	75-121			
1,1,2,2-Tetrachloroethane	930	µg/kg	30.0	1000		93.0	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	956	µg/kg	30.0	1000		95.6	62-129			
1,1,2-Trichloroethane	936	µg/kg	30.0	1000		93.6	80-123			
1,1-Dichloroethane	873	µg/kg	30.0	1000		87.3	74-124			
1,1-Dichloroethylene	880	µg/kg	30.0	1000		88.0	68-131			
1,2,3-Trichlorobenzene	906	µg/kg	100	1000		90.6	60-135			
1,2,3-Trichloropropane	936	µg/kg	30.0	1000		93.6	77-121			
1,2,4-Trichlorobenzene	923	µg/kg	100	1000		92.3	63-130			
1,2,4-Trimethylbenzene	949	µg/kg	30.0	1000		94.9	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	825	µg/kg	100	1000		82.5	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	971	µg/kg	30.0	1000		97.1	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	902	µg/kg	30.0	1000		90.2	77-122			



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422019

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3833207

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422019-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 14:21

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichloroethane (Ethylene dichloride)	948	µg/kg	100	1000		94.8	70-130			
1,2-Dichloropropane	876	µg/kg	30.0	1000		87.6	71-130			
1,3,5-Trimethylbenzene	981	µg/kg	100	1000		98.1	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	914	µg/kg	30.0	1000		91.4	78-121			
1,3-Dichloropropene	1790	µg/kg	60.0	2000		89.3	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	888	µg/kg	30.0	1000		88.8	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	976	µg/kg	200	1000		97.6	47-164			
2-Hexanone	984	µg/kg	30.0	1000		98.4	70-137			
4-Methyl-2-pentanone (MIBK)	1560	µg/kg	30.0	1000		156	57-200			
Acetone	942	µg/kg	100	1000		94.2	52-190			
Benzene	941	µg/kg	30.0	1000		94.1	78-122			
Bromochloromethane	903	µg/kg	30.0	1000		90.3	68-130			
Bromodichloromethane	930	µg/kg	30.0	1000		93.0	75-125			
Bromoform	904	µg/kg	30.0	1000		90.4	59-120			
Carbon disulfide	1010	µg/kg	30.0	1000		101	60-163			
Carbon tetrachloride	902	µg/kg	30.0	1000		90.2	69-123			
Chlorobenzene	934	µg/kg	30.0	1000		93.4	79-120			
Chlorodibromomethane	924	µg/kg	30.0	1000		92.4	57-123			
Chloroethane (Ethyl chloride)	646	µg/kg	100	1000		64.6	38-132			
Chloroform	896	µg/kg	30.0	1000		89.6	72-122			
cis-1,2-Dichloroethylene	896	µg/kg	30.0	1000		89.6	74-125			
cis-1,3-Dichloropropene	902	µg/kg	30.0	1000		90.2	62-124			
Dichlorodifluoromethane (Freon-12)	538	µg/kg	100	1000		53.8	28-137			
Ethylbenzene	976	µg/kg	30.0	1000		97.6	75-121			
Isopropylbenzene	974	µg/kg	30.0	1000		97.4	74-121			
m+p-Xylene	2010	µg/kg	60.0	2000		101	67-129			
Methyl acetate	868	µg/kg	250	1000		86.8	61-125			
Methyl bromide (Bromomethane)	653	µg/kg	100	1000		65.3	31-169			
Methyl chloride (Chloromethane)	576	µg/kg	100	1000		57.6	24-119			
Methyl tert-butyl ether (MTBE)	930	µg/kg	30.0	1000		93.0	79-139			
Methylene chloride (Dichloromethane)	807	µg/kg	250	1000		80.7	62-135			
o-Xylene	977	µg/kg	30.0	1000		97.7	75-120			
Styrene	944	µg/kg	30.0	1000		94.4	74-126			
Tetrachloroethylene (Perchloroethylene)	1320	µg/kg	30.0	1000		132	76-128			S
Toluene	925	µg/kg	30.0	1000		92.5	76-120			
Total Xylene	2990	µg/kg	90.0	3000		99.6	67-129			
trans-1,2-Dichloroethylene	901	µg/kg	30.0	1000		90.1	72-127			
trans-1,3-Dichloropropylene	884	µg/kg	30.0	1000		88.4	66-120			
Trichloroethene (Trichloroethylene)	938	µg/kg	30.0	1000		93.8	75-122			
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	686	µg/kg	30.0	1000		68.6	51-115			
Vinyl chloride (Chloroethene)	611	µg/kg	30.0	1000		61.1	43-128			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422019

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3833207

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422019-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 14:21

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Surr: 1,2-Dichloroethane-d4	986	µg/kg		1000		98.6	80-120			
Surr: 4-Bromofluorobenzene	1010	µg/kg		1000		101	80-120			
Surr: Dibromofluoromethane	1010	µg/kg		1000		101	72-120			
Surr: Toluene-d8	992	µg/kg		1000		99.2	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2422019-005
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 22:10

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1000	µg/kg	41.2	1011.1	<13.8	99.0	75-121			
1,1,2,2-Tetrachloroethane	798	µg/kg	41.2	1011.1	<13.4	78.9	79-125			S
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	828	µg/kg	41.2	1011.1	<19.2	81.8	62-129			
1,1,2-Trichloroethane	954	µg/kg	41.2	1011.1	<12.9	94.4	80-123			
1,1-Dichloroethane	914	µg/kg	41.2	1011.1	<11.1	90.4	74-124			
1,1-Dichloroethylene	816	µg/kg	41.2	1011.1	<9.83	80.8	68-131			
1,2,3-Trichlorobenzene	892	µg/kg	137	1011.1	<36.4	88.2	60-135			
1,2,3-Trichloropropane	926	µg/kg	41.2	1011.1	<12.7	91.6	77-121			
1,2,4-Trichlorobenzene	905	µg/kg	137	1011.1	<34.4	89.5	63-130			
1,2,4-Trimethylbenzene	1000	µg/kg	41.2	1011.1	<22.2	98.9	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	803	µg/kg	137	1011.1	<27.9	79.4	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	968	µg/kg	41.2	1011.1	<17.8	95.8	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	910	µg/kg	41.2	1011.1	<11.5	90.0	77-122			
1,2-Dichloroethane (Ethylene dichloride)	969	µg/kg	137	1011.1	<26.6	95.8	70-130			
1,2-Dichloropropane	936	µg/kg	41.2	1011.1	<22.4	92.6	71-130			
1,3,5-Trimethylbenzene	1040	µg/kg	137	1011.1	<21.4	103	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	928	µg/kg	41.2	1011.1	<21.0	91.8	78-121			
1,3-Dichloropropene	1810	µg/kg	82.4	2022.2	<16.9	89.3	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	946	µg/kg	41.2	1011.1	<24.7	93.6	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1190	µg/kg	275	1011.1	<72.2	118	47-164			
2-Hexanone	1200	µg/kg	41.2	1011.1	<15.0	118	70-137			
4-Methyl-2-pentanone (MIBK)	1380	µg/kg	41.2	1011.1	<28.3	136	57-200			
Acetone	1700	µg/kg	137	1011.1	<90.0	169	52-190			
Benzene	994	µg/kg	41.2	1011.1	<14.7	98.4	78-122			
Bromochloromethane	944	µg/kg	41.2	1011.1	<15.4	93.4	68-130			
Bromodichloromethane	975	µg/kg	41.2	1011.1	<17.0	96.4	75-125			
Bromoform	892	µg/kg	41.2	1011.1	<12.8	88.2	59-120			
Carbon disulfide	800	µg/kg	41.2	1011.1	<15.7	79.1	60-163			
Carbon tetrachloride	939	µg/kg	41.2	1011.1	<11.9	92.9	69-123			
Chlorobenzene	981	µg/kg	41.2	1011.1	<10.1	97.0	79-120			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422019

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3833207

MS	CLIENT ID: Batch QC	Lab ID: QC-2422019-005
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Method: EPA 8260D**Dilution:** 1**Analysis Date:** 01/20/26 22:10**Prep Date:** 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlorodibromomethane	905	µg/kg	41.2	1011.1	<17.0	89.6	57-123			
Chloroethane (Ethyl chloride)	283	µg/kg	137	1011.1	<84.9	28.0	38-132			S
Chloroform	945	µg/kg	41.2	1011.1	<11.1	93.5	72-122			
cis-1,2-Dichloroethylene	951	µg/kg	41.2	1011.1	<19.5	94.0	74-125			
cis-1,3-Dichloropropene	945	µg/kg	41.2	1011.1	<22.9	93.5	62-124			
Dichlorodifluoromethane (Freon-12)	214	µg/kg	137	1011.1	<36.7	21.2	28-137			S
Ethylbenzene	1040	µg/kg	41.2	1011.1	<21.5	103	75-121			
Isopropylbenzene	1060	µg/kg	41.2	1011.1	<19.2	104	74-121			
m+p-Xylene	2110	µg/kg	82.4	2022.2	<40.4	105	67-129			
Methyl acetate	1020	µg/kg	344	1011.1	<36.3	101	61-125			
Methyl bromide (Bromomethane)	205	µg/kg	137	1011.1	<58.0	20.3	31-169			S
Methyl chloride (Chloromethane)	306	µg/kg	137	1011.1	<82.9	30.2	24-119			
Methyl tert-butyl ether (MTBE)	892	µg/kg	41.2	1011.1	<22.1	88.2	79-139			
Methylene chloride (Dichloromethane)	574	µg/kg	344	1011.1	<80.5	56.8	62-135			S
o-Xylene	1030	µg/kg	41.2	1011.1	<11.7	102	75-120			
Styrene	988	µg/kg	41.2	1011.1	<12.0	97.8	74-126			
Tetrachloroethylene (Perchloroethylene)	1900	µg/kg	41.2	1011.1	<18.3	188	76-128			S
Toluene	989	µg/kg	41.2	1011.1	<25.0	97.8	76-120			
Total Xylene	3140	µg/kg	124	3033.4	<11.7	104	67-129			
trans-1,2-Dichloroethylene	905	µg/kg	41.2	1011.1	<25.0	89.6	72-127			
trans-1,3-Dichloropropylene	860	µg/kg	41.2	1011.1	<16.9	85.0	66-120			
Trichloroethene (Trichloroethylene)	1130	µg/kg	41.2	1011.1	<13.6	112	75-122			
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	552	µg/kg	41.2	1011.1	<15.5	54.6	51-115			
Vinyl chloride (Chloroethene)	355	µg/kg	41.2	1011.1	<20.2	35.1	43-128			S
Surr: 1,2-Dichloroethane-d4	1010	µg/kg		1011.1		99.6	80-120			
Surr: 4-Bromofluorobenzene	1040	µg/kg		1011.1		103	80-120			
Surr: Dibromofluoromethane	978	µg/kg		1011.1		96.8	72-120			
Surr: Toluene-d8	978	µg/kg		1011.1		96.7	80-120			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2422019-006
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Method: EPA 8260D**Dilution:** 1**Analysis Date:** 01/20/26 22:30**Prep Date:** 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	988	µg/kg	41.2	1011.1	<13.8	97.8	75-121	1.22	30	
1,1,2,2-Tetrachloroethane	840	µg/kg	41.2	1011.1	<13.4	83.0	79-125	5.13	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	846	µg/kg	41.2	1011.1	<19.2	83.6	62-129	2.18	30	
1,1,2-Trichloroethane	994	µg/kg	41.2	1011.1	<12.9	98.4	80-123	4.10	30	
1,1-Dichloroethane	915	µg/kg	41.2	1011.1	<11.1	90.4	74-124	0.111	30	
1,1-Dichloroethylene	826	µg/kg	41.2	1011.1	<9.83	81.7	68-131	1.17	30	
1,2,3-Trichlorobenzene	992	µg/kg	137	1011.1	<36.4	98.2	60-135	10.7	30	
1,2,3-Trichloropropane	945	µg/kg	41.2	1011.1	<12.7	93.5	77-121	2.05	30	
1,2,4-Trichlorobenzene	993	µg/kg	137	1011.1	<34.4	98.2	63-130	9.27	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422019

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3833207

MSD	CLIENT ID: Batch QC	Lab ID: QC-2422019-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 22:30

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	1040	µg/kg	41.2	1011.1	<22.2	102	64-126	3.48	30	
1,2-Dibromo-3-chloropropane (DBCP)	882	µg/kg	137	1011.1	<27.9	87.2	55-135	9.42	30	
1,2-Dibromoethane (EDB, Ethylene dibromide)	1010	µg/kg	41.2	1011.1	<17.8	99.9	63-155	4.24	30	
1,2-Dichlorobenzene (o-Dichlorobenzene)	1010	µg/kg	41.2	1011.1	<11.5	100	77-122	10.9	30	
1,2-Dichloroethane (Ethylene dichloride)	975	µg/kg	137	1011.1	<26.6	96.4	70-130	0.624	30	
1,2-Dichloropropane	928	µg/kg	41.2	1011.1	<22.4	91.8	71-130	0.922	30	
1,3,5-Trimethylbenzene	1080	µg/kg	137	1011.1	<21.4	106	66-130	3.20	30	
1,3-Dichlorobenzene (m-Dichlorobenzene)	1020	µg/kg	41.2	1011.1	<21.0	101	78-121	9.84	30	
1,3-Dichloropropene	1830	µg/kg	82.4	2022.2	<16.9	90.3	62-124	1.14	30	
1,4-Dichlorobenzene (p-Dichlorobenzene)	1020	µg/kg	41.2	1011.1	<24.7	101	78-122	7.65	30	
2-Butanone (Methyl ethyl ketone, MEK)	1100	µg/kg	275	1011.1	<72.2	109	47-164	7.45	30	
2-Hexanone	1170	µg/kg	41.2	1011.1	<15.0	116	70-137	1.96	30	
4-Methyl-2-pentanone (MIBK)	1390	µg/kg	41.2	1011.1	<28.3	138	57-200	1.02	30	
Acetone	1640	µg/kg	137	1011.1	<90.0	162	52-190	3.93	30	
Benzene	997	µg/kg	41.2	1011.1	<14.7	98.6	78-122	0.254	30	
Bromochloromethane	936	µg/kg	41.2	1011.1	<15.4	92.6	68-130	0.914	30	
Bromodichloromethane	969	µg/kg	41.2	1011.1	<17.0	95.8	75-125	0.624	30	
Bromoform	930	µg/kg	41.2	1011.1	<12.8	92.0	59-120	4.16	30	
Carbon disulfide	804	µg/kg	41.2	1011.1	<15.7	79.5	60-163	0.504	30	
Carbon tetrachloride	969	µg/kg	41.2	1011.1	<11.9	95.8	69-123	3.13	30	
Chlorobenzene	1020	µg/kg	41.2	1011.1	<10.1	101	79-120	3.89	30	
Chlorodibromomethane	978	µg/kg	41.2	1011.1	<17.0	96.7	57-123	7.68	30	
Chloroethane (Ethyl chloride)	280	µg/kg	137	1011.1	<84.9	27.7	38-132	1.08	30	S
Chloroform	956	µg/kg	41.2	1011.1	<11.1	94.5	72-122	1.06	30	
cis-1,2-Dichloroethylene	947	µg/kg	41.2	1011.1	<19.5	93.7	74-125	0.373	30	
cis-1,3-Dichloropropene	923	µg/kg	41.2	1011.1	<22.9	91.2	62-124	2.44	30	
Dichlorodifluoromethane (Freon-12)	222	µg/kg	137	1011.1	<36.7	22.0	28-137	3.48	30	S
Ethylbenzene	1070	µg/kg	41.2	1011.1	<21.5	105	75-121	2.01	30	
Isopropylbenzene	1090	µg/kg	41.2	1011.1	<19.2	108	74-121	3.35	30	
m+p-Xylene	2170	µg/kg	82.4	2022.2	<40.4	108	67-129	2.81	30	
Methyl acetate	1000	µg/kg	344	1011.1	<36.3	99.4	61-125	1.50	30	
Methyl bromide (Bromomethane)	212	µg/kg	137	1011.1	<58.0	21.0	31-169	3.39	30	S
Methyl chloride (Chloromethane)	331	µg/kg	137	1011.1	<82.9	32.7	24-119	7.78	30	
Methyl tert-butyl ether (MTBE)	884	µg/kg	41.2	1011.1	<22.1	87.4	79-139	0.911	30	
Methylene chloride (Dichloromethane)	638	µg/kg	344	1011.1	<80.5	63.0	62-135	10.5	30	
o-Xylene	1070	µg/kg	41.2	1011.1	<11.7	106	75-120	4.43	30	
Styrene	1020	µg/kg	41.2	1011.1	<12.0	101	74-126	3.27	30	
Tetrachloroethylene (Perchloroethylene)	1940	µg/kg	41.2	1011.1	<18.3	192	76-128	2.08	30	S
Toluene	1020	µg/kg	41.2	1011.1	<25.0	101	76-120	2.77	30	
Total Xylene	3250	µg/kg	124	3033.4	<11.7	107	67-129	3.34	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2422019

Work Order: HN2600832
Date Collected: NA
Date Received: NA
Run ID: 3833207

MSD	CLIENT ID: Batch QC	Lab ID: QC-2422019-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 22:30

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
trans-1,2-Dichloroethylene	917	µg/kg	41.2	1011.1	<25.0	90.7	72-127	1.28	30	
trans-1,3-Dichloropropylene	903	µg/kg	41.2	1011.1	<16.9	89.4	66-120	4.93	30	
Trichloroethene (Trichloroethylene)	1110	µg/kg	41.2	1011.1	<13.6	110	75-122	1.99	30	
Trichlorofluoromethane	558	µg/kg	41.2	1011.1	<15.5	55.2	51-115	1.00	30	
(Fluorotrichloromethane, Freon 11)										
Vinyl chloride (Chloroethene)	366	µg/kg	41.2	1011.1	<20.2	36.2	43-128	2.95	30	S
Surr: 1,2-Dichloroethane-d4	993	µg/kg		1011.1		98.2	80-120	1.47	30	
Surr: 4-Bromofluorobenzene	1030	µg/kg		1011.1		102	80-120	0.979	30	
Surr: Dibromofluoromethane	987	µg/kg		1011.1		97.6	72-120	0.875	30	
Surr: Toluene-d8	998	µg/kg		1011.1		98.8	80-120	2.10	30	

The following samples were analyzed in this batch: HN2600832-001, HN2600832-002, HN2600832-003



right solutions.
right partner.

March 06, 2026

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

Re: **19250 Andover**

Date Received: **02/26/2026**

Work Order: **HN2602937**

Dear Ryan,

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

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

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

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

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

Kathy Jones-Gronda

/S/ KATHY JONES-GRONDA

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover

Work Order: HN2602937
Date Received: 26-Feb-2026

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 26-Feb-2026. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

WorkOrder: HN2602937

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

Organics

EPA 8081B-FULL HN-3511-TCLP

Run ID: 3924549

HN2602937-001: The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Methoxychlor

HN2602937-001: The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimated: DCB

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Workorder: HN2602937

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2602937-001	19250 TCLP SB01 (1-2') _20260225	SOIL/SOLID	02/25/26 10:35	02/26/26 08:00



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information					Parameter/Method Request for Analysis							
Purchase Order		Project Name	19250 Andover			A	TCLP Pesticides							
Work Order		Project Number	DETR0060			B								
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group			C								
Send Report To	Ryan Montri and Olivia Mitchell	Invoice Attn.				D								
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road			E								
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188			F								
Phone	734-397-3100	Phone	734-397-3100			G								
Fax		Fax				H								
e-Mail Address	montri@manniksmithgroup.com	e-Mail Address	omitchell@manniksmithgroup.com			I								
						J								
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	J	Hold		
1	19250 TCLP SB01 (1-2')_2026 0225	02/25/26	1035	Soil	NA	1	X							
2														
3														
4														
5														
6														
7														
8														
9														
10														

Sampler(s): Please Print & Sign Zachary Kippe Ryan Kinn		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Results Due Date:	
Relinquished by: Zachary Kippe Ryan Kinn		Date: 2-25-26	Time: 1:29	Received by: [Signature]		Notes: QS to BH 2/26/26 9800	
Relinquished by: [Signature]		Date: 2/25	Time: 1700	Received by (Laboratory): [Signature] 2/25 1700		Cooler Temp. 18C 25C	
Logged by (Laboratory): BH		Date: 2/26/26	Time: 10:53	Checked by (Laboratory):		QC Package: (Check Box Below) ☐ Level II: Standard QC ☐ TRRP-Checklist ☐ Level III: Std QC + Raw Data ☐ TRRP Level IV ☐ Level IV: SW846 CLP-Like	
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035							
Other:							

Environmental Division
Holland
Work Order Reference
HN2602937

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
3352 128th Ave., Holland MI 49424

ALS Holland Sample Receiving Checklist

Received by: BH

Date/Time: 2/26/26 0800

Carrier Name: QS

Shipping container/cooler in good condition? Yes / No / Not Present

Custody seals intact on shipping container/cooler? Yes / No / Not Present

Custody seals intact on sample bottles? Yes / No / Not Present

Chain of Custody present? Yes / No

COC signed when relinquished and received? Yes / No

COC agrees with sample labels? Yes / No

Samples in proper container/bottle? Yes / No

Sample containers intact? Yes / No

Sufficient sample volume for indicated test? Yes / No

All samples received within holding time? Yes / No

Container/Temp Blank temperature in compliance? Yes / No

Temperature(s) (°C): 25/25

Thermometer(s): 186

Sample(s) received on ice? Yes / No

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 2/26/26 1053

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:

HN-SHT-160-R01, Sample Receipt Checklist

REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit (if MCL displayed)
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Method criteria
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.

LABORATORY CERTIFICATIONS¹

Agency	Type	ID	Issued	Expires
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	12/08/2025	12/31/2026
Indiana	Drinking Water (Secondary)	C-MI-08	12/31/2024	09/04/2026
Iowa	State Specific	403	09/01/2025	09/01/2027
Kansas	NELAP (Secondary)	E-10411	08/01/2025	07/31/2026
Kentucky	Waste Water	KY98004	1/1/2026	12/31/2026
Kentucky	UST	120474	07/07/2025	06/30/2026
Michigan	Drinking Water (Primary)	0022	12/19/2023	09/04/2026
Minnesota	NELAP (Secondary)	026-999-449	12/10/2025	12/31/2026
Missouri	Drinking Water (Secondary)	01262	11/14/2024	12/30/2027
New Jersey	NELAP (Secondary)	MI015	07/01/2025	6/30/2026
New York	NELAP (Secondary)	12128	04/01/2025	04/01/2026
North Dakota	State Specific	R-192	11/18/2024	06/30/2025
Ohio	Drinking Water (Secondary)	87783	06/26/2025	6/30/2026
Pennsylvania	NELAP (Secondary)	68-03827	11/25/2025	07/31/2026
Texas	NELAP (Secondary)	T104704494	02/01/2026	01/31/2027
USDA	Domestic CA	Soil-MI-007	02/06/2025	08/07/2026
USDA	Soil Import	525-23-62-77572R1	01/28/2026	03/03/2029
West Virginia	State Specific	355	06/07/2025	08/31/2026
Wisconsin	State Specific	399084510	08/08/2025	08/31/2026

1 – Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover

Work Order: HN2602937

Sample Name: 19250 TCLP SB01 (1-2')_20260225
Laboratory Code: HN2602937-001
Sample Matrix: SOIL/SOLID

Date Collected: 02/25/26
Date Received: 02/26/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 8081B	EPA 3511	001-AC	2479368	Mac Peterson	3924549	Madison VandenBer

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID

Work Order: HN2602937
Date Collected: 02/25/26 10:35
Date Received: 02/26/26 08:00

CLIENT ID: 19250 TCLP SB01 (1-2')_20260225

Lab ID: HN2602937-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Organochlorine Pesticides by GC/ECD								
Chlordane (NOS)	EPA 8081B	<0.00794	U	µg/L	0.00993	1	03/06/26 08:23	03/05/26 11:57
Chlordane, Technical	EPA 8081B	<0.0338	U	µg/L	0.497	1	03/06/26 08:23	03/05/26 11:57
cis-Chlordane	EPA 8081B	<0.00794	U	µg/L	0.00993	1	03/06/26 08:23	03/05/26 11:57
Endrin	EPA 8081B	<0.00845	U	µg/L	0.00993	1	03/06/26 08:23	03/05/26 11:57
gamma-BHC (Lindane)	EPA 8081B	<0.00826	U	µg/L	0.00993	1	03/06/26 08:23	03/05/26 11:57
Heptachlor	EPA 8081B	<0.00755	U	µg/L	0.00993	1	03/06/26 08:23	03/05/26 11:57
Heptachlor epoxide	EPA 8081B	<0.00788	U	µg/L	0.00993	1	03/06/26 08:23	03/05/26 11:57
Methoxychlor	EPA 8081B	<0.00982	U	µg/L	0.00993	1	03/06/26 08:23	03/05/26 11:57
Toxaphene	EPA 8081B	<0.109	U	µg/L	1.99	1	03/06/26 08:23	03/05/26 11:57
trans-Chlordane	EPA 8081B	<0.00794	U	µg/L	0.00993	1	03/06/26 08:23	03/05/26 11:57
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	61.1		%REC	42-148	1	03/06/26 08:23	03/05/26 11:57
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	68.9		%REC	57-141	1	03/06/26 08:23	03/05/26 11:57



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2479368

Work Order: HN2602937
Date Collected: NA
Date Received: NA
Run ID: 3924549

TCLP Organochlorine Pesticides by GC/ECD

MB **CLIENT ID: Method Blank** **Lab ID: QC-2479368-001**

Method: EPA 8081B **Dilution:** 1 **Analysis Date:** 03/05/26 22:41
Prep Date: 03/05/26 11:58

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlordane (NOS)	<0.0100	µg/L	0.0100							U
Chlordane, Technical	<0.0340	µg/L	0.500							U
cis-Chlordane	<0.00800	µg/L	0.0100							U
Endrin	<0.00851	µg/L	0.0100							U
gamma-BHC (Lindane)	<0.00832	µg/L	0.0100							U
Heptachlor	<0.00760	µg/L	0.0100							U
Heptachlor epoxide	<0.00796	µg/L	0.0100							U
Methoxychlor	<0.00989	µg/L	0.0100							U
Toxaphene	<0.110	µg/L	2.00							U
trans-Chlordane	<0.00800	µg/L	0.0100							U
Surr: Decachlorobiphenyl	0.253	µg/L		0.25		101	0.42-148			
Surr: Tetrachloro-m-xylene	0.177	µg/L		0.25		70.7	57-141			

LCS **CLIENT ID: Laboratory Control Sample** **Lab ID: QC-2479368-002**

Method: EPA 8081B **Dilution:** 1 **Analysis Date:** 03/05/26 22:56
Prep Date: 03/05/26 11:58

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlordane (NOS)	0.421	µg/L	0.0100	0.4		105	63-165			
cis-Chlordane	0.212	µg/L	0.0100	0.2		106	63-164			
Endrin	0.229	µg/L	0.0100	0.2		115	43-176			
gamma-BHC (Lindane)	0.200	µg/L	0.0100	0.2		100	63-158			
Heptachlor	0.210	µg/L	0.0100	0.2		105	47-166			
Heptachlor epoxide	0.224	µg/L	0.0100	0.2		112	63-164			
Methoxychlor	0.218	µg/L	0.0100	0.2		109	36-176			
trans-Chlordane	0.209	µg/L	0.0100	0.2		105	63-165			
Surr: Decachlorobiphenyl	0.257	µg/L		0.25		103	42-148			
Surr: Tetrachloro-m-xylene	0.193	µg/L		0.25		77.4	57-141			

DLCS **CLIENT ID: Laboratory Control Sample Duplicate** **Lab ID: QC-2479368-003**

Method: EPA 8081B **Dilution:** 1 **Analysis Date:** 03/05/26 23:36
Prep Date: 03/05/26 11:58

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlordane (NOS)	0.430	µg/L	0.0100	0.4		107	63-165	1.97	20	
cis-Chlordane	0.216	µg/L	0.0100	0.2		108	63-164	2.15	20	
Endrin	0.235	µg/L	0.0100	0.2		117	43-176	2.24	20	
gamma-BHC (Lindane)	0.203	µg/L	0.0100	0.2		101	63-158	1.39	20	
Heptachlor	0.211	µg/L	0.0100	0.2		106	47-166	0.380	20	
Heptachlor epoxide	0.229	µg/L	0.0100	0.2		114	63-164	2.03	20	
Methoxychlor	0.225	µg/L	0.0100	0.2		112	36-176	3.16	20	
trans-Chlordane	0.213	µg/L	0.0100	0.2		107	63-165	1.80	20	
Surr: Decachlorobiphenyl	0.260	µg/L		0.25		104	42-148	1.31	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 19250 Andover
Matrix: SOIL/SOLID
QC Lot: 2479368

Work Order: HN2602937
Date Collected: NA
Date Received: NA
Run ID: 3924549

DLCS	CLIENT ID: Laboratory Control Sample Duplicate	Lab ID: QC-2479368-003
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Method: EPA 8081B **Dilution:** 1 **Analysis Date:** 03/05/26 23:36
Prep Date: 03/05/26 11:58

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
<i>Surr: Tetrachloro-m-xylene</i>	0.197	µg/L		0.25		78.9	57-141	1.95	30	

The following samples were analyzed in this batch: HN2602937-001