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FILL MATERIAL SAMPLING REPORT

**13726 SPARLING STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48212**



**NOVEMBER 5, 2025
REVISED DECEMBER 12, 2025**

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



FILL MATERIAL SAMPLING REPORT

**13726 SPARLING STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48212**

PREPARED BY: _____

OLIVIA MITCHELL
ENVIRONMENTAL SCIENTIST

REVIEWED BY: _____

MARK SCHULT, PhD, CPG
SENIOR PROJECT MANAGER

REVIEWED AND
APPROVED BY: _____

RYAN MONTRI, CPG
SENIOR PROJECT MANAGER



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 13726 Sparling 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 13726 Sparling SB01, 13726 Sparling SB02, and 13726 Sparling SB03 generally consisted of three feet of brown gravelly sand underlain by brown sandy clay to six feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores ranged from 0.0 to 8.0 parts per million (ppm). There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris were observed in each soil boring.
- Concentrations of arsenic and chromium (Total) were detected in soil samples 13726 Sparling SB01 (1'-2') and/or 13726 Sparling SB02 (3'-4') in excess of their respective Part 201 groundwater surface water interface protection criteria (GSIPC) and/or drinking water protection criteria (DWPC).
- Concentrations of 1,2,4-trimethylbenzene, 4,4'-DDE, anthracene, barium, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, 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 13726 Sparling SB01 (1'-2'), 13726 Sparling SB02 (3'-4'), and/or 13726 Sparling SB03 (5'-6') at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- PCBs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable.

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

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

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 13726 Sparling 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 7, 2025. The findings of this report are valid as of the report date, subject to the limitations presented in *Appendix A, Limitations*.

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

2.0 PURPOSE AND SCOPE OF WORK

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

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

- Advanced three (3) onsite soil borings to a maximum depth of six feet below ground surface (bgs) utilizing a hand auger 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 October 15, 2025. A daily field activity report prepared by MSG is presented in *Appendix B, Daily Field Report*.

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 13726 Sparling SB01, 13726 Sparling SB02, and 13726 Sparling SB03, using a direct push drill rig at the locations depicted on Figure 2. Photographs collected during completion of this work are provided in *Appendix C, Investigation Photographs*.

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

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

Soil samples were collected in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. The soil samples were placed into appropriate pre-preserved and unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses. Soil samples collected for VOC analysis were placed in laboratory supplied pre-weighed 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 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.

3.4 Analytical Methods

A total of three (3) soil samples designated 13726 Sparling SB01 (1'-2'), 13726 Sparling SB02 (3'-4'), and 13726 Sparling SB03 (5'-6'), 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:

- 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.

3.5 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 October 15 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 13726 Sparling SB01, 13726 Sparling SB02, and 13726 Sparling SB03 generally consisted of three feet of brown gravelly sand underlain by brown sandy clay to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 8.0 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris were observed in each soil boring.

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 13726 Sparling SB01 (1'-2'), 13726 Sparling SB02 (3'-4'), and 13726 Sparling SB03 (5'-6'), were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration ($\mu\text{g}/\text{kg}^1$)	Maximum Detected Concentration ($\mu\text{g}/\text{kg}$)
Asbestos	7440-38-2	13726 Sparling SB01 (1-2) 13726 Sparling SB01 (3-4)	GSIPC ² / 4,600 DWPC ³ / 4,600	7,490
Chromium (Total)	7440-47-3	13726 Sparling SB01 (3-4)	GSIPC / 3,300	19,700

¹ $\mu\text{g}/\text{kg}$ – micrograms per kilogram;

²GSIPC – Groundwater Surface Water Interface Protection Criteria

³DWPC – Drinking Water Protection Criteria

4.3 Exposure Evaluation

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

Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable.

5.0 FINDINGS

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

- The stratigraphy encountered during soil boring advancement of 13726 Sparling SB01, 13726 Sparling SB02, and 13726 Sparling SB03 generally consisted of three feet of brown gravelly sand underlain by brown sandy clay to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 8.0 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris were observed in each soil boring.
- Concentrations of arsenic and chromium (Total) were detected in soil samples 13726 Sparling SB01 (1'-2') and/or 13726 Sparling SB02 (3'-4') in excess of their respective Part 201 GSIPC and/or DWPC.
- Concentrations of 1,2,4-trimethylbenzene, 4,4'-DDE, anthracene, barium, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, 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 13726 Sparling SB01 (1'-2'), 13726 Sparling SB02 (3'-4'), and/or 13726 Sparling SB03 (5'-6') at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- PCBs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable.

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

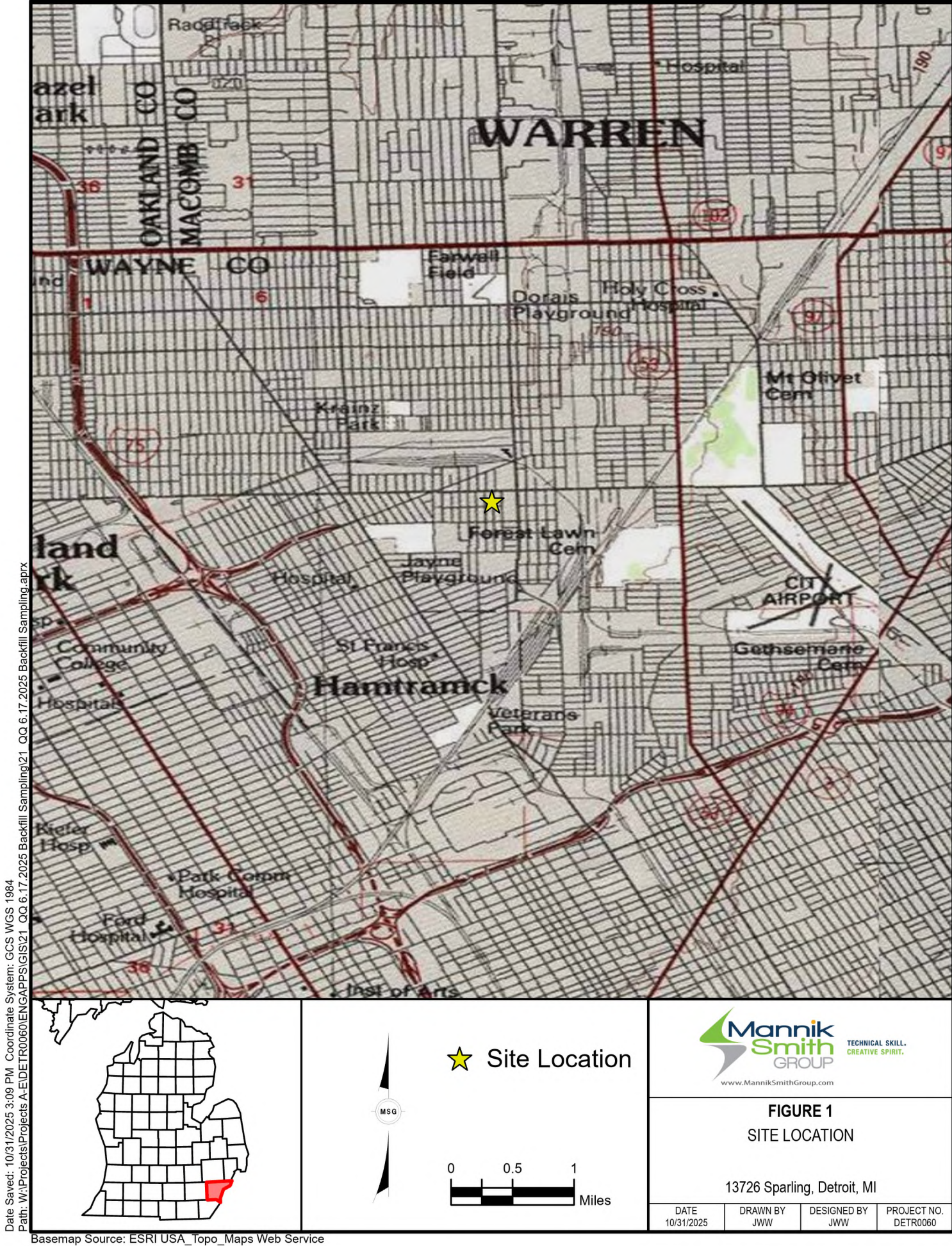
MSG warrants that no substantive information or documentation was deleted, omitted, or changed that would otherwise cause the MSG to reach a different conclusion. Furthermore, MSG understands that the COD and its agencies and

authorities may rely upon the overall completeness, accuracy, and conclusions in this report and hereby provides reliance on the contents presented herein.

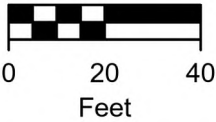
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FIGURES





Date Saved: 10/31/2025 3:09 PM Coordinate System: GCS WGS 1984
Path: W:\Projects\Projects A-E\DETRO060\ENG\APPS\GIS\21_QQ 6.17.2025 Backfill Sampling\21_QQ 6.17.2025 Backfill Sampling.aprx



- Sample Locations
- - - Parcels (Current)
- - - Subject Property

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



FIGURE 2
Site Layout

13726 Sparling, Detroit, MI

DATE 10/31/2025	DRAWN BY JWW	DESIGNED BY KRB	PROJECT NO. DETR0060
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TABLE



Table 1
Soil Sample Analytical Detection Summary
13726 Sparling
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 Units: µg/kg			Inorganic Anions/Ions	Metals							Pesticides/ Herbicides
			Chloride	Arsenic (B)	Barium (B)	Chromium, Total (B)	Copper (B)	Lead (B)	Mercury (B)	Zinc (B)	4,4'-DDE
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	72-55-9
Statewide Default Background Levels			NC	5,800	75,000	18,000	32,000	21,000	130	47,000	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	NLL
Groundwater Surface Water Interface Protection Criteria (GSIPC)			NC	4,600	4.40E+05 ^(G)	3,300	75,000 ^(G)	6.00E+06 ^(G)	50 ^(M;1.2)	1.60E+05	NLL
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NC	NLV	NLV	NLV	NLV	NLV	48,000	NC	NLV
Soil Volatilization to Indoor Air Pathway (SVIAP)			NC	NC	NC	NC	NC	NC	22 ^(M)	NC	39,000
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NC	NLV	NLV	NLV	NLV	NLV	52,000	NC	NLV
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NC	NLV	NLV	NLV	NLV	NLV	52,000	NC	NLV
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NC	NLV	NLV	NC	NLV	NLV	52,000	NC	NLV
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	3.20E+07
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	45,000
Soil Saturation Concentration Screening Levels (Csat)			NC	NA	NA	NA	NA	NA	NA	NC	NA
Sample ID	Sample Depth (ft)	Sample Date									
13726 Sparling SB01	1-2	10/15/2025	90,600	7,120	62,700	14,600	22,100	54,800	46.2	103,000	< 72.8
13726 Sparling SB02	3-4	10/15/2025	66,100	7,490	140,000	19,700	25,800	34,700	49.5	102,000	120
13726 Sparling SB03	5-6	10/15/2025	20,300	5,310	20,900	7,750	14,300	5,790	< 13.6	36,700	< 7.1

Notes
µg/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, GSIPC, 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.
ND= Not Detected above laboratory reporting limits
Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, updated October 12, 2023.

Table 1
Soil Sample Analytical Detection Summary
13726 Sparling
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 Units: µg/kg			Semivolatile Organic Compounds (SVOCs)											Volatile Organic Compounds (VOCs)	Polychlorinated Biphenyls (PCBs)			
			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		
CAS Number			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		
Statewide Default Background Levels			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC		NC		
Drinking Water Protection Criteria (DWPC)			41,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7.30E+05	NLL	56,000	4.80E+05		2,100		
Groundwater Surface Water Interface Protection Criteria (GSIPC)			ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	NLL	2,100	ID		570		
Soil Volatilization to Indoor Air Inhalation (SVIIC)			1.00E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	1.00E+09	NLV	2.80E+06	1.00E+09		4.30E+06		
Soil Volatilization to Indoor Air Pathway (SVIAP)			1.30E+07	1.60E+05 ^(M)	NC	NC	NC	NC	NC	NC	NC	NC	1,700	2.50E+07		150		
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	7.40E+08	NLV	1.60E+05	6.50E+08		2.10E+07		
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	7.40E+08	NLV	1.60E+05	6.50E+08		5.00E+08		
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	7.40E+08	NLV	1.60E+05	6.50E+08		5.00E+08		
Particulate Soil Inhalation Criteria (PSIC)			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		
Direct Contact Criteria (DCC)			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		
Soil Saturation Concentration Screening Levels (Csat)			NA	NA	NA	NA	NA	NA	1.00E+07	NA	NA	NA	NA	NA	1.10E+05			
Sample ID		Sample Depth (ft)	Sample Date															
13726 Sparling SB01		1-2	10/15/2025		87.2	349	392	545	349	196	371	312	683	392	327	639	< 26.7	ND
13726 Sparling SB02		3-4	10/15/2025		< 105	312	357	446	312	178	< 615	208	491	372	149	505	41.2	ND
13726 Sparling SB03		5-6	10/15/2025		< 5.12	< 6.28	7.99	7.26	< 5.57	< 5.5	< 30	< 5.87	7.99	9.44	< 3.38	< 3.62	< 26.5	ND

Notes
µg/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, GSIPC, 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.
ND= Not Detected above laboratory reporting limits
Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, updated October 12, 2023.

APPENDIX A

LIMITATIONS



LIMITATIONS

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

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

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

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

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

APPENDIX B
DAILY FIELD REPORT



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

Date: 10/15/2025	Day: Wednesday	Temp: 50° F	(AM) N/A	(PM)
MSG Personnel: SRK, JF		Cloud Cover: 100%	(AM) N/A	(PM)
		Precip.: N/A	(AM) N/A	(PM)
Personnel: MSG				
MSG Hours On-Site: ~ 2 hours				
Contractors Information				
Contractor: MSG		No. Men and Type: 2; Operator/Geologist		Equipment Type: Geoprobe 7822DT
Summary of Work Performed:				
- Advanced three (3) onsite soil borings to a maximum depth of 6 feet below ground surface (bgs) - Collected soil samples from each soil boring (from the interval with the greatest potential to be impacted based on field indicators).				
Field Notes:				
0830 – SRK onsite (13726 Sparling Street) 0832 – Located site and marked boring locations 0840 – Prepared equipment 0850 – JF on site 0852 – Safety meeting. Unloaded equipment. 0906 – Began drilling SB01 0908 – Finished drilling SB01 0910 – Began drilling SB02 0912 – Finished drilling SB02 0914 – Began drilling SB03 0916 – Finished drilling SB03 0917 – Sampled 13726 SB01 (1-2') 0938 – Sampled 13726 SB02 (3-4') 0955 – Sampled 13726 SB03 (5-6') 1005 – Sampled 13726 Sparling SB-1,2,3 (0-6') COMP 1010 – Collected GPS points 1012 – Packed up equipment 1018 – MSG off site				

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

APPENDIX C

INVESTIGATION PHOTOGRAPHS





Photo 1: Viewing Site Pre-Drilling, Facing East.



Photo 2: Viewing 13726 SB01 Drilling, Facing East.



Photo 3: Viewing 13726 SB01 Soils, Facing East.



Photo 4: Viewing 13726 SB02 Drilling, Facing East.



Photo 5: Viewing 13726 SB03 Drilling, Facing East.



Photo 6: Viewing 13726 SB03 Soils, Facing East.



Photo 7: Viewing Site Post-Drilling, Facing East.

APPENDIX D

SOIL BORING LOGS



APPENDIX E
LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

October 29, 2025

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

Re: **DETR0060**

Date Received: **10/16/2025**

Work Order: **HN2515414**

Dear Ryan,

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

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

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

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

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

Dale Schipper

/S/ DALE SCHIPPER

Project Manager



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

Work Order: HN2515414
Date Received: 16-Oct-2025

CASE NARRATIVE

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

Sample Receipt

3 soil/solid samples were received for analysis at ALS Environmental on 16-Oct-2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals

EPA 6010D-3050B-S

Run ID: 3621340

MS/MSD recoveries were outside of control limits; however, the corresponding result in the parent sample was greater than 4x the amount of the spike. No qualification is necessary for the analyte(s): Barium, Lead, Zinc

MS/MSD recoveries were below the lower control limit. Corresponding results in the parent sample may be biased low for the analyte(s): Arsenic

MS/MSD recoveries exceeded the upper control limit. Corresponding results in the parent sample may be biased high for the analyte(s): Chromium, Copper

The RPD between matrix spike duplicates exceeded the control maximum. Corresponding results should be considered estimated: Multiple analytes, see QA/QC Report

Organics

EPA 8270E-FULL HN-3546-S

Run ID: 3612730

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

The recovery of Atrazine in the LCS exceeds the calculable calibration range.

MS/MSD recoveries were below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Hexachlorocyclopentadiene

HN2515414-001: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

HN2515414-002: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

EPA 8151A-S

Run ID: 3623707

Surrogate high due to matrix interference: DCAA

EPA 8081B-3546-S (High)

Run ID: 3613228

HN2515414-001: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

HN2515414-002: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Run ID: 3605782

HN2515414-001: One or more surrogate recoveries were below the lower control limits. The sample results may be biased low.

HN2515414-001: The reporting limit is elevated due to dilution for high concentrations of non-target analytes: See Analytical Report

HN2515414-001: The Continuing Calibration Verification did not meet method acceptance criteria for the surrogates; surrogate recoveries should be considered estimated.

HN2515414-001: The Continuing Calibration Verification did not meet acceptance criteria with high bias; however, the sample results were non-detect for all affected analytes.

HN2515414-002: One or more surrogate recoveries were below the lower control limits. The sample results may be biased low.

EPA 8082A-3546-S (High)

Run ID: 3629414

HN2515414-002: One or more surrogate recoveries were below the lower control limits. The sample results may be biased low.

SAMPLE DETECTION SUMMARY

This form includes only detections above the limits as presented.

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



CLIENT ID: 13726 SB01 (1-2)	Lab ID: HN2515414-001
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Analyte	Results	Flag	MRL	Units	Method
Anthracene	87.2		72.7	µg/kg	EPA 8270E
Arsenic	7.12	S	0.331	mg/kg	EPA 6010D
Barium	62.7		0.661	mg/kg	EPA 6010D
Benzo(a)anthracene	349		72.7	µg/kg	EPA 8270E
Benzo(a)pyrene	392		72.7	µg/kg	EPA 8270E
Benzo(b)fluoranthene	545		72.7	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	349		72.7	µg/kg	EPA 8270E
Benzo(k)fluoranthene	196		72.7	µg/kg	EPA 8270E
Chloride	90.6		11.1	mg/kg	EPA 9056A
Chromium	14.6	S	0.331	mg/kg	EPA 6010D
Chrysene	312		72.7	µg/kg	EPA 8270E
Copper	22.1	S	0.661	mg/kg	EPA 6010D
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	371		360	µg/kg	EPA 8270E
Fluoranthene	683		72.7	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	392		72.7	µg/kg	EPA 8270E
Lead	54.8		0.331	mg/kg	EPA 6010D
Mercury	0.0462		0.0200	mg/kg	EPA 7471B
Percent Moisture	10.0		0.1	%	EPA 3550C
Phenanthrene	327		72.7	µg/kg	EPA 8270E
Pyrene	639		72.7	µg/kg	EPA 8270E
Zinc	103		0.661	mg/kg	EPA 6010D

CLIENT ID: 13726 SB02 (3-4)	Lab ID: HN2515414-002
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Analyte	Results	Flag	MRL	Units	Method
1,2,4-Trimethylbenzene	41.2		38.6	µg/kg	EPA 8260D
4,4'-DDE	120		111	µg/kg	EPA 8081B
Arsenic	7.49		0.326	mg/kg	EPA 6010D
Barium	140		0.653	mg/kg	EPA 6010D
Benzo(a)anthracene	312		149	µg/kg	EPA 8270E
Benzo(a)pyrene	357		149	µg/kg	EPA 8270E
Benzo(b)fluoranthene	446		149	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	312		149	µg/kg	EPA 8270E
Benzo(k)fluoranthene	178		149	µg/kg	EPA 8270E
Chloride	66.1		11.2	mg/kg	EPA 9056A
Chromium	19.7		0.326	mg/kg	EPA 6010D
Chrysene	208		149	µg/kg	EPA 8270E
Copper	25.8		0.653	mg/kg	EPA 6010D
Fluoranthene	491		149	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	372		149	µg/kg	EPA 8270E
Lead	34.7		0.326	mg/kg	EPA 6010D

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: 13726 SB02 (3-4)	Lab ID: HN2515414-002
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Analyte	Results	Flag	MRL	Units	Method
Mercury	0.0495		0.0200	mg/kg	EPA 7471B
Percent Moisture	10.6		0.1	%	EPA 3550C
Phenanthrene	149		149	µg/kg	EPA 8270E
Pyrene	505		149	µg/kg	EPA 8270E
Zinc	102		0.653	mg/kg	EPA 6010D

CLIENT ID: 13726 SB03 (5-6)	Lab ID: HN2515414-003
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Analyte	Results	Flag	MRL	Units	Method
Arsenic	5.31		0.312	mg/kg	EPA 6010D
Barium	20.9		0.623	mg/kg	EPA 6010D
Benzo(a)pyrene	7.99		7.26	µg/kg	EPA 8270E
Benzo(b)fluoranthene	7.26		7.26	µg/kg	EPA 8270E
Chloride	20.3		10.9	mg/kg	EPA 9056A
Chromium	7.75		0.312	mg/kg	EPA 6010D
Copper	14.3		0.623	mg/kg	EPA 6010D
Fluoranthene	7.99		7.26	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	9.44		7.26	µg/kg	EPA 8270E
Lead	5.79		0.312	mg/kg	EPA 6010D
Percent Moisture	8.6		0.1	%	EPA 3550C
Zinc	36.7		0.623	mg/kg	EPA 6010D

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Workorder: HN2515414

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2515414-001	13726 SB01 (1-2)	SOIL/SOLID	10/15/25 09:17	10/16/25 08:00
HN2515414-002	13726 SB02 (3-4)	SOIL/SOLID	10/15/25 09:38	10/16/25 08:00
HN2515414-003	13726 SB03 (5-6)	SOIL/SOLID	10/15/25 09:55	10/16/25 08:00

REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

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

¹ - Scope available upon request

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:17
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB01 (1-2) **Lab ID: HN2515414-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<2.08	U	µg/kg	11.3	1	10/24/25 15:28	10/23/25 07:55
2,4,5-TP (Silvex)	EPA 8151A	<3.71	U	µg/kg	11.3	1	10/24/25 15:28	10/23/25 07:55
2,4-D	EPA 8151A	<6.03	U	µg/kg	22.6	1	10/24/25 15:28	10/23/25 07:55
Surr: DCAA	EPA 8151A	312	S	%REC	10-116	1	10/24/25 15:28	10/23/25 07:55
General Chemistry Parameters								
Percent Moisture	EPA 3550C	10.0		%	0.1	1	10/16/25 10:38	NA
Chloride	EPA 9056A	90.6		mg/kg	11.1	1	10/20/25 22:45	10/20/25 15:35
Metals								
Arsenic	EPA 6010D	7.12	S	mg/kg	0.331	1	10/24/25 11:43	10/23/25 10:32
Barium	EPA 6010D	62.7		mg/kg	0.661	1	10/24/25 11:43	10/23/25 10:32
Cadmium	EPA 6010D	<0.0542	U	mg/kg	0.661	1	10/24/25 11:43	10/23/25 10:32
Chromium	EPA 6010D	14.6	S	mg/kg	0.331	1	10/24/25 11:43	10/23/25 10:32
Copper	EPA 6010D	22.1	S	mg/kg	0.661	1	10/24/25 11:43	10/23/25 10:32
Lead	EPA 6010D	54.8		mg/kg	0.331	1	10/24/25 11:43	10/23/25 10:32
Selenium	EPA 6010D	<0.185	SU	mg/kg	0.661	1	10/24/25 11:43	10/23/25 10:32
Silver	EPA 6010D	<0.159	U	mg/kg	0.331	1	10/24/25 11:43	10/23/25 10:32
Zinc	EPA 6010D	103		mg/kg	0.661	1	10/24/25 11:43	10/23/25 10:32
Mercury	EPA 7471B	0.0462		mg/kg	0.0200	1	10/23/25 11:22	10/23/25 09:31
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<70.6	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
4,4'-DDE	EPA 8081B	<72.8	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
4,4'-DDT	EPA 8081B	<73.5	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
Aldrin	EPA 8081B	<71.8	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
alpha-BHC	EPA 8081B	<72.7	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
beta-BHC	EPA 8081B	<72.6	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
Chlordane, Technical	EPA 8081B	<110	U	µg/kg	276	10	10/21/25 16:59	10/17/25 11:50
cis-Chlordane	EPA 8081B	<73.8	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
delta-BHC	EPA 8081B	<72.4	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
Dieldrin	EPA 8081B	<77.3	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:17
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB01 (1-2)	Lab ID: HN2515414-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<74.3	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
Endosulfan II	EPA 8081B	<73.2	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
Endosulfan sulfate	EPA 8081B	<68.0	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
Endrin	EPA 8081B	<89.4	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
Endrin aldehyde	EPA 8081B	<70.0	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
Endrin ketone	EPA 8081B	<67.2	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
gamma-BHC (Lindane)	EPA 8081B	<72.5	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
Heptachlor	EPA 8081B	<71.3	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
Heptachlor epoxide	EPA 8081B	<73.1	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
Methoxychlor	EPA 8081B	<73.9	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
Toxaphene	EPA 8081B	<119	U	µg/kg	663	10	10/21/25 16:59	10/17/25 11:50
trans-Chlordane	EPA 8081B	<73.4	U	µg/kg	111	10	10/21/25 16:59	10/17/25 11:50
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	106		%REC	53-151	10	10/21/25 16:59	10/17/25 11:50
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	69.0		%REC	67-127	10	10/21/25 16:59	10/17/25 11:50

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<58.9	U	µg/kg	172	1	10/21/25 00:50	10/20/25 10:28
Aroclor 1221	EPA 8082A	<58.9	U	µg/kg	172	1	10/21/25 00:50	10/20/25 10:28
Aroclor 1232	EPA 8082A	<58.9	U	µg/kg	172	1	10/21/25 00:50	10/20/25 10:28
Aroclor 1242	EPA 8082A	<58.9	U	µg/kg	172	1	10/21/25 00:50	10/20/25 10:28
Aroclor 1248	EPA 8082A	<58.9	U	µg/kg	172	1	10/21/25 00:50	10/20/25 10:28
Aroclor 1254	EPA 8082A	<48.0	U	µg/kg	172	1	10/21/25 00:50	10/20/25 10:28
Aroclor 1260	EPA 8082A	<48.0	U	µg/kg	172	1	10/21/25 00:50	10/20/25 10:28
Aroclor 1262	EPA 8082A	<48.0	U	µg/kg	172	1	10/21/25 00:50	10/20/25 10:28
Aroclor 1268	EPA 8082A	<48.0	U	µg/kg	172	1	10/21/25 00:50	10/20/25 10:28
Total PCB	EPA 8082A	<48.0	U	µg/kg	172	1	10/21/25 00:50	10/20/25 10:28
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	118		%REC	54-146	1	10/21/25 00:50	10/20/25 10:28
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	89.1		%REC	58-140	1	10/21/25 00:50	10/20/25 10:28

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<59.0	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<83.8	U	µg/kg	3630	10	10/21/25 17:09	10/16/25 12:13

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:17
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB01 (1-2)	Lab ID: HN2515414-001
------------------------------------	------------------------------

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<260	U	µg/kg	1820	10	10/21/25 17:09	10/16/25 12:13
1-Methylnaphthalene	EPA 8270E	<52.3	U	µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	<85.1	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
2,3,4,6-Tetrachlorophenol	EPA 8270E	<266	U	µg/kg	727	10	10/21/25 17:09	10/16/25 12:13
2,4,5-Trichlorophenol	EPA 8270E	<215	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
2,4,6-Trichlorophenol	EPA 8270E	<96.7	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
2,4-Dichlorophenol	EPA 8270E	<196	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
2,4-Dimethylphenol	EPA 8270E	<187	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
2,4-Dinitrophenol	EPA 8270E	<2660	U	µg/kg	3630	10	10/21/25 17:09	10/16/25 12:13
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<236	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<92.7	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
2-Chloronaphthalene	EPA 8270E	<50.8	U	µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
2-Chlorophenol	EPA 8270E	<238	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<303	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
2-Methylphenol (o-Cresol)	EPA 8270E	<98.2	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
2-Nitroaniline	EPA 8270E	<202	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
2-Nitrophenol	EPA 8270E	<104	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
3&4-Methylphenol	EPA 8270E	<198	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
3,3'-Dichlorobenzidine	EPA 8270E	<170	U	µg/kg	1820	10	10/21/25 17:09	10/16/25 12:13
3-Nitroaniline	EPA 8270E	<211	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<199	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
4-Chloro-3-methylphenol	EPA 8270E	<104	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
4-Chloroaniline	EPA 8270E	<185	U	µg/kg	727	10	10/21/25 17:09	10/16/25 12:13
4-Chlorophenyl phenylether	EPA 8270E	<100	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
4-Nitroaniline	EPA 8270E	<563	U	µg/kg	1820	10	10/21/25 17:09	10/16/25 12:13
4-Nitrophenol	EPA 8270E	<851	U	µg/kg	3630	10	10/21/25 17:09	10/16/25 12:13
Acenaphthene	EPA 8270E	<52.5	U	µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:17
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB01 (1-2)	Lab ID: HN2515414-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<63.0	U	µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
Acetophenone	EPA 8270E	<56.9	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Anthracene	EPA 8270E	87.2		µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
Atrazine	EPA 8270E	<213	SU	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Benzaldehyde	EPA 8270E	<558	U	µg/kg	727	10	10/21/25 17:09	10/16/25 12:13
Benzo(a)anthracene	EPA 8270E	349		µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
Benzo(a)pyrene	EPA 8270E	392		µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
Benzo(b)fluoranthene	EPA 8270E	545		µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
Benzo(g,h,i)perylene	EPA 8270E	349		µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
Benzo(k)fluoranthene	EPA 8270E	196		µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
bis(2-Chloroethoxy) methane	EPA 8270E	<230	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
bis(2-Chloroethyl) ether	EPA 8270E	<103	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Butyl benzyl phthalate	EPA 8270E	<455	U	µg/kg	727	10	10/21/25 17:09	10/16/25 12:13
Caprolactam	EPA 8270E	<328	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Carbazole	EPA 8270E	<107	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Chrysene	EPA 8270E	312		µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	371		µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Dibenz(a,h) anthracene	EPA 8270E	<39.2	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Dibenzofuran	EPA 8270E	<53.4	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Diethyl phthalate	EPA 8270E	<124	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Dimethyl phthalate	EPA 8270E	<70.8	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Fluoranthene	EPA 8270E	683		µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
Fluorene	EPA 8270E	<52.8	U	µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
Hexachlorobenzene	EPA 8270E	<106	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Hexachlorobutadiene	EPA 8270E	<85.6	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Hexachlorocyclopentadiene	EPA 8270E	<344	SU	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Hexachloroethane	EPA 8270E	<150	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Indeno(1,2,3-cd) pyrene	EPA 8270E	392		µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
Isophorone	EPA 8270E	<71.0	U	µg/kg	1820	10	10/21/25 17:09	10/16/25 12:13
Methylphenol, Total	EPA 8270E	<98.2	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:17
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB01 (1-2)	Lab ID: HN2515414-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<46.4	U	µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
Nitrobenzene	EPA 8270E	<122	U	µg/kg	1820	10	10/21/25 17:09	10/16/25 12:13
n-Nitrosodi-n-propylamine	EPA 8270E	<59.9	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
N-Nitrosodiphenylamine	EPA 8270E	<210	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Pentachlorophenol	EPA 8270E	<289	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Phenanthrene	EPA 8270E	327		µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
Phenol	EPA 8270E	<182	U	µg/kg	360	10	10/21/25 17:09	10/16/25 12:13
Pyrene	EPA 8270E	639		µg/kg	72.7	10	10/21/25 17:09	10/16/25 12:13
Pyridine	EPA 8270E	<715	U	µg/kg	1820	10	10/21/25 17:09	10/16/25 12:13

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<16.5	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
1,1,2,2-Tetrachloroethane	EPA 8260D	<16.1	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<23.1	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
1,1,2-Trichloroethane	EPA 8260D	<15.5	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
1,1-Dichloroethane	EPA 8260D	<13.3	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
1,1-Dichloroethylene	EPA 8260D	<11.8	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
1,2,3-Trichlorobenzene	EPA 8260D	<43.8	U	µg/kg	122	1	10/23/25 04:48	10/16/25 12:58
1,2,3-Trichloropropane	EPA 8260D	<15.3	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
1,2,4-Trichlorobenzene	EPA 8260D	<41.3	U	µg/kg	122	1	10/23/25 04:48	10/16/25 12:58
1,2,4-Trimethylbenzene	EPA 8260D	<26.7	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<33.6	U	µg/kg	122	1	10/23/25 04:48	10/16/25 12:58
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<21.4	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<13.8	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<21.4	U	µg/kg	122	1	10/23/25 04:48	10/16/25 12:58
1,2-Dichloropropane	EPA 8260D	<26.9	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
1,3,5-Trimethylbenzene	EPA 8260D	<25.8	U	µg/kg	122	1	10/23/25 04:48	10/16/25 12:58
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	<25.2	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
1,3-Dichloropropane	EPA 8260D	<21.9	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	<29.6	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:17
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB01 (1-2)	Lab ID: HN2515414-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<86.8	U	µg/kg	243	1	10/23/25 04:48	10/16/25 12:58
2-Hexanone	EPA 8260D	<18.1	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<34.0	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Acetone	EPA 8260D	<108	U	µg/kg	122	1	10/23/25 04:48	10/16/25 12:58
Benzene	EPA 8260D	<17.7	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Bromochloromethane	EPA 8260D	<18.5	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Bromodichloromethane	EPA 8260D	<20.4	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Bromoform	EPA 8260D	<15.4	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Carbon disulfide	EPA 8260D	<18.9	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Carbon tetrachloride	EPA 8260D	<14.3	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Chlorobenzene	EPA 8260D	<12.1	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Chlorodibromomethane	EPA 8260D	<20.5	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Chloroethane (Ethyl chloride)	EPA 8260D	<102	U	µg/kg	122	1	10/23/25 04:48	10/16/25 12:58
Chloroform	EPA 8260D	<13.4	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
cis-1,2-Dichloroethylene	EPA 8260D	<23.4	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
cis-1,3-Dichloropropene	EPA 8260D	<27.5	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Cyclohexane	EPA 8260D	<27.9	U	µg/kg	122	1	10/23/25 04:48	10/16/25 12:58
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<44.1	U	µg/kg	122	1	10/23/25 04:48	10/16/25 12:58
Ethylbenzene	EPA 8260D	<25.9	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Isopropylbenzene	EPA 8260D	<23.0	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
m+p-Xylene	EPA 8260D	<48.6	U	µg/kg	72.9	1	10/23/25 04:48	10/16/25 12:58
Methyl bromide (Bromomethane)	EPA 8260D	<69.7	U	µg/kg	122	1	10/23/25 04:48	10/16/25 12:58
Methyl chloride (Chloromethane)	EPA 8260D	<99.7	U	µg/kg	122	1	10/23/25 04:48	10/16/25 12:58
Methyl tert-butyl ether (MTBE)	EPA 8260D	<26.6	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Methylcyclohexane	EPA 8260D	<13.9	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Methylene chloride (Dichloromethane)	EPA 8260D	<96.8	U	µg/kg	304	1	10/23/25 04:48	10/16/25 12:58
o-Xylene	EPA 8260D	<14.1	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Styrene	EPA 8260D	<14.5	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:17
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB01 (1-2) **Lab ID: HN2515414-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<22.0	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Toluene	EPA 8260D	<30.1	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Total Xylene	EPA 8260D	<14.1	U	µg/kg	109	1	10/23/25 04:48	10/16/25 12:58
trans-1,2-Dichloroethylene	EPA 8260D	<30.1	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
trans-1,3-Dichloropropylene	EPA 8260D	<20.4	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Trichloroethene (Trichloroethylene)	EPA 8260D	<16.3	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<18.6	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58
Vinyl chloride (Chloroethene)	EPA 8260D	<24.2	U	µg/kg	36.5	1	10/23/25 04:48	10/16/25 12:58

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:38
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB02 (3-4) **Lab ID: HN2515414-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<2.17	U	µg/kg	11.8	1	10/25/25 09:05	10/23/25 07:55
2,4,5-TP (Silvex)	EPA 8151A	<3.87	U	µg/kg	11.8	1	10/25/25 09:05	10/23/25 07:55
2,4-D	EPA 8151A	<6.30	U	µg/kg	23.6	1	10/25/25 09:05	10/23/25 07:55
Surr: DCAA	EPA 8151A	140	S	%REC	10-116	1	10/25/25 09:05	10/23/25 07:55
General Chemistry Parameters								
Percent Moisture	EPA 3550C	10.6		%	0.1	1	10/16/25 10:38	NA
Chloride	EPA 9056A	66.1		mg/kg	11.2	1	10/20/25 22:55	10/20/25 15:35
Metals								
Arsenic	EPA 6010D	7.49		mg/kg	0.326	1	10/24/25 12:11	10/23/25 10:32
Barium	EPA 6010D	140		mg/kg	0.653	1	10/24/25 12:11	10/23/25 10:32
Cadmium	EPA 6010D	<0.0535	U	mg/kg	0.653	1	10/24/25 12:11	10/23/25 10:32
Chromium	EPA 6010D	19.7		mg/kg	0.326	1	10/24/25 12:11	10/23/25 10:32
Copper	EPA 6010D	25.8		mg/kg	0.653	1	10/24/25 12:11	10/23/25 10:32
Lead	EPA 6010D	34.7		mg/kg	0.326	1	10/24/25 12:11	10/23/25 10:32
Selenium	EPA 6010D	<0.183	U	mg/kg	0.653	1	10/24/25 12:11	10/23/25 10:32
Silver	EPA 6010D	<0.157	U	mg/kg	0.326	1	10/24/25 12:11	10/23/25 10:32
Zinc	EPA 6010D	102		mg/kg	0.653	1	10/24/25 12:11	10/23/25 10:32
Mercury	EPA 7471B	0.0495		mg/kg	0.0200	1	10/23/25 11:27	10/23/25 09:31
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<71.1	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
4,4'-DDE	EPA 8081B	120		µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
4,4'-DDT	EPA 8081B	<74.0	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
Aldrin	EPA 8081B	<72.3	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
alpha-BHC	EPA 8081B	<73.3	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
beta-BHC	EPA 8081B	<73.1	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
Chlordane, Technical	EPA 8081B	<110	U	µg/kg	278	10	10/21/25 17:10	10/17/25 11:50
cis-Chlordane	EPA 8081B	<74.4	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
delta-BHC	EPA 8081B	<72.9	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
Dieldrin	EPA 8081B	<77.8	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:38
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB02 (3-4)	Lab ID: HN2515414-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<74.8	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
Endosulfan II	EPA 8081B	<73.7	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
Endosulfan sulfate	EPA 8081B	<68.5	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
Endrin	EPA 8081B	<90.1	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
Endrin aldehyde	EPA 8081B	<70.5	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
Endrin ketone	EPA 8081B	<67.7	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
gamma-BHC (Lindane)	EPA 8081B	<73.0	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
Heptachlor	EPA 8081B	<71.8	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
Heptachlor epoxide	EPA 8081B	<73.6	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
Methoxychlor	EPA 8081B	<74.4	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
Toxaphene	EPA 8081B	<120	U	µg/kg	668	10	10/21/25 17:10	10/17/25 11:50
trans-Chlordane	EPA 8081B	<73.9	U	µg/kg	111	10	10/21/25 17:10	10/17/25 11:50
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	117		%REC	53-151	10	10/21/25 17:10	10/17/25 11:50
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	71.5		%REC	67-127	10	10/21/25 17:10	10/17/25 11:50

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<61.6	U	µg/kg	180	1	10/25/25 01:43	10/24/25 12:20
Aroclor 1221	EPA 8082A	<61.6	U	µg/kg	180	1	10/25/25 01:43	10/24/25 12:20
Aroclor 1232	EPA 8082A	<61.6	U	µg/kg	180	1	10/25/25 01:43	10/24/25 12:20
Aroclor 1242	EPA 8082A	<61.6	U	µg/kg	180	1	10/25/25 01:43	10/24/25 12:20
Aroclor 1248	EPA 8082A	<61.6	U	µg/kg	180	1	10/25/25 01:43	10/24/25 12:20
Aroclor 1254	EPA 8082A	<50.2	U	µg/kg	180	1	10/25/25 01:43	10/24/25 12:20
Aroclor 1260	EPA 8082A	<50.2	U	µg/kg	180	1	10/25/25 01:43	10/24/25 12:20
Aroclor 1262	EPA 8082A	<50.2	U	µg/kg	180	1	10/25/25 01:43	10/24/25 12:20
Aroclor 1268	EPA 8082A	<50.2	U	µg/kg	180	1	10/25/25 01:43	10/24/25 12:20
Total PCB	EPA 8082A	<50.2	U	µg/kg	180	1	10/25/25 01:43	10/24/25 12:20
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	64.8		%REC	54-146	1	10/25/25 01:43	10/24/25 12:20
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	54.3	S	%REC	58-140	1	10/25/25 01:43	10/24/25 12:20

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<121	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<171	U	µg/kg	7430	20	10/21/25 22:25	10/16/25 12:13

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:38
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB02 (3-4)	Lab ID: HN2515414-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<533	U	µg/kg	3720	20	10/21/25 22:25	10/16/25 12:13
1-Methylnaphthalene	EPA 8270E	<107	U	µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	<174	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
2,3,4,6-Tetrachlorophenol	EPA 8270E	<544	U	µg/kg	1490	20	10/21/25 22:25	10/16/25 12:13
2,4,5-Trichlorophenol	EPA 8270E	<440	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
2,4,6-Trichlorophenol	EPA 8270E	<198	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
2,4-Dichlorophenol	EPA 8270E	<400	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
2,4-Dimethylphenol	EPA 8270E	<382	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
2,4-Dinitrophenol	EPA 8270E	<5430	U	µg/kg	7430	20	10/21/25 22:25	10/16/25 12:13
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<483	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<190	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
2-Chloronaphthalene	EPA 8270E	<104	U	µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
2-Chlorophenol	EPA 8270E	<486	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<621	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
2-Methylphenol (o-Cresol)	EPA 8270E	<201	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
2-Nitroaniline	EPA 8270E	<413	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
2-Nitrophenol	EPA 8270E	<212	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
3&4-Methylphenol	EPA 8270E	<405	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
3,3'-Dichlorobenzidine	EPA 8270E	<347	U	µg/kg	3720	20	10/21/25 22:25	10/16/25 12:13
3-Nitroaniline	EPA 8270E	<431	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<407	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
4-Chloro-3-methylphenol	EPA 8270E	<212	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
4-Chloroaniline	EPA 8270E	<378	U	µg/kg	1490	20	10/21/25 22:25	10/16/25 12:13
4-Chlorophenyl phenylether	EPA 8270E	<205	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
4-Nitroaniline	EPA 8270E	<1150	U	µg/kg	3720	20	10/21/25 22:25	10/16/25 12:13
4-Nitrophenol	EPA 8270E	<1740	U	µg/kg	7430	20	10/21/25 22:25	10/16/25 12:13
Acenaphthene	EPA 8270E	<107	U	µg/kg	149	20	10/21/25 22:25	10/16/25 12:13

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:38
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB02 (3-4)	Lab ID: HN2515414-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<129	U	µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
Acetophenone	EPA 8270E	<116	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Anthracene	EPA 8270E	<105	U	µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
Atrazine	EPA 8270E	<435	SU	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Benzaldehyde	EPA 8270E	<1140	U	µg/kg	1490	20	10/21/25 22:25	10/16/25 12:13
Benzo(a)anthracene	EPA 8270E	312		µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
Benzo(a)pyrene	EPA 8270E	357		µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
Benzo(b)fluoranthene	EPA 8270E	446		µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
Benzo(g,h,i)perylene	EPA 8270E	312		µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
Benzo(k)fluoranthene	EPA 8270E	178		µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
bis(2-Chloroethoxy) methane	EPA 8270E	<471	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
bis(2-Chloroethyl) ether	EPA 8270E	<210	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Butyl benzyl phthalate	EPA 8270E	<931	U	µg/kg	1490	20	10/21/25 22:25	10/16/25 12:13
Caprolactam	EPA 8270E	<671	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Carbazole	EPA 8270E	<219	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Chrysene	EPA 8270E	208		µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	<615	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Dibenz(a,h) anthracene	EPA 8270E	<80.3	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Dibenzofuran	EPA 8270E	<109	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Diethyl phthalate	EPA 8270E	<253	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Dimethyl phthalate	EPA 8270E	<145	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Fluoranthene	EPA 8270E	491		µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
Fluorene	EPA 8270E	<108	U	µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
Hexachlorobenzene	EPA 8270E	<216	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Hexachlorobutadiene	EPA 8270E	<175	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Hexachlorocyclopentadiene	EPA 8270E	<705	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Hexachloroethane	EPA 8270E	<308	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Indeno(1,2,3-cd) pyrene	EPA 8270E	372		µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
Isophorone	EPA 8270E	<145	U	µg/kg	3720	20	10/21/25 22:25	10/16/25 12:13
Methylphenol, Total	EPA 8270E	<201	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:38
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB02 (3-4)	Lab ID: HN2515414-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<95.0	U	µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
Nitrobenzene	EPA 8270E	<250	U	µg/kg	3720	20	10/21/25 22:25	10/16/25 12:13
n-Nitrosodi-n-propylamine	EPA 8270E	<123	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
N-Nitrosodiphenylamine	EPA 8270E	<430	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Pentachlorophenol	EPA 8270E	<590	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Phenanthrene	EPA 8270E	149		µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
Phenol	EPA 8270E	<373	U	µg/kg	736	20	10/21/25 22:25	10/16/25 12:13
Pyrene	EPA 8270E	505		µg/kg	149	20	10/21/25 22:25	10/16/25 12:13
Pyridine	EPA 8270E	<1460	U	µg/kg	3720	20	10/21/25 22:25	10/16/25 12:13

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<17.5	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
1,1,2,2-Tetrachloroethane	EPA 8260D	<17.0	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<24.4	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
1,1,2-Trichloroethane	EPA 8260D	<16.4	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
1,1-Dichloroethane	EPA 8260D	<14.1	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
1,1-Dichloroethylene	EPA 8260D	<12.5	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
1,2,3-Trichlorobenzene	EPA 8260D	<46.3	U	µg/kg	129	1	10/23/25 05:04	10/16/25 12:58
1,2,3-Trichloropropane	EPA 8260D	<16.2	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
1,2,4-Trichlorobenzene	EPA 8260D	<43.7	U	µg/kg	129	1	10/23/25 05:04	10/16/25 12:58
1,2,4-Trimethylbenzene	EPA 8260D	41.2		µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<35.5	U	µg/kg	129	1	10/23/25 05:04	10/16/25 12:58
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<22.7	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<14.6	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<22.7	U	µg/kg	129	1	10/23/25 05:04	10/16/25 12:58
1,2-Dichloropropane	EPA 8260D	<28.4	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
1,3,5-Trimethylbenzene	EPA 8260D	<27.3	U	µg/kg	129	1	10/23/25 05:04	10/16/25 12:58
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	<26.7	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
1,3-Dichloropropane	EPA 8260D	<23.1	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	<31.4	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:38
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB02 (3-4)	Lab ID: HN2515414-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<91.9	U	µg/kg	257	1	10/23/25 05:04	10/16/25 12:58
2-Hexanone	EPA 8260D	<19.1	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<36.0	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Acetone	EPA 8260D	<115	U	µg/kg	129	1	10/23/25 05:04	10/16/25 12:58
Benzene	EPA 8260D	<18.7	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Bromochloromethane	EPA 8260D	<19.6	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Bromodichloromethane	EPA 8260D	<21.6	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Bromoform	EPA 8260D	<16.2	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Carbon disulfide	EPA 8260D	<20.0	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Carbon tetrachloride	EPA 8260D	<15.1	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Chlorobenzene	EPA 8260D	<12.8	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Chlorodibromomethane	EPA 8260D	<21.7	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Chloroethane (Ethyl chloride)	EPA 8260D	<108	U	µg/kg	129	1	10/23/25 05:04	10/16/25 12:58
Chloroform	EPA 8260D	<14.1	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
cis-1,2-Dichloroethylene	EPA 8260D	<24.8	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
cis-1,3-Dichloropropene	EPA 8260D	<29.1	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Cyclohexane	EPA 8260D	<29.5	U	µg/kg	129	1	10/23/25 05:04	10/16/25 12:58
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<46.7	U	µg/kg	129	1	10/23/25 05:04	10/16/25 12:58
Ethylbenzene	EPA 8260D	<27.4	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Isopropylbenzene	EPA 8260D	<24.4	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
m+p-Xylene	EPA 8260D	<51.4	U	µg/kg	77.2	1	10/23/25 05:04	10/16/25 12:58
Methyl bromide (Bromomethane)	EPA 8260D	<73.8	U	µg/kg	129	1	10/23/25 05:04	10/16/25 12:58
Methyl chloride (Chloromethane)	EPA 8260D	<105	U	µg/kg	129	1	10/23/25 05:04	10/16/25 12:58
Methyl tert-butyl ether (MTBE)	EPA 8260D	<28.1	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Methylcyclohexane	EPA 8260D	<14.7	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Methylene chloride (Dichloromethane)	EPA 8260D	<102	U	µg/kg	322	1	10/23/25 05:04	10/16/25 12:58
o-Xylene	EPA 8260D	<14.9	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Styrene	EPA 8260D	<15.3	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:38
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB02 (3-4) **Lab ID: HN2515414-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<23.2	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Toluene	EPA 8260D	<31.8	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Total Xylene	EPA 8260D	<14.9	U	µg/kg	116	1	10/23/25 05:04	10/16/25 12:58
trans-1,2-Dichloroethylene	EPA 8260D	<31.8	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
trans-1,3-Dichloropropylene	EPA 8260D	<21.5	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Trichloroethene (Trichloroethylene)	EPA 8260D	<17.3	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<19.7	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58
Vinyl chloride (Chloroethene)	EPA 8260D	<25.6	U	µg/kg	38.6	1	10/23/25 05:04	10/16/25 12:58

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:55
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB03 (5-6) **Lab ID: HN2515414-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<2.15	U	µg/kg	11.7	1	10/25/25 09:18	10/23/25 07:55
2,4,5-TP (Silvex)	EPA 8151A	<3.84	U	µg/kg	11.7	1	10/25/25 09:18	10/23/25 07:55
2,4-D	EPA 8151A	<6.25	U	µg/kg	23.4	1	10/25/25 09:18	10/23/25 07:55
Surr: DCAA	EPA 8151A	173	S	%REC	10-116	1	10/25/25 09:18	10/23/25 07:55
General Chemistry Parameters								
Percent Moisture	EPA 3550C	8.6		%	0.1	1	10/16/25 10:38	NA
Chloride	EPA 9056A	20.3		mg/kg	10.9	1	10/20/25 23:04	10/20/25 15:35
Metals								
Arsenic	EPA 6010D	5.31		mg/kg	0.312	1	10/24/25 12:17	10/23/25 10:32
Barium	EPA 6010D	20.9		mg/kg	0.623	1	10/24/25 12:17	10/23/25 10:32
Cadmium	EPA 6010D	<0.0511	U	mg/kg	0.623	1	10/24/25 12:17	10/23/25 10:32
Chromium	EPA 6010D	7.75		mg/kg	0.312	1	10/24/25 12:17	10/23/25 10:32
Copper	EPA 6010D	14.3		mg/kg	0.623	1	10/24/25 12:17	10/23/25 10:32
Lead	EPA 6010D	5.79		mg/kg	0.312	1	10/24/25 12:17	10/23/25 10:32
Selenium	EPA 6010D	<0.175	U	mg/kg	0.623	1	10/24/25 12:17	10/23/25 10:32
Silver	EPA 6010D	<0.150	U	mg/kg	0.312	1	10/24/25 12:17	10/23/25 10:32
Zinc	EPA 6010D	36.7		mg/kg	0.623	1	10/24/25 12:17	10/23/25 10:32
Mercury	EPA 7471B	<0.0136	U	mg/kg	0.0200	1	10/23/25 11:36	10/23/25 09:31
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<6.89	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
4,4'-DDE	EPA 8081B	<7.10	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
4,4'-DDT	EPA 8081B	<7.17	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
Aldrin	EPA 8081B	<7.00	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
alpha-BHC	EPA 8081B	<7.09	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
beta-BHC	EPA 8081B	<7.08	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
Chlordane, Technical	EPA 8081B	<10.7	U	µg/kg	26.9	1	10/21/25 14:52	10/17/25 11:50
cis-Chlordane	EPA 8081B	<7.20	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
delta-BHC	EPA 8081B	<7.05	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
Dieldrin	EPA 8081B	<7.54	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:55
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB03 (5-6)	Lab ID: HN2515414-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<7.24	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
Endosulfan II	EPA 8081B	<7.14	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
Endosulfan sulfate	EPA 8081B	<6.63	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
Endrin	EPA 8081B	<8.72	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
Endrin aldehyde	EPA 8081B	<6.83	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
Endrin ketone	EPA 8081B	<6.56	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
gamma-BHC (Lindane)	EPA 8081B	<7.07	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
Heptachlor	EPA 8081B	<6.95	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
Heptachlor epoxide	EPA 8081B	<7.13	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
Methoxychlor	EPA 8081B	<7.20	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
Toxaphene	EPA 8081B	<11.6	U	µg/kg	64.7	1	10/21/25 14:52	10/17/25 11:50
trans-Chlordane	EPA 8081B	<7.16	U	µg/kg	10.8	1	10/21/25 14:52	10/17/25 11:50
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	130		%REC	53-151	1	10/21/25 14:52	10/17/25 11:50
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	94.2		%REC	67-127	1	10/21/25 14:52	10/17/25 11:50

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<24.4	U	µg/kg	71.3	1	10/18/25 15:57	10/16/25 13:05
Aroclor 1221	EPA 8082A	<24.4	U	µg/kg	71.3	1	10/18/25 15:57	10/16/25 13:05
Aroclor 1232	EPA 8082A	<24.4	U	µg/kg	71.3	1	10/18/25 15:57	10/16/25 13:05
Aroclor 1242	EPA 8082A	<24.4	U	µg/kg	71.3	1	10/18/25 15:57	10/16/25 13:05
Aroclor 1248	EPA 8082A	<24.4	U	µg/kg	71.3	1	10/18/25 15:57	10/16/25 13:05
Aroclor 1254	EPA 8082A	<19.9	U	µg/kg	71.3	1	10/18/25 15:57	10/16/25 13:05
Aroclor 1260	EPA 8082A	<19.9	U	µg/kg	71.3	1	10/18/25 15:57	10/16/25 13:05
Aroclor 1262	EPA 8082A	<19.9	U	µg/kg	71.3	1	10/18/25 15:57	10/16/25 13:05
Aroclor 1268	EPA 8082A	<19.9	U	µg/kg	71.3	1	10/18/25 15:57	10/16/25 13:05
Total PCB	EPA 8082A	<19.9	U	µg/kg	71.3	1	10/18/25 15:57	10/16/25 13:05
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	112		%REC	54-146	1	10/18/25 15:57	10/16/25 13:05
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	97.1		%REC	58-140	1	10/18/25 15:57	10/16/25 13:05

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<5.89	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<8.37	U	µg/kg	363	1	10/21/25 18:12	10/16/25 12:13

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:55
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB03 (5-6) **Lab ID: HN2515414-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<26.0	U	µg/kg	182	1	10/21/25 18:12	10/16/25 12:13
1-Methylnaphthalene	EPA 8270E	<5.23	U	µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	<8.51	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
2,3,4,6-Tetrachlorophenol	EPA 8270E	<26.6	U	µg/kg	72.6	1	10/21/25 18:12	10/16/25 12:13
2,4,5-Trichlorophenol	EPA 8270E	<21.5	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
2,4,6-Trichlorophenol	EPA 8270E	<9.66	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
2,4-Dichlorophenol	EPA 8270E	<19.5	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
2,4-Dimethylphenol	EPA 8270E	<18.7	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
2,4-Dinitrophenol	EPA 8270E	<266	U	µg/kg	363	1	10/21/25 18:12	10/16/25 12:13
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<23.6	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<9.27	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
2-Chloronaphthalene	EPA 8270E	<5.08	U	µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
2-Chlorophenol	EPA 8270E	<23.8	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<30.3	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
2-Methylphenol (o-Cresol)	EPA 8270E	<9.82	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
2-Nitroaniline	EPA 8270E	<20.2	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
2-Nitrophenol	EPA 8270E	<10.4	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
3&4-Methylphenol	EPA 8270E	<19.8	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
3,3'-Dichlorobenzidine	EPA 8270E	<17.0	U	µg/kg	182	1	10/21/25 18:12	10/16/25 12:13
3-Nitroaniline	EPA 8270E	<21.1	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<19.9	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
4-Chloro-3-methylphenol	EPA 8270E	<10.4	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
4-Chloroaniline	EPA 8270E	<18.5	U	µg/kg	72.6	1	10/21/25 18:12	10/16/25 12:13
4-Chlorophenyl phenylether	EPA 8270E	<10.0	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
4-Nitroaniline	EPA 8270E	<56.3	U	µg/kg	182	1	10/21/25 18:12	10/16/25 12:13
4-Nitrophenol	EPA 8270E	<85.1	U	µg/kg	363	1	10/21/25 18:12	10/16/25 12:13
Acenaphthene	EPA 8270E	<5.25	U	µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:55
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB03 (5-6)

Lab ID: HN2515414-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<6.30	U	µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
Acetophenone	EPA 8270E	<5.69	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Anthracene	EPA 8270E	<5.12	U	µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
Atrazine	EPA 8270E	<21.3	SU	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Benzaldehyde	EPA 8270E	<55.8	U	µg/kg	72.6	1	10/21/25 18:12	10/16/25 12:13
Benzo(a)anthracene	EPA 8270E	<6.28	U	µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
Benzo(a)pyrene	EPA 8270E	7.99		µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
Benzo(b)fluoranthene	EPA 8270E	7.26		µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
Benzo(g,h,i)perylene	EPA 8270E	<5.57	U	µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
Benzo(k)fluoranthene	EPA 8270E	<5.50	U	µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
bis(2-Chloroethoxy) methane	EPA 8270E	<23.0	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
bis(2-Chloroethyl) ether	EPA 8270E	<10.3	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Butyl benzyl phthalate	EPA 8270E	<45.5	U	µg/kg	72.6	1	10/21/25 18:12	10/16/25 12:13
Caprolactam	EPA 8270E	<32.8	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Carbazole	EPA 8270E	<10.7	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Chrysene	EPA 8270E	<5.87	U	µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	<30.0	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Dibenz(a,h) anthracene	EPA 8270E	<3.92	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Dibenzofuran	EPA 8270E	<5.34	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Diethyl phthalate	EPA 8270E	<12.4	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Dimethyl phthalate	EPA 8270E	<7.08	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Fluoranthene	EPA 8270E	7.99		µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
Fluorene	EPA 8270E	<5.27	U	µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
Hexachlorobenzene	EPA 8270E	<10.6	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Hexachlorobutadiene	EPA 8270E	<8.55	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Hexachlorocyclopentadiene	EPA 8270E	<34.4	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Hexachloroethane	EPA 8270E	<15.0	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Indeno(1,2,3-cd) pyrene	EPA 8270E	9.44		µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
Isophorone	EPA 8270E	<7.09	U	µg/kg	182	1	10/21/25 18:12	10/16/25 12:13
Methylphenol, Total	EPA 8270E	<9.82	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:55
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB03 (5-6)	Lab ID: HN2515414-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<4.64	U	µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
Nitrobenzene	EPA 8270E	<12.2	U	µg/kg	182	1	10/21/25 18:12	10/16/25 12:13
n-Nitrosodi-n-propylamine	EPA 8270E	<5.99	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
N-Nitrosodiphenylamine	EPA 8270E	<21.0	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Pentachlorophenol	EPA 8270E	<28.8	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Phenanthrene	EPA 8270E	<3.38	U	µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
Phenol	EPA 8270E	<18.2	U	µg/kg	36.0	1	10/21/25 18:12	10/16/25 12:13
Pyrene	EPA 8270E	<3.62	U	µg/kg	7.26	1	10/21/25 18:12	10/16/25 12:13
Pyridine	EPA 8270E	<71.5	U	µg/kg	182	1	10/21/25 18:12	10/16/25 12:13

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<16.4	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
1,1,2,2-Tetrachloroethane	EPA 8260D	<16.0	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<22.9	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
1,1,2-Trichloroethane	EPA 8260D	<15.4	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
1,1-Dichloroethane	EPA 8260D	<13.2	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
1,1-Dichloroethylene	EPA 8260D	<11.7	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
1,2,3-Trichlorobenzene	EPA 8260D	<43.4	U	µg/kg	120	1	10/23/25 05:20	10/16/25 12:58
1,2,3-Trichloropropane	EPA 8260D	<15.1	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
1,2,4-Trichlorobenzene	EPA 8260D	<41.0	U	µg/kg	120	1	10/23/25 05:20	10/16/25 12:58
1,2,4-Trimethylbenzene	EPA 8260D	<26.5	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<33.3	U	µg/kg	120	1	10/23/25 05:20	10/16/25 12:58
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<21.3	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<13.7	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<21.3	U	µg/kg	120	1	10/23/25 05:20	10/16/25 12:58
1,2-Dichloropropane	EPA 8260D	<26.6	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
1,3,5-Trimethylbenzene	EPA 8260D	<25.5	U	µg/kg	120	1	10/23/25 05:20	10/16/25 12:58
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	<25.0	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
1,3-Dichloropropane	EPA 8260D	<21.7	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	<29.4	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:55
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB03 (5-6)	Lab ID: HN2515414-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<86.0	U	µg/kg	241	1	10/23/25 05:20	10/16/25 12:58
2-Hexanone	EPA 8260D	<17.9	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<33.7	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Acetone	EPA 8260D	<107	U	µg/kg	120	1	10/23/25 05:20	10/16/25 12:58
Benzene	EPA 8260D	<17.5	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Bromochloromethane	EPA 8260D	<18.4	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Bromodichloromethane	EPA 8260D	<20.2	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Bromoform	EPA 8260D	<15.2	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Carbon disulfide	EPA 8260D	<18.7	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Carbon tetrachloride	EPA 8260D	<14.1	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Chlorobenzene	EPA 8260D	<12.0	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Chlorodibromomethane	EPA 8260D	<20.3	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Chloroethane (Ethyl chloride)	EPA 8260D	<101	U	µg/kg	120	1	10/23/25 05:20	10/16/25 12:58
Chloroform	EPA 8260D	<13.2	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
cis-1,2-Dichloroethylene	EPA 8260D	<23.2	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
cis-1,3-Dichloropropene	EPA 8260D	<27.2	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Cyclohexane	EPA 8260D	<27.7	U	µg/kg	120	1	10/23/25 05:20	10/16/25 12:58
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<43.8	U	µg/kg	120	1	10/23/25 05:20	10/16/25 12:58
Ethylbenzene	EPA 8260D	<25.6	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Isopropylbenzene	EPA 8260D	<22.8	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
m+p-Xylene	EPA 8260D	<48.2	U	µg/kg	72.3	1	10/23/25 05:20	10/16/25 12:58
Methyl bromide (Bromomethane)	EPA 8260D	<69.1	U	µg/kg	120	1	10/23/25 05:20	10/16/25 12:58
Methyl chloride (Chloromethane)	EPA 8260D	<98.8	U	µg/kg	120	1	10/23/25 05:20	10/16/25 12:58
Methyl tert-butyl ether (MTBE)	EPA 8260D	<26.4	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Methylcyclohexane	EPA 8260D	<13.8	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Methylene chloride (Dichloromethane)	EPA 8260D	<95.9	U	µg/kg	301	1	10/23/25 05:20	10/16/25 12:58
o-Xylene	EPA 8260D	<14.0	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Styrene	EPA 8260D	<14.3	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58

Analytical Report



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

Work Order: HN2515414
Date Collected: 10/15/25 09:55
Date Received: 10/16/25 08:00

CLIENT ID: 13726 SB03 (5-6) **Lab ID: HN2515414-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<21.8	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Toluene	EPA 8260D	<29.8	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Total Xylene	EPA 8260D	<14.0	U	µg/kg	108	1	10/23/25 05:20	10/16/25 12:58
trans-1,2-Dichloroethylene	EPA 8260D	<29.8	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
trans-1,3-Dichloropropylene	EPA 8260D	<20.2	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Trichloroethene (Trichloroethylene)	EPA 8260D	<16.2	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<18.5	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58
Vinyl chloride (Chloroethene)	EPA 8260D	<24.0	U	µg/kg	36.1	1	10/23/25 05:20	10/16/25 12:58



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2293135

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3623707

Chlorinated Herbicides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2293135-001
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 10/24/25 10:44
Prep Date: 10/23/25 07:56

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	<0.920	µg/kg	5.00							U
2,4,5-TP (Silvex)	<1.64	µg/kg	5.00							U
2,4-D	<2.67	µg/kg	10.0							U
Surr: DCAA	266	µg/kg		50		532	10-116			S

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2293135-002
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 10/24/25 10:59
Prep Date: 10/23/25 07:56

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	31.0	µg/kg	5.00	50		62.0	10-119			
2,4,5-TP (Silvex)	33.0	µg/kg	5.00	50		66.0	10-101			
2,4-D	36.0	µg/kg	10.0	50		72.0	10-128			
Surr: DCAA	99.0	µg/kg		50		198	10-116			S

The following samples were analyzed in this batch: HN2515414-001, HN2515414-002, HN2515414-003



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2278958

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3593104

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2278958-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 10/16/25 10:38
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-2278958-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 10/16/25 10:38
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: 13726 SB01 (1-2)	Lab ID: QC-2278958-004
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 10/16/25 10:38
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	10.4	%	0.1		10.0			4.71	10	

The following samples were analyzed in this batch: HN2515414-001, HN2515414-002, HN2515414-003



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2286473

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3606696

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2286473-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 10/20/25 21:46
Prep Date: 10/20/25 15:35

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-2286473-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 10/20/25 21:56
Prep Date: 10/20/25 15:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	96.3	mg/kg	10.0	100		96.3	87-110			

The following samples were analyzed in this batch: HN2515414-001, HN2515414-002, HN2515414-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2288570

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3616433

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2288570-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 10/23/25 11:18
Prep Date: 10/23/25 09:32

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-2288570-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 10/23/25 11:20
Prep Date: 10/23/25 09:32

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

MS	CLIENT ID: 13726 SB01 (1-2)	Lab ID: QC-2288570-004
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 10/23/25 11:23
Prep Date: 10/23/25 09:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.181	mg/kg	0.0203	0.15228	0.0462	91.8	75-125			

MSD	CLIENT ID: 13726 SB01 (1-2)	Lab ID: QC-2288570-005
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 10/23/25 11:25
Prep Date: 10/23/25 09:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.169	mg/kg	0.0200	0.14955	0.0462	85.3	75-125	6.98	35	

The following samples were analyzed in this batch: HN2515414-001, HN2515414-002, HN2515414-003



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2293152

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3621340

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2293152-001
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Method: EPA 6010D **Dilution:** 1 **Analysis Date:** 10/24/25 11:32
Prep Date: 10/23/25 10:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	<0.163	mg/kg	0.250							U
Barium	<0.310	mg/kg	0.500							U
Cadmium	<0.0410	mg/kg	0.500							U
Chromium	<0.150	mg/kg	0.250							U
Copper	<0.370	mg/kg	0.500							U
Lead	<0.200	mg/kg	0.250							U
Selenium	<0.140	mg/kg	0.500							U
Silver	<0.120	mg/kg	0.250							U
Zinc	<0.480	mg/kg	0.500							U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2293152-002
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Method: EPA 6010D **Dilution:** 1 **Analysis Date:** 10/24/25 11:38
Prep Date: 10/23/25 10:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.70	mg/kg	0.250	5		94.0	80-120			
Barium	4.89	mg/kg	0.500	5		97.8	80-120			
Cadmium	4.83	mg/kg	0.500	5		96.6	80-120			
Chromium	5.01	mg/kg	0.250	5		100	80-120			
Copper	5.08	mg/kg	0.500	5		102	80-120			
Lead	4.90	mg/kg	0.250	5		98.0	80-120			
Selenium	4.75	mg/kg	0.500	5		94.9	80-120			
Silver	5.03	mg/kg	0.250	5		101	80-120			
Zinc	4.98	mg/kg	0.500	5		99.6	80-120			

MS	CLIENT ID: 13726 SB01 (1-2)	Lab ID: QC-2293152-004
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Method: EPA 6010D **Dilution:** 1 **Analysis Date:** 10/24/25 11:49
Prep Date: 10/23/25 10:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	9.82	mg/kg	0.327	5.8962	7.12	57.8	75-125			S
Barium	263	mg/kg	0.655	5	62.7	NC	75-125			O
Cadmium	5.72	mg/kg	0.655	5.8962	0.47	89.8	75-125			
Chromium	21.5	mg/kg	0.327	5.8962	14.6	142	75-125			S
Copper	30.6	mg/kg	0.655	5.8962	22.1	181	75-125			S
Lead	59.5	mg/kg	0.327	5	54.8	NC	75-125			O
Selenium	5.21	mg/kg	0.655	5.8962	0.35	83.0	75-125			
Silver	6.41	mg/kg	0.327	5.8962	0.22	105	75-125			
Zinc	111	mg/kg	0.655	5	103	NC	75-125			O

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2293152

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3621340

MSD	CLIENT ID: 13726 SB01 (1-2)	Lab ID: QC-2293152-005
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Method: EPA 6010D **Dilution:** 1 **Analysis Date:** 10/24/25 11:55
Prep Date: 10/23/25 10:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	9.40	mg/kg	0.322	5.8072	7.12	51.4	75-125	4.39	20	S
Barium	31.4	mg/kg	0.645	5	62.7	NC	75-125	157	20	OR
Cadmium	5.81	mg/kg	0.645	5.8072	0.47	92.8	75-125	1.57	20	
Chromium	12.5	mg/kg	0.322	5	14.6	NC	75-125	53.4	20	R
Copper	17.0	mg/kg	0.645	5	22.1	NC	75-125	57.2	20	R
Lead	16.8	mg/kg	0.322	5	54.8	NC	75-125	112	20	OR
Selenium	3.29	mg/kg	0.645	5.8072	0.35	51.2	75-125	45.2	20	RS
Silver	6.42	mg/kg	0.322	5.8072	0.22	107	75-125	0.150	20	
Zinc	72.7	mg/kg	0.645	5	103	NC	75-125	41.7	20	OR

PDS	CLIENT ID: 13726 SB01 (1-2)	Lab ID: QC-2293152-006
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Method: EPA 6010D **Dilution:** 1 **Analysis Date:** 10/24/25 12:00
Prep Date: 10/23/25 10:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	12.2	mg/kg	0.331	5.9524	7.12	97.6	75-125			
Barium	63.2	mg/kg	0.661	5	62.7	NC	75-125			O
Cadmium	6.30	mg/kg	0.661	5.9524	0.47	98.7	75-125			
Chromium	19.4	mg/kg	0.331	5.9524	14.6	105	75-125			
Copper	26.9	mg/kg	0.661	5.9524	22.1	117	75-125			
Lead	54.5	mg/kg	0.331	5	54.8	NC	75-125			O
Selenium	5.89	mg/kg	0.661	5.9524	0.35	93.7	75-125			
Silver	6.42	mg/kg	0.331	5.9524	0.22	104	75-125			
Zinc	97.7	mg/kg	0.661	5	103	NC	75-125			O

The following samples were analyzed in this batch: HN2515414-001, HN2515414-002, HN2515414-003



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2281831

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3605782

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2281831-001
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Method: EPA 8081B

Dilution: 1

Analysis Date: 10/18/25 01:39

Prep Date: 10/17/25 11:51

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	42.8	µg/kg		33.33		128	53-151			
Surr: Tetrachloro-m-xylene	34.4	µg/kg		33.33		103	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2281831-002
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Method: EPA 8081B

Dilution: 1

Analysis Date: 10/18/25 01:51

Prep Date: 10/17/25 11:51

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	31.4	µg/kg	10.0	33.33		94.2	55-141			
4,4'-DDE	32.8	µg/kg	10.0	33.33		98.6	55-143			
4,4'-DDT	31.4	µg/kg	10.0	33.33		94.1	50-144			
Aldrin	32.2	µg/kg	10.0	33.33		96.5	57-141			
alpha-BHC	30.8	µg/kg	10.0	33.33		92.3	58-144			
beta-BHC	30.4	µg/kg	10.0	33.33		91.2	55-147			
cis-Chlordane	31.8	µg/kg	10.0	33.33		95.4	58-142			
delta-BHC	26.1	µg/kg	10.0	33.33		78.3	59-142			
Dieldrin	33.3	µg/kg	10.0	33.33		100	59-142			
Endosulfan I	31.2	µg/kg	10.0	33.33		93.6	57-145			
Endosulfan II	31.9	µg/kg	10.0	33.33		95.8	58-138			
Endosulfan sulfate	32.6	µg/kg	10.0	33.33		97.6	54-136			
Endrin	30.4	µg/kg	10.0	33.33		91.1	45-150			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2281831

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3605782

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2281831-002			
Method: EPA 8081B		Dilution: 1		Analysis Date: 10/18/25 01:51		Prep Date: 10/17/25 11:51			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Endrin aldehyde	38.2	µg/kg	10.0	33.33		115	41-147		
Endrin ketone	32.2	µg/kg	10.0	33.33		96.6	54-146		
gamma-BHC (Lindane)	30.3	µg/kg	10.0	33.33		91.0	58-145		
Heptachlor	30.6	µg/kg	10.0	33.33		91.8	51-145		
Heptachlor epoxide	31.5	µg/kg	10.0	33.33		94.6	59-143		
Methoxychlor	30.0	µg/kg	10.0	33.33		90.0	43-144		
trans-Chlordane	32.4	µg/kg	10.0	33.33		97.0	56-145		
Surr: Decachlorobiphenyl	44.2	µg/kg		33.33		133	51-151		
Surr: Tetrachloro-m-xylene	35.6	µg/kg		33.33		107	67-127		

The following samples were analyzed in this batch: HN2515414-001, HN2515414-002, HN2515414-003



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2279038

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3614644

Polychlorinated Biphenyls (PCBs) by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2279038-001
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 10/22/25 12:44
Prep Date: 10/20/25 10:29

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	40.3	µg/kg		33.3		121	54-146			
Surr: Tetrachloro-m-xylene	38.2	µg/kg		33.3		115	58-140			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2279038-002
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 10/22/25 12:56
Prep Date: 10/20/25 10:29

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	821	µg/kg	66.7	833		98.6	67-135			
Surr: Decachlorobiphenyl	42.1	µg/kg		33.3		126	54-146			
Surr: Tetrachloro-m-xylene	34.9	µg/kg		33.3		105	58-140			

The following samples were analyzed in this batch: HN2515414-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2279041

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3605132

Polychlorinated Biphenyls (PCBs) by GC/ECD

MB		CLIENT ID: Method Blank				Lab ID: QC-2279041-001			
Method: EPA 8082A		Dilution: 1		Analysis Date: 10/18/25 15:10		Prep Date: 10/16/25 13:06			
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	33.1	µg/kg		33.3		99.4	54-146		
Surr: Tetrachloro-m-xylene	29.1	µg/kg		33.3		87.4	58-140		

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2279041-002			
Method: EPA 8082A		Dilution: 1		Analysis Date: 10/18/25 15:22		Prep Date: 10/16/25 13:06			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Aroclor 1016	786	µg/kg	66.7	833		94.4	71-135		
Aroclor 1260	806	µg/kg	66.7	833		96.7	67-135		
Surr: Decachlorobiphenyl	37.6	µg/kg		33.3		113	54-146		
Surr: Tetrachloro-m-xylene	31.6	µg/kg		33.3		95.0	58-140		

MS		CLIENT ID: 13726 SB03 (5-6)				Lab ID: QC-2279041-005			
Method: EPA 8082A		Dilution: 1		Analysis Date: 10/18/25 15:33		Prep Date: 10/16/25 13:06			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Aroclor 1016	792	µg/kg	72.0	822.23	<22.6	96.4	71-135		
Aroclor 1260	834	µg/kg	72.0	822.23	<18.4	101	67-135		
Surr: Decachlorobiphenyl	39.0	µg/kg		32.87		119	54-146		
Surr: Tetrachloro-m-xylene	31.3	µg/kg		32.87		95.2	58-140		

MSD		CLIENT ID: 13726 SB03 (5-6)				Lab ID: QC-2279041-006			
Method: EPA 8082A		Dilution: 1		Analysis Date: 10/18/25 15:45		Prep Date: 10/16/25 13:06			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Aroclor 1016	792	µg/kg	71.8	819.25	<22.9	96.7	71-135	0.0372	20
Aroclor 1260	826	µg/kg	71.8	819.25	<18.6	101	67-135	0.894	20
Surr: Decachlorobiphenyl	38.6	µg/kg		32.75		118	54-146	0.956	30
Surr: Tetrachloro-m-xylene	31.9	µg/kg		32.75		97.4	58-140	1.92	30

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2279041

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3605132

The following samples were analyzed in this batch: HN2515414-003



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2290523

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3629414

Polychlorinated Biphenyls (PCBs) by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2290523-001
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 10/24/25 20:13
Prep Date: 10/24/25 12:21

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	29.9	µg/kg		33.3		89.7	54-146			
Surr: Tetrachloro-m-xylene	38.2	µg/kg		33.3		115	58-140			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2290523-002
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 10/24/25 20:25
Prep Date: 10/24/25 12:21

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	789	µg/kg	66.7	833		94.7	71-135			
Aroclor 1260	737	µg/kg	66.7	833		88.5	67-135			
Surr: Decachlorobiphenyl	35.2	µg/kg		33.3		106	54-146			
Surr: Tetrachloro-m-xylene	33.4	µg/kg		33.3		100	58-140			

The following samples were analyzed in this batch: HN2515414-002



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2279011

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3612730

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2279011-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/21/25 15:44

Prep Date: 10/16/25 12:14

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-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
Butyl benzyl phthalate	<41.7	µg/kg	67.0							U

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2279011

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3612730

MB	CLIENT ID: Method Blank	Lab ID: QC-2279011-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/21/25 15:44

Prep Date: 10/16/25 12:14

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2279011-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/21/25 16:05

Prep Date: 10/16/25 12:14

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	977	µg/kg	33.0	1333		73.3	57-101			
1,2,4,5-Tetrachlorobenzene	956	µg/kg	333	1333		71.7	54-98			
1-Methylnaphthalene	987	µg/kg	6.67	1333		74.1	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	937	µg/kg	33.0	1333		70.3	50-101			
2,3,4,6-Tetrachlorophenol	889	µg/kg	67.0	1333		66.7	48-103			
2,4,5-Trichlorophenol	1010	µg/kg	33.0	1333		75.5	54-98			
2,4,6-Trichlorophenol	1060	µg/kg	33.0	1333		79.6	56-97			
2,4-Dichlorophenol	954	µg/kg	33.0	1333		71.6	54-99			
2,4-Dimethylphenol	881	µg/kg	33.0	1333		66.1	47-102			
2,4-Dinitrophenol	802	µg/kg	333	1333		60.2	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1040	µg/kg	33.0	1333		78.0	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1050	µg/kg	33.0	1333		79.1	62-103			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2279011

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3612730

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2279011-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/21/25 16:05

Prep Date: 10/16/25 12:14

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2-Chloronaphthalene	1050	µg/kg	6.67	1333		78.5	57-101			
2-Chlorophenol	953	µg/kg	33.0	1333		71.5	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	915	µg/kg	33.0	1333		68.7	42-104			
2-Methylphenol (o-Cresol)	912	µg/kg	33.0	1333		68.4	54-103			
2-Nitroaniline	1050	µg/kg	33.0	1333		78.4	57-103			
2-Nitrophenol	988	µg/kg	33.0	1333		74.1	52-102			
3&4-Methylphenol	930	µg/kg	33.0	1333		69.8	56-103			
3,3'-Dichlorobenzidine	811	µg/kg	167	1333		60.9	41-91			
3-Nitroaniline	806	µg/kg	33.0	1333		60.5	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1040	µg/kg	33.0	1333		78.2	63-104			
4-Chloro-3-methylphenol	935	µg/kg	33.0	1333		70.1	57-103			
4-Chloroaniline	979	µg/kg	67.0	1333		73.4	32-99			
4-Chlorophenyl phenylether	1040	µg/kg	33.0	1333		78.4	62-100			
4-Nitroaniline	595	µg/kg	167	1333		44.6	19-124			
4-Nitrophenol	996	µg/kg	333	1333		74.7	44-106			
Acenaphthene	1050	µg/kg	6.67	1333		78.5	60-101			
Acenaphthylene	1080	µg/kg	6.67	1333		80.8	59-101			
Acetophenone	921	µg/kg	33.0	1333		69.1	54-102			
Anthracene	1030	µg/kg	6.67	1333		77.1	63-96			
Atrazine	<19.5	µg/kg	33.0	1333		0.00	60-110			SU
Benzaldehyde	421	µg/kg	67.0	1333		31.6	10-143			
Benzo(a)anthracene	1030	µg/kg	6.67	1333		77.3	66-102			
Benzo(a)pyrene	1050	µg/kg	6.67	1333		78.9	66-105			
Benzo(b)fluoranthene	1040	µg/kg	6.67	1333		77.7	67-105			
Benzo(g,h,i)perylene	1060	µg/kg	6.67	1333		79.8	59-110			
Benzo(k)fluoranthene	1060	µg/kg	6.67	1333		79.7	68-106			
bis(2-Chloroethoxy)methane	937	µg/kg	33.0	1333		70.3	54-102			
bis(2-Chloroethyl) ether	940	µg/kg	33.0	1333		70.5	51-101			
Butyl benzyl phthalate	1030	µg/kg	67.0	1333		77.6	59-107			
Caprolactam	928	µg/kg	33.0	1333		69.6	49-103			
Carbazole	1010	µg/kg	33.0	1333		76.0	63-103			
Chrysene	1040	µg/kg	6.67	1333		77.9	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1080	µg/kg	33.0	1333		81.3	63-101			
Dibenz(a,h) anthracene	1070	µg/kg	33.0	1333		80.2	61-109			
Dibenzofuran	1060	µg/kg	33.0	1333		79.4	61-101			
Diethyl phthalate	1030	µg/kg	33.0	1333		77.4	63-105			
Dimethyl phthalate	1040	µg/kg	33.0	1333		77.7	64-104			
Fluoranthene	1020	µg/kg	6.67	1333		76.2	66-105			
Fluorene	1040	µg/kg	6.67	1333		78.2	62-101			
Hexachlorobenzene	1010	µg/kg	33.0	1333		75.5	61-104			
Hexachlorobutadiene	985	µg/kg	33.0	1333		73.9	52-99			
Hexachlorocyclopentadiene	1010	µg/kg	33.0	1333		75.5	39-106			
Hexachloroethane	943	µg/kg	33.0	1333		70.7	59-99			
Indeno(1,2,3-cd) pyrene	1170	µg/kg	6.67	1333		87.7	57-114			



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2279011

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3612730

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2279011-002
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 10/21/25 16:05**Prep Date:** 10/16/25 12:14

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Isophorone	968	µg/kg	167	1333		72.6	55-101			
Methylphenol, Total	1840	µg/kg	67.0	2667		69.1	54-103			
Naphthalene	1020	µg/kg	6.67	1333		76.3	54-99			
Nitrobenzene	1010	µg/kg	167	1333		75.8	53-100			
n-Nitrosodi-n-propylamine	933	µg/kg	33.0	1333		70.0	52-104			
N-Nitrosodiphenylamine	1030	µg/kg	33.0	1333		77.0	61-104			
Pentachlorophenol	883	µg/kg	33.0	1333		66.3	35-100			
Phenanthrene	1030	µg/kg	6.67	1333		77.0	64-101			
Phenol	935	µg/kg	33.0	1333		70.1	51-107			
Pyrene	1040	µg/kg	6.67	1333		78.0	62-114			
Pyridine	872	µg/kg	167	1333		65.4	40-84			

MS	CLIENT ID: 13726 SB01 (1-2)	Lab ID: QC-2279011-005
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Method: EPA 8270E**Dilution:** 10**Analysis Date:** 10/21/25 16:26**Prep Date:** 10/16/25 12:14

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	976	µg/kg	365	1327.7	<53.9	73.5	57-101			
1,2,4,5-Tetrachlorobenzene	<76.6	µg/kg	3680	1327.7	<76.6	69.5	54-98			U
1-Methylnaphthalene	950	µg/kg	73.7	1327.7	<47.8	71.5	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	863	µg/kg	365	1327.7	<77.8	65.0	50-101			
2,3,4,6-Tetrachlorophenol	777	µg/kg	737	1327.7	<243	58.5	48-103			
2,4,5-Trichlorophenol	1070	µg/kg	365	1327.7	<197	80.5	54-98			
2,4,6-Trichlorophenol	1060	µg/kg	365	1327.7	<88.4	80.0	56-97			
2,4-Dichlorophenol	910	µg/kg	365	1327.7	<179	68.5	54-99			
2,4-Dimethylphenol	1310	µg/kg	365	1327.7	<171	99.0	47-102			
2,4-Dinitrophenol	<2430	µg/kg	3680	1327.7	<2430	38.5	10-100			U
2,4-Dinitrotoluene (2,4-DNT)	950	µg/kg	365	1327.7	<216	71.5	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1000	µg/kg	365	1327.7	<84.8	75.5	62-103			
2-Chloronaphthalene	1080	µg/kg	73.7	1327.7	<46.4	81.0	57-101			
2-Chlorophenol	950	µg/kg	365	1327.7	<217	71.5	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	697	µg/kg	365	1327.7	<277	52.5	42-104			
2-Methylphenol (o-Cresol)	1020	µg/kg	365	1327.7	<89.7	77.0	54-103			
2-Nitroaniline	1130	µg/kg	365	1327.7	<184	85.0	57-103			
2-Nitrophenol	963	µg/kg	365	1327.7	<94.6	72.5	52-102			
3&4-Methylphenol	1010	µg/kg	365	1327.7	<181	76.0	56-103			
3,3'-Dichlorobenzidine	<155	µg/kg	1840	1327.7	<155	66.0	41-91			U
3-Nitroaniline	1030	µg/kg	365	1327.7	<193	77.5	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1100	µg/kg	365	1327.7	<182	83.0	63-104			
4-Chloro-3-methylphenol	989	µg/kg	365	1327.7	<94.6	74.5	57-103			
4-Chloroaniline	850	µg/kg	737	1327.7	<169	64.0	32-99			
4-Chlorophenyl phenylether	996	µg/kg	365	1327.7	<91.7	75.0	62-100			
4-Nitroaniline	<515	µg/kg	1840	1327.7	<515	68.0	19-124			U
4-Nitrophenol	<778	µg/kg	3680	1327.7	<778	61.0	44-106			U

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2279011

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3612730

MS	CLIENT ID: 13726 SB01 (1-2)	Lab ID: QC-2279011-005
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Method: EPA 8270E

Dilution: 10

Analysis Date: 10/21/25 16:26

Prep Date: 10/16/25 12:14

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Acenaphthene	1050	µg/kg	73.7	1327.7	<48.0	79.0	60-101			
Acenaphthylene	1100	µg/kg	73.7	1327.7	<57.6	78.6	59-101			
Acetophenone	863	µg/kg	365	1327.7	<52.0	65.0	54-102			
Anthracene	1140	µg/kg	73.7	1327.7	87.2	80.1	63-96			
Atrazine	1060	µg/kg	365	1327.7	<195	80.0	60-110			
Benzaldehyde	1040	µg/kg	737	1327.7	<510	78.0	10-143			
Benzo(a)anthracene	1490	µg/kg	73.7	1327.7	349	88.9	66-102			
Benzo(a)pyrene	1550	µg/kg	73.7	1327.7	392	90.4	66-105			
Benzo(b)fluoranthene	1630	µg/kg	73.7	1327.7	545	85.6	67-105			
Benzo(g,h,i)perylene	1490	µg/kg	73.7	1327.7	349	88.4	59-110			
Benzo(k)fluoranthene	1290	µg/kg	73.7	1327.7	196	83.7	68-106			
bis(2-Chloroethoxy)methane	863	µg/kg	365	1327.7	<210	65.0	54-102			
bis(2-Chloroethyl) ether	1000	µg/kg	365	1327.7	<94.0	75.5	51-101			
Butyl benzyl phthalate	1180	µg/kg	737	1327.7	<416	89.0	59-107			
Caprolactam	1120	µg/kg	365	1327.7	<300	84.0	49-103			
Carbazole	1120	µg/kg	365	1327.7	<97.8	84.0	63-103			
Chrysene	1380	µg/kg	73.7	1327.7	312	82.8	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1300	µg/kg	365	1327.7	371	72.9	63-101			
Dibenz(a,h) anthracene	1150	µg/kg	365	1327.7	<35.9	86.5	61-109			
Dibenzofuran	1040	µg/kg	365	1327.7	<48.8	78.0	61-101			
Diethyl phthalate	1070	µg/kg	365	1327.7	<113	80.5	63-105			
Dimethyl phthalate	1020	µg/kg	365	1327.7	<64.7	77.0	64-104			
Fluoranthene	1940	µg/kg	73.7	1327.7	683	99.7	66-105			
Fluorene	1030	µg/kg	73.7	1327.7	<48.2	77.5	62-101			
Hexachlorobenzene	983	µg/kg	365	1327.7	<96.6	74.0	61-104			
Hexachlorobutadiene	989	µg/kg	365	1327.7	<78.2	74.5	52-99			
Hexachlorocyclopentadiene	<325	µg/kg	365	1327.7	<325	0.00	39-106			SU
Hexachloroethane	910	µg/kg	365	1327.7	<137	68.5	59-99			
Indeno(1,2,3-cd) pyrene	1570	µg/kg	73.7	1327.7	392	91.9	57-114			
Isophorone	<64.8	µg/kg	1840	1327.7	<64.8	73.5	55-101			U
Methylphenol, Total	2030	µg/kg	365	2656.5	<89.7	76.5	54-103			
Naphthalene	1010	µg/kg	73.7	1327.7	<42.4	76.0	54-99			
Nitrobenzene	<112	µg/kg	1840	1327.7	<112	72.0	53-100			U
n-Nitrosodi-n-propylamine	916	µg/kg	365	1327.7	<54.8	69.0	52-104			
N-Nitrosodiphenylamine	1070	µg/kg	365	1327.7	<192	80.5	61-104			
Pentachlorophenol	803	µg/kg	365	1327.7	<264	60.5	35-100			
Phenanthrene	1540	µg/kg	73.7	1327.7	327	93.9	64-101			
Phenol	963	µg/kg	365	1327.7	<167	72.5	51-107			
Pyrene	1960	µg/kg	73.7	1327.7	639	104	52-114			
Pyridine	<654	µg/kg	1840	1327.7	<654	64.0	40-84			U

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2279011

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3612730

MSD	CLIENT ID: 13726 SB01 (1-2)	Lab ID: QC-2279011-006
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Method: EPA 8270E

Dilution: 10

Analysis Date: 10/21/25 16:47

Prep Date: 10/16/25 12:14

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	960	µg/kg	362	1315.3	<53.4	73.0	57-101	1.62	30	
1,2,4,5-Tetrachlorobenzene	<75.9	µg/kg	3650	1315.3	<75.9	71.5	54-98	NC		U
1-Methylnaphthalene	947	µg/kg	73.1	1315.3	<47.4	72.0	56-100	0.242	30	
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	921	µg/kg	362	1315.3	<77.1	70.0	50-101	6.47	30	
2,3,4,6-Tetrachlorophenol	849	µg/kg	731	1315.3	<241	64.5	48-103	8.82	30	
2,4,5-Trichlorophenol	941	µg/kg	362	1315.3	<195	71.5	54-98	12.8	30	
2,4,6-Trichlorophenol	1000	µg/kg	362	1315.3	<87.5	76.0	56-97	6.07	30	
2,4-Dichlorophenol	1010	µg/kg	362	1315.3	<177	77.0	54-99	10.7	30	
2,4-Dimethylphenol	1230	µg/kg	362	1315.3	<169	93.5	47-102	6.65	30	
2,4-Dinitrophenol	<2400	µg/kg	3650	1315.3	<2400	35.5	10-100	NC		U
2,4-Dinitrotoluene (2,4-DNT)	875	µg/kg	362	1315.3	<214	66.5	62-105	8.18	30	
2,6-Dinitrotoluene (2,6-DNT)	1220	µg/kg	362	1315.3	<84.0	93.0	62-103	19.8	30	
2-Chloronaphthalene	1020	µg/kg	73.1	1315.3	<46.0	77.5	57-101	5.36	30	
2-Chlorophenol	895	µg/kg	362	1315.3	<215	68.0	52-102	5.96	30	
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	710	µg/kg	362	1315.3	<275	54.0	42-104	1.88	30	
2-Methylphenol (o-Cresol)	974	µg/kg	362	1315.3	<88.9	74.0	54-103	4.91	30	
2-Nitroaniline	921	µg/kg	362	1315.3	<183	70.0	57-103	20.3	30	
2-Nitrophenol	980	µg/kg	362	1315.3	<93.7	74.5	52-102	1.78	30	
3&4-Methylphenol	974	µg/kg	362	1315.3	<179	74.0	56-103	3.61	30	
3,3'-Dichlorobenzidine	<154	µg/kg	1830	1315.3	<154	62.0	41-91	NC		U
3-Nitroaniline	947	µg/kg	362	1315.3	<191	72.0	35-107	8.30	30	
4-Bromophenyl phenyl ether (BDE-3)	1000	µg/kg	362	1315.3	<180	76.0	63-104	9.74	30	
4-Chloro-3-methylphenol	928	µg/kg	362	1315.3	<93.7	70.5	57-103	6.46	30	
4-Chloroaniline	<167	µg/kg	731	1315.3	<167	51.5	32-99	NC		U
4-Chlorophenyl phenylether	1050	µg/kg	362	1315.3	<90.9	79.5	62-100	4.89	30	
4-Nitroaniline	<510	µg/kg	1830	1315.3	<510	72.0	19-124	NC		U
4-Nitrophenol	<770	µg/kg	3650	1315.3	<770	59.5	44-106	NC		U
Acenaphthene	1010	µg/kg	73.1	1315.3	<47.6	77.0	60-101	3.50	30	
Acenaphthylene	1020	µg/kg	73.1	1315.3	<57.0	73.5	59-101	7.19	30	
Acetophenone	987	µg/kg	362	1315.3	<51.5	75.0	54-102	13.4	30	
Anthracene	1020	µg/kg	73.1	1315.3	87.2	71.6	63-96	11.3	30	
Atrazine	1080	µg/kg	362	1315.3	<193	82.0	60-110	1.53	30	
Benzaldehyde	<505	µg/kg	731	1315.3	<505	40.0	10-143	NC		U
Benzo(a)anthracene	1310	µg/kg	73.1	1315.3	349	75.6	66-102	13.2	30	
Benzo(a)pyrene	1340	µg/kg	73.1	1315.3	392	75.2	66-105	14.6	30	
Benzo(b)fluoranthene	1490	µg/kg	73.1	1315.3	545	75.7	67-105	9.01	30	
Benzo(g,h,i)perylene	1290	µg/kg	73.1	1315.3	349	74.1	59-110	14.3	30	
Benzo(k)fluoranthene	1100	µg/kg	73.1	1315.3	196	70.1	68-106	15.9	30	
bis(2-Chloroethoxy)methane	921	µg/kg	362	1315.3	<208	70.0	54-102	6.47	30	
bis(2-Chloroethyl) ether	921	µg/kg	362	1315.3	<93.1	70.0	51-101	8.50	30	
Butyl phenyl phthalate	1150	µg/kg	731	1315.3	<412	87.5	59-107	2.64	30	
Caprolactam	1100	µg/kg	362	1315.3	<297	83.5	49-103	1.54	30	
Carbazole	1040	µg/kg	362	1315.3	<96.9	79.0	63-103	7.07	30	
Chrysene	1300	µg/kg	73.1	1315.3	312	77.1	66-105	6.37	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2279011

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3612730

MSD	CLIENT ID: 13726 SB01 (1-2)	Lab ID: QC-2279011-006
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Method: EPA 8270E

Dilution: 10

Analysis Date: 10/21/25 16:47

Prep Date: 10/16/25 12:14

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1330	µg/kg	362	1315.3	371	75.7	63-101	2.08	30	
Dibenz(a,h) anthracene	1050	µg/kg	362	1315.3	<35.5	79.5	61-109	9.37	30	
Dibenzofuran	1020	µg/kg	362	1315.3	<48.4	77.5	61-101	1.58	30	
Diethyl phthalate	980	µg/kg	362	1315.3	<112	74.5	63-105	8.68	30	
Dimethyl phthalate	1000	µg/kg	362	1315.3	<64.1	76.0	64-104	2.25	30	
Fluoranthene	1690	µg/kg	73.1	1315.3	683	81.8	66-105	13.7	30	
Fluorene	993	µg/kg	73.1	1315.3	<47.8	75.5	62-101	3.55	30	
Hexachlorobenzene	941	µg/kg	362	1315.3	<95.7	71.5	61-104	4.38	30	
Hexachlorobutadiene	967	µg/kg	362	1315.3	<77.5	73.5	52-99	2.29	30	
Hexachlorocyclopentadiene	<322	µg/kg	362	1315.3	<322	17.0	39-106	NC		US
Hexachloroethane	967	µg/kg	362	1315.3	<136	73.5	59-99	6.10	30	
Indeno(1,2,3-cd) pyrene	1410	µg/kg	73.1	1315.3	392	80.2	57-114	11.1	30	
Isophorone	<64.2	µg/kg	1830	1315.3	<64.2	74.5	55-101	NC		U
Methylphenol, Total	1950	µg/kg	362	2631.6	<88.9	74.0	54-103	4.26	30	
Naphthalene	993	µg/kg	73.1	1315.3	<42.0	75.5	54-99	1.60	30	
Nitrobenzene	<111	µg/kg	1830	1315.3	<111	75.5	53-100	NC		U
n-Nitrosodi-n-propylamine	914	µg/kg	362	1315.3	<54.3	69.5	52-104	0.217	30	
N-Nitrosodiphenylamine	1120	µg/kg	362	1315.3	<190	85.0	61-104	4.50	30	
Pentachlorophenol	908	µg/kg	362	1315.3	<261	69.0	35-100	12.2	30	
Phenanthrene	1290	µg/kg	73.1	1315.3	327	75.6	64-101	17.8	30	
Phenol	914	µg/kg	362	1315.3	<165	69.5	51-107	5.16	30	
Pyrene	1700	µg/kg	73.1	1315.3	639	85.3	52-114	14.3	30	
Pyridine	<647	µg/kg	1830	1315.3	<647	65.0	40-84	NC		U

The following samples were analyzed in this batch: HN2515414-001, HN2515414-002, HN2515414-003



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2279131

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3607599

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2279131-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 10/20/25 22:54

Prep Date: 10/16/25 12:59

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-Dichloropropane	<18.0	µg/kg	30.0							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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2279131

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3607599

MB	CLIENT ID: Method Blank	Lab ID: QC-2279131-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 10/20/25 22:54

Prep Date: 10/16/25 12:59

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 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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2279131-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 10/20/25 21:57

Prep Date: 10/16/25 12:59

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1070	µg/kg	30.0	1000		107	75-121			
1,1,2,2-Tetrachloroethane	910	µg/kg	30.0	1000		91.0	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	974	µg/kg	30.0	1000		97.4	62-129			
1,1,2-Trichloroethane	880	µg/kg	30.0	1000		88.0	80-123			
1,1-Dichloroethane	892	µg/kg	30.0	1000		89.2	74-124			
1,1-Dichloroethylene	928	µg/kg	30.0	1000		92.8	68-131			
1,2,3-Trichlorobenzene	950	µg/kg	100	1000		95.0	60-135			
1,2,3-Trichloropropane	880	µg/kg	30.0	1000		88.0	77-121			
1,2,4-Trichlorobenzene	970	µg/kg	100	1000		97.0	63-130			
1,2,4-Trimethylbenzene	960	µg/kg	30.0	1000		96.0	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	853	µg/kg	100	1000		85.3	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	945	µg/kg	30.0	1000		94.5	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	956	µg/kg	30.0	1000		95.6	77-122			
1,2-Dichloroethane (Ethylene dichloride)	917	µg/kg	100	1000		91.7	70-130			
1,2-Dichloropropane	860	µg/kg	30.0	1000		86.0	71-130			
1,3,5-Trimethylbenzene	1000	µg/kg	100	1000		100	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	914	µg/kg	30.0	1000		91.4	78-121			



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2279131

Work Order: HN2515414
Date Collected: NA
Date Received: NA
Run ID: 3607599

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2279131-002			
Method: EPA 8260D		Dilution: 1		Analysis Date: 10/20/25 21:57		Prep Date: 10/16/25 12:59			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
1,3-Dichloropropane	902	µg/kg	30.0	1000		90.2	79-122		
1,4-Dichlorobenzene (p-Dichlorobenzene)	985	µg/kg	30.0	1000		98.5	78-122		
2-Butanone (Methyl ethyl ketone, MEK)	790	µg/kg	200	1000		79.0	47-164		
2-Hexanone	892	µg/kg	30.0	1000		89.2	70-137		
4-Methyl-2-pentanone (MIBK)	1220	µg/kg	30.0	1000		122	57-200		
Acetone	758	µg/kg	100	1000		75.8	52-190		
Benzene	950	µg/kg	30.0	1000		95.0	78-122		
Bromochloromethane	815	µg/kg	30.0	1000		81.5	68-130		
Bromodichloromethane	880	µg/kg	30.0	1000		88.0	75-125		
Bromoform	914	µg/kg	30.0	1000		91.4	59-120		
Carbon disulfide	986	µg/kg	30.0	1000		98.6	60-163		
Carbon tetrachloride	1110	µg/kg	30.0	1000		111	69-123		
Chlorobenzene	946	µg/kg	30.0	1000		94.6	79-120		
Chlorodibromomethane	888	µg/kg	30.0	1000		88.8	57-123		
Chloroethane (Ethyl chloride)	990	µg/kg	100	1000		99.0	38-132		
Chloroform	833	µg/kg	30.0	1000		83.3	72-122		
cis-1,2-Dichloroethylene	843	µg/kg	30.0	1000		84.3	74-125		
cis-1,3-Dichloropropene	842	µg/kg	30.0	1000		84.2	62-124		
Dichlorodifluoromethane (Freon-12)	722	µg/kg	100	1000		72.2	28-137		
Ethylbenzene	992	µg/kg	30.0	1000		99.2	75-121		
Isopropylbenzene	970	µg/kg	30.0	1000		97.0	74-121		
m+p-Xylene	1970	µg/kg	60.0	2000		98.4	67-129		
Methyl bromide (Bromomethane)	1240	µg/kg	100	1000		124	31-169		
Methyl chloride (Chloromethane)	799	µg/kg	100	1000		79.9	24-119		
Methyl tert-butyl ether (MTBE)	969	µg/kg	30.0	1000		96.9	79-139		
Methylene chloride (Dichloromethane)	826	µg/kg	250	1000		82.6	62-135		
o-Xylene	979	µg/kg	30.0	1000		97.9	75-120		
Styrene	914	µg/kg	30.0	1000		91.4	74-126		
Tetrachloroethylene (Perchloroethylene)	1070	µg/kg	30.0	1000		107	76-128		
Toluene	960	µg/kg	30.0	1000		96.0	76-120		
Total Xylene	2950	µg/kg	90.0	3000		98.2	67-129		
trans-1,2-Dichloroethylene	886	µg/kg	30.0	1000		88.6	72-127		
trans-1,3-Dichloropropylene	850	µg/kg	30.0	1000		85.0	66-120		
Trichloroethene (Trichloroethylene)	1010	µg/kg	30.0	1000		101	75-122		
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	1010	µg/kg	30.0	1000		101	51-115		
Vinyl chloride (Chloroethene)	830	µg/kg	30.0	1000		83.0	43-128		

The following samples were analyzed in this batch: HN2515414-001, HN2515414-002, HN2515414-003

ANALYST SUMMARY



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

Work Order: HN2515414

Sample Name: 13726 SB01 (1-2) **Date Collected:** 10/15/25
Laboratory Code: HN2515414-001 **Date Received:** 10/16/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AB	2278958		3593104	Nicole Maleski
EPA 6010D	EPA 3050B	001-AA	2293152	Weston Kotecki	3621340	Denise Coffey
EPA 7471B	Method	001-AA	2288570	Maxx Richey	3616433	Maxx Richey
EPA 8081B	EPA 3546	001-AA	2281831	Rachel Plantinga	3613228	Madison VandenBer
EPA 8082A	EPA 3546	001-AA	2279038	Rachel Plantinga	3610321	Nathaniel Dietlin
EPA 8151A	Method	001-AA	2293135	Rachel Plantinga	3623707	Kathy Malmyga
EPA 8260D	EPA 5035A	001-AC	2279131	Jonathan Vazquez	3616792	Caroline Cox
EPA 8270E	EPA 3546	001-AA	2279011	Rachel Plantinga	3612730	Sam Bruzan
EPA 9056A	EPA 9056A	001-AB	2286473	Quoc Nguyen	3606696	Sage Hansen

Sample Name: 13726 SB02 (3-4) **Date Collected:** 10/15/25
Laboratory Code: HN2515414-002 **Date Received:** 10/16/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AB	2278958		3593104	Nicole Maleski
EPA 6010D	EPA 3050B	002-AA	2293152	Weston Kotecki	3621340	Denise Coffey
EPA 7471B	Method	002-AA	2288570	Maxx Richey	3616433	Maxx Richey
EPA 8081B	EPA 3546	002-AA	2281831	Rachel Plantinga	3613228	Madison VandenBer
EPA 8082A	EPA 3546	002-AA	2290523	Willow Julien	3629414	Quinn Garner
EPA 8151A	Method	002-AA	2293135	Rachel Plantinga	3623707	Kathy Malmyga
EPA 8260D	EPA 5035A	002-AC	2279131	Jonathan Vazquez	3616792	Caroline Cox
EPA 8270E	EPA 3546	002-AA	2279011	Rachel Plantinga	3612730	Sam Bruzan
EPA 9056A	EPA 9056A	002-AB	2286473	Quoc Nguyen	3606696	Sage Hansen

Sample Name: 13726 SB03 (5-6) **Date Collected:** 10/15/25
Laboratory Code: HN2515414-003 **Date Received:** 10/16/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AB	2278958		3593104	Nicole Maleski

ANALYST SUMMARY



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

Work Order: HN2515414

Sample Name: 13726 SB03 (5-6) **Date Collected:** 10/15/25
Laboratory Code: HN2515414-003 **Date Received:** 10/16/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6010D	EPA 3050B	003-AA	2293152	Weston Kotecki	3621340	Denise Coffey
EPA 7471B	Method	003-AA	2288570	Maxx Richey	3616433	Maxx Richey
EPA 8081B	EPA 3546	003-AA	2281831	Rachel Plantinga	3613228	Madison VandenBer
EPA 8082A	EPA 3546	003-AA	2279041	Willow Julien	3605132	Nathaniel Dietlin
EPA 8151A	Method	003-AA	2293135	Rachel Plantinga	3623707	Kathy Malmyga
EPA 8260D	EPA 5035A	003-AC	2279131	Jonathan Vazquez	3616792	Caroline Cox
EPA 8270E	EPA 3546	003-AA	2279011	Rachel Plantinga	3612730	Sam Bruzan
EPA 9056A	EPA 9056A	003-AB	2286473	Quoc Nguyen	3606696	Sage Hansen



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	13726 Sparling	A VOCs (U.S. EPA Method 8260C (or Method 8260))															
Work Order	Quote ID - 11631	Project Number	DETR0060	B SVOCs (U.S. EPA Method 8270D (or Method 8270))															
Company Name	The Mannik and Smith Group	Bill To Company	The Mannik and Smith Group	C PCBs (U.S. EPA Method 8082)															
Send Report To	Ryan Montri	Invoice Attn.		D Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)															
Address	2365 Haggerty Rd South Suite 100	Address	2365 Haggerty Rd South Suite 100	E Chlorides (U.S. EPA Method 9056A)															
				F Pesticides (U.S. EPA Method 8081B (or Method 8081))															
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188	G Herbicides (U.S. EPA Method 8151A (or Method 8151))															
Phone	734-397-3100	Phone	734-397-3100	H Put on Hold - TCLP Pending Data															
Fax		Fax		I															
e-Mail Address	RMontri@manna-smithgroup.com	e-Mail Address		J															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	13726 SB01 (1-2)	10/15/25	09:17	Soil	7	4	X	X	X	X	X	X	X						
2	13726 SB02 (3-4)		09:38	Soil	7	4	X	X	X	X	X	X	X						
3	13726 SB03 (5-6)		09:55	Soil	7	4	X	X	X	X	X	X	X						
4	13726 Sparling SB-1,2,3(0-6)COMP		10:05	Soil		2								X			X		
5																			
6																			
7																			
8																			
9																			
10																			
Sampler(s): Please Print & Sign Savannah Hazzard		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour															
Relinquished by: Ryan Montri	Date: 10/15/25	Time: 1326	Received by: Edmund Bosnjak	Notes: Quote# HN-061825-M&S-MJ															
Relinquished by: Edmund Bosnjak	Date: 10-15-25	Time: 1408	Received by (Laboratory):	Cooler Temp. 5.7C															
Logged by (Laboratory):	Date: 10/16/25	Time: 0925	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 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
HN2515414

Telephone : +1 616 399 6070

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Please click the link below for detailed Terms & Conditions:

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

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ALS Holland Sample Receiving Checklist

Received by:

Olyssa B

Date/Time:

10/16/25 1800

Carrier Name:

OS

Shipping container/cooler in good condition?

☒ Yes / No / Not Present

Custody seals intact on shipping container/cooler?

Yes / No / Not ☒ Present

Custody seals intact on sample bottles?

Yes / ☒ No / Not Present

Chain of Custody present?

☒ Yes / No

COC signed when relinquished and received?

☒ Yes / No

COC agrees with sample labels?

☒ Yes / No

Samples in proper container/bottle?

☒ Yes / No

Sample containers intact?

☒ Yes / No

Sufficient sample volume for indicated test?

☒ Yes / No

All samples received within holding time?

☒ Yes / No

Container/Temp Blank temperature in compliance?

☒ Yes / No

Temperature(s) (°C):

5.7c / 5.7c

Thermometer(s):

1K6

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

Soil

Cooler(s)/Kit(s):

—

Date/Time sample(s) sent to storage:

10/16/25 0925

Water – VOA vials have zero headspace?

Yes / No / ☒ No Vials

Water – pH acceptable upon receipt?

Yes / No / ☒ N/ApH strip lot #: < 2 > 12 Other

pH adjusted (note adjustments below)?

Yes / No / ☒ N/A

pH adjusted by:

Login Notes: