

DRAFT

FILL MATERIAL SAMPLING REPORT

18441 ST. LOUIS STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48234



FEBRUARY 18, 2026
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PREPARED FOR:
THE CITY OF DETROIT DEMOLITION DEPARTMENT
1301 THIRD STREET, SUITE 606
DETROIT, MICHIGAN 48226



FILL MATERIAL SAMPLING REPORT

18441 ST. LOUIS STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48234

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 18441 St. Louis 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 18441 SB01, 18441 SB02, and 18441 SB03 generally consisted of brown to dark brown and gray sand and silty clay to six (6) feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris was observed in 18441 SB01, 18441 SB02, and 18441 SB03.
- Concentrations of arsenic, chromium (Total), and mercury were detected in soil samples 18441 SB02 (3-4')_20260122, 18441 SB03 (5-6')_20260122, and/or 18441 DUP-1_20260122 in excess of Part 201 groundwater surface water interface protection criteria (GSI PC), drinking water protection criteria (DWPC), and/or direct contact criteria (DCC).
- Concentrations of mercury were detected in soil sample 18441 SB03 (5-6')_20260122 in excess of soil volatilization to indoor air pathway (SVIAP).
- Concentrations of 1-methylnaphthalene, 2-methylnaphthalene, 3 & 4-methylphenol, 4,4'-DDE, alpha-chlordane, anthracene, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, beta-chlordane bis(2-ethylhexyl) phthalate, cadmium, chlordane technical, chloride, chrysene, copper, cresols (Total), fluoranthene, heptachlor epoxide, indeno(1,2,3-cd)pyrene, lead, mercury, naphthalene, phenanthrene, pyrene and zinc were detected in soil samples 18441 SB01 (1-2')_20260122, 18441 SB02 (3-4')_20260122, and/or 18441 SB03 (5-6')_20260122 at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- Toxicity Characteristic Leaching Procedure (TCLP) laboratory analytical results revealed that concentrations of pesticides and lead were not in excess of 40 C.F.R. § 261.24 Title 40 - *Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste*.
- VOCs, PCBs, and herbicides were not detected above laboratory method detection reporting limits.

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

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

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

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 18441 St. Louis 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, February 25, 2026, and April 6, 2026. This report presents the findings of this investigation. Soil samples were collected by MSG on January 22, 2026. The findings of this report are valid as of the report date, subject to the limitations presented in *Appendix A, Limitations*.

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

2.0 PURPOSE AND SCOPE OF WORK

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

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

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

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

3.0 SITE ASSESSMENT METHODOLOGY

The following subsections describe the methodologies employed by MSG at the Site during sampling activities that were conducted on January 22, 2026, February 25, 2026, and April 6, 2026. Daily field activity reports prepared by MSG are presented in *Appendix B, Daily Field Reports*.

3.1 Preliminary Site Work Activities

Prior to conducting subsurface soil sampling activities, MSG contacted the MISSDIG utility locating system to identify and physically mark underground utilities. If necessary, proposed soil boring locations were modified based on the results of the utility markings. Additionally, MSG reviewed readily available Site building records or documents to ensure that this scope of work was conducted on the correct property and in the areas of the former Site structure.

3.2 Soil Sample Collection

The sampling plan for the Site was based on the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and modified in the field (if necessary) based on encountered conditions and professional judgment of MSG's field personnel. MSG advanced three (3) soil borings, designated 18441 SB01, 18441 SB02, and 18441 SB03, using a direct push drill rig at the locations depicted on Figure 2. Photographs collected during the completion of this work are provided in *Appendix C, Investigation Photographs*.

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

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

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

3.3 Toxicity Characteristic Leaching Procedure (TCLP) Soil Sample Collection

On February 25, 2026, and April 6, 2026, MSG mobilized to the Site to collect an additional soil sample based on request from the COD. Sample location and analyte(s) were based on the laboratory results of the initial soil investigation. MSG personnel advanced one soil boring in the immediate vicinity of the soil boring location that exhibited the highest laboratory result(s) in excess of Part 201 GRCC and/or applicable Toxicity Characteristic Constituents and Regulatory Levels. Soils were continuously profiled from the ground surface to the termination depth of six feet bgs using a direct push drill rig. The soil sample was placed into unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses.

3.4 Decontamination

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

3.5 Analytical Methods

A total of four (4) soil samples designated 18441 SB01 (1-2')_20260122, 18441 SB02 (3-4')_20260122, 18441 SB03 (5-6')_20260122, and 18441 DUP-1_20260122 were collected as part of this investigation. These soil samples were submitted to ALS Environmental Laboratory (ALS) in Holland, Michigan for laboratory analysis of the following

parameters per the requested parameters as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and individual TCLP analysis:

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

3.6 Quality Assurance/Quality Control

Quality assurance and quality control (QA/QC) was achieved in the field by using MSG's standard operating procedures (SOPs) for sample collection, sample screening, sample preservation, and chain-of-custody protocols to ensure sample integrity. One (1) duplicate soil sample (18441 DUP-1_20260122) was collected by MSG, which corresponds with soil sample 18441 SB03 (5-6')_20260122. The data associated with the duplicate soil sample was used to demonstrate a generally acceptable degree of precision with respect to the analyzed parameters.

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

4.0 SUMMARY OF RESULTS

The following subsections include a discussion of the soil samples that were collected from the Site on January 22, 2026.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 18441 SB01, 18441 SB02, and 18441 SB03 generally consisted of brown to dark brown and gray sand and silty clay to six (6) feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris was observed in 18441 SB01, 18441 SB02, and 18441 SB03.

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

4.2 Soil Sample Analytical Results

Four (4) soil samples, designated 18441 SB01 (1-2')_20260122, 18441 SB02 (3-4')_20260122, 18441 SB03 (5-6')_20260122, and 18441 DUP-1_20260122 were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration (µg/kg ¹)	Maximum Detected Concentration (µg/kg)
Arsenic	7440-38-2	18441 SB02 (3-4)_20260122 18441 SB03 (5-6)_20260122 18441 DUP-1_20260122	GSIPC ² / 4,600 DWPC ³ / 4,600 DCC ⁴ / 7,600	10,600
Chromium (Total)	7440-47-3	18441 SB03 (5-6)_20260122 18441 DUP-1_20260122	GSIPC / 3,300 DWPC / 30,000	68,800
Mercury	7439-97-6	18441 SB03 (5-6)_20260122	GSIPC / 50(M;1.2)	134

¹µg/kg – micrograms per kilogram;

²GSIPC – Groundwater Surface Water Interface Protection Criteria

³DWPC – Drinking Water Protection Criteria

⁴DCC – Direct Contact Criteria

4.3 TCLP Analytical Results

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

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

4.4 Exposure Evaluation

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

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

5.0 FINDINGS

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

- The stratigraphy encountered during soil boring advancement of 18441 SB01, 18441 SB02, and 18441 SB03 generally consisted of brown to dark brown and gray sand and silty clay to six (6) feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris was observed in 18441 SB01, 18441 SB02, and 18441 SB03.

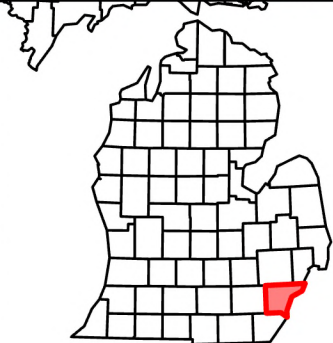
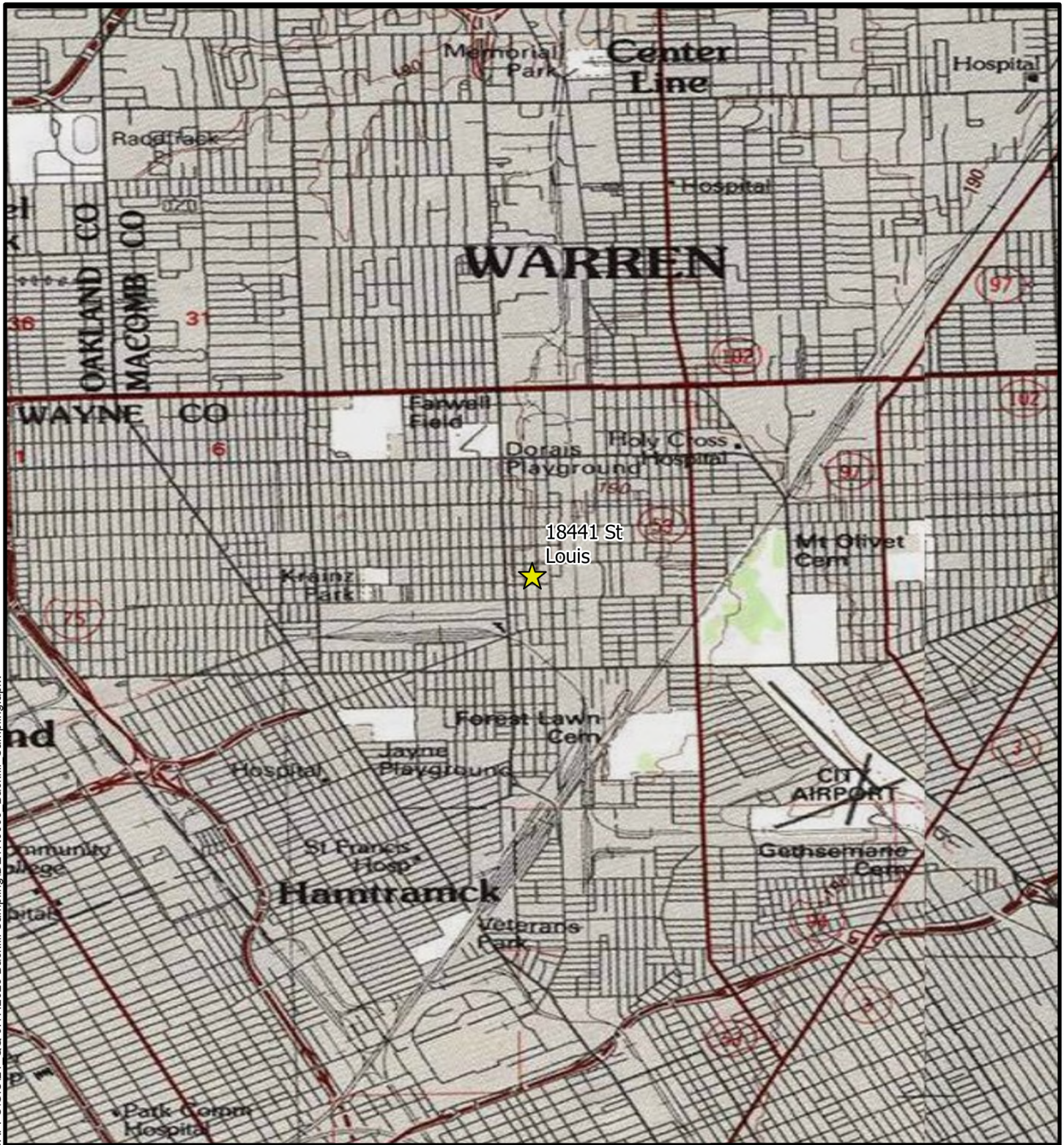
- Concentrations of arsenic, chromium (Total), and mercury were detected in soil samples 18441 SB02 (3-4')_20260122, 18441 SB03 (5-6')_20260122, and/or 18441 DUP-1_20260122 in excess of Part 201 GSIPC, DWPC, and/or DCC.
- Concentrations of mercury were detected in soil sample 18441 SB03 (5-6')_20260122 in excess of SVIAP.
- Concentrations of 1-methylnaphthalene, 2-methylnaphthalene, 3 & 4-methylphenol, 4,4'-DDE, alpha-chlordane, anthracene, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, beta-chlordane bis(2-ethylhexyl) phthalate, cadmium, chlordane technical, chloride, chrysene, copper, cresols (Total), fluoranthene, heptachlor epoxide, indeno(1,2,3-cd)pyrene, lead, mercury, naphthalene, phenanthrene, pyrene and zinc were detected in soil samples 18441 SB01 (1-2')_20260122, 18441 SB02 (3-4')_20260122, and/or 18441 SB03 (5-6')_20260122 at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- TCLP laboratory analytical results revealed that concentrations of pesticides and lead were not in excess of 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste.
- VOCs, PCBs, and herbicides were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Since the building on site has been razed, the soil volatilization to indoor air pathway is not currently complete, however, consideration may need to be given to this pathway if future construction is planned. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

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

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

FIGURES





★ Site Location



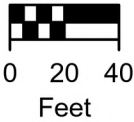
FIGURE 1
SITE LOCATION

18441 St Louis, Detroit, MI

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



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



FIGURE 2
Site Layout

18441 St Louis, Detroit, MI

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



Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
18441 St Louis, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 and Volatilization to Indoor Air Pathway Screening Levels Revised February 26, 2024			Inorganic Anions/Ions	Metals							Pesticides					
			Chloride	Arsenic (B)	Barium (B)	Cadmium (B)	Chromium, Total (B)	Copper (B)	Lead (B)	Mercury (B)	Zinc (B)	Alpha-Chlordane	Beta-Chlordane	Chlordane, technical	Heptachlor Epoxide	4,4'-DDE
CAS Number			16887-00-6	7440-38-2	7440-39-3	7440-43-9	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7440-66-6	5103-71-9	5103-74-2	12789-03-6	1024-57-3	72-55-9
Units			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Statewide Default Background Levels			NC	5,800	75,000	1,200	18,000	32,000	21,000	130	47,000	NC	NC	NC	NC	NC
Drinking Water Protection Criteria (DWPC)			5.00E+06	4,600	1.30E+06	6,000	30,000	5.80E+06	7.00E+05	1,700	2.40E+06	NC	NC	NC	NLL	NLL
Groundwater Surface Water Interface Protection Criteria (GSIPC)			NC	4,600	4.40E+05 ^(G)	3,600 ^(G)	3,300	75,000 ^(G)	6.00E+06 ^(G)	50 ^(M,1,2)	1.60E+05	NC	NC	NC	NLL	NLL
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NC	NLV	NLV	NLV	NC	NLV	NLV	48,000	NC	NC	NC	NC	NLV	NLV
Soil Volatilization to Indoor Air Pathway (SVIAP)			NC	NC	NC	NC	NC	NC	NC	22 ^(M)	NC	NC	NC	NC	NC	39,000
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NC	NLV	NLV	NLV	NC	NLV	NLV	52,000	NC	NC	NC	NC	NLV	NLV
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NC	NLV	NLV	NLV	NC	NLV	NLV	52,000	NC	NC	NC	NC	NLV	NLV
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NC	NLV	NLV	NLV	NC	NLV	NLV	52,000	NC	NC	NC	NC	NLV	NLV
Particulate Soil Inhalation Criteria (PSIC)			NC	7.20E+05	3.30E+08	1.70E+06	2.60E+05	1.30E+08	1.00E+08	2.00E+07	NC	NC	NC	NC	1.20E+06	3.20E+07
Direct Contact Criteria (DCC)			5.00E+05	7,600	3.70E+07	5.50E+05	2.50E+06	2.00E+07	4.00E+05	1.60E+05	1.70E+08	NC	NC	NC	3,100	45,000
Soil Saturation Concentration Screening Levels (Csat)			NC	NA	NA	NA	NC	NA	NA	NA	NC	NC	NC	NC	NA	NA
Sample ID	Sample Depth (ft)	Sample Date														
18441 SB01	1.0 - 2.0	01/22/2026	23,000	5,670	67,100	<223	13,800	11,600	14,300	24.4	40,500	29.7 S	24.6	161	<13.5	<13.4
18441 SB02	3.0 - 4.0	01/22/2026	15,900	5,880	32,200	<174	6,910	8,990	10,700	<13.6	28,200	26.8	22	141	<12.4	<12.3
18441 SB03	5.0 - 6.0	01/22/2026	<3,830	10,600	76,500	1,620	68,800	26,100	102,000	134	142,000	34.4	<17.8	169	<17.8	66.8
18441 SB03 (18441 DUP-1)	5.0 - 6.0	01/22/2026	<3,810	8,570	44,300	<192	50,700	21,600 S	58,400	45.7	90,900	132	<18	767	30.5	54.3

Notes

Only parameters with one or more detections are shown.

ug/kg = Micrograms per Kilogram.

Exceeds Generic Drinking Water Protection Criteria.

Exceeds Groundwater Surface Water Interface Protection Criteria.

Exceeds Applicable Soil Vapor Inhalation Criteria/Screening Levels.

Exceeds Two or More DWPC, 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.

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

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

Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
18441 St Louis, 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			Semivolatile Organic Compounds (SVOCs)																
			1-Methylnaphthalene	2-Methylnaphthalene	3 & 4-Methylphenol	Anthracene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Bis(2-ethylhexyl) phthalate	Chrysene	Cresols, Total	Fluoranthene	Indeno(1,2,3-Cd)Pyrene	Naphthalene	Phenanthrene	Pyrene
CAS Number			90-12-0	91-57-6	65794-96-9	120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	117-81-7	218-01-9	1319-77-3	206-44-0	193-39-5	91-20-3	85-01-8	129-00-0
Units			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Statewide Default Background Levels			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Drinking Water Protection Criteria (DWPC)			NC	57,000	NC	41,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7,400	7.30E+05	NLL	35,000	56,000	4.80E+05
Groundwater Surface Water Interface Protection Criteria (GSIPC)			NC	4,200	NC	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	1000 ^(M,600)	5,500	NLL	730	2,100	ID
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NC	2.70E+06	NC	1.00E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	NLV	1.00E+09	NLV	2.50E+05	2.80E+06	1.00E+09
Soil Volatilization to Indoor Air Pathway (SVIAP)			NC	1,700	NC	1.30E+07	1.60E+05 ^(M)	NC	NC	NC	NC	NC	NC	NC	NC	NC	67 ^(M)	1,700	2.50E+07
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NC	1.50E+06	NC	1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	NLV	7.40E+08	NLV	3.00E+05	1.60E+05	6.50E+08
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NC	1.50E+06	NC	1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	NLV	7.40E+08	NLV	3.00E+05	1.60E+05	6.50E+08
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NC	1.50E+06	NC	1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	NLV	7.40E+08	NLV	3.00E+05	1.60E+05	6.50E+08
Particulate Soil Inhalation Criteria (PSIC)			NC	6.70E+08	NC	6.70E+10	ID	1.50E+06	ID	8.00E+08	ID	7.00E+08	ID	6.70E+09	9.30E+09	ID	2.00E+08	6.70E+06	6.70E+09
Direct Contact Criteria (DCC)			NC	8.10E+06	NC	2.30E+08	20,000	2,000	20,000	2.50E+06	2.00E+05	2.80E+06	2.00E+06	1.10E+07	4.60E+07	20,000	1.60E+07	1.60E+06	2.90E+07
Soil Saturation Concentration Screening Levels (Csat)			NC	NA	NC	NA	NA	NA	NA	NA	NA	1.00E+07	NA	NA	NA	NA	NA	NA	NA
Sample ID	Sample Depth (ft)	Sample Date																	
18441 SB01	1.0 - 2.0	01/22/2026	<14.6	<10.3	<55.4	<14.3	28.5	26.4	38.6	20.3	<15.4	<84.1	<16.4	<27.5	36.6	26.4	<13	<9.45	36.6
18441 SB02	3.0 - 4.0	01/22/2026	82.2	111	<49.8	31.1	248	270	349	185	135	<75.6	276	<24.7	482	210	45.7	223	528
18441 SB03	5.0 - 6.0	01/22/2026	<14	<9.92	365	<13.7	50.7	50.7	97.5	41	97.5	111	42.9	365	80	50.7	<12.5	39	83.9
18441 SB03 (18441 DUP-1)	5.0 - 6.0	01/22/2026	<13	<9.18	448	<12.7	59.6	63.2	95.7	48.7	28.9	108	65	448	110	56	<11.5	46.9	110

Notes

Only parameters with one or more detections are shown.

ug/kg = Micrograms per Kilogram.

Exceeds Generic Drinking Water Protection Criteria.

Exceeds Groundwater Surface Water Interface Protection Criteria.

Exceeds Applicable Soil Vapor Inhalation Criteria/Screening Levels.

Exceeds Two or More DWPC, 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.

Part 201 GSIPC Hardness specific criteria (G) calculated using a regional hardness value

of the lower portion of the lower peninsula, 150 mg CaCO3/L.

Notes in parentheses and standard abbreviations from Part 201 Rules 299.1

through 299.50, updated October 12, 2023.

Table 2
TCLP Analytical Detection Summary

Table 2
TCLP Analytical Detection Summary

Detroit Backfill Sampling
18441 St Louis, Detroit, Michigan

40 C.F.R. § 261.24 Code of Federal Regulations Title 40 - Protection of Environment Chapter I - Environmental Protection Agency Subchapter I - Solid Wastes Part 261- Identification and Listing of Hazardous Waste Subpart C - Characteristics of Hazardous Waste <i>Units: mg/L</i>		TCLP Metals	TCLP Pesticides						
		Lead (B)	Chlordane	Endrin	Lindane	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
Maximum Concentration of Contaminants for the Toxicity Characteristic		5.00	0.03	0.02	0.4	0.008	0.008	10.0	0.5
SAMPLE ID	SAMPLE DATE								
18441 TCLP SB03 (5-6')_20260225	2/25/2026	NS	0.0000534	<0.00000861	<0.00000842	<0.00000769	0.0000277	<0.0000100	<0.000111
18441 TCLP SB03 (5-6')_20260406	4/6/2026	<0.00220	NS	NS	NS	NS	NS	NS	NS

Notes:
Bold indicates concentration above method detection limits.
Exceeds Maximum Concentration of Contaminates for the Toxicity Characteristic

APPENDIX A

LIMITATIONS



LIMITATIONS

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

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

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

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

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

APPENDIX B

DAILY FIELD REPORTS



**DAILY FIELD REPORT**

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

Report No.: 1
Job No.: DETR0060

Date: 01/22/2026	Day: Thursday	Temp: N/A (AM) 27° (PM)
MSG Personnel: JDF, WRD, KDW	Cloud Cover: N/A (AM) ~75% (PM)	Precip.: N/A (AM) N/A (PM)
Personnel: MSG		Windy/Gusty ~10-20 MPH
MSG Hours On-Site: ~ 1.5 hour		

Contractors Information

Contractor: MSG	No. Men and Type: 3; Operator/ Geologist /Helper	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:

- 1332 – MSG onsite (18441 St Louis)
- 1335 – Unloaded equipment and marked out boring locations
- 1338 – Began drilling SB01
- 1344 – Finished drilling SB01
- 1345 – Began drilling SB02
- 1349 – Finished drilling SB02
- 1350 – Began drilling SB03
- 1354 – Finished drilling SB03
- 1359 – MSG screens soils prior to sampling
- 1407 – Sampled 18441 SB01 (1-2')
- 1415 – Sampled 18441 SB02 (3-4')
- 1424 – Sampled 18441 SB03 (5-6') (18441 DUP-1_20260122 @1430)
- 1458 – Packed up equipment
- 1508 – 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 ☐

**DAILY FIELD REPORT**

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

Report No.: 2
Job No.: DETR0060

Date: 02/25/2026	Day: Wednesday	Temp: 27° F	(AM)	N/A	(PM)
MSG Personnel: WRD, MW		Cloud Cover: 75%	(AM)	N/A	(PM)
		Precip.: N/A	(AM)	N/A	(PM)
Personnel: MSG					
MSG Hours On-Site: ~ 0.5 hour					

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

Summary of Work Performed:

- Advanced one soil boring to a maximum depth of 6 feet below ground surface (bgs)
- Collected one soil sample from soil boring SB03 (5-6') to submit for TCLP analysis.

Field Notes:

- 1040 – MSG onsite (18441 St Louis)
- 1055 – Sampled 18441 TCLP SB03 (5-6')_20260225
- 1105 – MSG off site

Supporting Documentation

	Yes	No		Yes	No		Yes	No
Photograph Taken	☒	☐	Samples Collected	☒	☐	Boring/MW Logs	☒	☐
Photo Log Attached	☒	☐	COC Attached	☒	☐	Field Note Book Taken	☐	☒

Problem Identification and Corrective Measures

N/A

Resolved? Yes ☐ No ☐



DAILY FIELD REPORT

Client: City of Detroit Demolition Department

Project: Sampling and Analysis of Fill Material

Report No.: 3

Job No.: DETR0060

Date: 04/06/2026	Day: Monday	Temp: 43° F	(AM)	N/A	(PM)
MSG Personnel: ERR, KW, JF		Cloud Cover: 0%	(AM)	N/A	(PM)
		Precip.: N/A	(AM)	N/A	(PM)

Personnel: MSG

MSG Hours On-Site: ~ 0.5 hour

Contractors Information

Contractor:

MSG

No. Men and Type:

3; Geologist\Helper\Operator

Equipment Type:

Geoprobe 7822DT

Summary of Work Performed:

- Advanced one soil boring to a maximum depth of 6 feet below ground surface (bgs)
- Collected one soil sample from soil boring SB03 (5-6') to submit for TCLP analysis.

Field Notes:

- 1050 – MSG onsite (18441 St Louis)
- 1105 – Sampled 18441 TCLP SB03 (5-6')_20260406
- 1115 – MSG off site

Supporting Documentation

	Yes	No		Yes	No		Yes	No
Photograph Taken	☒	☐	Samples Collected	☒	☐	Boring/MW Logs	☒	☐
Photo Log Attached	☒	☐	COC Attached	☒	☐	Field Note Book Taken	☐	☒

Problem Identification and Corrective Measures

N/A

Resolved? Yes ☐ No ☐

APPENDIX C

INVESTIGATION PHOTOGRAPHS





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



Photo 2: View of the Site pre-drilling, facing northeast.



Photo 3: Viewing drilling at 18441 SB01, facing northeast.



Photo 4: View of drilling at 18441 SB02, facing northeast.

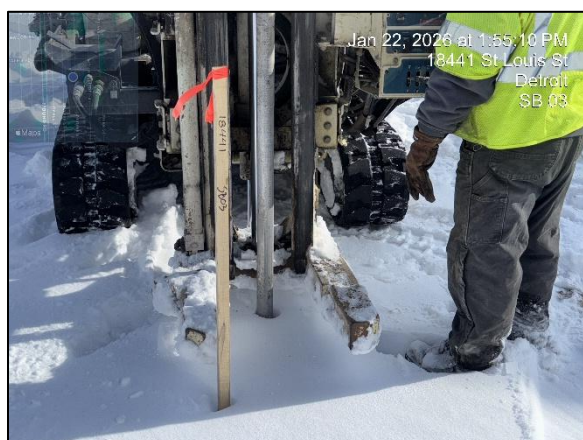


Photo 5: Viewing drilling at 18441 SB03 facing northeast.



Photo 6: View of 18441 SB01, SB02, SB03 soil recovery



Photo 7: Viewing 18441 Site post-drilling, facing northwest



Photo 8: View of the Site at the time of TCLP soil sampling activities, facing west.



Photo 9: View of the Site at the time of TCLP soil sampling activities, facing west.



Photo 10: View of drilling at 18441 SB03 TCLP, facing north.



Photo 11: Viewing 18441 SB03 TCLP Recovery, facing north.



Photo 12: View of the Site at the time of TCLP soil sampling activities, facing west.

APPENDIX D

SOIL BORING LOGS





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

BOREHOLE NUMBER SB02

Sheet 1 of 1

CLIENT City of Detroit

PROJECT NAME Backfill Soil Sampling

PROJECT NUMBER DETR0060_18441 St Louis

PROJECT LOCATION 18441 St Louis, Detroit, MI

DATE STARTED 01-22-2026 **COMPLETED** 01-22-2026

POSITION

DRILLING CONTRACTOR MSG

SURFACE ELEVATION **FINAL DEPTH** 6.0 ft

DRILLING METHOD Direct Push

LOGGED BY WRD **CHECKED BY** SCD

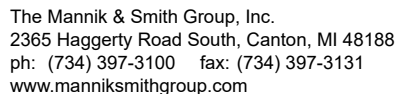
EQUIPMENT Geoprobe 7822DT **Operator** JF

REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
				Brown, Silty SAND, Trace Clay, Dry	0	
					0	
				2.8		
ES		46		CONCRETE	0	Collected Soil Sample 18441 SB-02(3-4') _20260122 at 1415
				3.0		
				Brown, Gravelly SAND, Some Silt and Clay, Dry	0	
					0	
5					0	
					0	
				6.0		
				Terminated at 6.00 ft.		
10						

LEGEND:

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



Sheet 1 of 1

REMARKS

LEGEND:

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

APPENDIX E

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

January 30, 2026

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

Re: **18441 St Louis**

Date Received: **01/23/2026**

Work Order: **HN2601088**

Dear Ryan,

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

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

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

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

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

Kathy Jones-Gronda

/S/ KATHY JONES-GRONDA

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis

Work Order: HN2601088
Date Received: 23-Jan-2026

CASE NARRATIVE

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

Sample Receipt

4 soil/solid samples were received for analysis at ALS Environmental on 23-Jan-2026. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

WorkOrder: HN2601088

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

Organics

EPA 8270E-FULL HN-3546-S

Run ID: 3846362

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

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

Run ID: 3842243

Parent Sample HN2601088-002: QC-2428124-006: The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for the following analyte(s): 1,1,2,2-tetrachloroethane, chloroethane.

Parent Sample HN2601088-002:QC-2428124-006: The MSD recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary. tetrachloroethene, trichloroethene.

Parent Sample HN2601088-002: The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: 2-nitropropane, methyl methacrylate.

The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification:Chloroethane (Ethyl chloride), Dichlorodifluoromethane (Freon-12), Trichlorofluoromethane (Fluorotrichloromethane, Freon 11), Vinyl chloride (Chloroethene).

Parent Sample HN2601088-002: QC-2428124-005: The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: see qc report.

Parent Sample HN2601088-002: QC-2428124-005: The MS recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary: tetrachloroethene.

Run ID: 3843831

The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification:Carbon disulfide, Chloroethane (Ethyl chloride), Dichlorodifluoromethane (Freon-12), Methyl bromide (Bromomethane), Methyl chloride (Chloromethane), Trichlorofluoromethane (Fluorotrichloromethane, Freon 11), Vinyl chloride (Chloroethene)

EPA 8081B-3546-S (High)

Run ID: 3846260

Parent Sample HN2601088-001: The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: cis-Chlordane

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

HN2601088-001: One or more surrogate recoveries were below the lower control limits. The sample results may be biased low.

Metals**EPA 6020B-3050B-S****Run ID: 3849618**

Parent Sample HN2601088-004: The MS/MSD recoveries were above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Cu batch 2433992

Parent Sample HN2601088-004: The MS/MSD recoveries were outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba Cr Pb Zn batch 2433992

The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: Cr, Pb, Zn prep batch 2433992

Sample HN2601026-004: The reporting limits are elevated for Cd, Se and Ag due to the dilutions needed for high concentrations of non-target analytes.

Run ID: 3846904

Samples HN2601088-001 and -002: The reporting limits are elevated for Cd, Se and Ag due to the dilutions needed for high concentrations of non-target analytes.

Sample HN2601088-003: The reporting limits are elevated for Se and Ag due to the dilutions needed for high concentrations of non-target analytes.

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: 18441 SB01 (1-2')_20260122			Lab ID: HN2601088-001		
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Analyte	Results	Flag	MRL	Units	Method
Arsenic	5.67		3.71	mg/kg	EPA 6020B
Barium	67.1		3.71	mg/kg	EPA 6020B
Benzo(a)anthracene	28.5		20.3	µg/kg	EPA 8270E
Benzo(a)pyrene	26.4		20.3	µg/kg	EPA 8270E
Benzo(b)fluoranthene	38.6		20.3	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	20.3		20.3	µg/kg	EPA 8270E
Chlordane, Technical	161		51.0	µg/kg	EPA 8081B
Chloride	23.0		12.9	mg/kg	EPA 9056A
Chromium	13.8		3.71	mg/kg	EPA 6020B
cis-Chlordane	29.7	S	20.4	µg/kg	EPA 8081B
Copper	11.6		3.71	mg/kg	EPA 6020B
Fluoranthene	36.6		20.3	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	26.4		20.3	µg/kg	EPA 8270E
Lead	14.3		3.71	mg/kg	EPA 6020B
Mercury	0.0244		0.0200	mg/kg	EPA 7471B
Percent Moisture	18.3		0.1	%	EPA 3550C
Pyrene	36.6		20.3	µg/kg	EPA 8270E
trans-Chlordane	24.6		20.4	µg/kg	EPA 8081B
Zinc	40.5		7.42	mg/kg	EPA 6020B

CLIENT ID: 18441 SB02 (3-4')_20260122			Lab ID: HN2601088-002		
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Analyte	Results	Flag	MRL	Units	Method
1-Methylnaphthalene	82.2		18.3	µg/kg	EPA 8270E
2-Methylnaphthalene	111		18.3	µg/kg	EPA 8270E
Anthracene	31.1		18.3	µg/kg	EPA 8270E
Arsenic	5.88		2.90	mg/kg	EPA 6020B
Barium	32.2		2.90	mg/kg	EPA 6020B
Benzo(a)anthracene	248		18.3	µg/kg	EPA 8270E
Benzo(a)pyrene	270		18.3	µg/kg	EPA 8270E
Benzo(b)fluoranthene	349		18.3	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	185		18.3	µg/kg	EPA 8270E
Benzo(k)fluoranthene	135		18.3	µg/kg	EPA 8270E
Chlordane, Technical	141		46.8	µg/kg	EPA 8081B
Chloride	15.9		12.2	mg/kg	EPA 9056A
Chromium	6.91		2.90	mg/kg	EPA 6020B
Chrysene	276		18.3	µg/kg	EPA 8270E
cis-Chlordane	26.8		18.7	µg/kg	EPA 8081B
Copper	8.99		2.90	mg/kg	EPA 6020B
Fluoranthene	482		18.3	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	210		18.3	µg/kg	EPA 8270E
Lead	10.7		2.90	mg/kg	EPA 6020B

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: 18441 SB02 (3-4')_20260122	Lab ID: HN2601088-002
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Analyte	Results	Flag	MRL	Units	Method
Naphthalene	45.7		18.3	µg/kg	EPA 8270E
Percent Moisture	11.0		0.1	%	EPA 3550C
Phenanthrene	223		18.3	µg/kg	EPA 8270E
Pyrene	528		18.3	µg/kg	EPA 8270E
trans-Chlordane	22.0		18.7	µg/kg	EPA 8081B
Zinc	28.2		5.79	mg/kg	EPA 6020B

CLIENT ID: 18441 SB03 (5-6')_20260122	Lab ID: HN2601088-003
--	------------------------------

Analyte	Results	Flag	MRL	Units	Method
3&4-Methylphenol	365		96.5	µg/kg	EPA 8270E
4,4'-DDE	66.8		26.9	µg/kg	EPA 8081B
Arsenic	10.6		3.67	mg/kg	EPA 6020B
Barium	76.5		3.67	mg/kg	EPA 6020B
Benzo(a)anthracene	50.7		19.5	µg/kg	EPA 8270E
Benzo(a)pyrene	50.7		19.5	µg/kg	EPA 8270E
Benzo(b)fluoranthene	97.5		19.5	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	41.0		19.5	µg/kg	EPA 8270E
Benzo(k)fluoranthene	97.5		19.5	µg/kg	EPA 8270E
Cadmium	1.62		1.47	mg/kg	EPA 6020B
Chlordane, Technical	169		67.1	µg/kg	EPA 8081B
Chromium	68.8		3.67	mg/kg	EPA 6020B
Chrysene	42.9		19.5	µg/kg	EPA 8270E
cis-Chlordane	34.4		26.9	µg/kg	EPA 8081B
Copper	26.1		3.67	mg/kg	EPA 6020B
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	111		96.5	µg/kg	EPA 8270E
Fluoranthene	80.0		19.5	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	50.7		19.5	µg/kg	EPA 8270E
Lead	102		3.67	mg/kg	EPA 6020B
Mercury	0.134		0.0223	mg/kg	EPA 7471B
Methylphenol, Total	365		96.5	µg/kg	EPA 8270E
Percent Moisture	17.5		0.1	%	EPA 3550C
Phenanthrene	39.0		19.5	µg/kg	EPA 8270E
Pyrene	83.9		19.5	µg/kg	EPA 8270E
Zinc	142		7.34	mg/kg	EPA 6020B

CLIENT ID: 18441 DUP-1_20260122	Lab ID: HN2601088-004
--	------------------------------

Analyte	Results	Flag	MRL	Units	Method
3&4-Methylphenol	448		89.4	µg/kg	EPA 8270E
4,4'-DDE	54.3		27.2	µg/kg	EPA 8081B
Arsenic	8.57		3.20	mg/kg	EPA 6020B
Barium	44.3		3.20	mg/kg	EPA 6020B

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: 18441 DUP-1_20260122

Lab ID: HN2601088-004

Analyte	Results	Flag	MRL	Units	Method
Benzo(a)anthracene	59.6		18.1	µg/kg	EPA 8270E
Benzo(a)pyrene	63.2		18.1	µg/kg	EPA 8270E
Benzo(b)fluoranthene	95.7		18.1	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	48.7		18.1	µg/kg	EPA 8270E
Benzo(k)fluoranthene	28.9		18.1	µg/kg	EPA 8270E
Chlordane, Technical	767		67.9	µg/kg	EPA 8081B
Chromium	50.7		3.20	mg/kg	EPA 6020B
Chrysene	65.0		18.1	µg/kg	EPA 8270E
cis-Chlordane	132		27.2	µg/kg	EPA 8081B
Copper	21.6	S	3.20	mg/kg	EPA 6020B
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	108		89.4	µg/kg	EPA 8270E
Fluoranthene	110		18.1	µg/kg	EPA 8270E
Heptachlor epoxide	30.5		27.2	µg/kg	EPA 8081B
Indeno(1,2,3-cd) pyrene	56.0		18.1	µg/kg	EPA 8270E
Lead	58.4		3.20	mg/kg	EPA 6020B
Mercury	0.0457		0.0211	mg/kg	EPA 7471B
Methylphenol, Total	448		89.4	µg/kg	EPA 8270E
Percent Moisture	10.8		0.1	%	EPA 3550C
Phenanthrene	46.9		18.1	µg/kg	EPA 8270E
Pyrene	110		18.1	µg/kg	EPA 8270E
Zinc	90.9		6.41	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Workorder: HN2601088

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2601088-001	18441 SB01 (1-2')_20260122	SOIL/SOLID	01/22/26 14:07	01/23/26 06:00
HN2601088-002	18441 SB02 (3-4')_20260122	SOIL/SOLID	01/22/26 14:15	01/23/26 06:00
HN2601088-003	18441 SB03 (5-6')_20260122	SOIL/SOLID	01/22/26 14:24	01/23/26 06:00
HN2601088-004	18441 DUP-1_20260122	SOIL/SOLID	01/22/26 14:30	01/23/26 06:00

Chain of Custody Form

Page _____ of _____



Telephone : +1 616 399 6070

ALS Project Manager:							Work Order #:											
Project Information							Parameter/Method Request for Analysis											
Project Name		18441 St Louis					A VOCs (U.S. EPA Method 8260C (or Method 8260))											
Project Number		DETR0060					B SVOCs (U.S. EPA Method 8270D (or Method 8270))											
Bill To Company		Mannik Smith Group					C PCBs (U.S. EPA Method 8082)											
Invoice Attn.							D Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)											
Address		2365 South Haggerty Road					E Chlorides (U.S. EPA Method 9056A)											
							F Pesticides (U.S. EPA Method 8081B (or Method 8081))											
City/State/Zip		Canton, Mi 48188					G Herbicides (U.S. EPA Method 8151A (or Method 8151))											
Phone		734-397-3100					H											
Fax							I											
e-Mail Address		rmontri@mannaiksmithgroup.com					J											
omitchell@mannaiksmithgroup.com																		
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	18441 SB01 (1-2) 1/22/26 0122	1/22/26	1407	Soil	7	3	✓	✓	✓	✓	✓	✓	✓					
2	18441 SB02 (3-4) 1/22/26 0122	1/22/26	1415	Soil	7	3	✓	✓	✓	✓	✓	✓	✓					
3	18441 SB03 (5-6) 1/22/26 0122	1/22/26	1424	Soil	7	3	✓	✓	✓	✓	✓	✓	✓					
4	18441 DUP-1-20260122	1/22/26	1430	S	7	3	✓	✓	✓	✓	✓	✓	✓					
5																		
6																		
7																		
8																		
9																		
10																		

Sampler(s): Please Print & Sign WILEY DAVERNPORT		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:	
Relinquished by: Wiley Davenport		Date: 1/22/26	Time: 1555	Received by: Wiley Davenport		Date: 1/22/26		Time: 1555	
Relinquished by: Wiley Davenport		Date: 1/22	Time: 1700	Received by (Laboratory): Wiley Davenport		Date: 1/22		Time: 1700	
Logged by (Laboratory): DEF		Date: 1/23/26	Time: 0820	Checked by (Laboratory): Wiley Davenport		Date: 1/23/26		Time: 0820	
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035									
Cooler Temp. 12.6 3.3°C									
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: _____									

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Please click the link below for detailed Terms & Conditions:
<https://www.alsglobal.com/ALSGroupUSACorpTC>
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ALS Holland
3352 128th Ave., Holland MI 49424

ALS Holland Sample Receiving Checklist

Received by: Diane F. Shaw

Date/Time: 1/23/26 0600

Carrier Name: QJ

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

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

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

Chain of Custody present? (Yes) / No

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

COC agrees with sample labels? (Yes) / No

Samples in proper container/bottle? (Yes) / No

Sample containers intact? (Yes) / No

Sufficient sample volume for indicated test? (Yes) / No

All samples received within holding time? (Yes) / No

Container/Temp Blank temperature in compliance? (Yes) / No

Temperature(s) (°C): 3.3 / 3.3 °C

Thermometer(s): 126

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

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 1/23/26 0845

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

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

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

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

pH adjusted by: _____

Login Notes:

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REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

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

¹ - Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis

Work Order: HN2601088

Sample Name: 18441 SB01 (1-2')_20260122
Laboratory Code: HN2601088-001
Sample Matrix: SOIL/SOLID

Date Collected: 01/22/26
Date Received: 01/23/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2427668		3838195	Nicole Maleski
EPA 6020B	EPA 3050B	001-AC	2432566	Weston Kotecki	3846904	Hunter Johnson
EPA 7471B	Method	001-AC	2432807	Maxx Richey	3848639	Maxx Richey
EPA 8081B	EPA 3546	001-AC	2428536	Willow Julien	3846260	Quinn Garner
EPA 8081B	EPA 3546	001-AC	2428536	Willow Julien	3850177	Madison VandenBer
EPA 8082A	EPA 3546	001-AC	2428534	Rachel Plantinga	3844223	Nathaniel Dietlin
EPA 8151A	Method	001-AC	2432524	Willow Julien	3848870	Kathy Malmyga
EPA 8260D	EPA 5035A	001-AA	2428122	Jonathan Vazquez	3842243	John Garvale
EPA 8270E	EPA 3546	001-AC	2429903	Mya Harmer	3846362	Sam Marcotte
EPA 9056A	EPA 9056A	001-AC	2427890	Kelsey Beaudette	3839848	Jessica Bacon

Sample Name: 18441 SB02 (3-4')_20260122
Laboratory Code: HN2601088-002
Sample Matrix: SOIL/SOLID

Date Collected: 01/22/26
Date Received: 01/23/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2427668		3838195	Nicole Maleski
EPA 6020B	EPA 3050B	002-AC	2432566	Weston Kotecki	3846904	Hunter Johnson
EPA 7471B	Method	002-AC	2432807	Maxx Richey	3848639	Maxx Richey
EPA 8081B	EPA 3546	002-AC	2428536	Willow Julien	3846260	Quinn Garner
EPA 8081B	EPA 3546	002-AC	2428536	Willow Julien	3850177	Madison VandenBer
EPA 8082A	EPA 3546	002-AC	2428534	Rachel Plantinga	3844223	Nathaniel Dietlin
EPA 8151A	Method	002-AC	2432524	Willow Julien	3848870	Kathy Malmyga
EPA 8260D	EPA 5035A	002-AA	2428122	Jonathan Vazquez	3842243	John Garvale
EPA 8270E	EPA 3546	002-AC	2429903	Mya Harmer	3846362	Sam Marcotte
EPA 9056A	EPA 9056A	002-AC	2427890	Kelsey Beaudette	3839848	Jessica Bacon

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis

Work Order: HN2601088

Sample Name: 18441 SB03 (5-6')_20260122
Laboratory Code: HN2601088-003
Sample Matrix: SOIL/SOLID

Date Collected: 01/22/26
Date Received: 01/23/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AC	2427668		3838195	Nicole Maleski
EPA 6020B	EPA 3050B	003-AC	2432566	Weston Kotecki	3846904	Hunter Johnson
EPA 7471B	Method	003-AC	2432807	Maxx Richey	3848639	Maxx Richey
EPA 8081B	EPA 3546	003-AC	2428536	Willow Julien	3846260	Quinn Garner
EPA 8081B	EPA 3546	003-AC	2428536	Willow Julien	3850177	Madison VandenBer
EPA 8082A	EPA 3546	003-AC	2428534	Rachel Plantinga	3844223	Nathaniel Dietlin
EPA 8151A	Method	003-AC	2432524	Willow Julien	3848870	Kathy Malmyga
EPA 8260D	EPA 5035A	003-AA	2428124	Jonathan Vazquez	3842243	John Garvale
EPA 8270E	EPA 3546	003-AC	2429903	Mya Harmer	3846362	Sam Marcotte
EPA 9056A	EPA 9056A	003-AC	2427890	Kelsey Beaudette	3839848	Jessica Bacon

Sample Name: 18441 DUP-1_20260122
Laboratory Code: HN2601088-004
Sample Matrix: SOIL/SOLID

Date Collected: 01/22/26
Date Received: 01/23/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		004-AC	2427668		3838195	Nicole Maleski
EPA 6020B	EPA 3050B	004-AC	2433992	Weston Kotecki	3849618	Denise Coffey
EPA 7471B	Method	004-AC	2432807	Maxx Richey	3848639	Maxx Richey
EPA 8081B	EPA 3546	004-AC	2428536	Willow Julien	3846260	Quinn Garner
EPA 8081B	EPA 3546	004-AC	2428536	Willow Julien	3850177	Madison VandenBer
EPA 8082A	EPA 3546	004-AC	2428534	Rachel Plantinga	3844223	Nathaniel Dietlin
EPA 8151A	Method	004-AC	2432524	Willow Julien	3848870	Kathy Malmyga
EPA 8260D	EPA 5035A	004-AA	2428124	Jonathan Vazquez	3843831	John Garvale
EPA 8260D	EPA 5035A	004-AA	2428124	Jonathan Vazquez	3846906	Quoc Nguyen
EPA 8270E	EPA 3546	004-AC	2429903	Mya Harmer	3846362	Sam Marcotte
EPA 9056A	EPA 9056A	004-AC	2427890	Kelsey Beaudette	3839848	Jessica Bacon

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:07
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB01 (1-2')_20260122

Lab ID: HN2601088-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<2.24	U	µg/kg	12.2	1	01/30/26 06:06	01/28/26 08:19
2,4,5-TP (Silvex)	EPA 8151A	<3.99	U	µg/kg	12.2	1	01/30/26 06:06	01/28/26 08:19
2,4-D	EPA 8151A	<6.49	U	µg/kg	24.3	1	01/30/26 06:06	01/28/26 08:19
Surr: DCAA	EPA 8151A	46.0		%REC	10-116	1	01/30/26 06:06	01/28/26 08:19
General Chemistry Parameters								
Percent Moisture	EPA 3550C	18.3		%	0.1	1	01/23/26 10:55	NA
Chloride	EPA 9056A	23.0		mg/kg	12.9	1	01/24/26 10:34	01/23/26 12:25
Metals								
Arsenic	EPA 6020B	5.67		mg/kg	3.71	10	01/28/26 18:28	01/28/26 09:18
Barium	EPA 6020B	67.1		mg/kg	3.71	10	01/28/26 18:28	01/28/26 09:18
Cadmium	EPA 6020B	<0.223	U	mg/kg	1.48	10	01/28/26 18:28	01/28/26 09:18
Chromium	EPA 6020B	13.8		mg/kg	3.71	10	01/28/26 18:28	01/28/26 09:18
Copper	EPA 6020B	11.6		mg/kg	3.71	10	01/28/26 18:28	01/28/26 09:18
Lead	EPA 6020B	14.3		mg/kg	3.71	10	01/28/26 18:28	01/28/26 09:18
Selenium	EPA 6020B	<3.41	U	mg/kg	3.71	10	01/28/26 18:28	01/28/26 09:18
Silver	EPA 6020B	<0.490	U	mg/kg	3.71	10	01/28/26 18:28	01/28/26 09:18
Zinc	EPA 6020B	40.5		mg/kg	7.42	10	01/28/26 18:28	01/28/26 09:18
Mercury	EPA 7471B	0.0244		mg/kg	0.0200	1	01/29/26 12:04	01/28/26 11:04
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<13.0	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
4,4'-DDE	EPA 8081B	<13.4	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
4,4'-DDT	EPA 8081B	<13.6	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
Aldrin	EPA 8081B	<13.3	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
alpha-BHC	EPA 8081B	<13.4	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
beta-BHC	EPA 8081B	<13.4	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
Chlordane, Technical	EPA 8081B	161		µg/kg	51.0	1	01/28/26 12:53	01/23/26 18:51
cis-Chlordane	EPA 8081B	29.7	S	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
delta-BHC	EPA 8081B	<13.4	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
Dieldrin	EPA 8081B	<14.3	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:07
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB01 (1-2')_20260122

Lab ID: HN2601088-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<13.7	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
Endosulfan II	EPA 8081B	<13.5	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
Endosulfan sulfate	EPA 8081B	<12.5	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
Endrin	EPA 8081B	<16.5	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
Endrin aldehyde	EPA 8081B	<12.9	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
Endrin ketone	EPA 8081B	<12.4	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
gamma-BHC (Lindane)	EPA 8081B	<13.4	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
Heptachlor	EPA 8081B	<13.2	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
Heptachlor epoxide	EPA 8081B	<13.5	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
Methoxychlor	EPA 8081B	<13.6	U	µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
Toxaphene	EPA 8081B	<22.0	U	µg/kg	122	1	01/27/26 12:45	01/23/26 18:51
trans-Chlordane	EPA 8081B	24.6		µg/kg	20.4	1	01/27/26 12:45	01/23/26 18:51
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	67.1		%REC	53-151	1	01/27/26 12:45	01/23/26 18:51
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	63.3	S	%REC	67-127	1	01/27/26 12:45	01/23/26 18:51

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<46.6	U	µg/kg	136	1	01/26/26 21:46	01/23/26 18:39
Aroclor 1221	EPA 8082A	<46.6	U	µg/kg	136	1	01/26/26 21:46	01/23/26 18:39
Aroclor 1232	EPA 8082A	<46.6	U	µg/kg	136	1	01/26/26 21:46	01/23/26 18:39
Aroclor 1242	EPA 8082A	<46.6	U	µg/kg	136	1	01/26/26 21:46	01/23/26 18:39
Aroclor 1248	EPA 8082A	<46.6	U	µg/kg	136	1	01/26/26 21:46	01/23/26 18:39
Aroclor 1254	EPA 8082A	<38.0	U	µg/kg	136	1	01/26/26 21:46	01/23/26 18:39
Aroclor 1260	EPA 8082A	<38.0	U	µg/kg	136	1	01/26/26 21:46	01/23/26 18:39
Aroclor 1262	EPA 8082A	<38.0	U	µg/kg	136	1	01/26/26 21:46	01/23/26 18:39
Aroclor 1268	EPA 8082A	<38.0	U	µg/kg	136	1	01/26/26 21:46	01/23/26 18:39
Total PCB	EPA 8082A	<38.0	U	µg/kg	136	1	01/26/26 21:46	01/23/26 18:39
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	101		%REC	54-146	1	01/26/26 21:46	01/23/26 18:39
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	81.2		%REC	58-140	1	01/26/26 21:46	01/23/26 18:39

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<16.5	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<23.4	U	µg/kg	1020	1	01/27/26 20:05	01/26/26 10:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:07
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB01 (1-2')_20260122

Lab ID: HN2601088-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<72.9	U	µg/kg	508	1	01/27/26 20:05	01/26/26 10:04
1-Methylnaphthalene	EPA 8270E	<14.6	U	µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<23.8	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
2,3,4,6-Tetrachlorophenol	EPA 8270E	<74.4	U	µg/kg	203	1	01/27/26 20:05	01/26/26 10:04
2,4,5-Trichlorophenol	EPA 8270E	<60.2	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
2,4,6-Trichlorophenol	EPA 8270E	<27.0	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
2,4-Dichlorophenol	EPA 8270E	<54.7	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
2,4-Dimethylphenol	EPA 8270E	<52.3	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
2,4-Dinitrophenol	EPA 8270E	<743	U	µg/kg	1020	1	01/27/26 20:05	01/26/26 10:04
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<66.0	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<25.9	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
2-Chloronaphthalene	EPA 8270E	<14.2	U	µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
2-Chlorophenol	EPA 8270E	<66.5	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<84.9	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
2-Methylnaphthalene	EPA 8270E	<10.3	U	µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
2-Methylphenol (o-Cresol)	EPA 8270E	<27.5	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
2-Nitroaniline	EPA 8270E	<56.4	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
2-Nitrophenol	EPA 8270E	<29.0	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
3&4-Methylphenol	EPA 8270E	<55.4	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
3,3'-Dichlorobenzidine	EPA 8270E	<47.4	U	µg/kg	508	1	01/27/26 20:05	01/26/26 10:04
3-Nitroaniline	EPA 8270E	<59.0	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<55.7	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
4-Chloro-3-methylphenol	EPA 8270E	<29.0	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
4-Chloroaniline	EPA 8270E	<51.6	U	µg/kg	203	1	01/27/26 20:05	01/26/26 10:04
4-Chlorophenyl phenylether	EPA 8270E	<28.1	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
4-Nitroaniline	EPA 8270E	<158	U	µg/kg	508	1	01/27/26 20:05	01/26/26 10:04
4-Nitrophenol	EPA 8270E	<238	U	µg/kg	1020	1	01/27/26 20:05	01/26/26 10:04
Acenaphthene	EPA 8270E	<14.7	U	µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:07
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB01 (1-2')_20260122

Lab ID: HN2601088-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<17.6	U	µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
Acetophenone	EPA 8270E	<15.9	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Anthracene	EPA 8270E	<14.3	U	µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
Atrazine	EPA 8270E	<59.5	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Benzaldehyde	EPA 8270E	<156	U	µg/kg	203	1	01/27/26 20:05	01/26/26 10:04
Benzo(a)anthracene	EPA 8270E	28.5		µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
Benzo(a)pyrene	EPA 8270E	26.4		µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
Benzo(b)fluoranthene	EPA 8270E	38.6		µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
Benzo(g,h,i)perylene	EPA 8270E	20.3		µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
Benzo(k)fluoranthene	EPA 8270E	<15.4	U	µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
bis(2-Chloroethoxy) methane	EPA 8270E	<64.4	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
bis(2-Chloroethyl) ether	EPA 8270E	<28.8	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Butyl benzyl phthalate	EPA 8270E	<127	U	µg/kg	203	1	01/27/26 20:05	01/26/26 10:04
Caprolactam	EPA 8270E	<91.7	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Carbazole	EPA 8270E	<29.9	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Chrysene	EPA 8270E	<16.4	U	µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<84.1	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Dibenz(a,h) anthracene	EPA 8270E	<11.0	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Dibenzofuran	EPA 8270E	<14.9	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Diethyl phthalate	EPA 8270E	<34.6	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Dimethyl phthalate	EPA 8270E	<19.8	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Fluoranthene	EPA 8270E	36.6		µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
Fluorene	EPA 8270E	<14.8	U	µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
Hexachlorobenzene	EPA 8270E	<29.6	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Hexachlorobutadiene	EPA 8270E	<23.9	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Hexachlorocyclopentadiene	EPA 8270E	<96.3	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Hexachloroethane	EPA 8270E	<42.1	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Indeno(1,2,3-cd) pyrene	EPA 8270E	26.4		µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
Isophorone	EPA 8270E	<19.8	U	µg/kg	508	1	01/27/26 20:05	01/26/26 10:04
Methylphenol, Total	EPA 8270E	<27.5	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:07
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB01 (1-2')_20260122

Lab ID: HN2601088-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<13.0	U	µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
Nitrobenzene	EPA 8270E	<34.1	U	µg/kg	508	1	01/27/26 20:05	01/26/26 10:04
n-Nitrosodi-n-propylamine	EPA 8270E	<16.8	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
N-Nitrosodiphenylamine	EPA 8270E	<58.8	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Pentachlorophenol	EPA 8270E	<80.7	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Phenanthrene	EPA 8270E	<9.45	U	µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
Phenol	EPA 8270E	<51.0	U	µg/kg	101	1	01/27/26 20:05	01/26/26 10:04
Pyrene	EPA 8270E	36.6		µg/kg	20.3	1	01/27/26 20:05	01/26/26 10:04
Pyridine	EPA 8270E	<200	U	µg/kg	508	1	01/27/26 20:05	01/26/26 10:04
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	59.2		%REC	48-94	1	01/27/26 20:05	01/26/26 10:04
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	71.9		%REC	50-103	1	01/27/26 20:05	01/26/26 10:04
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	72.2		%REC	43-105	1	01/27/26 20:05	01/26/26 10:04
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	88.7		%REC	55-111	1	01/27/26 20:05	01/26/26 10:04
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	83.4		%REC	47-100	1	01/27/26 20:05	01/26/26 10:04
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	71.9		%REC	49-110	1	01/27/26 20:05	01/26/26 10:04

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<32.0	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
1,1,2,2-Tetrachloroethane	EPA 8260D	<31.1	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<44.7	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
1,1,2-Trichloroethane	EPA 8260D	<30.0	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
1,1-Dichloroethane	EPA 8260D	<25.7	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
1,1-Dichloroethylene	EPA 8260D	<22.9	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
1,2,3-Trichlorobenzene	EPA 8260D	<84.7	U	µg/kg	235	1	01/24/26 06:16	01/23/26 13:30
1,2,3-Trichloropropane	EPA 8260D	<29.5	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
1,2,4-Trichlorobenzene	EPA 8260D	<80.0	U	µg/kg	235	1	01/24/26 06:16	01/23/26 13:30
1,2,4-Trimethylbenzene	EPA 8260D	<51.7	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<65.0	U	µg/kg	235	1	01/24/26 06:16	01/23/26 13:30
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<41.5	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<26.8	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:07
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB01 (1-2')_20260122

Lab ID: HN2601088-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<41.5	U	µg/kg	235	1	01/24/26 06:16	01/23/26 13:30
1,2-Dichloropropane	EPA 8260D	<52.0	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
1,3,5-Trimethylbenzene	EPA 8260D	<49.8	U	µg/kg	235	1	01/24/26 06:16	01/23/26 13:30
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<48.7	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
1,3-Dichloropropene	EPA 8260D	<39.4	U	µg/kg	141	1	01/24/26 06:16	01/23/26 13:30
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<57.3	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<168	U	µg/kg	470	1	01/24/26 06:16	01/23/26 13:30
2-Hexanone	EPA 8260D	<35.0	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<65.8	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Acetone	EPA 8260D	<209	U	µg/kg	235	1	01/24/26 06:16	01/23/26 13:30
Benzene	EPA 8260D	<34.2	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Bromochloromethane	EPA 8260D	<35.9	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Bromodichloromethane	EPA 8260D	<39.5	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Bromoform	EPA 8260D	<29.7	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Carbon disulfide	EPA 8260D	<36.5	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Carbon tetrachloride	EPA 8260D	<27.6	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Chlorobenzene	EPA 8260D	<23.4	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Chlorodibromomethane	EPA 8260D	<39.6	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Chloroethane (Ethyl chloride)	EPA 8260D	<198	U	µg/kg	235	1	01/24/26 06:16	01/23/26 13:30
Chloroform	EPA 8260D	<25.9	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
cis-1,2-Dichloroethylene	EPA 8260D	<45.4	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
cis-1,3-Dichloropropene	EPA 8260D	<53.2	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Cyclohexane	EPA 8260D	<54.0	U	µg/kg	235	1	01/24/26 06:16	01/23/26 13:30
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<85.4	U	µg/kg	235	1	01/24/26 06:16	01/23/26 13:30
Ethylbenzene	EPA 8260D	<50.1	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Isopropylbenzene	EPA 8260D	<44.6	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
m+p-Xylene	EPA 8260D	<94.1	U	µg/kg	141	1	01/24/26 06:16	01/23/26 13:30
Methyl acetate	EPA 8260D	<84.5	U	µg/kg	588	1	01/24/26 06:16	01/23/26 13:30
Methyl bromide (Bromomethane)	EPA 8260D	<135	U	µg/kg	235	1	01/24/26 06:16	01/23/26 13:30

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:07
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB01 (1-2')_20260122

Lab ID: HN2601088-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<193	U	µg/kg	235	1	01/24/26 06:16	01/23/26 13:30
Methyl tert-butyl ether (MTBE)	EPA 8260D	<51.5	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Methylcyclohexane	EPA 8260D	<26.9	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Methylene chloride (Dichloromethane)	EPA 8260D	<187	U	µg/kg	588	1	01/24/26 06:16	01/23/26 13:30
o-Xylene	EPA 8260D	<27.3	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Styrene	EPA 8260D	<28.0	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<42.5	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Toluene	EPA 8260D	<58.2	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Total Xylene	EPA 8260D	<27.3	U	µg/kg	212	1	01/24/26 06:16	01/23/26 13:30
trans-1,2-Dichloroethylene	EPA 8260D	<58.2	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
trans-1,3-Dichloropropylene	EPA 8260D	<39.4	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Trichloroethene (Trichloroethylene)	EPA 8260D	<31.6	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<36.1	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
Vinyl chloride (Chloroethene)	EPA 8260D	<46.9	U	µg/kg	70.6	1	01/24/26 06:16	01/23/26 13:30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	01/24/26 06:16	01/23/26 13:30
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	102		%REC	80-120	1	01/24/26 06:16	01/23/26 13:30
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	101		%REC	72-120	1	01/24/26 06:16	01/23/26 13:30
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	95.8		%REC	80-120	1	01/24/26 06:16	01/23/26 13:30

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:15
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB02 (3-4')_20260122

Lab ID: HN2601088-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<2.02	U	µg/kg	11.0	1	01/30/26 06:19	01/28/26 08:19
2,4,5-TP (Silvex)	EPA 8151A	<3.61	U	µg/kg	11.0	1	01/30/26 06:19	01/28/26 08:19
2,4-D	EPA 8151A	<5.87	U	µg/kg	22.0	1	01/30/26 06:19	01/28/26 08:19
Surr: DCAA	EPA 8151A	50.0		%REC	10-116	1	01/30/26 06:19	01/28/26 08:19
General Chemistry Parameters								
Percent Moisture	EPA 3550C	11.0		%	0.1	1	01/23/26 10:55	NA
Chloride	EPA 9056A	15.9		mg/kg	12.2	1	01/24/26 10:42	01/23/26 12:25
Metals								
Arsenic	EPA 6020B	5.88		mg/kg	2.90	10	01/28/26 18:30	01/28/26 09:18
Barium	EPA 6020B	32.2		mg/kg	2.90	10	01/28/26 18:30	01/28/26 09:18
Cadmium	EPA 6020B	<0.174	U	mg/kg	1.16	10	01/28/26 18:30	01/28/26 09:18
Chromium	EPA 6020B	6.91		mg/kg	2.90	10	01/28/26 18:30	01/28/26 09:18
Copper	EPA 6020B	8.99		mg/kg	2.90	10	01/28/26 18:30	01/28/26 09:18
Lead	EPA 6020B	10.7		mg/kg	2.90	10	01/28/26 18:30	01/28/26 09:18
Selenium	EPA 6020B	<2.66	U	mg/kg	2.90	10	01/28/26 18:30	01/28/26 09:18
Silver	EPA 6020B	<0.382	U	mg/kg	2.90	10	01/28/26 18:30	01/28/26 09:18
Zinc	EPA 6020B	28.2		mg/kg	5.79	10	01/28/26 18:30	01/28/26 09:18
Mercury	EPA 7471B	<0.0136	U	mg/kg	0.0200	1	01/29/26 12:05	01/28/26 11:04
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<12.0	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
4,4'-DDE	EPA 8081B	<12.3	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
4,4'-DDT	EPA 8081B	<12.4	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
Aldrin	EPA 8081B	<12.2	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
alpha-BHC	EPA 8081B	<12.3	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
beta-BHC	EPA 8081B	<12.3	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
Chlordane, Technical	EPA 8081B	141		µg/kg	46.8	1	01/28/26 13:08	01/23/26 18:51
cis-Chlordane	EPA 8081B	26.8		µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
delta-BHC	EPA 8081B	<12.2	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
Dieldrin	EPA 8081B	<13.1	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51

Analytical Report



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CLIENT ID: 18441 SB02 (3-4')_20260122

Lab ID: HN2601088-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<12.6	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
Endosulfan II	EPA 8081B	<12.4	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
Endosulfan sulfate	EPA 8081B	<11.5	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
Endrin	EPA 8081B	<15.1	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
Endrin aldehyde	EPA 8081B	<11.9	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
Endrin ketone	EPA 8081B	<11.4	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
gamma-BHC (Lindane)	EPA 8081B	<12.3	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
Heptachlor	EPA 8081B	<12.1	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
Heptachlor epoxide	EPA 8081B	<12.4	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
Methoxychlor	EPA 8081B	<12.5	U	µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
Toxaphene	EPA 8081B	<20.2	U	µg/kg	112	1	01/27/26 13:00	01/23/26 18:51
trans-Chlordane	EPA 8081B	22.0		µg/kg	18.7	1	01/27/26 13:00	01/23/26 18:51
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	90.1		%REC	53-151	1	01/27/26 13:00	01/23/26 18:51
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	88.6		%REC	67-127	1	01/27/26 13:00	01/23/26 18:51

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<42.8	U	µg/kg	125	1	01/26/26 21:58	01/23/26 18:39
Aroclor 1221	EPA 8082A	<42.8	U	µg/kg	125	1	01/26/26 21:58	01/23/26 18:39
Aroclor 1232	EPA 8082A	<42.8	U	µg/kg	125	1	01/26/26 21:58	01/23/26 18:39
Aroclor 1242	EPA 8082A	<42.8	U	µg/kg	125	1	01/26/26 21:58	01/23/26 18:39
Aroclor 1248	EPA 8082A	<42.8	U	µg/kg	125	1	01/26/26 21:58	01/23/26 18:39
Aroclor 1254	EPA 8082A	<34.8	U	µg/kg	125	1	01/26/26 21:58	01/23/26 18:39
Aroclor 1260	EPA 8082A	<34.8	U	µg/kg	125	1	01/26/26 21:58	01/23/26 18:39
Aroclor 1262	EPA 8082A	<34.8	U	µg/kg	125	1	01/26/26 21:58	01/23/26 18:39
Aroclor 1268	EPA 8082A	<34.8	U	µg/kg	125	1	01/26/26 21:58	01/23/26 18:39
Total PCB	EPA 8082A	<34.8	U	µg/kg	125	1	01/26/26 21:58	01/23/26 18:39
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	119		%REC	54-146	1	01/26/26 21:58	01/23/26 18:39
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	109		%REC	58-140	1	01/26/26 21:58	01/23/26 18:39

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<14.8	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<21.1	U	µg/kg	913	1	01/27/26 20:33	01/26/26 10:04

Analytical Report



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Work Order: HN2601088
Date Collected: 01/22/26 14:15
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB02 (3-4')_20260122

Lab ID: HN2601088-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<65.5	U	µg/kg	457	1	01/27/26 20:33	01/26/26 10:04
1-Methylnaphthalene	EPA 8270E	82.2		µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<21.4	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
2,3,4,6-Tetrachlorophenol	EPA 8270E	<66.9	U	µg/kg	183	1	01/27/26 20:33	01/26/26 10:04
2,4,5-Trichlorophenol	EPA 8270E	<54.1	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
2,4,6-Trichlorophenol	EPA 8270E	<24.3	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
2,4-Dichlorophenol	EPA 8270E	<49.2	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
2,4-Dimethylphenol	EPA 8270E	<47.0	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
2,4-Dinitrophenol	EPA 8270E	<668	U	µg/kg	913	1	01/27/26 20:33	01/26/26 10:04
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<59.3	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<23.3	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
2-Chloronaphthalene	EPA 8270E	<12.8	U	µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
2-Chlorophenol	EPA 8270E	<59.8	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<76.3	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
2-Methylnaphthalene	EPA 8270E	111		µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
2-Methylphenol (o-Cresol)	EPA 8270E	<24.7	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
2-Nitroaniline	EPA 8270E	<50.7	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
2-Nitrophenol	EPA 8270E	<26.0	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
3&4-Methylphenol	EPA 8270E	<49.8	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
3,3'-Dichlorobenzidine	EPA 8270E	<42.6	U	µg/kg	457	1	01/27/26 20:33	01/26/26 10:04
3-Nitroaniline	EPA 8270E	<53.0	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<50.0	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
4-Chloro-3-methylphenol	EPA 8270E	<26.0	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
4-Chloroaniline	EPA 8270E	<46.4	U	µg/kg	183	1	01/27/26 20:33	01/26/26 10:04
4-Chlorophenyl phenylether	EPA 8270E	<25.2	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
4-Nitroaniline	EPA 8270E	<142	U	µg/kg	457	1	01/27/26 20:33	01/26/26 10:04
4-Nitrophenol	EPA 8270E	<214	U	µg/kg	913	1	01/27/26 20:33	01/26/26 10:04
Acenaphthene	EPA 8270E	<13.2	U	µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04

Analytical Report



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Work Order: HN2601088
Date Collected: 01/22/26 14:15
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CLIENT ID: 18441 SB02 (3-4')_20260122

Lab ID: HN2601088-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<15.8	U	µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
Acetophenone	EPA 8270E	<14.3	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Anthracene	EPA 8270E	31.1		µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
Atrazine	EPA 8270E	<53.5	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Benzaldehyde	EPA 8270E	<140	U	µg/kg	183	1	01/27/26 20:33	01/26/26 10:04
Benzo(a)anthracene	EPA 8270E	248		µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
Benzo(a)pyrene	EPA 8270E	270		µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
Benzo(b)fluoranthene	EPA 8270E	349		µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
Benzo(g,h,i)perylene	EPA 8270E	185		µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
Benzo(k)fluoranthene	EPA 8270E	135		µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
bis(2-Chloroethoxy) methane	EPA 8270E	<57.9	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
bis(2-Chloroethyl) ether	EPA 8270E	<25.9	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Butyl benzyl phthalate	EPA 8270E	<114	U	µg/kg	183	1	01/27/26 20:33	01/26/26 10:04
Caprolactam	EPA 8270E	<82.4	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Carbazole	EPA 8270E	<26.9	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Chrysene	EPA 8270E	276		µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<75.6	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Dibenz(a,h) anthracene	EPA 8270E	<9.87	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Dibenzofuran	EPA 8270E	<13.4	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Diethyl phthalate	EPA 8270E	<31.1	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Dimethyl phthalate	EPA 8270E	<17.8	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Fluoranthene	EPA 8270E	482		µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
Fluorene	EPA 8270E	<13.3	U	µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
Hexachlorobenzene	EPA 8270E	<26.6	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Hexachlorobutadiene	EPA 8270E	<21.5	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Hexachlorocyclopentadiene	EPA 8270E	<86.6	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Hexachloroethane	EPA 8270E	<37.8	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Indeno(1,2,3-cd) pyrene	EPA 8270E	210		µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
Isophorone	EPA 8270E	<17.8	U	µg/kg	457	1	01/27/26 20:33	01/26/26 10:04
Methylphenol, Total	EPA 8270E	<24.7	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04

Analytical Report



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Work Order: HN2601088
Date Collected: 01/22/26 14:15
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CLIENT ID: 18441 SB02 (3-4')_20260122

Lab ID: HN2601088-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	45.7		µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
Nitrobenzene	EPA 8270E	<30.7	U	µg/kg	457	1	01/27/26 20:33	01/26/26 10:04
n-Nitrosodi-n-propylamine	EPA 8270E	<15.1	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
N-Nitrosodiphenylamine	EPA 8270E	<52.9	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Pentachlorophenol	EPA 8270E	<72.6	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Phenanthrene	EPA 8270E	223		µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
Phenol	EPA 8270E	<45.9	U	µg/kg	90.4	1	01/27/26 20:33	01/26/26 10:04
Pyrene	EPA 8270E	528		µg/kg	18.3	1	01/27/26 20:33	01/26/26 10:04
Pyridine	EPA 8270E	<180	U	µg/kg	457	1	01/27/26 20:33	01/26/26 10:04
Surr: 2,4,6-Tribromophenol	EPA 8270E	72.5		%REC	48-94	1	01/27/26 20:33	01/26/26 10:04
Surr: 2-Fluorobiphenyl	EPA 8270E	71.9		%REC	50-103	1	01/27/26 20:33	01/26/26 10:04
Surr: 2-Fluorophenol	EPA 8270E	70.3		%REC	43-105	1	01/27/26 20:33	01/26/26 10:04
Surr: 4-Terphenyl-d14	EPA 8270E	90.5		%REC	55-111	1	01/27/26 20:33	01/26/26 10:04
Surr: Nitrobenzene-d5	EPA 8270E	80.5		%REC	47-100	1	01/27/26 20:33	01/26/26 10:04
Surr: Phenol-d6	EPA 8270E	75.7		%REC	49-110	1	01/27/26 20:33	01/26/26 10:04

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<28.1	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
1,1,2,2-Tetrachloroethane	EPA 8260D	<27.4	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<39.3	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
1,1,2-Trichloroethane	EPA 8260D	<26.4	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
1,1-Dichloroethane	EPA 8260D	<22.6	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
1,1-Dichloroethylene	EPA 8260D	<20.1	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
1,2,3-Trichlorobenzene	EPA 8260D	<74.4	U	µg/kg	207	1	01/24/26 06:35	01/23/26 13:30
1,2,3-Trichloropropane	EPA 8260D	<26.0	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
1,2,4-Trichlorobenzene	EPA 8260D	<70.3	U	µg/kg	207	1	01/24/26 06:35	01/23/26 13:30
1,2,4-Trimethylbenzene	EPA 8260D	<45.5	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<57.1	U	µg/kg	207	1	01/24/26 06:35	01/23/26 13:30
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<36.5	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<23.5	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:15
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB02 (3-4')_20260122

Lab ID: HN2601088-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<36.5	U	µg/kg	207	1	01/24/26 06:35	01/23/26 13:30
1,2-Dichloropropane	EPA 8260D	<45.7	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
1,3,5-Trimethylbenzene	EPA 8260D	<43.8	U	µg/kg	207	1	01/24/26 06:35	01/23/26 13:30
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<42.8	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
1,3-Dichloropropene	EPA 8260D	<34.6	U	µg/kg	124	1	01/24/26 06:35	01/23/26 13:30
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<50.4	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<148	U	µg/kg	414	1	01/24/26 06:35	01/23/26 13:30
2-Hexanone	EPA 8260D	<30.8	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<57.8	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Acetone	EPA 8260D	<184	U	µg/kg	207	1	01/24/26 06:35	01/23/26 13:30
Benzene	EPA 8260D	<30.0	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Bromochloromethane	EPA 8260D	<31.6	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Bromodichloromethane	EPA 8260D	<34.7	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Bromoform	EPA 8260D	<26.1	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Carbon disulfide	EPA 8260D	<32.1	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Carbon tetrachloride	EPA 8260D	<24.3	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Chlorobenzene	EPA 8260D	<20.6	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Chlorodibromomethane	EPA 8260D	<34.8	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Chloroethane (Ethyl chloride)	EPA 8260D	<174	U	µg/kg	207	1	01/24/26 06:35	01/23/26 13:30
Chloroform	EPA 8260D	<22.7	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
cis-1,2-Dichloroethylene	EPA 8260D	<39.9	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
cis-1,3-Dichloropropene	EPA 8260D	<46.7	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Cyclohexane	EPA 8260D	<47.5	U	µg/kg	207	1	01/24/26 06:35	01/23/26 13:30
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<75.1	U	µg/kg	207	1	01/24/26 06:35	01/23/26 13:30
Ethylbenzene	EPA 8260D	<44.0	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Isopropylbenzene	EPA 8260D	<39.2	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
m+p-Xylene	EPA 8260D	<82.7	U	µg/kg	124	1	01/24/26 06:35	01/23/26 13:30
Methyl acetate	EPA 8260D	<74.3	U	µg/kg	517	1	01/24/26 06:35	01/23/26 13:30
Methyl bromide (Bromomethane)	EPA 8260D	<119	U	µg/kg	207	1	01/24/26 06:35	01/23/26 13:30

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:15
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB02 (3-4')_20260122

Lab ID: HN2601088-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<170	U	µg/kg	207	1	01/24/26 06:35	01/23/26 13:30
Methyl tert-butyl ether (MTBE)	EPA 8260D	<45.2	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Methylcyclohexane	EPA 8260D	<23.7	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Methylene chloride (Dichloromethane)	EPA 8260D	<165	U	µg/kg	517	1	01/24/26 06:35	01/23/26 13:30
o-Xylene	EPA 8260D	<24.0	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Styrene	EPA 8260D	<24.6	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<37.4	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Toluene	EPA 8260D	<51.1	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Total Xylene	EPA 8260D	<24.0	U	µg/kg	186	1	01/24/26 06:35	01/23/26 13:30
trans-1,2-Dichloroethylene	EPA 8260D	<51.2	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
trans-1,3-Dichloropropylene	EPA 8260D	<34.6	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Trichloroethene (Trichloroethylene)	EPA 8260D	<27.8	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<31.7	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
Vinyl chloride (Chloroethene)	EPA 8260D	<41.2	U	µg/kg	62.0	1	01/24/26 06:35	01/23/26 13:30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	102		%REC	80-120	1	01/24/26 06:35	01/23/26 13:30
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	01/24/26 06:35	01/23/26 13:30
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	99.3		%REC	72-120	1	01/24/26 06:35	01/23/26 13:30
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	97.4		%REC	80-120	1	01/24/26 06:35	01/23/26 13:30

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:24
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB03 (5-6')_20260122

Lab ID: HN2601088-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<2.19	U	µg/kg	11.9	1	01/30/26 06:45	01/28/26 08:19
2,4,5-TP (Silvex)	EPA 8151A	<3.91	U	µg/kg	11.9	1	01/30/26 06:45	01/28/26 08:19
2,4-D	EPA 8151A	<6.36	U	µg/kg	23.8	1	01/30/26 06:45	01/28/26 08:19
Surr: DCAA	EPA 8151A	40.0		%REC	10-116	1	01/30/26 06:45	01/28/26 08:19
General Chemistry Parameters								
Percent Moisture	EPA 3550C	17.5		%	0.1	1	01/23/26 10:55	NA
Chloride	EPA 9056A	<3.83	U	mg/kg	12.3	1	01/24/26 10:50	01/23/26 12:25
Metals								
Arsenic	EPA 6020B	10.6		mg/kg	3.67	10	01/28/26 18:32	01/28/26 09:18
Barium	EPA 6020B	76.5		mg/kg	3.67	10	01/28/26 18:32	01/28/26 09:18
Cadmium	EPA 6020B	1.62		mg/kg	1.47	10	01/28/26 18:32	01/28/26 09:18
Chromium	EPA 6020B	68.8		mg/kg	3.67	10	01/28/26 18:32	01/28/26 09:18
Copper	EPA 6020B	26.1		mg/kg	3.67	10	01/28/26 18:32	01/28/26 09:18
Lead	EPA 6020B	102		mg/kg	3.67	10	01/28/26 18:32	01/28/26 09:18
Selenium	EPA 6020B	<3.38	U	mg/kg	3.67	10	01/28/26 18:32	01/28/26 09:18
Silver	EPA 6020B	<0.484	U	mg/kg	3.67	10	01/28/26 18:32	01/28/26 09:18
Zinc	EPA 6020B	142		mg/kg	7.34	10	01/28/26 18:32	01/28/26 09:18
Mercury	EPA 7471B	0.134		mg/kg	0.0223	1	01/29/26 12:07	01/28/26 11:04
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<17.2	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
4,4'-DDE	EPA 8081B	66.8		µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
4,4'-DDT	EPA 8081B	<17.9	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
Aldrin	EPA 8081B	<17.5	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
alpha-BHC	EPA 8081B	<17.7	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
beta-BHC	EPA 8081B	<17.6	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
Chlordane, Technical	EPA 8081B	169		µg/kg	67.1	1	01/28/26 13:23	01/23/26 18:51
cis-Chlordane	EPA 8081B	34.4		µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
delta-BHC	EPA 8081B	<17.6	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
Dieldrin	EPA 8081B	<18.8	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:24
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB03 (5-6')_20260122

Lab ID: HN2601088-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<18.1	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
Endosulfan II	EPA 8081B	<17.8	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
Endosulfan sulfate	EPA 8081B	<16.5	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
Endrin	EPA 8081B	<21.7	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
Endrin aldehyde	EPA 8081B	<17.0	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
Endrin ketone	EPA 8081B	<16.3	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
gamma-BHC (Lindane)	EPA 8081B	<17.6	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
Heptachlor	EPA 8081B	<17.3	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
Heptachlor epoxide	EPA 8081B	<17.8	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
Methoxychlor	EPA 8081B	<18.0	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
Toxaphene	EPA 8081B	<29.0	U	µg/kg	161	1	01/27/26 13:14	01/23/26 18:51
trans-Chlordane	EPA 8081B	<17.8	U	µg/kg	26.9	1	01/27/26 13:14	01/23/26 18:51
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	95.0		%REC	53-151	1	01/27/26 13:14	01/23/26 18:51
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	80.0		%REC	67-127	1	01/27/26 13:14	01/23/26 18:51

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<61.4	U	µg/kg	179	1	01/26/26 22:09	01/23/26 18:39
Aroclor 1221	EPA 8082A	<61.4	U	µg/kg	179	1	01/26/26 22:09	01/23/26 18:39
Aroclor 1232	EPA 8082A	<61.4	U	µg/kg	179	1	01/26/26 22:09	01/23/26 18:39
Aroclor 1242	EPA 8082A	<61.4	U	µg/kg	179	1	01/26/26 22:09	01/23/26 18:39
Aroclor 1248	EPA 8082A	<61.4	U	µg/kg	179	1	01/26/26 22:09	01/23/26 18:39
Aroclor 1254	EPA 8082A	<50.0	U	µg/kg	179	1	01/26/26 22:09	01/23/26 18:39
Aroclor 1260	EPA 8082A	<50.0	U	µg/kg	179	1	01/26/26 22:09	01/23/26 18:39
Aroclor 1262	EPA 8082A	<50.0	U	µg/kg	179	1	01/26/26 22:09	01/23/26 18:39
Aroclor 1268	EPA 8082A	<50.0	U	µg/kg	179	1	01/26/26 22:09	01/23/26 18:39
Total PCB	EPA 8082A	<50.0	U	µg/kg	179	1	01/26/26 22:09	01/23/26 18:39
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	99.2		%REC	54-146	1	01/26/26 22:09	01/23/26 18:39
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	91.7		%REC	58-140	1	01/26/26 22:09	01/23/26 18:39

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<15.8	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<22.5	U	µg/kg	974	1	01/27/26 21:01	01/26/26 10:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:24
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB03 (5-6')_20260122

Lab ID: HN2601088-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<69.9	U	µg/kg	488	1	01/27/26 21:01	01/26/26 10:04
1-Methylnaphthalene	EPA 8270E	<14.0	U	µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<22.8	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
2,3,4,6-Tetrachlorophenol	EPA 8270E	<71.4	U	µg/kg	195	1	01/27/26 21:01	01/26/26 10:04
2,4,5-Trichlorophenol	EPA 8270E	<57.8	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
2,4,6-Trichlorophenol	EPA 8270E	<25.9	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
2,4-Dichlorophenol	EPA 8270E	<52.5	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
2,4-Dimethylphenol	EPA 8270E	<50.1	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
2,4-Dinitrophenol	EPA 8270E	<713	U	µg/kg	974	1	01/27/26 21:01	01/26/26 10:04
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<63.3	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<24.9	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
2-Chloronaphthalene	EPA 8270E	<13.6	U	µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
2-Chlorophenol	EPA 8270E	<63.8	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<81.4	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
2-Methylnaphthalene	EPA 8270E	<9.92	U	µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
2-Methylphenol (o-Cresol)	EPA 8270E	<26.4	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
2-Nitroaniline	EPA 8270E	<54.1	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
2-Nitrophenol	EPA 8270E	<27.8	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
3&4-Methylphenol	EPA 8270E	365		µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
3,3'-Dichlorobenzidine	EPA 8270E	<45.5	U	µg/kg	488	1	01/27/26 21:01	01/26/26 10:04
3-Nitroaniline	EPA 8270E	<56.6	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<53.4	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
4-Chloro-3-methylphenol	EPA 8270E	<27.8	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
4-Chloroaniline	EPA 8270E	<49.5	U	µg/kg	195	1	01/27/26 21:01	01/26/26 10:04
4-Chlorophenyl phenylether	EPA 8270E	<26.9	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
4-Nitroaniline	EPA 8270E	<151	U	µg/kg	488	1	01/27/26 21:01	01/26/26 10:04
4-Nitrophenol	EPA 8270E	<228	U	µg/kg	974	1	01/27/26 21:01	01/26/26 10:04
Acenaphthene	EPA 8270E	<14.1	U	µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:24
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB03 (5-6')_20260122

Lab ID: HN2601088-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<16.9	U	µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
Acetophenone	EPA 8270E	<15.3	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Anthracene	EPA 8270E	<13.7	U	µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
Atrazine	EPA 8270E	<57.1	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Benzaldehyde	EPA 8270E	<150	U	µg/kg	195	1	01/27/26 21:01	01/26/26 10:04
Benzo(a)anthracene	EPA 8270E	50.7		µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
Benzo(a)pyrene	EPA 8270E	50.7		µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
Benzo(b)fluoranthene	EPA 8270E	97.5		µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
Benzo(g,h,i)perylene	EPA 8270E	41.0		µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
Benzo(k)fluoranthene	EPA 8270E	97.5		µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
bis(2-Chloroethoxy) methane	EPA 8270E	<61.7	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
bis(2-Chloroethyl) ether	EPA 8270E	<27.6	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Butyl benzyl phthalate	EPA 8270E	<122	U	µg/kg	195	1	01/27/26 21:01	01/26/26 10:04
Caprolactam	EPA 8270E	<88.0	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Carbazole	EPA 8270E	<28.7	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Chrysene	EPA 8270E	42.9		µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	111		µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Dibenz(a,h) anthracene	EPA 8270E	<10.5	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Dibenzofuran	EPA 8270E	<14.3	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Diethyl phthalate	EPA 8270E	<33.2	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Dimethyl phthalate	EPA 8270E	<19.0	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Fluoranthene	EPA 8270E	80.0		µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
Fluorene	EPA 8270E	<14.2	U	µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
Hexachlorobenzene	EPA 8270E	<28.4	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Hexachlorobutadiene	EPA 8270E	<23.0	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Hexachlorocyclopentadiene	EPA 8270E	<92.4	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Hexachloroethane	EPA 8270E	<40.4	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Indeno(1,2,3-cd) pyrene	EPA 8270E	50.7		µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
Isophorone	EPA 8270E	<19.0	U	µg/kg	488	1	01/27/26 21:01	01/26/26 10:04
Methylphenol, Total	EPA 8270E	365		µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:24
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB03 (5-6')_20260122

Lab ID: HN2601088-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<12.5	U	µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
Nitrobenzene	EPA 8270E	<32.8	U	µg/kg	488	1	01/27/26 21:01	01/26/26 10:04
n-Nitrosodi-n-propylamine	EPA 8270E	<16.1	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
N-Nitrosodiphenylamine	EPA 8270E	<56.5	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Pentachlorophenol	EPA 8270E	<77.5	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Phenanthrene	EPA 8270E	39.0		µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
Phenol	EPA 8270E	<49.0	U	µg/kg	96.5	1	01/27/26 21:01	01/26/26 10:04
Pyrene	EPA 8270E	83.9		µg/kg	19.5	1	01/27/26 21:01	01/26/26 10:04
Pyridine	EPA 8270E	<192	U	µg/kg	488	1	01/27/26 21:01	01/26/26 10:04
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	78.7		%REC	48-94	1	01/27/26 21:01	01/26/26 10:04
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	74.3		%REC	50-103	1	01/27/26 21:01	01/26/26 10:04
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	75.2		%REC	43-105	1	01/27/26 21:01	01/26/26 10:04
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	93.2		%REC	55-111	1	01/27/26 21:01	01/26/26 10:04
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	86.7		%REC	47-100	1	01/27/26 21:01	01/26/26 10:04
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	80.1		%REC	49-110	1	01/27/26 21:01	01/26/26 10:04

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<30.3	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
1,1,2,2-Tetrachloroethane	EPA 8260D	<29.5	SU	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<42.3	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
1,1,2-Trichloroethane	EPA 8260D	<28.4	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
1,1-Dichloroethane	EPA 8260D	<24.3	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
1,1-Dichloroethylene	EPA 8260D	<21.6	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
1,2,3-Trichlorobenzene	EPA 8260D	<80.1	U	µg/kg	223	1	01/24/26 06:54	01/23/26 13:29
1,2,3-Trichloropropane	EPA 8260D	<28.0	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
1,2,4-Trichlorobenzene	EPA 8260D	<75.7	U	µg/kg	223	1	01/24/26 06:54	01/23/26 13:29
1,2,4-Trimethylbenzene	EPA 8260D	<49.0	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<61.5	U	µg/kg	223	1	01/24/26 06:54	01/23/26 13:29
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<39.3	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<25.3	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:24
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB03 (5-6')_20260122

Lab ID: HN2601088-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<39.3	U	µg/kg	223	1	01/24/26 06:54	01/23/26 13:29
1,2-Dichloropropane	EPA 8260D	<49.2	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
1,3,5-Trimethylbenzene	EPA 8260D	<47.2	U	µg/kg	223	1	01/24/26 06:54	01/23/26 13:29
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<46.1	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
1,3-Dichloropropene	EPA 8260D	<37.3	U	µg/kg	134	1	01/24/26 06:54	01/23/26 13:29
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<54.3	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<159	U	µg/kg	445	1	01/24/26 06:54	01/23/26 13:29
2-Hexanone	EPA 8260D	<33.1	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<62.2	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Acetone	EPA 8260D	<198	U	µg/kg	223	1	01/24/26 06:54	01/23/26 13:29
Benzene	EPA 8260D	<32.3	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Bromochloromethane	EPA 8260D	<34.0	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Bromodichloromethane	EPA 8260D	<37.4	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Bromoform	EPA 8260D	<28.1	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Carbon disulfide	EPA 8260D	<34.6	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Carbon tetrachloride	EPA 8260D	<26.1	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Chlorobenzene	EPA 8260D	<22.2	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Chlorodibromomethane	EPA 8260D	<37.5	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Chloroethane (Ethyl chloride)	EPA 8260D	<187	SU	µg/kg	223	1	01/24/26 06:54	01/23/26 13:29
Chloroform	EPA 8260D	<24.5	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
cis-1,2-Dichloroethylene	EPA 8260D	<42.9	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
cis-1,3-Dichloropropene	EPA 8260D	<50.3	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Cyclohexane	EPA 8260D	<51.1	U	µg/kg	223	1	01/24/26 06:54	01/23/26 13:29
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<80.8	U	µg/kg	223	1	01/24/26 06:54	01/23/26 13:29
Ethylbenzene	EPA 8260D	<47.4	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Isopropylbenzene	EPA 8260D	<42.2	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
m+p-Xylene	EPA 8260D	<89.0	U	µg/kg	134	1	01/24/26 06:54	01/23/26 13:29
Methyl acetate	EPA 8260D	<79.9	U	µg/kg	556	1	01/24/26 06:54	01/23/26 13:29
Methyl bromide (Bromomethane)	EPA 8260D	<128	U	µg/kg	223	1	01/24/26 06:54	01/23/26 13:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:24
Date Received: 01/23/26 06:00

CLIENT ID: 18441 SB03 (5-6')_20260122

Lab ID: HN2601088-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<183	U	µg/kg	223	1	01/24/26 06:54	01/23/26 13:29
Methyl tert-butyl ether (MTBE)	EPA 8260D	<48.7	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Methylcyclohexane	EPA 8260D	<25.5	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Methylene chloride (Dichloromethane)	EPA 8260D	<177	SU	µg/kg	556	1	01/24/26 06:54	01/23/26 13:29
o-Xylene	EPA 8260D	<25.8	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Styrene	EPA 8260D	<26.5	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<40.2	SU	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Toluene	EPA 8260D	<55.0	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Total Xylene	EPA 8260D	<25.8	U	µg/kg	200	1	01/24/26 06:54	01/23/26 13:29
trans-1,2-Dichloroethylene	EPA 8260D	<55.1	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
trans-1,3-Dichloropropylene	EPA 8260D	<37.3	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Trichloroethene (Trichloroethylene)	EPA 8260D	<29.9	SU	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<34.1	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
Vinyl chloride (Chloroethene)	EPA 8260D	<44.4	U	µg/kg	66.8	1	01/24/26 06:54	01/23/26 13:29
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	99.8		%REC	80-120	1	01/24/26 06:54	01/23/26 13:29
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	96.8		%REC	80-120	1	01/24/26 06:54	01/23/26 13:29
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	95.8		%REC	72-120	1	01/24/26 06:54	01/23/26 13:29
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	96.8		%REC	80-120	1	01/24/26 06:54	01/23/26 13:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:30
Date Received: 01/23/26 06:00

CLIENT ID: 18441 DUP-1_20260122

Lab ID: HN2601088-004

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<1.03	U	µg/kg	5.59	1	01/30/26 06:58	01/28/26 08:19
2,4,5-TP (Silvex)	EPA 8151A	<1.83	U	µg/kg	5.59	1	01/30/26 06:58	01/28/26 08:19
2,4-D	EPA 8151A	<2.98	U	µg/kg	11.2	1	01/30/26 06:58	01/28/26 08:19
Surr: DCAA	EPA 8151A	40.0		%REC	10-116	1	01/30/26 06:58	01/28/26 08:19
General Chemistry Parameters								
Percent Moisture	EPA 3550C	10.8		%	0.1	1	01/23/26 10:55	NA
Chloride	EPA 9056A	<3.81	U	mg/kg	12.3	1	01/24/26 10:58	01/23/26 12:25
Metals								
Arsenic	EPA 6020B	8.57		mg/kg	3.20	10	01/29/26 16:16	01/29/26 09:03
Barium	EPA 6020B	44.3		mg/kg	3.20	10	01/29/26 16:16	01/29/26 09:03
Cadmium	EPA 6020B	<0.192	U	mg/kg	1.28	10	01/29/26 16:16	01/29/26 09:03
Chromium	EPA 6020B	50.7		mg/kg	3.20	10	01/29/26 16:16	01/29/26 09:03
Copper	EPA 6020B	21.6	S	mg/kg	3.20	10	01/29/26 16:16	01/29/26 09:03
Lead	EPA 6020B	58.4		mg/kg	3.20	10	01/29/26 16:16	01/29/26 09:03
Selenium	EPA 6020B	<2.95	U	mg/kg	3.20	10	01/29/26 16:16	01/29/26 09:03
Silver	EPA 6020B	<0.423	U	mg/kg	3.20	10	01/29/26 16:16	01/29/26 09:03
Zinc	EPA 6020B	90.9		mg/kg	6.41	10	01/29/26 16:16	01/29/26 09:03
Mercury	EPA 7471B	0.0457		mg/kg	0.0211	1	01/29/26 12:09	01/28/26 11:04
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<17.4	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
4,4'-DDE	EPA 8081B	54.3		µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
4,4'-DDT	EPA 8081B	<18.1	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
Aldrin	EPA 8081B	<17.7	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
alpha-BHC	EPA 8081B	<17.9	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
beta-BHC	EPA 8081B	<17.8	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
Chlordane, Technical	EPA 8081B	767		µg/kg	67.9	1	01/28/26 13:37	01/23/26 18:51
cis-Chlordane	EPA 8081B	132		µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
delta-BHC	EPA 8081B	<17.8	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
Dieldrin	EPA 8081B	<19.0	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:30
Date Received: 01/23/26 06:00

CLIENT ID: 18441 DUP-1_20260122

Lab ID: HN2601088-004

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<18.3	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
Endosulfan II	EPA 8081B	<18.0	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
Endosulfan sulfate	EPA 8081B	<16.7	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
Endrin	EPA 8081B	<22.0	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
Endrin aldehyde	EPA 8081B	<17.2	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
Endrin ketone	EPA 8081B	<16.5	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
gamma-BHC (Lindane)	EPA 8081B	<17.8	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
Heptachlor	EPA 8081B	<17.5	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
Heptachlor epoxide	EPA 8081B	30.5		µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
Methoxychlor	EPA 8081B	<18.2	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
Toxaphene	EPA 8081B	<29.3	U	µg/kg	163	1	01/27/26 13:29	01/23/26 18:51
trans-Chlordane	EPA 8081B	<18.0	U	µg/kg	27.2	1	01/27/26 13:29	01/23/26 18:51
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	80.3		%REC	53-151	1	01/27/26 13:29	01/23/26 18:51
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	80.1		%REC	67-127	1	01/27/26 13:29	01/23/26 18:51

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<62.1	U	µg/kg	181	1	01/26/26 22:21	01/23/26 18:39
Aroclor 1221	EPA 8082A	<62.1	U	µg/kg	181	1	01/26/26 22:21	01/23/26 18:39
Aroclor 1232	EPA 8082A	<62.1	U	µg/kg	181	1	01/26/26 22:21	01/23/26 18:39
Aroclor 1242	EPA 8082A	<62.1	U	µg/kg	181	1	01/26/26 22:21	01/23/26 18:39
Aroclor 1248	EPA 8082A	<62.1	U	µg/kg	181	1	01/26/26 22:21	01/23/26 18:39
Aroclor 1254	EPA 8082A	<50.6	U	µg/kg	181	1	01/26/26 22:21	01/23/26 18:39
Aroclor 1260	EPA 8082A	<50.6	U	µg/kg	181	1	01/26/26 22:21	01/23/26 18:39
Aroclor 1262	EPA 8082A	<50.6	U	µg/kg	181	1	01/26/26 22:21	01/23/26 18:39
Aroclor 1268	EPA 8082A	<50.6	U	µg/kg	181	1	01/26/26 22:21	01/23/26 18:39
Total PCB	EPA 8082A	<50.6	U	µg/kg	181	1	01/26/26 22:21	01/23/26 18:39
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	106		%REC	54-146	1	01/26/26 22:21	01/23/26 18:39
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	102		%REC	58-140	1	01/26/26 22:21	01/23/26 18:39

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<14.6	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<20.8	U	µg/kg	902	1	01/27/26 21:29	01/26/26 10:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:30
Date Received: 01/23/26 06:00

CLIENT ID: 18441 DUP-1_20260122

Lab ID: HN2601088-004

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<64.7	U	µg/kg	451	1	01/27/26 21:29	01/26/26 10:04
1-Methylnaphthalene	EPA 8270E	<13.0	U	µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<21.1	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
2,3,4,6-Tetrachlorophenol	EPA 8270E	<66.1	U	µg/kg	181	1	01/27/26 21:29	01/26/26 10:04
2,4,5-Trichlorophenol	EPA 8270E	<53.5	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
2,4,6-Trichlorophenol	EPA 8270E	<24.0	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
2,4-Dichlorophenol	EPA 8270E	<48.6	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
2,4-Dimethylphenol	EPA 8270E	<46.4	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
2,4-Dinitrophenol	EPA 8270E	<660	U	µg/kg	902	1	01/27/26 21:29	01/26/26 10:04
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<58.6	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<23.0	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
2-Chloronaphthalene	EPA 8270E	<12.6	U	µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
2-Chlorophenol	EPA 8270E	<59.1	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<75.4	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
2-Methylnaphthalene	EPA 8270E	<9.18	U	µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
2-Methylphenol (o-Cresol)	EPA 8270E	<24.4	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
2-Nitroaniline	EPA 8270E	<50.1	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
2-Nitrophenol	EPA 8270E	<25.7	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
3&4-Methylphenol	EPA 8270E	448		µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
3,3'-Dichlorobenzidine	EPA 8270E	<42.1	U	µg/kg	451	1	01/27/26 21:29	01/26/26 10:04
3-Nitroaniline	EPA 8270E	<52.4	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<49.4	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
4-Chloro-3-methylphenol	EPA 8270E	<25.7	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
4-Chloroaniline	EPA 8270E	<45.9	U	µg/kg	181	1	01/27/26 21:29	01/26/26 10:04
4-Chlorophenyl phenylether	EPA 8270E	<24.9	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
4-Nitroaniline	EPA 8270E	<140	U	µg/kg	451	1	01/27/26 21:29	01/26/26 10:04
4-Nitrophenol	EPA 8270E	<211	U	µg/kg	902	1	01/27/26 21:29	01/26/26 10:04
Acenaphthene	EPA 8270E	<13.1	U	µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:30
Date Received: 01/23/26 06:00

CLIENT ID: 18441 DUP-1_20260122

Lab ID: HN2601088-004

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<15.7	U	µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
Acetophenone	EPA 8270E	<14.1	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Anthracene	EPA 8270E	<12.7	U	µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
Atrazine	EPA 8270E	<52.9	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Benzaldehyde	EPA 8270E	<139	U	µg/kg	181	1	01/27/26 21:29	01/26/26 10:04
Benzo(a)anthracene	EPA 8270E	59.6		µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
Benzo(a)pyrene	EPA 8270E	63.2		µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
Benzo(b)fluoranthene	EPA 8270E	95.7		µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
Benzo(g,h,i)perylene	EPA 8270E	48.7		µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
Benzo(k)fluoranthene	EPA 8270E	28.9		µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
bis(2-Chloroethoxy) methane	EPA 8270E	<57.2	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
bis(2-Chloroethyl) ether	EPA 8270E	<25.6	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Butyl benzyl phthalate	EPA 8270E	<113	U	µg/kg	181	1	01/27/26 21:29	01/26/26 10:04
Caprolactam	EPA 8270E	<81.4	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Carbazole	EPA 8270E	<26.6	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Chrysene	EPA 8270E	65.0		µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	108		µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Dibenz(a,h) anthracene	EPA 8270E	<9.75	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Dibenzofuran	EPA 8270E	<13.3	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Diethyl phthalate	EPA 8270E	<30.7	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Dimethyl phthalate	EPA 8270E	<17.6	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Fluoranthene	EPA 8270E	110		µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
Fluorene	EPA 8270E	<13.1	U	µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
Hexachlorobenzene	EPA 8270E	<26.3	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Hexachlorobutadiene	EPA 8270E	<21.3	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Hexachlorocyclopentadiene	EPA 8270E	<85.6	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Hexachloroethane	EPA 8270E	<37.4	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Indeno(1,2,3-cd) pyrene	EPA 8270E	56.0		µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
Isophorone	EPA 8270E	<17.6	U	µg/kg	451	1	01/27/26 21:29	01/26/26 10:04
Methylphenol, Total	EPA 8270E	448		µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:30
Date Received: 01/23/26 06:00

CLIENT ID: 18441 DUP-1_20260122

Lab ID: HN2601088-004

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<11.5	U	µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
Nitrobenzene	EPA 8270E	<30.3	U	µg/kg	451	1	01/27/26 21:29	01/26/26 10:04
n-Nitrosodi-n-propylamine	EPA 8270E	<14.9	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
N-Nitrosodiphenylamine	EPA 8270E	<52.3	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Pentachlorophenol	EPA 8270E	<71.7	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Phenanthrene	EPA 8270E	46.9		µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
Phenol	EPA 8270E	<45.3	U	µg/kg	89.4	1	01/27/26 21:29	01/26/26 10:04
Pyrene	EPA 8270E	110		µg/kg	18.1	1	01/27/26 21:29	01/26/26 10:04
Pyridine	EPA 8270E	<178	U	µg/kg	451	1	01/27/26 21:29	01/26/26 10:04
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	85.2		%REC	48-94	1	01/27/26 21:29	01/26/26 10:04
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	73.7		%REC	50-103	1	01/27/26 21:29	01/26/26 10:04
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	73.7		%REC	43-105	1	01/27/26 21:29	01/26/26 10:04
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	101		%REC	55-111	1	01/27/26 21:29	01/26/26 10:04
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	85.1		%REC	47-100	1	01/27/26 21:29	01/26/26 10:04
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	79.3		%REC	49-110	1	01/27/26 21:29	01/26/26 10:04

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<32.6	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
1,1,2,2-Tetrachloroethane	EPA 8260D	<31.7	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<45.5	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
1,1,2-Trichloroethane	EPA 8260D	<30.5	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
1,1-Dichloroethane	EPA 8260D	<26.2	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
1,1-Dichloroethylene	EPA 8260D	<23.3	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
1,2,3-Trichlorobenzene	EPA 8260D	<86.2	U	µg/kg	240	1	01/26/26 21:23	01/23/26 13:29
1,2,3-Trichloropropane	EPA 8260D	<30.1	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
1,2,4-Trichlorobenzene	EPA 8260D	<81.5	U	µg/kg	240	1	01/26/26 21:23	01/23/26 13:29
1,2,4-Trimethylbenzene	EPA 8260D	<52.7	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<66.2	U	µg/kg	240	1	01/26/26 21:23	01/23/26 13:29
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<42.3	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<27.3	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:30
Date Received: 01/23/26 06:00

CLIENT ID: 18441 DUP-1_20260122

Lab ID: HN2601088-004

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<42.3	U	µg/kg	240	1	01/26/26 21:23	01/23/26 13:29
1,2-Dichloropropane	EPA 8260D	<53.0	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
1,3,5-Trimethylbenzene	EPA 8260D	<50.8	U	µg/kg	240	1	01/26/26 21:23	01/23/26 13:29
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<49.6	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
1,3-Dichloropropene	EPA 8260D	<40.1	U	µg/kg	144	1	01/26/26 21:23	01/23/26 13:29
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<58.4	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<171	U	µg/kg	479	1	01/26/26 21:23	01/23/26 13:29
2-Hexanone	EPA 8260D	<35.6	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<67.0	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Acetone	EPA 8260D	<213	U	µg/kg	240	1	01/26/26 21:23	01/23/26 13:29
Benzene	EPA 8260D	<34.8	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Bromochloromethane	EPA 8260D	<36.6	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Bromodichloromethane	EPA 8260D	<40.2	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Bromoform	EPA 8260D	<30.3	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Carbon disulfide	EPA 8260D	<37.2	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Carbon tetrachloride	EPA 8260D	<28.1	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Chlorobenzene	EPA 8260D	<23.9	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Chlorodibromomethane	EPA 8260D	<40.4	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Chloroethane (Ethyl chloride)	EPA 8260D	<201	U	µg/kg	240	1	01/26/26 21:23	01/23/26 13:29
Chloroform	EPA 8260D	<26.3	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
cis-1,2-Dichloroethylene	EPA 8260D	<46.2	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
cis-1,3-Dichloropropene	EPA 8260D	<54.1	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Cyclohexane	EPA 8260D	<55.0	U	µg/kg	240	1	01/26/26 21:23	01/23/26 13:29
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<87.0	U	µg/kg	240	1	01/26/26 21:23	01/23/26 13:29
Ethylbenzene	EPA 8260D	<51.0	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Isopropylbenzene	EPA 8260D	<45.4	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
m+p-Xylene	EPA 8260D	<95.8	U	µg/kg	144	1	01/26/26 21:23	01/23/26 13:29
Methyl acetate	EPA 8260D	<86.1	U	µg/kg	599	1	01/26/26 21:23	01/23/26 13:29
Methyl bromide (Bromomethane)	EPA 8260D	<137	U	µg/kg	240	1	01/26/26 21:23	01/23/26 13:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2601088
Date Collected: 01/22/26 14:30
Date Received: 01/23/26 06:00

CLIENT ID: 18441 DUP-1_20260122

Lab ID: HN2601088-004

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<196	U	µg/kg	240	1	01/26/26 21:23	01/23/26 13:29
Methyl tert-butyl ether (MTBE)	EPA 8260D	<52.4	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Methylcyclohexane	EPA 8260D	<27.4	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Methylene chloride (Dichloromethane)	EPA 8260D	<191	U	µg/kg	599	1	01/26/26 21:23	01/23/26 13:29
o-Xylene	EPA 8260D	<27.8	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Styrene	EPA 8260D	<28.5	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<43.3	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Toluene	EPA 8260D	<59.2	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Total Xylene	EPA 8260D	<27.8	U	µg/kg	216	1	01/26/26 21:23	01/23/26 13:29
trans-1,2-Dichloroethylene	EPA 8260D	<59.3	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
trans-1,3-Dichloropropylene	EPA 8260D	<40.1	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Trichloroethene (Trichloroethylene)	EPA 8260D	<32.2	U	µg/kg	71.9	1	01/28/26 06:00	01/23/26 13:29
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<36.8	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
Vinyl chloride (Chloroethene)	EPA 8260D	<47.8	U	µg/kg	71.9	1	01/26/26 21:23	01/23/26 13:29
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	96.2		%REC	80-120	1	01/26/26 21:23	01/23/26 13:29
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	01/26/26 21:23	01/23/26 13:29
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	96.8		%REC	72-120	1	01/26/26 21:23	01/23/26 13:29
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	97.6		%REC	80-120	1	01/26/26 21:23	01/23/26 13:29



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2432524

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3848870

Chlorinated Herbicides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2432524-001
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/30/26 02:23
Prep Date: 01/28/26 08:20

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	23.0	µg/kg		50		46.0	10-116			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2432524-002
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/30/26 02:36
Prep Date: 01/28/26 08:20

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)	29.0	µg/kg	5.00	50		58.0	10-101			
2,4-D	32.0	µg/kg	10.0	50		64.0	10-128			
Surr: DCAA	29.0	µg/kg		50		58.0	10-116			

MS	CLIENT ID: Batch QC	Lab ID: QC-2432524-005
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/30/26 02:49
Prep Date: 01/28/26 08:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	23.6	µg/kg	5.61	49.063	<0.903	48.0	10-119			
2,4,5-TP (Silvex)	19.6	µg/kg	5.61	49.063	<1.61	40.0	10-101			
2,4-D	27.5	µg/kg	11.2	49.063	<2.62	56.0	10-128			
Surr: DCAA	24.5	µg/kg		49.063		50.0	10-116			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2432524-006
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/30/26 03:02
Prep Date: 01/28/26 08:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	25.7	µg/kg	5.65	49.402	<0.920	52.0	10-119	8.69	30	
2,4,5-TP (Silvex)	23.7	µg/kg	5.65	49.402	<1.64	48.0	10-101	18.9	30	
2,4-D	27.7	µg/kg	11.3	49.402	<2.67	56.0	10-128	0.689	30	
Surr: DCAA	23.7	µg/kg		49.402		48.0	10-116	3.39	30	

The following samples were analyzed in this batch: HN2601088-001, HN2601088-002, HN2601088-003, HN2601088-004

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2427668

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3838195

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2427668-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/23/26 10:55
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-2427668-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/23/26 10:55
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	98-102			

DUP	CLIENT ID: 18441 SB01 (1-2')_20260122	Lab ID: QC-2427668-004
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/23/26 10:55
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	16.7	%	0.1		18.3			8.97	10	

DUP	CLIENT ID: Batch QC	Lab ID: QC-2427668-015
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/23/26 10:55
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	8.6	%	0.1		9.2			6.51	10	

The following samples were analyzed in this batch: HN2601088-001, HN2601088-002, HN2601088-003, HN2601088-004

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2427890

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3839848

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2427890-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/24/26 08:40
Prep Date: 01/23/26 12:26

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-2427890-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/24/26 08:48
Prep Date: 01/23/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	94.4	mg/kg	10.0	100		94.4	87-110			

MS	CLIENT ID: Batch QC	Lab ID: QC-2427890-004
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/24/26 09:04
Prep Date: 01/23/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	100	mg/kg	11.3	105.96	<3.28	91.8	87-110			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2427890-005
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/24/26 09:12
Prep Date: 01/23/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	96.9	mg/kg	10.9	102.55	<3.18	91.8	87-110	3.25	15	

The following samples were analyzed in this batch: HN2601088-001, HN2601088-002, HN2601088-003, HN2601088-004



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2432566

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3846904

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2432566-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 01/28/26 17:38
Prep Date: 01/28/26 09:19

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2432566-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 01/28/26 17:39
Prep Date: 01/28/26 09:19

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.93	mg/kg	0.250	5		98.6	80-120			
Barium	5.30	mg/kg	0.250	5		106	80-120			
Cadmium	5.25	mg/kg	0.100	5		105	80-120			
Chromium	4.98	mg/kg	0.250	5		99.5	80-120			
Copper	4.99	mg/kg	0.250	5		99.8	80-120			
Lead	5.19	mg/kg	0.250	5		104	80-120			
Selenium	4.91	mg/kg	0.250	5		98.2	80-120			
Silver	5.28	mg/kg	0.250	5		106	80-120			
Zinc	4.92	mg/kg	0.500	5		98.3	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2432566-004
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 01/28/26 17:46
Prep Date: 01/28/26 09:19

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	9.50	mg/kg	2.90	5.2411	4.08	111	75-125			
Barium	86.8	mg/kg	2.90	5	58.0	NC	75-125			O
Cadmium	5.36	mg/kg	1.16	5.2411	<0.157	99.8	75-125			
Chromium	21.4	mg/kg	2.90	5.2411	8.81	257	75-125			S
Copper	18.8	mg/kg	2.90	5.2411	11.4	162	75-125			S
Lead	29.9	mg/kg	2.90	5	26.5	NC	75-125			O
Selenium	4.98	mg/kg	2.90	5.2411	<2.41	98.2	75-125			
Silver	5.31	mg/kg	2.90	5.2411	<0.346	101	75-125			
Zinc	62.9	mg/kg	5.80	5	42.6	NC	75-125			O

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2432566

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3846904

MSD	CLIENT ID: Batch QC	Lab ID: QC-2432566-005
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Method: EPA 6020B

Dilution: 10

Analysis Date: 01/28/26 17:48

Prep Date: 01/28/26 09:19

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	10.1	mg/kg	3.00	5.423	4.08	118	75-125	5.86	20	
Barium	74.3	mg/kg	3.00	5	58.0	NC	75-125	15.5	20	O
Cadmium	5.27	mg/kg	1.20	5.423	<0.163	94.6	75-125	1.84	20	
Chromium	19.3	mg/kg	3.00	5.423	8.81	209	75-125	10.4	20	S
Copper	19.6	mg/kg	3.00	5.423	11.4	171	75-125	4.23	20	S
Lead	20.9	mg/kg	3.00	5	26.5	NC	75-125	35.5	20	OR
Selenium	4.74	mg/kg	3.00	5.423	<2.49	90.5	75-125	4.86	20	
Silver	5.15	mg/kg	3.00	5.423	<0.358	94.3	75-125	3.11	20	
Zinc	52.9	mg/kg	6.00	5	42.6	NC	75-125	17.1	20	O

PDS	CLIENT ID: Batch QC	Lab ID: QC-2432566-007
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Method: EPA 6020B

Dilution: 10

Analysis Date: 01/28/26 17:51

Prep Date: 01/28/26 09:19

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	56.2	mg/kg	2.94	53.191	4.08	98.8	75-125			
Barium	121	mg/kg	2.94	53.191	58.0	128	75-125			S
Cadmium	58.3	mg/kg	1.18	53.191	<0.160	109	75-125			
Chromium	58.9	mg/kg	2.94	53.191	8.81	95.8	75-125			
Copper	60.1	mg/kg	2.94	53.191	11.4	93.6	75-125			
Lead	85.6	mg/kg	2.94	53.191	26.5	116	75-125			
Selenium	55.8	mg/kg	2.94	53.191	<2.45	105	75-125			
Silver	43.4	mg/kg	2.94	53.191	<0.351	81.4	75-125			
Zinc	89.3	mg/kg	5.89	53.191	42.6	95.4	75-125			

The following samples were analyzed in this batch: HN2601088-001, HN2601088-002, HN2601088-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2432807

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3848639

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2432807-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/29/26 11:36
Prep Date: 01/28/26 11:05

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-2432807-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/29/26 11:38
Prep Date: 01/28/26 11:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.161	mg/kg	0.0200	0.1665		96.6	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2432807-004
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/29/26 11:42
Prep Date: 01/28/26 11:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.132	mg/kg	0.0200	0.15298	<0.0136	79.3	75-125			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2432807-005
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/29/26 11:44
Prep Date: 01/28/26 11:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.125	mg/kg	0.0200	0.14626	<0.0136	78.0	75-125	5.65	35	

The following samples were analyzed in this batch: HN2601088-001, HN2601088-002, HN2601088-003, HN2601088-004



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2433992

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3849618

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2433992-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 01/29/26 16:09
Prep Date: 01/29/26 09:04

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2433992-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 01/29/26 16:11
Prep Date: 01/29/26 09:04

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.76	mg/kg	0.250	5		95.3	80-120			
Barium	5.05	mg/kg	0.250	5		101	80-120			
Cadmium	4.96	mg/kg	0.100	5		99.1	80-120			
Chromium	4.77	mg/kg	0.250	5		95.4	80-120			
Copper	4.83	mg/kg	0.250	5		96.7	80-120			
Lead	4.99	mg/kg	0.250	5		99.8	80-120			
Selenium	4.68	mg/kg	0.250	5		93.6	80-120			
Silver	5.12	mg/kg	0.250	5		102	80-120			
Zinc	4.79	mg/kg	0.500	5		95.7	80-120			

MS	CLIENT ID: 18441 DUP-1_20260122	Lab ID: QC-2433992-004
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 01/29/26 16:17
Prep Date: 01/29/26 09:04

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	12.0	mg/kg	3.19	5.6948	8.57	76.1	75-125			
Barium	59.8	mg/kg	3.19	5	44.3	NC	75-125			O
Cadmium	7.21	mg/kg	1.28	5.6948	0.987	111	75-125			
Chromium	80.9	mg/kg	3.19	5	50.7	NC	75-125			O
Copper	28.3	mg/kg	3.19	5.6948	21.6	158	75-125			S
Lead	96.2	mg/kg	3.19	5	58.4	NC	75-125			O
Selenium	5.34	mg/kg	3.19	5.6948	<2.62	99.8	75-125			
Silver	5.96	mg/kg	3.19	5.6948	<0.376	98.8	75-125			
Zinc	120	mg/kg	6.39	5	90.9	NC	75-125			O

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2433992

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3849618

MSD	CLIENT ID: 18441 DUP-1_20260122	Lab ID: QC-2433992-005
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 01/29/26 16:19
Prep Date: 01/29/26 09:04

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	13.6	mg/kg	3.17	5.6561	8.57	106	75-125	12.9	20	
Barium	63.5	mg/kg	3.17	5	44.3	NC	75-125	5.98	20	O
Cadmium	6.11	mg/kg	1.27	5.6561	0.987	92.4	75-125	16.5	20	
Chromium	46.5	mg/kg	3.17	5	50.7	NC	75-125	53.9	20	OR
Copper	26.6	mg/kg	3.17	5.6561	21.6	130	75-125	6.01	20	S
Lead	54.3	mg/kg	3.17	5	58.4	NC	75-125	55.7	20	OR
Selenium	4.90	mg/kg	3.17	5.6561	<2.60	92.7	75-125	8.57	20	
Silver	5.82	mg/kg	3.17	5.6561	<0.373	97.0	75-125	2.38	20	
Zinc	97.7	mg/kg	6.34	5	90.9	NC	75-125	20.4	20	OR

PDS	CLIENT ID: 18441 DUP-1_20260122	Lab ID: QC-2433992-007
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 01/29/26 16:22
Prep Date: 01/29/26 09:04

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	61.7	mg/kg	3.20	57.143	8.57	94.7	75-125			
Barium	95.3	mg/kg	3.20	57.143	44.3	97.8	75-125			
Cadmium	56.7	mg/kg	1.28	57.143	0.987	97.6	75-125			
Chromium	95.0	mg/kg	3.20	57.143	50.7	87.3	75-125			
Copper	71.1	mg/kg	3.20	57.143	21.6	90.6	75-125			
Lead	107	mg/kg	3.20	57.143	58.4	95.4	75-125			
Selenium	54.4	mg/kg	3.20	57.143	<2.63	95.7	75-125			
Silver	47.1	mg/kg	3.20	57.143	<0.377	81.9	75-125			
Zinc	129	mg/kg	6.41	57.143	90.9	83.5	75-125			

The following samples were analyzed in this batch: HN2601088-004



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428536

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3843934

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2428536-001
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 01/27/26 00:37**Prep Date:** 01/23/26 18:52

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	35.8	µg/kg		33.33		107	53-151			
Surr: Tetrachloro-m-xylene	26.3	µg/kg		33.33		78.9	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2428536-002
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 01/27/26 00:52**Prep Date:** 01/23/26 18:52

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	28.0	µg/kg	10.0	33.33		84.1	55-141			
4,4'-DDE	27.5	µg/kg	10.0	33.33		82.5	55-143			
4,4'-DDT	28.8	µg/kg	10.0	33.33		86.3	50-144			
Aldrin	28.4	µg/kg	10.0	33.33		85.2	57-141			
alpha-BHC	27.9	µg/kg	10.0	33.33		83.7	58-144			
beta-BHC	27.7	µg/kg	10.0	33.33		83.1	55-147			
cis-Chlordane	28.0	µg/kg	10.0	33.33		84.0	58-142			
delta-BHC	28.0	µg/kg	10.0	33.33		84.2	59-142			
Dieldrin	27.9	µg/kg	10.0	33.33		83.8	59-142			
Endosulfan I	27.3	µg/kg	10.0	33.33		81.9	57-145			
Endosulfan II	27.9	µg/kg	10.0	33.33		83.8	58-138			
Endosulfan sulfate	28.1	µg/kg	10.0	33.33		84.2	54-136			
Endrin	30.6	µg/kg	10.0	33.33		91.9	45-150			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428536

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3843934

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2428536-002
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/27/26 00:52

Prep Date: 01/23/26 18:52

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Endrin aldehyde	21.5	µg/kg	10.0	33.33		64.6	41-147			
Endrin ketone	29.0	µg/kg	10.0	33.33		86.9	54-146			
gamma-BHC (Lindane)	27.7	µg/kg	10.0	33.33		83.0	58-145			
Heptachlor	34.0	µg/kg	10.0	33.33		102	51-145			
Heptachlor epoxide	28.3	µg/kg	10.0	33.33		85.0	59-143			
Methoxychlor	30.8	µg/kg	10.0	33.33		92.3	43-144			
trans-Chlordane	27.8	µg/kg	10.0	33.33		83.5	56-145			
<i>Surr: Decachlorobiphenyl</i>	33.4	<i>µg/kg</i>		33.33		100	<i>51-151</i>			
<i>Surr: Tetrachloro-m-xylene</i>	25.6	<i>µg/kg</i>		33.33		76.7	<i>67-127</i>			

The following samples were analyzed in this batch: HN2601088-001, HN2601088-002, HN2601088-003, HN2601088-004



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428536

Work Order: HN2601088
Date Collected: 01/22/26 14:07
Date Received: 01/23/26 06:00
Run ID: 3846260

Organochlorine Pesticides by GC/ECD

MS CLIENT ID: 18441 SB01 (1-2')_20260122 Lab ID: QC-2428536-005

Method: EPA 8081B

Dilution: 1

Analysis Date: 01/27/26 12:15

Prep Date: 01/23/26 18:52

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	47.7	µg/kg	20.5	55.86	<10.7	83.4	55-141			
4,4'-DDE	63.1	µg/kg	20.5	55.86	17.8	87.0	55-143			
4,4'-DDT	61.4	µg/kg	20.5	55.86	<11.1	92.6	50-144			
Aldrin	46.0	µg/kg	20.5	55.86	<10.9	82.4	57-141			
alpha-BHC	44.2	µg/kg	20.5	55.86	<11.0	79.2	58-144			
beta-BHC	45.1	µg/kg	20.5	55.86	<11.0	80.8	55-147			
cis-Chlordane	90.8	µg/kg	20.5	55.86	29.7	119	58-142			
delta-BHC	46.2	µg/kg	20.5	55.86	<11.0	82.7	59-142			
Dieldrin	49.4	µg/kg	20.5	55.86	<11.7	88.5	59-142			
Endosulfan I	49.6	µg/kg	20.5	55.86	<11.3	88.7	57-145			
Endosulfan II	47.0	µg/kg	20.5	55.86	<11.1	84.2	58-138			
Endosulfan sulfate	47.8	µg/kg	20.5	55.86	<10.3	85.6	54-135			
Endrin	52.3	µg/kg	20.5	55.86	<13.6	93.7	45-150			
Endrin aldehyde	55.6	µg/kg	20.5	55.86	<10.6	99.5	41-147			
Endrin ketone	46.9	µg/kg	20.5	55.86	<10.2	84.0	54-146			
gamma-BHC (Lindane)	44.5	µg/kg	20.5	55.86	<11.0	79.7	58-145			
Heptachlor	57.0	µg/kg	20.5	55.86	<10.8	102	51-145			
Heptachlor epoxide	54.7	µg/kg	20.5	55.86	<11.1	86.1	59-143			
Methoxychlor	54.5	µg/kg	20.5	55.86	<11.2	97.5	43-144			
trans-Chlordane	68.1	µg/kg	20.5	55.86	24.6	85.9	56-145			
Surr: Decachlorobiphenyl	44.6	µg/kg		55.86		79.8	53-151			
Surr: Tetrachloro-m-xylene	37.8	µg/kg		55.86		67.7	67-127			

MSD CLIENT ID: 18441 SB01 (1-2')_20260122 Lab ID: QC-2428536-006

Method: EPA 8081B

Dilution: 1

Analysis Date: 01/27/26 12:30

Prep Date: 01/23/26 18:52

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	53.0	µg/kg	20.5	55.86	<10.7	92.8	55-141	10.4	20	
4,4'-DDE	67.0	µg/kg	20.5	55.86	17.8	94.0	55-143	6.01	20	
4,4'-DDT	70.9	µg/kg	20.5	55.86	<11.1	110	50-144	14.4	20	
Aldrin	52.5	µg/kg	20.5	55.86	<10.9	93.9	57-141	13.0	20	
alpha-BHC	51.1	µg/kg	20.5	55.86	<11.0	91.4	58-144	14.4	20	
beta-BHC	51.5	µg/kg	20.5	55.86	<11.0	92.2	55-147	13.2	20	
cis-Chlordane	110	µg/kg	20.5	55.86	29.7	153	58-142	19.2	20	S
delta-BHC	53.6	µg/kg	20.5	55.86	<11.0	96.0	59-142	14.8	20	
Dieldrin	55.2	µg/kg	20.5	55.86	<11.7	98.8	59-142	11.1	20	
Endosulfan I	56.8	µg/kg	20.5	55.86	<11.3	102	57-145	13.6	20	
Endosulfan II	53.5	µg/kg	20.5	55.86	<11.1	95.8	58-138	12.8	20	
Endosulfan sulfate	54.6	µg/kg	20.5	55.86	<10.3	97.7	54-135	13.2	20	
Endrin	59.1	µg/kg	20.5	55.86	<13.6	106	45-150	12.1	20	
Endrin aldehyde	61.8	µg/kg	20.5	55.86	<10.6	111	41-147	10.6	20	
Endrin ketone	53.7	µg/kg	20.5	55.86	<10.2	96.2	54-146	13.6	20	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428536

Work Order: HN2601088
Date Collected: 01/22/26 14:07
Date Received: 01/23/26 06:00
Run ID: 3846260

MSD	CLIENT ID: 18441 SB01 (1-2')_20260122	Lab ID: QC-2428536-006
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/27/26 12:30

Prep Date: 01/23/26 18:52

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
gamma-BHC (Lindane)	50.6	µg/kg	20.5	55.86	<11.0	90.6	58-145	12.8	20	
Heptachlor	63.9	µg/kg	20.5	55.86	<10.8	114	51-145	11.6	20	
Heptachlor epoxide	63.5	µg/kg	20.5	55.86	<11.1	102	59-143	14.8	20	
Methoxychlor	63.6	µg/kg	20.5	55.86	<11.2	114	43-144	15.5	20	
trans-Chlordane	85.8	µg/kg	20.5	55.86	24.6	118	56-145	23.1	20	R
<i>Surr: Decachlorobiphenyl</i>	49.6	<i>µg/kg</i>		55.86		88.8	53-151	10.7	30	
<i>Surr: Tetrachloro-m-xylene</i>	42.3	<i>µg/kg</i>		55.86		75.7	67-127	11.2	30	

The following samples were analyzed in this batch: HN2601088-001, HN2601088-002, HN2601088-003, HN2601088-004



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428534

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3844223

Polychlorinated Biphenyls (PCBs) by GC/ECD

MB	CLIENT ID: Method Blank				Lab ID: QC-2428534-001					
Method: EPA 8082A			Dilution: 1		Analysis Date: 01/26/26 20:00					
					Prep Date: 01/23/26 18:40					
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	37.1	µg/kg		33.3		111	54-146			
Surr: Tetrachloro-m-xylene	31.7	µg/kg		33.3		95.3	58-140			

LCS		CLIENT ID: Laboratory Control Sample					Lab ID: QC-2428534-002				
Method: EPA 8082A			Dilution: 1			Analysis Date: 01/26/26 20:12					
						Prep Date: 01/23/26 18:40					
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual	
Aroclor 1016	816	µg/kg	66.7	833		97.9	71-135				
Aroclor 1260	699	µg/kg	66.7	833		83.9	67-135				
Surr: Decachlorobiphenyl	35.0	µg/kg		33.3		105	54-146				
Surr: Tetrachloro-m-xylene	31.8	µg/kg		33.3		95.3	58-140				

MS		CLIENT ID: 18441 SB01 (1-2')_20260122					Lab ID: QC-2428534-005			
Method: EPA 8082A			Dilution: 1			Analysis Date: 01/26/26 21:22				
						Prep Date: 01/23/26 18:40				
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	1620	µg/kg	137	1400.8	<38.4	116	71-135			
Aroclor 1260	1290	µg/kg	137	1400.8	<31.3	91.9	67-135			
Surr: Decachlorobiphenyl	62.9	µg/kg		55.998		112	54-146			
Surr: Tetrachloro-m-xylene	55.1	µg/kg		55.998		98.4	58-140			

MSD		CLIENT ID: 18441 SB01 (1-2')_20260122					Lab ID: QC-2428534-006				
Method: EPA 8082A			Dilution: 1			Analysis Date: 01/26/26 21:34					
						Prep Date: 01/23/26 18:40					
Analyte	Result	Units	MRL	Spike	Spike Ref.	% Rec	% Rec	RPD	Limit	Qual	
				Amount	Amount	% Rec	Limits	RPD			
Aroclor 1016	1380	µg/kg	136	1388.3	<38.1	99.7	71-135	15.6	20		
Aroclor 1260	1210	µg/kg	136	1388.3	<31.0	87.2	67-135	6.12	20		
Surr: Decachlorobiphenyl	59.4	µg/kg		55.5		107	54-146	5.73	30		
Surr: Tetrachloro-m-xylene	48.7	µg/kg		55.5		87.8	58-140	12.3	30		

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428534

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3844223

The following samples were analyzed in this batch: HN2601088-001, HN2601088-002, HN2601088-003, HN2601088-004
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Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2429903

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3846362

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2429903-001
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 01/27/26 14:24**Prep Date:** 01/26/26 10:05

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2429903

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3846362

MB	CLIENT ID: Method Blank	Lab ID: QC-2429903-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/27/26 14:24

Prep Date: 01/26/26 10:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Butyl benzyl phthalate	<41.7	µg/kg	67.0							U
Caprolactam	<30.1	µg/kg	33.0							U
Carbazole	<9.82	µg/kg	33.0							U
Chrysene	<5.39	µg/kg	6.67							U
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	<27.6	µg/kg	33.0							U
Dibenz(a,h) anthracene	<3.60	µg/kg	33.0							U
Dibenzofuran	<4.90	µg/kg	33.0							U
Diethyl phthalate	<11.3	µg/kg	33.0							U
Dimethyl phthalate	<6.50	µg/kg	33.0							U
Fluoranthene	<3.20	µg/kg	6.67							U
Fluorene	<4.84	µg/kg	6.67							U
Hexachlorobenzene	<9.70	µg/kg	33.0							U
Hexachlorobutadiene	<7.85	µg/kg	33.0							U
Hexachlorocyclopentadiene	<31.6	µg/kg	33.0							U
Hexachloroethane	<13.8	µg/kg	33.0							U
Indeno(1,2,3-cd) pyrene	<4.64	µg/kg	6.67							U
Isophorone	<6.51	µg/kg	167							U
Methylphenol, Total	<9.01	µg/kg	67.0							U
Naphthalene	<4.26	µg/kg	6.67							U
Nitrobenzene	<11.2	µg/kg	167							U
n-Nitrosodi-n-propylamine	<5.50	µg/kg	33.0							U
N-Nitrosodiphenylamine	<19.3	µg/kg	33.0							U
Pentachlorophenol	<26.5	µg/kg	33.0							U
Phenanthrene	<3.10	µg/kg	6.67							U
Phenol	<16.7	µg/kg	33.0							U
Pyrene	<3.33	µg/kg	6.67							U
Pyridine	<65.6	µg/kg	167							U
Surr: 2,4,6-Tribromophenol	2410	µg/kg		3333		72.3	48-94			
Surr: 2-Fluorobiphenyl	2490	µg/kg		3333		74.6	50-103			
Surr: 2-Fluorophenol	2590	µg/kg		3333		77.8	43-105			
Surr: 4-Terphenyl-d14	3070	µg/kg		3333		92.0	55-111			
Surr: Nitrobenzene-d5	2890	µg/kg		3333		86.6	47-100			
Surr: Phenol-d6	2700	µg/kg		3333		81.0	49-110			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2429903-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/27/26 14:53

Prep Date: 01/26/26 10:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1020	µg/kg	33.0	1333		76.8	57-101			
1,2,4,5-Tetrachlorobenzene	993	µg/kg	33.0	1333		74.5	54-98			
1-Methylnaphthalene	1000	µg/kg	6.67	1333		75.3	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	965	µg/kg	33.0	1333		72.4	50-101			
2,3,4,6-Tetrachlorophenol	954	µg/kg	67.0	1333		71.6	48-103			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2429903

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3846362

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2429903-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/27/26 14:53

Prep Date: 01/26/26 10:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	901	µg/kg	33.0	1333		67.6	54-98			
2,4,6-Trichlorophenol	903	µg/kg	33.0	1333		67.8	56-97			
2,4-Dichlorophenol	970	µg/kg	33.0	1333		72.8	54-99			
2,4-Dimethylphenol	891	µg/kg	33.0	1333		66.8	47-102			
2,4-Dinitrophenol	<244	µg/kg	333	1333		18.8	10-100			U
2,4-Dinitrotoluene (2,4-DNT)	945	µg/kg	33.0	1333		70.9	62-105			
2,6-Dinitrotoluene (2,6-DNT)	973	µg/kg	33.0	1333		73.0	62-103			
2-Chloronaphthalene	869	µg/kg	6.67	1333		65.2	57-101			
2-Chlorophenol	929	µg/kg	33.0	1333		69.7	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	767	µg/kg	33.0	1333		57.6	42-104			
2-Methylnaphthalene	983	µg/kg	6.67	1333		73.8	55-102			
2-Methylphenol (o-Cresol)	936	µg/kg	33.0	1333		70.2	54-103			
2-Nitroaniline	803	µg/kg	33.0	1333		60.3	57-103			
2-Nitrophenol	983	µg/kg	33.0	1333		73.7	52-102			
3&4-Methylphenol	935	µg/kg	33.0	1333		70.1	56-103			
3,3'-Dichlorobenzidine	737	µg/kg	167	1333		55.3	41-91			
3-Nitroaniline	673	µg/kg	33.0	1333		50.5	35-107			
4-Bromophenyl phenyl ether (BDE-3)	999	µg/kg	33.0	1333		75.0	63-104			
4-Chloro-3-methylphenol	1010	µg/kg	33.0	1333		75.9	57-103			
4-Chloroaniline	1020	µg/kg	67.0	1333		76.7	32-99			
4-Chlorophenyl phenylether	971	µg/kg	33.0	1333		72.9	62-100			
4-Nitroaniline	463	µg/kg	167	1333		34.8	19-124			
4-Nitrophenol	815	µg/kg	333	1333		61.1	44-106			
Acenaphthene	932	µg/kg	6.67	1333		69.9	60-101			
Acenaphthylene	946	µg/kg	6.67	1333		71.0	59-101			
Acetophenone	947	µg/kg	33.0	1333		71.1	54-102			
Anthracene	993	µg/kg	6.67	1333		74.5	63-96			
Atrazine	1150	µg/kg	33.0	1333		86.6	60-110			
Benzaldehyde	231	µg/kg	67.0	1333		17.3	10-143			
Benzo(a)anthracene	997	µg/kg	6.67	1333		74.8	66-102			
Benzo(a)pyrene	1040	µg/kg	6.67	1333		77.9	66-105			
Benzo(b)fluoranthene	917	µg/kg	6.67	1333		68.8	67-105			
Benzo(g,h,i)perylene	1050	µg/kg	6.67	1333		79.1	59-110			
Benzo(k)fluoranthene	1020	µg/kg	6.67	1333		76.9	68-106			
bis(2-Chloroethoxy)methane	965	µg/kg	33.0	1333		72.4	54-102			
bis(2-Chloroethyl) ether	959	µg/kg	33.0	1333		72.0	51-101			
Butyl benzyl phthalate	1110	µg/kg	67.0	1333		83.1	59-107			
Caprolactam	832	µg/kg	33.0	1333		62.4	49-103			
Carbazole	997	µg/kg	33.0	1333		74.8	63-103			
Chrysene	1150	µg/kg	6.67	1333		86.4	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1170	µg/kg	33.0	1333		88.0	63-101			
Dibenz(a,h) anthracene	1050	µg/kg	33.0	1333		78.6	61-109			
Dibenzofuran	943	µg/kg	33.0	1333		70.7	61-101			
Diethyl phthalate	991	µg/kg	33.0	1333		74.4	63-105			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2429903

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3846362

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2429903-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/27/26 14:53

Prep Date: 01/26/26 10:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Dimethyl phthalate	980	µg/kg	33.0	1333		73.5	64-104			
Fluoranthene	1010	µg/kg	6.67	1333		75.4	66-105			
Fluorene	927	µg/kg	6.67	1333		69.5	62-101			
Hexachlorobenzene	970	µg/kg	33.0	1333		72.8	61-104			
Hexachlorobutadiene	987	µg/kg	33.0	1333		74.1	52-99			
Hexachlorocyclopentadiene	933	µg/kg	33.0	1333		70.0	39-106			
Hexachloroethane	905	µg/kg	33.0	1333		67.9	59-99			
Indeno(1,2,3-cd) pyrene	1090	µg/kg	6.67	1333		82.1	57-114			
Isophorone	1020	µg/kg	167	1333		76.2	55-101			
Methylphenol, Total	1870	µg/kg	67.0	2667		70.1	54-103			
Naphthalene	959	µg/kg	6.67	1333		71.9	54-99			
Nitrobenzene	1010	µg/kg	167	1333		75.8	53-100			
n-Nitrosodi-n-propylamine	949	µg/kg	33.0	1333		71.2	52-104			
N-Nitrosodiphenylamine	976	µg/kg	33.0	1333		73.2	61-104			
Pentachlorophenol	787	µg/kg	33.0	1333		59.0	35-100			
Phenanthrene	937	µg/kg	6.67	1333		70.3	64-101			
Phenol	941	µg/kg	33.0	1333		70.6	51-107			
Pyrene	1140	µg/kg	6.67	1333		85.7	62-114			
Pyridine	739	µg/kg	167	1333		55.5	40-84			
Surr: 2,4,6-Tribromophenol	2490	µg/kg		3333		74.8	48-94			
Surr: 2-Fluorobiphenyl	2360	µg/kg		3333		70.9	50-103			
Surr: 2-Fluorophenol	2370	µg/kg		3333		71.0	43-105			
Surr: 4-Terphenyl-d14	2820	µg/kg		3333		84.7	55-111			
Surr: Nitrobenzene-d5	2860	µg/kg		3333		85.8	47-100			
Surr: Phenol-d6	2530	µg/kg		3333		76.0	49-110			

MS	CLIENT ID: Batch QC	Lab ID: QC-2429903-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/27/26 15:21

Prep Date: 01/26/26 10:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	2620	µg/kg	87.9	3218.3	<13.1	81.4	57-101			
1,2,4,5-Tetrachlorobenzene	2560	µg/kg	887	3218.3	<18.6	79.4	54-98			
1-Methylnaphthalene	2560	µg/kg	17.8	3218.3	<11.6	79.5	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	2390	µg/kg	87.9	3218.3	<18.9	74.4	50-101			
2,3,4,6-Tetrachlorophenol	2620	µg/kg	178	3218.3	<58.9	81.3	48-103			
2,4,5-Trichlorophenol	2520	µg/kg	87.9	3218.3	<47.7	78.2	54-98			
2,4,6-Trichlorophenol	2390	µg/kg	87.9	3218.3	<21.4	74.1	56-97			
2,4-Dichlorophenol	2590	µg/kg	87.9	3218.3	<43.3	80.4	54-99			
2,4-Dimethylphenol	2290	µg/kg	87.9	3218.3	<41.4	71.0	47-102			
2,4-Dinitrophenol	932	µg/kg	887	3218.3	<58.8	29.0	10-100			
2,4-Dinitrotoluene (2,4-DNT)	2400	µg/kg	87.9	3218.3	<52.3	74.6	62-105			
2,6-Dinitrotoluene (2,6-DNT)	2460	µg/kg	87.9	3218.3	<20.5	76.4	62-103			
2-Chloronaphthalene	2220	µg/kg	17.8	3218.3	<11.3	69.0	57-101			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2429903

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3846362

MS	CLIENT ID: Batch QC	Lab ID: QC-2429903-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/27/26 15:21

Prep Date: 01/26/26 10:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2-Chlorophenol	2350	µg/kg	87.9	3218.3	<52.7	73.1	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	1990	µg/kg	87.9	3218.3	<67.2	61.9	42-104			
2-Methylnaphthalene	2550	µg/kg	17.8	3218.3	<8.18	79.2	55-102			
2-Methylphenol (o-Cresol)	2360	µg/kg	87.9	3218.3	<21.8	73.3	54-103			
2-Nitroaniline	2060	µg/kg	87.9	3218.3	<44.7	64.1	57-103			
2-Nitrophenol	2440	µg/kg	87.9	3218.3	<22.9	75.9	52-102			
3&4-Methylphenol	2360	µg/kg	87.9	3218.3	<43.9	73.4	56-103			
3,3'-Dichlorobenzidine	1560	µg/kg	444	3218.3	<37.6	48.4	41-91			
3-Nitroaniline	1600	µg/kg	87.9	3218.3	<46.7	49.6	35-107			
4-Bromophenyl phenyl ether (BDE-3)	2600	µg/kg	87.9	3218.3	<44.1	80.9	63-104			
4-Chloro-3-methylphenol	2700	µg/kg	87.9	3218.3	<22.9	84.0	57-103			
4-Chloroaniline	2440	µg/kg	178	3218.3	<40.9	75.9	32-99			
4-Chlorophenyl phenylether	2490	µg/kg	87.9	3218.3	<22.2	77.4	62-100			
4-Nitroaniline	1160	µg/kg	444	3218.3	<125	36.0	19-124			
4-Nitrophenol	2260	µg/kg	887	3218.3	<188	70.3	44-106			
Acenaphthene	2390	µg/kg	17.8	3218.3	<11.6	74.3	60-101			
Acenaphthylene	2440	µg/kg	17.8	3218.3	<14.0	75.9	59-101			
Acetophenone	2320	µg/kg	87.9	3218.3	<12.6	72.2	54-102			
Anthracene	2600	µg/kg	17.8	3218.3	<11.3	80.8	63-96			
Atrazine	2890	µg/kg	87.9	3218.3	<47.2	89.7	60-110			
Benzaldehyde	692	µg/kg	178	3218.3	<124	21.5	10-143			
Benzo(a)anthracene	2670	µg/kg	17.8	3218.3	69.6	81.0	66-102			
Benzo(a)pyrene	2860	µg/kg	17.8	3218.3	85.6	86.6	66-105			
Benzo(b)fluoranthene	2520	µg/kg	17.8	3218.3	116	74.9	67-105			
Benzo(g,h,i)perylene	2820	µg/kg	17.8	3218.3	78.5	85.3	59-110			
Benzo(k)fluoranthene	2750	µg/kg	17.8	3218.3	42.8	84.1	68-106			
bis(2-Chloroethoxy)methane	2390	µg/kg	87.9	3218.3	<51.0	74.4	54-102			
bis(2-Chloroethyl) ether	2420	µg/kg	87.9	3218.3	<22.8	75.3	51-101			
Butyl benzyl phthalate	2960	µg/kg	178	3218.3	<101	92.0	59-107			
Caprolactam	2190	µg/kg	87.9	3218.3	<72.6	67.9	49-103			
Carbazole	2560	µg/kg	87.9	3218.3	<23.7	79.6	63-103			
Chrysene	3080	µg/kg	17.8	3218.3	73.1	93.5	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	3040	µg/kg	87.9	3218.3	<66.6	94.4	63-101			
Dibenz(a,h) anthracene	2700	µg/kg	87.9	3218.3	<8.69	83.8	61-109			
Dibenzofuran	2440	µg/kg	87.9	3218.3	<11.8	75.8	61-101			
Diethyl phthalate	2500	µg/kg	87.9	3218.3	<27.4	77.7	63-105			
Dimethyl phthalate	2400	µg/kg	87.9	3218.3	<15.7	74.5	64-104			
Fluoranthene	2840	µg/kg	17.8	3218.3	134	84.6	66-105			
Fluorene	2410	µg/kg	17.8	3218.3	<11.7	74.8	62-101			
Hexachlorobenzene	2580	µg/kg	87.9	3218.3	<23.4	80.0	61-104			
Hexachlorobutadiene	2590	µg/kg	87.9	3218.3	<19.0	80.4	52-99			
Hexachlorocyclopentadiene	1930	µg/kg	87.9	3218.3	<78.7	60.1	39-106			
Hexachloroethane	2320	µg/kg	87.9	3218.3	<33.3	72.1	59-99			
Indeno(1,2,3-cd) pyrene	2970	µg/kg	17.8	3218.3	80.3	90.0	57-114			



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2429903

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3846362

MS		CLIENT ID: Batch QC				Lab ID: QC-2429903-005				
Method: EPA 8270E		Dilution: 1				Analysis Date: 01/27/26 15:21				
						Prep Date: 01/26/26 10:05				
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Isophorone	2500	µg/kg	444	3218.3	<15.7	77.6	55-101			
Methylphenol, Total	4720	µg/kg	87.9	6438.9	<21.8	73.3	54-103			
Naphthalene	2440	µg/kg	17.8	3218.3	<10.3	75.7	54-99			
Nitrobenzene	2510	µg/kg	444	3218.3	<27.0	78.1	53-100			
n-Nitrosodi-n-propylamine	2310	µg/kg	87.9	3218.3	<13.3	71.8	52-104			
N-Nitrosodiphenylamine	2540	µg/kg	87.9	3218.3	<46.6	78.8	61-104			
Pentachlorophenol	2060	µg/kg	87.9	3218.3	<63.9	64.1	35-100			
Phenanthrene	2480	µg/kg	17.8	3218.3	37.5	76.1	64-101			
Phenol	2610	µg/kg	87.9	3218.3	<40.4	81.0	51-107			
Pyrene	3240	µg/kg	17.8	3218.3	137	96.9	52-114			
Pyridine	2180	µg/kg	444	3218.3	<158	67.7	40-84			
Surr: 2,4,6-Tribromophenol	6560	µg/kg		8046.8		81.5	48-94			
Surr: 2-Fluorobiphenyl	5850	µg/kg		8046.8		72.7	50-103			
Surr: 2-Fluorophenol	5970	µg/kg		8046.8		74.1	43-105			
Surr: 4-Terphenyl-d14	7230	µg/kg		8046.8		89.8	55-111			
Surr: Nitrobenzene-d5	7060	µg/kg		8046.8		87.7	47-100			
Surr: Phenol-d6	6310	µg/kg		8046.8		78.4	49-110			

MSD		CLIENT ID: Batch QC				Lab ID: QC-2429903-006				
Method: EPA 8270E		Dilution: 1				Analysis Date: 01/27/26 15:50				
						Prep Date: 01/26/26 10:05				
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	2620	µg/kg	85.3	3121.8	<12.7	84.0	57-101	0.103	30	
1,2,4,5-Tetrachlorobenzene	2560	µg/kg	861	3121.8	<18.0	81.9	54-98	0.0566	30	
1-Methylnaphthalene	2580	µg/kg	17.2	3121.8	<11.2	82.8	56-100	0.963	30	
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	2410	µg/kg	85.3	3121.8	<18.3	77.3	50-101	0.848	30	
2,3,4,6-Tetrachlorophenol	2610	µg/kg	172	3121.8	<57.2	83.6	48-103	0.314	30	
2,4,5-Trichlorophenol	2500	µg/kg	85.3	3121.8	<46.3	80.0	54-98	0.768	30	
2,4,6-Trichlorophenol	2380	µg/kg	85.3	3121.8	<20.8	76.2	56-97	0.315	30	
2,4-Dichlorophenol	2600	µg/kg	85.3	3121.8	<42.0	83.4	54-99	0.560	30	
2,4-Dimethylphenol	2370	µg/kg	85.3	3121.8	<40.1	76.1	47-102	3.83	30	
2,4-Dinitrophenol	<571	µg/kg	861	3121.8	<571	23.1	10-100	NC		U
2,4-Dinitrotoluene (2,4-DNT)	2360	µg/kg	85.3	3121.8	<50.7	75.7	62-105	1.51	30	
2,6-Dinitrotoluene (2,6-DNT)	2460	µg/kg	85.3	3121.8	<19.9	78.9	62-103	0.242	30	
2-Chloronaphthalene	2220	µg/kg	17.2	3121.8	<10.9	71.1	57-101	0.0454	30	
2-Chlorophenol	2370	µg/kg	85.3	3121.8	<51.1	75.8	52-102	0.586	30	
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	1920	µg/kg	85.3	3121.8	<65.2	61.4	42-104	3.77	30	
2-Methylnaphthalene	2580	µg/kg	17.2	3121.8	<7.94	82.8	55-102	1.40	30	
2-Methylphenol (o-Cresol)	2380	µg/kg	85.3	3121.8	<21.1	76.3	54-103	0.970	30	
2-Nitroaniline	2060	µg/kg	85.3	3121.8	<43.3	66.1	57-103	0.0313	30	
2-Nitrophenol	2580	µg/kg	85.3	3121.8	<22.2	82.5	52-102	5.36	30	
3&4-Methylphenol	2370	µg/kg	85.3	3121.8	<42.6	76.0	56-103	0.437	30	
3,3'-Dichlorobenzidine	1920	µg/kg	431	3121.8	<36.4	61.4	41-91	20.7	30	



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2429903

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3846362

MSD	CLIENT ID: Batch QC	Lab ID: QC-2429903-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/27/26 15:50

Prep Date: 01/26/26 10:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
3-Nitroaniline	1710	µg/kg	85.3	3121.8	<45.3	54.7	35-107	6.84	30	
4-Bromophenyl phenyl ether (BDE-3)	2610	µg/kg	85.3	3121.8	<42.8	83.7	63-104	0.299	30	
4-Chloro-3-methylphenol	2650	µg/kg	85.3	3121.8	<22.2	85.0	57-103	1.86	30	
4-Chloroaniline	2550	µg/kg	172	3121.8	<39.7	81.7	32-99	4.32	30	
4-Chlorophenyl phenylether	2460	µg/kg	85.3	3121.8	<21.6	78.7	62-100	1.44	30	
4-Nitroaniline	1160	µg/kg	431	3121.8	<121	37.2	19-124	0.235	30	
4-Nitrophenol	2340	µg/kg	861	3121.8	<183	75.1	44-106	3.57	30	
Acenaphthene	2380	µg/kg	17.2	3121.8	<11.3	76.3	60-101	0.387	30	
Acenaphthylene	2430	µg/kg	17.2	3121.8	<13.5	77.9	59-101	0.441	30	
Acetophenone	2360	µg/kg	85.3	3121.8	<12.2	75.5	54-102	1.50	30	
Anthracene	2630	µg/kg	17.2	3121.8	<11.0	84.2	63-96	1.02	30	
Atrazine	2910	µg/kg	85.3	3121.8	<45.7	93.1	60-110	0.677	30	
Benzaldehyde	649	µg/kg	172	3121.8	<120	20.8	10-143	6.35	30	
Benzo(a)anthracene	2750	µg/kg	17.2	3121.8	69.6	86.2	66-102	3.09	30	
Benzo(a)pyrene	2880	µg/kg	17.2	3121.8	85.6	89.7	66-105	0.435	30	
Benzo(b)fluoranthene	2530	µg/kg	17.2	3121.8	116	77.8	67-105	0.662	30	
Benzo(g,h,i)perylene	2780	µg/kg	17.2	3121.8	78.5	86.9	59-110	1.18	30	
Benzo(k)fluoranthene	2780	µg/kg	17.2	3121.8	42.8	87.7	68-106	1.15	30	
bis(2-Chloroethoxy)methane	2410	µg/kg	85.3	3121.8	<49.4	77.3	54-102	0.848	30	
bis(2-Chloroethyl) ether	2430	µg/kg	85.3	3121.8	<22.1	77.8	51-101	0.223	30	
Butyl benzyl phthalate	3000	µg/kg	172	3121.8	<97.7	96.0	59-107	1.21	30	
Caprolactam	2170	µg/kg	85.3	3121.8	<70.4	69.6	49-103	0.571	30	
Carbazole	2580	µg/kg	85.3	3121.8	<23.0	82.7	63-103	0.777	30	
Chrysene	3140	µg/kg	17.2	3121.8	73.1	98.5	66-105	2.06	30	
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	3140	µg/kg	85.3	3121.8	<64.6	101	63-101	3.22	30	
Dibenz(a,h) anthracene	2680	µg/kg	85.3	3121.8	<8.43	85.9	61-109	0.509	30	
Dibenzofuran	2430	µg/kg	85.3	3121.8	<11.5	77.9	61-101	0.245	30	
Diethyl phthalate	2480	µg/kg	85.3	3121.8	<26.6	79.5	63-105	0.816	30	
Dimethyl phthalate	2420	µg/kg	85.3	3121.8	<15.2	77.5	64-104	0.972	30	
Fluoranthene	2890	µg/kg	17.2	3121.8	134	88.8	66-105	1.82	30	
Fluorene	2400	µg/kg	17.2	3121.8	<11.3	76.8	62-101	0.338	30	
Hexachlorobenzene	2590	µg/kg	85.3	3121.8	<22.7	82.9	61-104	0.457	30	
Hexachlorobutadiene	2600	µg/kg	85.3	3121.8	<18.4	83.2	52-99	0.380	30	
Hexachlorocyclopentadiene	1770	µg/kg	85.3	3121.8	<76.3	56.6	39-106	9.04	30	
Hexachloroethane	2320	µg/kg	85.3	3121.8	<32.3	74.4	59-99	0.0295	30	
Indeno(1,2,3-cd) pyrene	2980	µg/kg	17.2	3121.8	80.3	93.1	57-114	0.314	30	
Isophorone	2550	µg/kg	431	3121.8	<15.2	81.6	55-101	1.92	30	
Methylphenol, Total	4750	µg/kg	85.3	6245.9	<21.1	76.1	54-103	0.704	30	
Naphthalene	2480	µg/kg	17.2	3121.8	<9.98	79.5	54-99	1.85	30	
Nitrobenzene	2580	µg/kg	431	3121.8	<26.2	82.7	53-100	2.74	30	
n-Nitrosodi-n-propylamine	2370	µg/kg	85.3	3121.8	<12.9	75.9	52-104	2.44	30	
N-Nitrosodiphenylamine	2560	µg/kg	85.3	3121.8	<45.2	81.9	61-104	0.815	30	
Pentachlorophenol	2190	µg/kg	85.3	3121.8	<62.0	70.3	35-100	6.19	30	
Phenanthrene	2540	µg/kg	17.2	3121.8	37.5	80.1	64-101	2.14	30	
Phenol	2630	µg/kg	85.3	3121.8	<39.2	84.1	51-107	0.712	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2429903

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3846362

MSD	CLIENT ID: Batch QC	Lab ID: QC-2429903-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/27/26 15:50

Prep Date: 01/26/26 10:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Pyrene	3360	µg/kg	17.2	3121.8	137	104	52-114	3.63	30	
Pyridine	2210	µg/kg	431	3121.8	<154	70.7	40-84	1.29	30	
Surr: 2,4,6-Tribromophenol	6600	µg/kg		7805.6		84.5	48-94	0.620	30	
Surr: 2-Fluorobiphenyl	5930	µg/kg		7805.6		76.0	50-103	1.40	30	
Surr: 2-Fluorophenol	6060	µg/kg		7805.6		77.6	43-105	1.52	30	
Surr: 4-Terphenyl-d14	7350	µg/kg		7805.6		94.1	55-111	1.66	30	
Surr: Nitrobenzene-d5	7270	µg/kg		7805.6		93.2	47-100	2.97	30	
Surr: Phenol-d6	6410	µg/kg		7805.6		82.1	49-110	1.49	30	

The following samples were analyzed in this batch: HN2601088-001, HN2601088-002, HN2601088-003, HN2601088-004



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428122

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3842202

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2428122-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/24/26 00:49

Prep Date: 01/23/26 13:31

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428122

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3842202

MB	CLIENT ID: Method Blank	Lab ID: QC-2428122-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/24/26 00:49

Prep Date: 01/23/26 13:31

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Isopropylbenzene	<19.0	µg/kg	30.0							U
m+p-Xylene	<40.0	µg/kg	60.0							U
Methyl acetate	<35.9	µg/kg	250							U
Methyl bromide (Bromomethane)	<57.4	µg/kg	100							U
Methyl chloride (Chloromethane)	<82.0	µg/kg	100							U
Methyl tert-butyl ether (MTBE)	<21.9	µg/kg	30.0							U
Methylcyclohexane	<11.4	µg/kg	30.0							U
Methylene chloride (Dichloromethane)	<79.6	µg/kg	250							U
o-Xylene	<11.6	µg/kg	30.0							U
Styrene	<11.9	µg/kg	30.0							U
Tetrachloroethylene (Perchloroethylene)	<18.1	µg/kg	30.0							U
Toluene	<24.7	µg/kg	30.0							U
Total Xylene	<11.6	µg/kg	90.0							U
trans-1,2-Dichloroethylene	<24.8	µg/kg	30.0							U
trans-1,3-Dichloropropylene	<16.8	µg/kg	30.0							U
Trichloroethene (Trichloroethylene)	<13.4	µg/kg	30.0							U
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	<15.3	µg/kg	30.0							U
Vinyl chloride (Chloroethene)	<19.9	µg/kg	30.0							U
Surr: 1,2-Dichloroethane-d4	1030	µg/kg		1000		103	80-120			
Surr: 4-Bromofluorobenzene	980	µg/kg		1000		98.0	80-120			
Surr: Dibromofluoromethane	1040	µg/kg		1000		104	72-120			
Surr: Toluene-d8	974	µg/kg		1000		97.4	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2428122-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/23/26 23:51

Prep Date: 01/23/26 13:31

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	993	µg/kg	30.0	1000		99.3	75-121			
1,1,2,2-Tetrachloroethane	890	µg/kg	30.0	1000		89.0	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1080	µg/kg	30.0	1000		108	62-129			
1,1,2-Trichloroethane	922	µg/kg	30.0	1000		92.2	80-123			
1,1-Dichloroethane	911	µg/kg	30.0	1000		91.1	74-124			
1,1-Dichloroethylene	952	µg/kg	30.0	1000		95.2	68-131			
1,2,3-Trichlorobenzene	850	µg/kg	100	1000		85.0	60-135			
1,2,3-Trichloropropane	890	µg/kg	30.0	1000		89.0	77-121			
1,2,4-Trichlorobenzene	896	µg/kg	100	1000		89.6	63-130			
1,2,4-Trimethylbenzene	960	µg/kg	30.0	1000		96.0	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	758	µg/kg	100	1000		75.8	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	942	µg/kg	30.0	1000		94.2	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	908	µg/kg	30.0	1000		90.8	77-122			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428122

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3842202

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2428122-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/23/26 23:51

Prep Date: 01/23/26 13:31

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichloroethane (Ethylene dichloride)	932	µg/kg	100	1000		93.2	70-130			
1,2-Dichloropropane	906	µg/kg	30.0	1000		90.6	71-130			
1,3,5-Trimethylbenzene	995	µg/kg	100	1000		99.5	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	916	µg/kg	30.0	1000		91.6	78-121			
1,3-Dichloropropene	1740	µg/kg	60.0	2000		86.9	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	916	µg/kg	30.0	1000		91.6	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	872	µg/kg	200	1000		87.2	47-164			
2-Hexanone	850	µg/kg	30.0	1000		85.0	70-137			
4-Methyl-2-pentanone (MIBK)	1350	µg/kg	30.0	1000		135	57-200			
Acetone	939	µg/kg	100	1000		93.9	52-190			
Benzene	1000	µg/kg	30.0	1000		100	78-122			
Bromochloromethane	904	µg/kg	30.0	1000		90.4	68-130			
Bromodichloromethane	956	µg/kg	30.0	1000		95.6	75-125			
Bromoform	872	µg/kg	30.0	1000		87.2	59-120			
Carbon disulfide	1100	µg/kg	30.0	1000		110	60-163			
Carbon tetrachloride	988	µg/kg	30.0	1000		98.8	69-123			
Chlorobenzene	948	µg/kg	30.0	1000		94.8	79-120			
Chlorodibromomethane	918	µg/kg	30.0	1000		91.8	57-123			
Chloroethane (Ethyl chloride)	760	µg/kg	100	1000		76.0	38-132			
Chloroform	930	µg/kg	30.0	1000		93.0	72-122			
cis-1,2-Dichloroethylene	928	µg/kg	30.0	1000		92.8	74-125			
cis-1,3-Dichloropropene	896	µg/kg	30.0	1000		89.6	62-124			
Dichlorodifluoromethane (Freon-12)	538	µg/kg	100	1000		53.8	28-137			
Ethylbenzene	1000	µg/kg	30.0	1000		100	75-121			
Isopropylbenzene	1000	µg/kg	30.0	1000		100.0	74-121			
m+p-Xylene	2030	µg/kg	60.0	2000		101	67-129			
Methyl acetate	694	µg/kg	250	1000		69.4	61-125			
Methyl bromide (Bromomethane)	929	µg/kg	100	1000		92.9	31-169			
Methyl chloride (Chloromethane)	616	µg/kg	100	1000		61.6	24-119			
Methyl tert-butyl ether (MTBE)	903	µg/kg	30.0	1000		90.3	79-139			
Methylene chloride (Dichloromethane)	898	µg/kg	250	1000		89.8	62-135			
o-Xylene	982	µg/kg	30.0	1000		98.2	75-120			
Styrene	948	µg/kg	30.0	1000		94.8	74-126			
Tetrachloroethylene (Perchloroethylene)	1290	µg/kg	30.0	1000		129	76-128			S
Toluene	950	µg/kg	30.0	1000		95.0	76-120			
Total Xylene	3010	µg/kg	90.0	3000		100	67-129			
trans-1,2-Dichloroethylene	946	µg/kg	30.0	1000		94.6	72-127			
trans-1,3-Dichloropropylene	842	µg/kg	30.0	1000		84.2	66-120			
Trichloroethene (Trichloroethylene)	1020	µg/kg	30.0	1000		102	75-122			
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	756	µg/kg	30.0	1000		75.6	51-115			
Vinyl chloride (Chloroethene)	654	µg/kg	30.0	1000		65.4	43-128			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428122

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3842202

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2428122-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/23/26 23:51

Prep Date: 01/23/26 13:31

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Surr: 1,2-Dichloroethane-d4	984	µg/kg		1000		98.4	80-120			
Surr: 4-Bromofluorobenzene	1020	µg/kg		1000		102	80-120			
Surr: Dibromofluoromethane	1020	µg/kg		1000		102	72-120			
Surr: Toluene-d8	970	µg/kg		1000		97.0	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2428122-005
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/24/26 07:52

Prep Date: 01/23/26 13:31

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1820	µg/kg	66.4	1841.6	<25.1	98.8	75-121			
1,1,2,2-Tetrachloroethane	1320	µg/kg	66.4	1841.6	<24.4	71.6	79-125			S
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1910	µg/kg	66.4	1841.6	<35.0	103	62-129			
1,1,2-Trichloroethane	1730	µg/kg	66.4	1841.6	<23.5	94.1	80-123			
1,1-Dichloroethane	1750	µg/kg	66.4	1841.6	<20.1	95.2	74-124			
1,1-Dichloroethylene	1830	µg/kg	66.4	1841.6	<17.9	99.1	68-131			
1,2,3-Trichlorobenzene	1580	µg/kg	221	1841.6	<66.3	85.6	60-135			
1,2,3-Trichloropropane	1610	µg/kg	66.4	1841.6	<23.1	87.4	77-121			
1,2,4-Trichlorobenzene	1660	µg/kg	221	1841.6	<62.6	90.0	63-130			
1,2,4-Trimethylbenzene	1830	µg/kg	66.4	1841.6	<40.5	99.4	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	1350	µg/kg	221	1841.6	<50.9	73.3	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	1800	µg/kg	66.4	1841.6	<32.5	97.6	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	1720	µg/kg	66.4	1841.6	<21.0	93.4	77-122			
1,2-Dichloroethane (Ethylene dichloride)	1730	µg/kg	221	1841.6	<48.5	94.1	70-130			
1,2-Dichloropropane	1640	µg/kg	66.4	1841.6	<40.7	89.0	71-130			
1,3,5-Trimethylbenzene	1880	µg/kg	221	1841.6	<39.0	102	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	1730	µg/kg	66.4	1841.6	<38.2	94.1	78-121			
1,3-Dichloropropene	3110	µg/kg	133	3683.2	<30.8	84.4	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	1750	µg/kg	66.4	1841.6	<44.9	95.1	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1500	µg/kg	443	1841.6	<132	81.4	47-164			
2-Hexanone	1770	µg/kg	66.4	1841.6	<27.4	96.3	70-137			
4-Methyl-2-pentanone (MIBK)	2230	µg/kg	66.4	1841.6	<51.5	121	57-200			
Acetone	2560	µg/kg	221	1841.6	<164	139	52-190			
Benzene	1890	µg/kg	66.4	1841.6	<26.8	102	78-122			
Bromochloromethane	1650	µg/kg	66.4	1841.6	<28.1	89.7	68-130			
Bromodichloromethane	1660	µg/kg	66.4	1841.6	<30.9	90.2	75-125			
Bromoform	1560	µg/kg	66.4	1841.6	<23.3	84.6	59-120			
Carbon disulfide	2030	µg/kg	66.4	1841.6	<28.6	110	60-163			
Carbon tetrachloride	1800	µg/kg	66.4	1841.6	<21.6	98.0	69-123			
Chlorobenzene	1770	µg/kg	66.4	1841.6	<18.3	96.2	79-120			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428122

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3842202

MS	CLIENT ID: Batch QC	Lab ID: QC-2428122-005
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Method: EPA 8260D**Dilution:** 1**Analysis Date:** 01/24/26 07:52**Prep Date:** 01/23/26 13:31

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlorodibromomethane	1670	µg/kg	66.4	1841.6	<31.0	90.9	57-123			
Chloroethane (Ethyl chloride)	599	µg/kg	221	1841.6	<155	32.6	38-132			S
Chloroform	1720	µg/kg	66.4	1841.6	<20.2	93.2	72-122			
cis-1,2-Dichloroethylene	1740	µg/kg	66.4	1841.6	<35.5	94.3	74-125			
cis-1,3-Dichloropropene	1580	µg/kg	66.4	1841.6	<41.6	86.0	62-124			
Dichlorodifluoromethane (Freon-12)	983	µg/kg	221	1841.6	<66.9	53.4	28-137			
Ethylbenzene	1850	µg/kg	66.4	1841.6	<39.2	100	75-121			
Isopropylbenzene	1860	µg/kg	66.4	1841.6	<34.9	101	74-121			
m+p-Xylene	3760	µg/kg	133	3683.2	<73.7	102	67-129			
Methyl acetate	1820	µg/kg	553	1841.6	<66.2	98.7	61-125			
Methyl bromide (Bromomethane)	671	µg/kg	221	1841.6	<106	36.4	31-169			
Methyl chloride (Chloromethane)	1180	µg/kg	221	1841.6	<151	64.2	24-119			
Methyl tert-butyl ether (MTBE)	1700	µg/kg	66.4	1841.6	<40.3	92.4	79-139			
Methylene chloride (Dichloromethane)	1480	µg/kg	553	1841.6	<147	80.4	62-135			
o-Xylene	1820	µg/kg	66.4	1841.6	<21.4	98.8	75-120			
Styrene	1780	µg/kg	66.4	1841.6	<21.9	96.6	74-126			
Tetrachloroethylene (Perchloroethylene)	3510	µg/kg	66.4	1841.6	<33.3	191	76-128			S
Toluene	1810	µg/kg	66.4	1841.6	<45.5	98.2	76-120			
Total Xylene	5570	µg/kg	199	5524.9	<21.4	101	67-129			
trans-1,2-Dichloroethylene	1810	µg/kg	66.4	1841.6	<45.6	98.5	72-127			
trans-1,3-Dichloropropylene	1530	µg/kg	66.4	1841.6	<30.8	83.0	66-120			
Trichloroethene (Trichloroethylene)	2140	µg/kg	66.4	1841.6	<24.8	116	75-122			
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	1300	µg/kg	66.4	1841.6	<28.3	70.4	51-115			
Vinyl chloride (Chloroethene)	1210	µg/kg	66.4	1841.6	<36.7	65.6	43-128			
Surr: 1,2-Dichloroethane-d4	1800	µg/kg		1841.6		98.0	80-120			
Surr: 4-Bromofluorobenzene	1840	µg/kg		1841.6		100.0	80-120			
Surr: Dibromofluoromethane	1820	µg/kg		1841.6		98.6	72-120			
Surr: Toluene-d8	1800	µg/kg		1841.6		97.8	80-120			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2428122-006
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Method: EPA 8260D**Dilution:** 1**Analysis Date:** 01/24/26 08:11**Prep Date:** 01/23/26 13:31

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1960	µg/kg	66.4	1841.6	<25.1	107	75-121	7.59	30	
1,1,2,2-Tetrachloroethane	1440	µg/kg	66.4	1841.6	<24.4	78.4	79-125	9.13	30	S
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	2050	µg/kg	66.4	1841.6	<35.0	111	62-129	7.27	30	
1,1,2-Trichloroethane	1850	µg/kg	66.4	1841.6	<23.5	101	80-123	6.78	30	
1,1-Dichloroethane	1910	µg/kg	66.4	1841.6	<20.1	104	74-124	8.60	30	
1,1-Dichloroethylene	1970	µg/kg	66.4	1841.6	<17.9	107	68-131	7.48	30	
1,2,3-Trichlorobenzene	1670	µg/kg	221	1841.6	<66.3	90.5	60-135	5.57	30	
1,2,3-Trichloropropane	1810	µg/kg	66.4	1841.6	<23.1	98.6	77-121	12.0	30	
1,2,4-Trichlorobenzene	1740	µg/kg	221	1841.6	<62.6	94.5	63-130	4.82	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428122

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3842202

MSD	CLIENT ID: Batch QC	Lab ID: QC-2428122-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/24/26 08:11

Prep Date: 01/23/26 13:31

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	2000	µg/kg	66.4	1841.6	<40.5	109	64-126	8.99	30	
1,2-Dibromo-3-chloropropane (DBCP)	1490	µg/kg	221	1841.6	<50.9	80.7	55-135	9.61	30	
1,2-Dibromoethane (EDB, Ethylene dibromide)	1890	µg/kg	66.4	1841.6	<32.5	103	63-155	5.09	30	
1,2-Dichlorobenzene (o-Dichlorobenzene)	1850	µg/kg	66.4	1841.6	<21.0	100	77-122	7.27	30	
1,2-Dichloroethane (Ethylene dichloride)	1870	µg/kg	221	1841.6	<48.5	101	70-130	7.37	30	
1,2-Dichloropropane	1790	µg/kg	66.4	1841.6	<40.7	97.4	71-130	8.91	30	
1,3,5-Trimethylbenzene	2040	µg/kg	221	1841.6	<39.0	111	66-130	8.18	30	
1,3-Dichlorobenzene (m-Dichlorobenzene)	1870	µg/kg	66.4	1841.6	<38.2	102	78-121	7.57	30	
1,3-Dichloropropene	3440	µg/kg	133	3683.2	<30.8	93.4	62-124	10.0	30	
1,4-Dichlorobenzene (p-Dichlorobenzene)	1850	µg/kg	66.4	1841.6	<44.9	101	78-122	5.62	30	
2-Butanone (Methyl ethyl ketone, MEK)	1800	µg/kg	443	1841.6	<132	97.8	47-164	18.3	30	
2-Hexanone	1930	µg/kg	66.4	1841.6	<27.4	105	70-137	8.22	30	
4-Methyl-2-pentanone (MIBK)	2370	µg/kg	66.4	1841.6	<51.5	128	57-200	5.85	30	
Acetone	2660	µg/kg	221	1841.6	<164	144	52-190	3.56	30	
Benzene	1990	µg/kg	66.4	1841.6	<26.8	108	78-122	5.46	30	
Bromochloromethane	1840	µg/kg	66.4	1841.6	<28.1	100	68-130	11.0	30	
Bromodichloromethane	1820	µg/kg	66.4	1841.6	<30.9	98.7	75-125	9.05	30	
Bromoform	1680	µg/kg	66.4	1841.6	<23.3	91.4	59-120	7.67	30	
Carbon disulfide	2210	µg/kg	66.4	1841.6	<28.6	120	60-163	8.55	30	
Carbon tetrachloride	1850	µg/kg	66.4	1841.6	<21.6	101	69-123	2.72	30	
Chlorobenzene	1910	µg/kg	66.4	1841.6	<18.3	104	79-120	7.40	30	
Chlorodibromomethane	1820	µg/kg	66.4	1841.6	<31.0	98.6	57-123	8.18	30	
Chloroethane (Ethyl chloride)	658	µg/kg	221	1841.6	<155	35.8	38-132	9.37	30	S
Chloroform	1900	µg/kg	66.4	1841.6	<20.2	103	72-122	10.2	30	
cis-1,2-Dichloroethylene	1840	µg/kg	66.4	1841.6	<35.5	100	74-125	5.87	30	
cis-1,3-Dichloropropene	1770	µg/kg	66.4	1841.6	<41.6	96.0	62-124	11.0	30	
Dichlorodifluoromethane (Freon-12)	1160	µg/kg	221	1841.6	<66.9	62.8	28-137	16.3	30	
Ethylbenzene	1990	µg/kg	66.4	1841.6	<39.2	108	75-121	7.63	30	
Isopropylbenzene	2030	µg/kg	66.4	1841.6	<34.9	110	74-121	8.84	30	
m+p-Xylene	4040	µg/kg	133	3683.2	<73.7	110	67-129	7.30	30	
Methyl acetate	1880	µg/kg	553	1841.6	<66.2	102	61-125	3.24	30	
Methyl bromide (Bromomethane)	774	µg/kg	221	1841.6	<106	42.0	31-169	14.3	30	
Methyl chloride (Chloromethane)	1350	µg/kg	221	1841.6	<151	73.0	24-119	12.9	30	
Methyl tert-butyl ether (MTBE)	1870	µg/kg	66.4	1841.6	<40.3	101	79-139	9.34	30	
Methylene chloride (Dichloromethane)	1220	µg/kg	553	1841.6	<147	66.5	62-135	18.9	30	
o-Xylene	1970	µg/kg	66.4	1841.6	<21.4	107	75-120	8.21	30	
Styrene	1910	µg/kg	66.4	1841.6	<21.9	103	74-126	6.85	30	
Tetrachloroethylene (Perchloroethylene)	3770	µg/kg	66.4	1841.6	<33.3	204	76-128	6.98	30	S
Toluene	1950	µg/kg	66.4	1841.6	<45.5	106	76-120	7.78	30	
Total Xylene	6010	µg/kg	199	5524.9	<21.4	109	67-129	7.60	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428122

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3842202

MSD	CLIENT ID: Batch QC	Lab ID: QC-2428122-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/24/26 08:11

Prep Date: 01/23/26 13:31

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
trans-1,2-Dichloroethylene	1980	µg/kg	66.4	1841.6	<45.6	108	72-127	8.74	30	
trans-1,3-Dichloropropylene	1670	µg/kg	66.4	1841.6	<30.8	90.8	66-120	9.04	30	
Trichloroethene (Trichloroethylene)	2230	µg/kg	66.4	1841.6	<24.8	121	75-122	4.00	30	
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	1350	µg/kg	66.4	1841.6	<28.3	73.5	51-115	4.38	30	
Vinyl chloride (Chloroethene)	1330	µg/kg	66.4	1841.6	<36.7	72.1	43-128	9.52	30	
Surr: 1,2-Dichloroethane-d4	1860	µg/kg		1841.6		101	80-120	2.97	30	
Surr: 4-Bromofluorobenzene	1910	µg/kg		1841.6		104	80-120	3.83	30	
Surr: Dibromofluoromethane	1820	µg/kg		1841.6		98.6	72-120	0.0507	30	
Surr: Toluene-d8	1770	µg/kg		1841.6		95.8	80-120	2.07	30	

The following samples were analyzed in this batch: HN2601088-001, HN2601088-002



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428124

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3842243

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2428124-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/24/26 01:08

Prep Date: 01/23/26 13:30

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428124

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3842243

MB	CLIENT ID: Method Blank	Lab ID: QC-2428124-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/24/26 01:08

Prep Date: 01/23/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Isopropylbenzene	<19.0	µg/kg	30.0							U
m+p-Xylene	<40.0	µg/kg	60.0							U
Methyl acetate	<35.9	µg/kg	250							U
Methyl bromide (Bromomethane)	<57.4	µg/kg	100							U
Methyl chloride (Chloromethane)	<82.0	µg/kg	100							U
Methyl tert-butyl ether (MTBE)	<21.9	µg/kg	30.0							U
Methylcyclohexane	<11.4	µg/kg	30.0							U
Methylene chloride (Dichloromethane)	<79.6	µg/kg	250							U
o-Xylene	<11.6	µg/kg	30.0							U
Styrene	<11.9	µg/kg	30.0							U
Tetrachloroethylene (Perchloroethylene)	<18.1	µg/kg	30.0							U
Toluene	<24.7	µg/kg	30.0							U
Total Xylene	<11.6	µg/kg	90.0							U
trans-1,2-Dichloroethylene	<24.8	µg/kg	30.0							U
trans-1,3-Dichloropropylene	<16.8	µg/kg	30.0							U
Trichloroethene (Trichloroethylene)	<13.4	µg/kg	30.0							U
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	<15.3	µg/kg	30.0							U
Vinyl chloride (Chloroethene)	<19.9	µg/kg	30.0							U
Surr: 1,2-Dichloroethane-d4	1040	µg/kg		1000		104	80-120			
Surr: 4-Bromofluorobenzene	1010	µg/kg		1000		101	80-120			
Surr: Dibromofluoromethane	1030	µg/kg		1000		103	72-120			
Surr: Toluene-d8	1000	µg/kg		1000		100.0	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2428124-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/24/26 00:11

Prep Date: 01/23/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	957	µg/kg	30.0	1000		95.7	75-121			
1,1,2,2-Tetrachloroethane	886	µg/kg	30.0	1000		88.6	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	994	µg/kg	30.0	1000		99.4	62-129			
1,1,2-Trichloroethane	914	µg/kg	30.0	1000		91.4	80-123			
1,1-Dichloroethane	898	µg/kg	30.0	1000		89.8	74-124			
1,1-Dichloroethylene	916	µg/kg	30.0	1000		91.6	68-131			
1,2,3-Trichlorobenzene	854	µg/kg	100	1000		85.4	60-135			
1,2,3-Trichloropropane	888	µg/kg	30.0	1000		88.8	77-121			
1,2,4-Trichlorobenzene	876	µg/kg	100	1000		87.6	63-130			
1,2,4-Trimethylbenzene	916	µg/kg	30.0	1000		91.6	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	776	µg/kg	100	1000		77.6	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	933	µg/kg	30.0	1000		93.3	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	908	µg/kg	30.0	1000		90.8	77-122			



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428124

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3842243

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2428124-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/24/26 00:11

Prep Date: 01/23/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichloroethane (Ethylene dichloride)	908	µg/kg	100	1000		90.8	70-130			
1,2-Dichloropropane	860	µg/kg	30.0	1000		86.0	71-130			
1,3,5-Trimethylbenzene	972	µg/kg	100	1000		97.2	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	914	µg/kg	30.0	1000		91.4	78-121			
1,3-Dichloropropene	1700	µg/kg	60.0	2000		84.8	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	901	µg/kg	30.0	1000		90.1	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	854	µg/kg	200	1000		85.4	47-164			
2-Hexanone	850	µg/kg	30.0	1000		85.0	70-137			
4-Methyl-2-pentanone (MIBK)	1340	µg/kg	30.0	1000		134	57-200			
Acetone	906	µg/kg	100	1000		90.6	52-190			
Benzene	958	µg/kg	30.0	1000		95.8	78-122			
Bromochloromethane	878	µg/kg	30.0	1000		87.8	68-130			
Bromodichloromethane	918	µg/kg	30.0	1000		91.8	75-125			
Bromoform	866	µg/kg	30.0	1000		86.6	59-120			
Carbon disulfide	1050	µg/kg	30.0	1000		105	60-163			
Carbon tetrachloride	952	µg/kg	30.0	1000		95.2	69-123			
Chlorobenzene	928	µg/kg	30.0	1000		92.8	79-120			
Chlorodibromomethane	904	µg/kg	30.0	1000		90.4	57-123			
Chloroethane (Ethyl chloride)	717	µg/kg	100	1000		71.7	38-132			
Chloroform	883	µg/kg	30.0	1000		88.3	72-122			
cis-1,2-Dichloroethylene	884	µg/kg	30.0	1000		88.4	74-125			
cis-1,3-Dichloropropene	870	µg/kg	30.0	1000		87.0	62-124			
Dichlorodifluoromethane (Freon-12)	514	µg/kg	100	1000		51.4	28-137			
Ethylbenzene	974	µg/kg	30.0	1000		97.4	75-121			
Isopropylbenzene	969	µg/kg	30.0	1000		96.9	74-121			
m+p-Xylene	1940	µg/kg	60.0	2000		97.2	67-129			
Methyl acetate	668	µg/kg	250	1000		66.8	61-125			
Methyl bromide (Bromomethane)	857	µg/kg	100	1000		85.7	31-169			
Methyl chloride (Chloromethane)	580	µg/kg	100	1000		58.0	24-119			
Methyl tert-butyl ether (MTBE)	890	µg/kg	30.0	1000		89.0	79-139			
Methylene chloride (Dichloromethane)	778	µg/kg	250	1000		77.8	62-135			
o-Xylene	952	µg/kg	30.0	1000		95.2	75-120			
Styrene	935	µg/kg	30.0	1000		93.5	74-126			
Tetrachloroethylene (Perchloroethylene)	1240	µg/kg	30.0	1000		124	76-128			
Toluene	929	µg/kg	30.0	1000		92.9	76-120			
Total Xylene	2900	µg/kg	90.0	3000		96.6	67-129			
trans-1,2-Dichloroethylene	912	µg/kg	30.0	1000		91.2	72-127			
trans-1,3-Dichloropropylene	827	µg/kg	30.0	1000		82.7	66-120			
Trichloroethene (Trichloroethylene)	966	µg/kg	30.0	1000		96.6	75-122			
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	736	µg/kg	30.0	1000		73.6	51-115			
Vinyl chloride (Chloroethene)	642	µg/kg	30.0	1000		64.2	43-128			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428124

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3842243

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2428124-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/24/26 00:11

Prep Date: 01/23/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Surr: 1,2-Dichloroethane-d4	975	µg/kg		1000		97.5	80-120			
Surr: 4-Bromofluorobenzene	1020	µg/kg		1000		102	80-120			
Surr: Dibromofluoromethane	1000	µg/kg		1000		100	72-120			
Surr: Toluene-d8	972	µg/kg		1000		97.2	80-120			

MS	CLIENT ID: 18441 SB03 (5-6')_20260122	Lab ID: QC-2428124-005
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/24/26 07:13

Prep Date: 01/23/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1680	µg/kg	66.8	1661.1	<22.6	101	75-121			
1,1,2,2-Tetrachloroethane	1100	µg/kg	66.8	1661.1	<22.0	66.5	79-125			S
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1730	µg/kg	66.8	1661.1	<31.6	104	62-129			
1,1,2-Trichloroethane	1540	µg/kg	66.8	1661.1	<21.2	92.6	80-123			
1,1-Dichloroethane	1600	µg/kg	66.8	1661.1	<18.2	96.6	74-124			
1,1-Dichloroethylene	1660	µg/kg	66.8	1661.1	<16.1	99.8	68-131			
1,2,3-Trichlorobenzene	1250	µg/kg	223	1661.1	<59.8	75.0	60-135			
1,2,3-Trichloropropane	1490	µg/kg	66.8	1661.1	<20.9	89.5	77-121			
1,2,4-Trichlorobenzene	1340	µg/kg	223	1661.1	<56.5	80.6	63-130			
1,2,4-Trimethylbenzene	1600	µg/kg	66.8	1661.1	<36.5	96.2	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	1100	µg/kg	223	1661.1	<45.9	66.0	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	1590	µg/kg	66.8	1661.1	<29.3	96.0	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	1460	µg/kg	66.8	1661.1	<18.9	87.8	77-122			
1,2-Dichloroethane (Ethylene dichloride)	1610	µg/kg	223	1661.1	<43.7	96.9	70-130			
1,2-Dichloropropane	1560	µg/kg	66.8	1661.1	<36.7	94.2	71-130			
1,3,5-Trimethylbenzene	1660	µg/kg	223	1661.1	<35.2	100	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	1460	µg/kg	66.8	1661.1	<34.4	88.0	78-121			
1,3-Dichloropropene	2830	µg/kg	134	3322.3	<27.8	85.2	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	1460	µg/kg	66.8	1661.1	<40.5	87.7	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1560	µg/kg	445	1661.1	<119	93.8	47-164			
2-Hexanone	1600	µg/kg	66.8	1661.1	<24.7	96.5	70-137			
4-Methyl-2-pentanone (MIBK)	1890	µg/kg	66.8	1661.1	<46.4	114	57-200			
Acetone	2420	µg/kg	223	1661.1	<148	145	52-190			
Benzene	1720	µg/kg	66.8	1661.1	<24.1	103	78-122			
Bromochloromethane	1540	µg/kg	66.8	1661.1	<25.3	92.6	68-130			
Bromodichloromethane	1550	µg/kg	66.8	1661.1	<27.9	93.3	75-125			
Bromoform	1390	µg/kg	66.8	1661.1	<21.0	83.8	59-120			
Carbon disulfide	1820	µg/kg	66.8	1661.1	<25.8	110	60-163			
Carbon tetrachloride	1650	µg/kg	66.8	1661.1	<19.5	99.4	69-123			
Chlorobenzene	1590	µg/kg	66.8	1661.1	<16.5	95.8	79-120			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428124

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3842243

MS	CLIENT ID: 18441 SB03 (5-6')_20260122	Lab ID: QC-2428124-005
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Method: EPA 8260D**Dilution:** 1**Analysis Date:** 01/24/26 07:13**Prep Date:** 01/23/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlorodibromomethane	1480	µg/kg	66.8	1661.1	<28.0	89.2	57-123			
Chloroethane (Ethyl chloride)	583	µg/kg	223	1661.1	<140	35.1	38-132			S
Chloroform	1580	µg/kg	66.8	1661.1	<18.3	95.4	72-122			
cis-1,2-Dichloroethylene	1580	µg/kg	66.8	1661.1	<32.0	94.9	74-125			
cis-1,3-Dichloropropene	1480	µg/kg	66.8	1661.1	<37.5	88.8	62-124			
Dichlorodifluoromethane (Freon-12)	919	µg/kg	223	1661.1	<60.3	55.3	28-137			
Ethylbenzene	1680	µg/kg	66.8	1661.1	<35.3	101	75-121			
Isopropylbenzene	1690	µg/kg	66.8	1661.1	<31.5	102	74-121			
m+p-Xylene	3370	µg/kg	134	3322.3	<66.4	102	67-129			
Methyl acetate	1370	µg/kg	556	1661.1	<59.7	82.7	61-125			
Methyl bromide (Bromomethane)	662	µg/kg	223	1661.1	<95.3	39.8	31-169			
Methyl chloride (Chloromethane)	1070	µg/kg	223	1661.1	<136	64.2	24-119			
Methyl tert-butyl ether (MTBE)	1580	µg/kg	66.8	1661.1	<36.3	95.0	79-139			
Methylene chloride (Dichloromethane)	998	µg/kg	556	1661.1	<132	60.0	62-135			S
o-Xylene	1670	µg/kg	66.8	1661.1	<19.3	101	75-120			
Styrene	1630	µg/kg	66.8	1661.1	<19.8	98.0	74-126			
Tetrachloroethylene (Perchloroethylene)	3170	µg/kg	66.8	1661.1	<30.0	191	76-128			S
Toluene	1610	µg/kg	66.8	1661.1	<41.1	97.2	76-120			
Total Xylene	5050	µg/kg	200	4983.4	<19.3	101	67-129			
trans-1,2-Dichloroethylene	1620	µg/kg	66.8	1661.1	<41.1	97.5	72-127			
trans-1,3-Dichloropropylene	1350	µg/kg	66.8	1661.1	<27.8	81.6	66-120			
Trichloroethene (Trichloroethylene)	2020	µg/kg	66.8	1661.1	<22.3	122	75-122			
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	1140	µg/kg	66.8	1661.1	<25.5	68.9	51-115			
Vinyl chloride (Chloroethene)	1110	µg/kg	66.8	1661.1	<33.1	67.0	43-128			
Surr: 1,2-Dichloroethane-d4	1630	µg/kg		1661.1		98.0	80-120			
Surr: 4-Bromofluorobenzene	1740	µg/kg		1661.1		105	80-120			
Surr: Dibromofluoromethane	1660	µg/kg		1661.1		100	72-120			
Surr: Toluene-d8	1620	µg/kg		1661.1		97.4	80-120			

MSD	CLIENT ID: 18441 SB03 (5-6')_20260122	Lab ID: QC-2428124-006
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Method: EPA 8260D**Dilution:** 1**Analysis Date:** 01/24/26 07:32**Prep Date:** 01/23/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1720	µg/kg	66.8	1661.1	<22.6	103	75-121	2.25	30	
1,1,2,2-Tetrachloroethane	1070	µg/kg	66.8	1661.1	<22.0	64.2	79-125	3.60	30	S
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1810	µg/kg	66.8	1661.1	<31.6	109	62-129	4.36	30	
1,1,2-Trichloroethane	1580	µg/kg	66.8	1661.1	<21.2	94.8	80-123	2.45	30	
1,1-Dichloroethane	1670	µg/kg	66.8	1661.1	<18.2	100	74-124	3.71	30	
1,1-Dichloroethylene	1670	µg/kg	66.8	1661.1	<16.1	101	68-131	0.849	30	
1,2,3-Trichlorobenzene	1380	µg/kg	223	1661.1	<59.8	83.0	60-135	10.2	30	
1,2,3-Trichloropropane	1500	µg/kg	66.8	1661.1	<20.9	90.6	77-121	1.17	30	
1,2,4-Trichlorobenzene	1420	µg/kg	223	1661.1	<56.5	85.3	63-130	5.60	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428124

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3842243

MSD	CLIENT ID: 18441 SB03 (5-6')_20260122	Lab ID: QC-2428124-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/24/26 07:32

Prep Date: 01/23/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	1640	µg/kg	66.8	1661.1	<36.5	98.7	64-126	2.51	30	
1,2-Dibromo-3-chloropropane (DBCP)	1180	µg/kg	223	1661.1	<45.9	71.2	55-135	7.59	30	
1,2-Dibromoethane (EDB, Ethylene dibromide)	1620	µg/kg	66.8	1661.1	<29.3	97.8	63-155	1.81	30	
1,2-Dichlorobenzene (o-Dichlorobenzene)	1520	µg/kg	66.8	1661.1	<18.9	91.6	77-122	4.29	30	
1,2-Dichloroethane (Ethylene dichloride)	1610	µg/kg	223	1661.1	<43.7	96.7	70-130	0.207	30	
1,2-Dichloropropane	1550	µg/kg	66.8	1661.1	<36.7	93.3	71-130	0.907	30	
1,3,5-Trimethylbenzene	1690	µg/kg	223	1661.1	<35.2	102	66-130	1.64	30	
1,3-Dichlorobenzene (m-Dichlorobenzene)	1540	µg/kg	66.8	1661.1	<34.4	92.8	78-121	5.20	30	
1,3-Dichloropropene	2860	µg/kg	134	3322.3	<27.8	86.0	62-124	0.964	30	
1,4-Dichlorobenzene (p-Dichlorobenzene)	1530	µg/kg	66.8	1661.1	<40.5	92.2	78-122	5.00	30	
2-Butanone (Methyl ethyl ketone, MEK)	1520	µg/kg	445	1661.1	<119	91.8	47-164	2.16	30	
2-Hexanone	1690	µg/kg	66.8	1661.1	<24.7	102	70-137	5.30	30	
4-Methyl-2-pentanone (MIBK)	1910	µg/kg	66.8	1661.1	<46.4	115	57-200	0.874	30	
Acetone	2330	µg/kg	223	1661.1	<148	140	52-190	3.71	30	
Benzene	1710	µg/kg	66.8	1661.1	<24.1	103	78-122	0.242	30	
Bromochloromethane	1580	µg/kg	66.8	1661.1	<25.3	95.0	68-130	2.56	30	
Bromodichloromethane	1570	µg/kg	66.8	1661.1	<27.9	94.5	75-125	1.28	30	
Bromoform	1440	µg/kg	66.8	1661.1	<21.0	86.9	59-120	3.63	30	
Carbon disulfide	1880	µg/kg	66.8	1661.1	<25.8	113	60-163	3.41	30	
Carbon tetrachloride	1620	µg/kg	66.8	1661.1	<19.5	97.2	69-123	2.19	30	
Chlorobenzene	1610	µg/kg	66.8	1661.1	<16.5	97.1	79-120	1.30	30	
Chlorodibromomethane	1510	µg/kg	66.8	1661.1	<28.0	91.0	57-123	2.00	30	
Chloroethane (Ethyl chloride)	575	µg/kg	223	1661.1	<140	34.6	38-132	1.43	30	S
Chloroform	1610	µg/kg	66.8	1661.1	<18.3	96.8	72-122	1.51	30	
cis-1,2-Dichloroethylene	1620	µg/kg	66.8	1661.1	<32.0	97.4	74-125	2.60	30	
cis-1,3-Dichloropropene	1450	µg/kg	66.8	1661.1	<37.5	87.2	62-124	1.82	30	
Dichlorodifluoromethane (Freon-12)	951	µg/kg	223	1661.1	<60.3	57.2	28-137	3.47	30	
Ethylbenzene	1700	µg/kg	66.8	1661.1	<35.3	102	75-121	0.836	30	
Isopropylbenzene	1740	µg/kg	66.8	1661.1	<31.5	105	74-121	2.71	30	
m+p-Xylene	3460	µg/kg	134	3322.3	<66.4	104	67-129	2.43	30	
Methyl acetate	1720	µg/kg	556	1661.1	<59.7	104	61-125	22.6	30	
Methyl bromide (Bromomethane)	704	µg/kg	223	1661.1	<95.3	42.4	31-169	6.20	30	
Methyl chloride (Chloromethane)	1090	µg/kg	223	1661.1	<136	65.8	24-119	2.39	30	
Methyl tert-butyl ether (MTBE)	1620	µg/kg	66.8	1661.1	<36.3	97.5	79-139	2.65	30	
Methylene chloride (Dichloromethane)	1120	µg/kg	556	1661.1	<132	67.3	62-135	11.4	30	
o-Xylene	1690	µg/kg	66.8	1661.1	<19.3	102	75-120	1.04	30	
Styrene	1650	µg/kg	66.8	1661.1	<19.8	99.6	74-126	1.57	30	
Tetrachloroethylene (Perchloroethylene)	3220	µg/kg	66.8	1661.1	<30.0	194	76-128	1.48	30	S
Toluene	1650	µg/kg	66.8	1661.1	<41.1	99.2	76-120	2.14	30	
Total Xylene	5150	µg/kg	200	4983.4	<19.3	103	67-129	1.97	30	



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2428124

Work Order: HN2601088
Date Collected: NA
Date Received: NA
Run ID: 3842243

MSD	CLIENT ID: 18441 SB03 (5-6')_20260122	Lab ID: QC-2428124-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/24/26 07:32

Prep Date: 01/23/26 13:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
trans-1,2-Dichloroethylene	1700	µg/kg	66.8	1661.1	<41.1	102	72-127	4.66	30	
trans-1,3-Dichloropropylene	1410	µg/kg	66.8	1661.1	<27.8	84.8	66-120	3.91	30	
Trichloroethene (Trichloroethylene)	2060	µg/kg	66.8	1661.1	<22.3	124	75-122	1.87	30	S
Trichlorofluoromethane	1160	µg/kg	66.8	1661.1	<25.5	70.0	51-115	1.58	30	
(Fluorotrichloromethane, Freon 11)										
Vinyl chloride (Chloroethene)	1150	µg/kg	66.8	1661.1	<33.1	69.2	43-128	3.23	30	
Surr: 1,2-Dichloroethane-d4	1600	µg/kg		1661.1		96.2	80-120	1.75	30	
Surr: 4-Bromofluorobenzene	1720	µg/kg		1661.1		104	80-120	1.20	30	
Surr: Dibromofluoromethane	1610	µg/kg		1661.1		96.9	72-120	3.35	30	
Surr: Toluene-d8	1570	µg/kg		1661.1		94.8	80-120	2.76	30	

The following samples were analyzed in this batch: HN2601088-001, HN2601088-002, HN2601088-003, HN2601088-004



right solutions.
right partner.

March 06, 2026

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

Re: **18441 St Louis**

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

Work Order: **HN2602928**

Dear Ryan,

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

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

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

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

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

Kathy Jones-Gronda

/S/ KATHY JONES-GRONDA

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis

Work Order: HN2602928
Date Received: 26-Feb-2026

CASE NARRATIVE

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

Sample Receipt

1 soil/solid sample was received for analysis at ALS Environmental on 26-Feb-2026. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

WorkOrder: HN2602928

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

Organics

EPA 8081B-FULL HN-3511-TCLP

Run ID: 3923232

HN2602928-001: The RPD between the sample results on the primary and confirmation columns exceeded 40%. The higher result was reported for: cis-Chlordane, trans-Chlordane

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: 18441 TCLP SB03 (5-6')_20260225

Lab ID: HN2602928-001

Analyte	Results	Flag	MRL	Units	Method
Chlordane (NOS)	0.0534		0.0101	µg/L	EPA 8081B
cis-Chlordane	0.0336		0.0101	µg/L	EPA 8081B
Heptachlor epoxide	0.0277		0.0101	µg/L	EPA 8081B
trans-Chlordane	0.0198		0.0101	µg/L	EPA 8081B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Workorder: HN2602928

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2602928-001	18441 TCLP SB03 (5-6') _20260225	SOIL/SOLID	02/25/26 10:55	02/26/26 08:00



ALS Environmental

Laboratory location: _____

Chain of Custody Form

Page 1 of 1

Customer Information							Project Information							Parameter/Method Request for Analysis										
Purchase Order							Project Name	18441 St Louis						A	TCLP Pesticides									
Work Order							Project Number	DETR0060						B										
Company Name	Mannik Smith Group						Bill To Company	Mannik Smith Group						C										
Send Report To	Ryan Montri and Olivia Mitchell						Invoice Attn							D										
Address	2365 South Haggerty Road						Address	2365 South Haggerty Road						E										
														F										
City/State/Zip	Canton, Mi 48188						City/State/Zip	Canton, Mi 48188						G										
Phone	734-397-3100						Phone	734-397-3100						H										
Fax							Fax							I										
e-Mail Address	montri@manniksmithgroup.com						e-Mail Address	omitchell@manniksmithgroup.com						J										

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	...old
1	18441 TCLP SB03 (5-6')_20260225	2/25/26	1055	Soil	NA	1	X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign WILEY DAVENPORT				Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:			
Relinquished by:		Date:	Time:	Received by:		Notes:							
		2/25/26	1413			QS to BH 2/26/26 0800							
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler Temp.		QC Package: (Check Box Below)					
		2/25	1700	G8 2/25 1700		IR6 2.5c							
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):									
BH		2/26/26	1009										
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035								Other: _____					

Environmental Division
Holland
Work Order Reference
HN2602928

Telephone : +1 616 399 6070

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

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

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ALS Holland
3352 128th Ave., Holland MI 49424

ALS Holland Sample Receiving Checklist

Received by: BH

Date/Time: 2/26/26 0800

Carrier Name: QS

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

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

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

Chain of Custody present? Yes / No

COC signed when relinquished and received? Yes / No

COC agrees with sample labels? Yes / No

Samples in proper container/bottle? Yes / No

Sample containers intact? Yes / No

Sufficient sample volume for indicated test? Yes / No

All samples received within holding time? Yes / No

Container/Temp Blank temperature in compliance? Yes / No

Temperature(s) (°C): 2.5/2.5

Thermometer(s): 186

Sample(s) received on ice? Yes / No

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 2/26/26 1009

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

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

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

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

pH adjusted by: _____

Login Notes:

HN-SHT-160-R01, Sample Receipt Checklist

REPORT QUALIFIERS AND DEFINITIONS

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

LABORATORY CERTIFICATIONS¹

Agency	Type	ID	Issued	Expires
Colorado	UST		07/01/2025	06/30/2026
Connecticut	Drinking Water (Secondary)	PH-0155	12/10/2024	12/31/2026
Florida	NELAP (Primary)	E871106	07/01/2025	06/30/2026
Illinois	NELAP (Secondary)	200076	12/08/2025	12/31/2026
Indiana	Drinking Water (Secondary)	C-MI-08	12/31/2024	09/04/2026
Iowa	State Specific	403	09/01/2025	09/01/2027
Kansas	NELAP (Secondary)	E-10411	08/01/2025	07/31/2026
Kentucky	Waste Water	KY98004	1/1/2026	12/31/2026
Kentucky	UST	120474	07/07/2025	06/30/2026
Michigan	Drinking Water (Primary)	0022	12/19/2023	09/04/2026
Minnesota	NELAP (Secondary)	026-999-449	12/10/2025	12/31/2026
Missouri	Drinking Water (Secondary)	01262	11/14/2024	12/30/2027
New Jersey	NELAP (Secondary)	MI015	07/01/2025	6/30/2026
New York	NELAP (Secondary)	12128	04/01/2025	04/01/2026
North Dakota	State Specific	R-192	11/18/2024	06/30/2025
Ohio	Drinking Water (Secondary)	87783	06/26/2025	6/30/2026
Pennsylvania	NELAP (Secondary)	68-03827	11/25/2025	07/31/2026
Texas	NELAP (Secondary)	T104704494	02/01/2026	01/31/2027
USDA	Domestic CA	Soil-MI-007	02/06/2025	08/07/2026
USDA	Soil Import	525-23-62-77572R1	01/28/2026	03/03/2029
West Virginia	State Specific	355	06/07/2025	08/31/2026
Wisconsin	State Specific	399084510	08/08/2025	08/31/2026

1 – Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis

Work Order: HN2602928

Sample Name: 18441 TCLP SB03 (5-6')_20260225
Laboratory Code: HN2602928-001
Sample Matrix: SOIL/SOLID

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

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 8081B	EPA 3511	001-AC	2477594	Mac Peterson	3923232	Nathaniel Dietlin

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2602928
Date Collected: 02/25/26 10:55
Date Received: 02/26/26 08:00

CLIENT ID: 18441 TCLP SB03 (5-6')_20260225

Lab ID: HN2602928-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Organochlorine Pesticides by GC/ECD								
Chlordane (NOS)	EPA 8081B	0.0534		µg/L	0.0101	1	03/05/26 14:10	03/04/26 13:40
Chlordane, Technical	EPA 8081B	<0.0344	U	µg/L	0.506	1	03/05/26 14:10	03/04/26 13:40
cis-Chlordane	EPA 8081B	0.0336		µg/L	0.0101	1	03/05/26 14:10	03/04/26 13:40
Endrin	EPA 8081B	<0.00861	U	µg/L	0.0101	1	03/05/26 14:10	03/04/26 13:40
gamma-BHC (Lindane)	EPA 8081B	<0.00842	U	µg/L	0.0101	1	03/05/26 14:10	03/04/26 13:40
Heptachlor	EPA 8081B	<0.00769	U	µg/L	0.0101	1	03/05/26 14:10	03/04/26 13:40
Heptachlor epoxide	EPA 8081B	0.0277		µg/L	0.0101	1	03/05/26 14:10	03/04/26 13:40
Methoxychlor	EPA 8081B	<0.0100	U	µg/L	0.0101	1	03/05/26 14:10	03/04/26 13:40
Toxaphene	EPA 8081B	<0.111	U	µg/L	2.02	1	03/05/26 14:10	03/04/26 13:40
trans-Chlordane	EPA 8081B	0.0198		µg/L	0.0101	1	03/05/26 14:10	03/04/26 13:40
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	114		%REC	42-148	1	03/05/26 14:10	03/04/26 13:40
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	89.3		%REC	57-141	1	03/05/26 14:10	03/04/26 13:40



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2477594

Work Order: HN2602928
Date Collected: NA
Date Received: NA
Run ID: 3922711

TCLP Organochlorine Pesticides by GC/ECD

MB **CLIENT ID: Method Blank** **Lab ID: QC-MRG2-2477594001**

Method: EPA 8081B **Dilution:** 1 **Analysis Date:** 03/04/26 18:55
Prep Date: 03/04/26 13:41

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlordane (NOS)	<0.0100	µg/L	0.0100							U
Chlordane, Technical	<0.0340	µg/L	0.500							U
cis-Chlordane	<0.00800	µg/L	0.0100							U
Endrin	<0.00851	µg/L	0.0100							U
gamma-BHC (Lindane)	<0.00832	µg/L	0.0100							U
Heptachlor	<0.00760	µg/L	0.0100							U
Heptachlor epoxide	<0.00796	µg/L	0.0100							U
Methoxychlor	<0.00989	µg/L	0.0100							U
Toxaphene	<0.110	µg/L	2.00							U
trans-Chlordane	<0.00800	µg/L	0.0100							U
Surr: Decachlorobiphenyl	0.276	µg/L		0.25		110	0.42-148			
Surr: Tetrachloro-m-xylene	0.178	µg/L		0.25		71.0	57-141			

LCS **CLIENT ID: Laboratory Control Sample** **Lab ID: QC-MRG2-2477594002**

Method: EPA 8081B **Dilution:** 1 **Analysis Date:** 03/04/26 19:10
Prep Date: 03/04/26 13:41

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlordane (NOS)	0.467	µg/L	0.0100	0.4		117	63-165			
cis-Chlordane	0.235	µg/L	0.0100	0.2		118	63-164			
Endrin	0.246	µg/L	0.0100	0.2		123	43-176			
gamma-BHC (Lindane)	0.215	µg/L	0.0100	0.2		108	63-158			
Heptachlor	0.207	µg/L	0.0100	0.2		104	47-166			
Heptachlor epoxide	0.243	µg/L	0.0100	0.2		122	63-164			
Methoxychlor	0.238	µg/L	0.0100	0.2		119	36-176			
trans-Chlordane	0.232	µg/L	0.0100	0.2		116	63-165			
Surr: Decachlorobiphenyl	0.280	µg/L		0.25		112	42-148			
Surr: Tetrachloro-m-xylene	0.209	µg/L		0.25		83.7	57-141			

DLCS **CLIENT ID: Laboratory Control Sample Duplicate** **Lab ID: QC-MRG2-2477594003**

Method: EPA 8081B **Dilution:** 1 **Analysis Date:** 03/04/26 19:24
Prep Date: 03/04/26 13:41

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlordane (NOS)	0.460	µg/L	0.0100	0.4		115	63-165	1.47	20	
cis-Chlordane	0.232	µg/L	0.0100	0.2		116	63-164	1.28	20	
Endrin	0.239	µg/L	0.0100	0.2		119	43-176	3.14	20	
gamma-BHC (Lindane)	0.208	µg/L	0.0100	0.2		104	63-158	3.31	20	
Heptachlor	0.205	µg/L	0.0100	0.2		102	47-166	1.17	20	
Heptachlor epoxide	0.239	µg/L	0.0100	0.2		119	63-164	1.99	20	
Methoxychlor	0.230	µg/L	0.0100	0.2		115	36-176	3.68	20	
trans-Chlordane	0.228	µg/L	0.0100	0.2		114	63-165	1.65	20	
Surr: Decachlorobiphenyl	0.280	µg/L		0.25		112	42-148	0.143	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2477594

Work Order: HN2602928
Date Collected: NA
Date Received: NA
Run ID: 3922711

DLCS	CLIENT ID: Laboratory Control Sample Duplicate	Lab ID: QC-MRG2-2477594003
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Method: EPA 8081B **Dilution:** 1 **Analysis Date:** 03/04/26 19:24
Prep Date: 03/04/26 13:41

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Surr: Tetrachloro-m-xylene	0.234	µg/L		0.25		93.4	57-141	11.0	30	

The following samples were analyzed in this batch: HN2602928-001



right solutions.
right partner.

April 20, 2026

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

Re: **18441 St Louis**

Date Received: **04/07/2026**

Work Order: **HN2605545**

Dear Ryan,

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

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

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

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

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

Kathy Jones-Gronda

/S/ KATHY JONES-GRONDA

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis

Work Order: HN2605545
Date Received: 07-Apr-2026

CASE NARRATIVE

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

Sample Receipt

1 soil/solid sample was received for analysis at ALS Environmental on 07-Apr-2026. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Workorder: HN2605545

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2605545-001	18441 TCLP SB03 (5-6') _20260406	SOIL/SOLID	04/06/26 11:05	04/07/26 08:00



Telephone : +1 616 399 6070

ALS Project Manager:								Work Order #:											
Information		Project Information						Parameter/Method Request for Analysis											
Project Name		18441 St Louis						A TCLP Lead											
Project Number		DETR0060						B											
h Group		Bill To Company Mannik Smith Group						C											
and Olivia Mitchell		Invoice Attn:						D											
Address		2365 South Haggerty Road						E											
City/State/Zip		Canton, Mi 48188						F											
Phone		734-397-3100						G											
Fax								H											
e-Mail Address		montri@manniksmithgroup.com						I											
e-Mail Address		omitchell@manniksmithgroup.com						J											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	18441 TCLP SB03 (5-6')_2026 0406	4-6-26	1105	Soil	NA	1	X												
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time				Other				Results Due Date:							
Eric Robinson Eric Belin				☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour															
Relinquished by:		Date:	Time:	Received by:		Notes:													
Eric Belin		4-6-26	1400	[Signature]		QS to BH 4/7/26 0800													
Relinquished by:		Date:	Time:	Received by (Laboratory):		QC Package: (Check Box Below)													
[Signature]		4/16/26	1700	[Signature]		Cooler Temp. Level II: Standard QC TRRP-Checklist													
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		Level III: Std QC + Raw Data TRRP Level IV													
BH		4/17/26	1015	[Signature]		Level IV: SW846 CLP-Like													
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035																			
Other:																			

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Please click the link below for detailed Terms & Conditions:
<https://www.alsglobal.com/ALSGroupUSACorpTC>
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ALS Holland
3352 128th Ave., Holland MI 49424

ALS Holland Sample Receiving Checklist

Received by:

BH

Date/Time:

4/7/26 0800

Carrier Name:

QS

Shipping container/cooler in good condition?

☒ Yes / No / Not Present

Custody seals intact on shipping container/cooler?

Yes / No / ☒ Not Present

Custody seals intact on sample bottles?

Yes / No / ☒ Not Present

Chain of Custody present?

☒ Yes / No

COC signed when relinquished and received?

☒ Yes / No

COC agrees with sample labels?

☒ Yes / No

Samples in proper container/bottle?

☒ Yes / No

Sample containers intact?

☒ Yes / No

Sufficient sample volume for indicated test?

☒ Yes / No

All samples received within holding time?

☒ Yes / No

Container/Temp Blank temperature in compliance?

☒ Yes / No

Temperature(s) (°C):

1.5/1.5

Thermometer(s):

186

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

Soil

Cooler(s)/Kit(s):

1

Date/Time sample(s) sent to storage:

4/7/26 1015

Water – VOA vials have zero headspace?

Yes / No / ☒ No Vials

Water – pH acceptable upon receipt?

Yes / No / ☒ N/A

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

pH adjusted (note adjustments below)?

Yes / No / ☒ N/A

pH adjusted by:

Login Notes:

HN-SHT-160-R01, Sample Receipt Checklist

REPORT QUALIFIERS AND DEFINITIONS

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

LABORATORY CERTIFICATIONS¹

Agency	Type	ID	Issued	Expires
Colorado	UST		07/01/2025	06/30/2026
Connecticut	Drinking Water (Secondary)	PH-0155	12/10/2024	12/31/2026
Florida	NELAP (Primary)	E871106	07/01/2025	06/30/2026
Illinois	NELAP (Secondary)	200076	12/08/2025	12/31/2026
Indiana	Drinking Water (Secondary)	C-MI-08	12/31/2024	09/04/2026
Iowa	State Specific	403	09/01/2025	09/01/2027
Kansas	NELAP (Secondary)	E-10411	08/01/2025	07/31/2026
Kentucky	Waste Water	KY98004	1/1/2026	12/31/2026
Kentucky	UST	120474	07/07/2025	06/30/2026
Michigan	Drinking Water (Primary)	0022	12/19/2023	09/04/2026
Minnesota	NELAP (Secondary)	026-999-449	12/10/2025	12/31/2026
Missouri	Drinking Water (Secondary)	01262	11/14/2024	12/30/2027
New Jersey	NELAP (Secondary)	MI015	07/01/2025	6/30/2026
New York	NELAP (Secondary)	12128	04/01/2025	04/01/2026
North Dakota	State Specific	R-192	11/18/2024	06/30/2025
Ohio	Drinking Water (Secondary)	87783	06/26/2025	6/30/2026
Pennsylvania	NELAP (Secondary)	68-03827	11/25/2025	07/31/2026
Texas	NELAP (Secondary)	T104704494	02/01/2026	01/31/2027
USDA	Domestic CA	Soil-MI-007	02/06/2025	08/07/2026
USDA	Soil Import	525-23-62-77572R1	01/28/2026	03/03/2029
West Virginia	State Specific	355	06/07/2025	08/31/2026
Wisconsin	State Specific	399084510	08/08/2025	08/31/2026

1 – Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis

Work Order: HN2605545

Sample Name: 18441 TCLP SB03 (5-6')_20260406
Laboratory Code: HN2605545-001
Sample Matrix: SOIL/SOLID

Date Collected: 04/06/26
Date Received: 04/07/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AC	2543144	Chloe Patrick	4026696	Hunter Johnson

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID

Work Order: HN2605545
Date Collected: 04/06/26 11:05
Date Received: 04/07/26 08:00

CLIENT ID: 18441 TCLP SB03 (5-6')_20260406 **Lab ID:** HN2605545-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Lead	EPA 6020B	<0.00220	U	mg/L	0.0499	1	04/17/26 20:03	04/17/26 09:31

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 18441 St Louis
Matrix: SOIL/SOLID
QC Lot: 2543144

Work Order: HN2605545
Date Collected: NA
Date Received: NA
Run ID: 4026696

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2543144-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 04/17/26 19:40
Prep Date: 04/17/26 09:32

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2543144-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 04/17/26 19:41
Prep Date: 04/17/26 09:32

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

MS	CLIENT ID: Batch QC	Lab ID: QC-2543144-004
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 04/17/26 19:45
Prep Date: 04/17/26 09:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Lead	1.02	mg/L	0.0499	1	<0.00220	102	75-125			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2543144-005
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 04/17/26 19:46
Prep Date: 04/17/26 09:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Lead	1.03	mg/L	0.0499	1	<0.00220	103	75-125	1.49	20	

The following samples were analyzed in this batch: HN2605545-001