

DRAFT

FILL MATERIAL SAMPLING REPORT

8044 MOLENA STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48234



NOVEMBER 6, 2025
REVISED DECEMBER 12, 2025

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



FILL MATERIAL SAMPLING REPORT

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DETROIT, WAYNE COUNTY, MICHIGAN 48234

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EXECUTIVE SUMMARY

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to perform sampling and analysis of fill materials at the property commonly addressed as 8044 Molena Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location, as referenced to nearby roads and major geographic features, is shown on Figure 1, *Site Location Map*. Figure 2, *Site Layout*, depicts the current layout of the Site.

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

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

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

- The stratigraphy encountered during soil boring advancement of 8044 SB01, 8044 SB02, and 8044 SB03 generally consisted of two to five feet of brown clayey sand underlain by brown sand to six feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores ranged from 0.1 to 4.7 parts per million (ppm). There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities, however, concrete and/or asphalt debris was observed in each soil boring.
- Concentrations of benzo(a)pyrene, fluoranthene, and phenanthrene were detected in soil samples 8044 SB01 (1'-2') and/or 8044 Molena SB01 (1'-2')-R in excess of their respective Part 201 groundwater surface water interface protection criteria (GSIPC) and/or direct contact criteria (DCC).
- Concentrations of phenanthrene were detected in soil samples 8044 SB01 (1'-2') and 8044 Molena SB01 (1'-2')-R in excess of its soil volatilization to indoor air pathway (SVIAP).
- Concentrations of 4,4-DDD, 4,4-DDE, 4,4-DDT, acenaphthene, anthracene, arsenic, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, chloride, chrysene, copper, fluorine, indeno(1,2,3-cd)pyrene, lead, mercury, pyrene, chromium (Total), and zinc were detected in soil samples 8044 SB01 (1'-2'), 8044 SB02 (3'-4'), 8044 SB03 (5'-6'), and/or 8044 Molena SB01 (1'-2')-R 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 SVOCs 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 and PCBs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying

bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration; therefore, the groundwater surface water exposure pathway can be considered not applicable. Since the building on site has been razed, the soil volatilization to indoor air pathway (SVIAP) is not currently complete; however, consideration may need to be given to this pathway if future construction is planned.

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

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

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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 8044 Molena Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location as referenced to nearby roads and major geographic features is presented as *Figure 1, Site Location Map*. *Figure 2, Site Layout*, depicts the current layout of the Site.

The purpose of this work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths. The scope of work for this investigation was performed in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. This report presents the findings of this investigation. Soil samples were collected by MSG on August 13, 2025. The findings of this report are valid as of the report date, subject to the limitations presented in *Appendix A, Limitations*.

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

2.0 PURPOSE AND SCOPE OF WORK

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

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

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

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

3.0 SITE ASSESSMENT METHODOLOGY

The following subsections describe the methodologies employed by MSG at the Site during sampling activities that were conducted on August 13, 2025, October 8, 2025, and October 27, 2025. Daily field activity reports prepared by MSG are presented in *Appendix B, Daily Field Reports*.

3.1 Preliminary Site Work Activities

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

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

3.2 Soil Sample Collection

The sampling plan for the Site was based on the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and modified in the field (if necessary) based on encountered conditions and professional judgment of MSG's field personnel. MSG advanced three (3) initial soil borings, designated 8044 SB01, 8044 SB02, and 8044 SB03 using a direct push drill rig at the locations depicted on Figure 2. Photographs collected during completion of this work are provided in *Appendix C, Investigation Photographs*.

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

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

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

3.3 Toxicity Characteristic Leaching Procedure (TCLP) Soil Sample Collection

On October 8, 2025, MSG mobilized to the Site to collect an additional soil sample based on request from the COD. Sample location and analyte(s) were based on the laboratory results of the initial soil investigation. MSG personnel advanced one soil boring in the immediate vicinity of the soil boring location that exhibited the highest laboratory result(s) in excess of Part 201 GRCC. Soils were continuously profiled from the ground surface to the termination depth of six feet bgs utilizing a direct push drill rig. These soils were homogenized in a stainless-steel bowl (or equivalent) to produce a single, composite soil sample. The composite soil sample was placed into unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses.

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

On October 27, 2025, MSG mobilized to the Site to collect an additional soil sample based on request from the COD in order to fulfill waste characterization parameters required at a Type II landfill. Sample location and analyte(s) were based on the laboratory results of the initial soil sampling event, as compared to 40 C.F.R. §

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

3.4 Decontamination

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

3.5 Analytical Methods

A total of four (4) soil samples, designated 8044 SB01 (1'-2'), 8044 SB02 (3'-4'), 8044 SB03 (5'-6'), 8044 Molena SB01 (1'-2')-R and one (1) composite soil sample designated 8044 Molena SB01 TCLP were collected as part of this investigation. These soil samples were submitted to ALS Environmental Laboratory (ALS) in Holland, Michigan for laboratory analysis of the following parameters per the requested parameters as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and individual TCLP analysis:

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

3.6 Quality Assurance/Quality Control

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

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

4.0 SUMMARY OF RESULTS

The following subsections include a discussion of the soil samples that were collected from the Site on August 13, 2025, October 8, 2025, and October 27, 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 8044 SB01, 8044 SB02, and 8044 SB03 generally consisted of two to five feet of brown clayey sand underlain by brown sand to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.1 to 4.7 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of

contamination observed during soil sampling activities; however, concrete and/or asphalt debris was observed in all borings.

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 8044 SB01 (1'-2'), 8044 SB02 (3'-4'), 8044 SB03 (5'-6'), and 8044 Molena SB01 (1'-2')-R were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and/or pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration ($\mu\text{g}/\text{kg}^1$)	Maximum Detected Concentration ($\mu\text{g}/\text{kg}$)
Benzo(a)pyrene	50-32-8	8044 SB01 (1'-2') 8044 Molena SB01 (1'-2')-R	DCC ² / 2,000	9,900
Fluoranthene	206-44-0	8044 SB01 (1'-2')	GSIPC ³ / 5,500	25,000
Phenanthrene	85-01-8	8044 SB01 (1'-2') 8044 Molena SB01 (1'-2')-R	GSIPC / 2,100	20,000

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

²DCC – Direct Contact Criteria

³GSIPC – Groundwater Surface Water Interface Protection Criteria

4.3 TCLP Analytical Results

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

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

4.4 Exposure Evaluation

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

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

volatilization to indoor air pathway (SVIAP) is not currently complete; however, consideration may need to be given to this pathway if future construction is planned.

5.0 FINDINGS

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

- The stratigraphy encountered during soil boring advancement of 8044 SB01, 8044 SB02, and 8044 SB03 generally consisted of two to five feet of brown clayey sand underlain by brown sand to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.1 to 4.7 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete and/or asphalt debris was observed in each soil boring.
- Concentrations of benzo(a)pyrene, fluoranthene, and phenanthrene were detected in soil samples 8044 SB01 (1'-2') and/or 8044 Molena SB01 (1'-2')-R in excess of their Part 201 GSIPC and/or DCC.
- Concentrations of phenanthrene were detected in soil sample 8044 SB01 (1'-2') in excess of its SVIAP.
- Concentrations of 4,4-DDD, 4,4-DDE, 4,4-DDT, acenaphthene, anthracene, arsenic, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, chloride, chrysene, copper, fluorine, indeno(1,2,3-cd)pyrene, lead, mercury, pyrene, chromium (Total), and zinc were detected in soil samples 8044 SB01 (1'-2'), 8044 SB02 (3'-4'), 8044 SB03 (5'-6'), and/or 8044 Molena SB01 (1'-2')-R 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 SVOCs 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 and PCBs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the DW exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration; therefore, the groundwater surface water exposure pathway can be considered not applicable. Since the building on site has been razed, the SVIAP is not currently complete; however, consideration may need to be given to this pathway if future construction is planned.

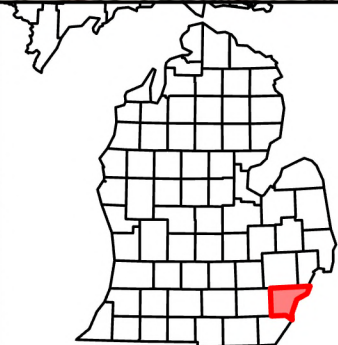
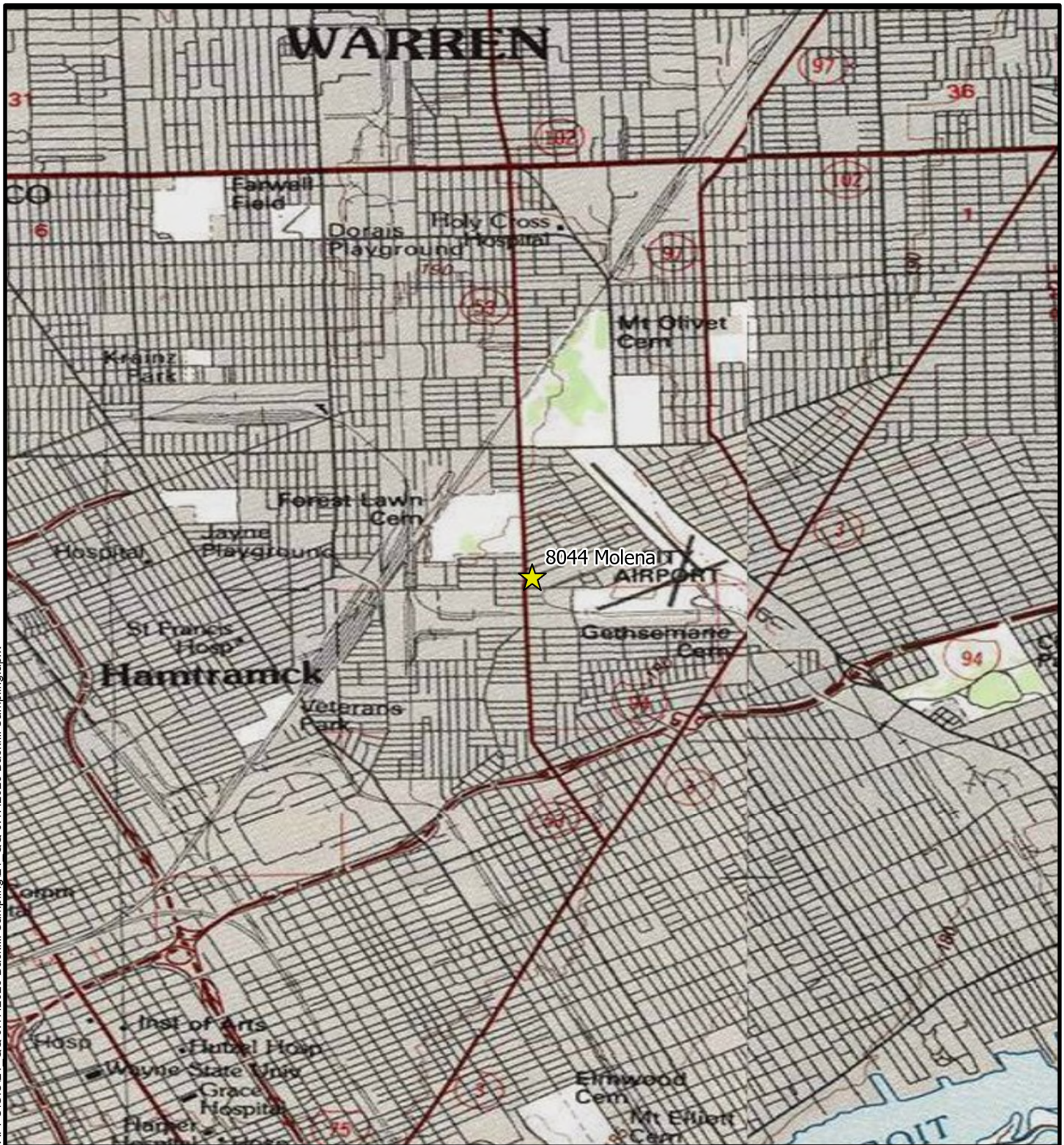
MSG has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the state's Part 201 GRCC, as applicable.

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

FIGURES



Date Saved: 9/22/2025 8:38 PM Coordinate System: GCS WGS 1984
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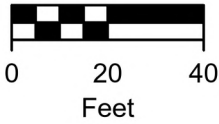
★ Site Location



FIGURE 1
SITE LOCATION

8044 Molena, Detroit, MI

DATE 9/23/2025	DRAWN BY JWW	DESIGNED BY JWW	PROJECT NO. DETRO060
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-  Sample Locations
-  Parcels (Current)
-  Subject Property

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



FIGURE 2
Site Layout

8044 Molena, Detroit, MI

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



Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
8044 Molena, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 Units: µg/kg			Volatile Organic Compounds (VOCs)	Semivolatile Organic Compounds (SVOCs)												Michigan 10 Metals										Pesticides/Herbicides			Polychlorinated Biphenyls (PCBs)	Inorganic Anions/Ions		
				Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	bis(2-Ethylhexyl)phthalate	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	Arsenic	Barium (B)	Cadmium (B)	Chromium (Total)	Copper (B)	Lead (B)	Mercury (B,Z)	Selenium (B)	Silver (B)	Zinc (B)	4,4'-DDD		4,4'-DDE	4,4'-DDT	
CAS Number	83-32-9	120-12-7	56-55-3	205-99-2	207-08-9	191-24-2	50-32-8	218-01-9	117-81-7	206-44-0	86-73-7	193-39-5	85-01-8	129-00-0	7440-38-2	7440-39-3	7440-43-9	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7782-49-2	7440-22-4	7440-66-6	72548	72-55-9	50-29-3	16887006				
Statewide Default Background Levels	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000	NA	NA	NA	NA				
Drinking Water Protection Criteria (DWPC)	3.0E+05	41,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7.3E+05	3.9E+05	NLL	56,000	4.8E+05	4,600	1.3E+06	6,000	30,000	5.8E+06	7.0E+05	1,700	4,000	4,500	2.4E+06	NLL	NLL	NLL	5.00E+06				
Groundwater Surface Water Interface Protection Criteria (GSIIPC)	8,700	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	5,300	NLL	2,100	ID	4,600	(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27	(G)	NLL	NLL	NLL	(X)				
Soil Volatilization to Indoor Air Inhalation (SVIIC)	1.9E+08	1.0E+09 (D)	NLV	ID	NLV	NLV	NLV	ID	NLV	1.0E+09 (D)	5.8E+08	NLV	2.8E+06	1.0E+09 (D)	NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV			
Soil Volatilization to Indoor Air Pathway (SVIAP)	2.0E+05	1.3E+07	1.6E+05 (MM)	NA	NA	NA	NA	NA	NA	NA	4.7E+05	NA	1,700	2.5E+07	NA	NA	NA	--	NA	NA	22 (M)	NA	NA	NA	NLV	NLV	NLV	--				
Infinite Source Volatile Soil Inhalation Criteria (VSIC)	8.1E+07	1.4E+09	NLV	ID	NLV	NLV	NLV	ID	NLV	7.4E+08	1.3E+08	NLV	1.6E+05	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV			
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)	8.1E+07	1.4E+09	NLV	ID	NLV	NLV	NLV	ID	NLV	7.4E+08	1.3E+08	NLV	1.6E+05	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV			
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)	8.1E+07	1.4E+09	NLV	ID	NLV	NLV	NLV	ID	NLV	7.4E+08	1.3E+08	NLV	1.6E+05	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV			
Particulate Soil Inhalation Criteria (PSIC)	1.4E+10	6.7E+10	ID	ID	ID	8.0E+08	1.5E+06	ID	7.0E+08	9.3E+09	9.3E+09	ID	6.7E+06	6.7E+09	7.2E+05	3.3E+08	1.7E+06	2.6E+05	1.3E+08	1.0E+08	2.0E+07	1.3E+08	6.7E+06	ID	4.4E+07	3.2E+07	3.2E+07	ID				
Direct Contact Criteria (DCC)	4.1E+07	2.3E+08	20,000	20,000	2.0E+05	2.5E+06	2,000	2.0E+06	2.8E+06	4.6E+07	2.7E+07	20,000	1.6E+06	2.9E+07	7,600	3.7E+07	5.5E+05	2.5E+06	2.0E+07	4.0E+05	1.6E+05	2.6E+06	2.5E+06	1.7E+08	95,000	95,000	45,000	5.0E+5 (F)				
Soil Saturation Concentration Screening Levels (C _{sat})	NA	NA	NA	NA	NA	NA	NA	NA	1.0E+07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Recommended Interim Action Screening Level (RIASL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7E-02	NA	NA	NA	NA	NA	NA	NA	--			
SAMPLE ID	DEPTH (ft)	SAMPLE DATE																														
8044 SB01	1-2	8/13/2025	ND	<3600	4,900	11,000	11,000	4,700	5,100	9,900	10,000	<5400	25,000	<3600	6,100	20,000	20,000	4,460	52,000	<1,290	15,400	13,700	29,000	28.5	<3,230	<3,230	51,000	8.3	53	55	ND	63,800
8044 SB02	3-4	8/13/2025	ND	<1100	<1,100	<1,100	<1,100	<1,100	<1,100	<1,100	<1700	2,000	<1100	<1,100	1,200	1,600	3,600	38,600	<1,320	10,100	11,000	20,600	64.1	<3,310	<3,310	42,400	22	79	33	ND	29,600	
8044 SB03	5-6	8/13/2025	ND	<1100	<1,100	<1,100	<1,100	<1,100	<1,100	<1,100	<1700	<1,100	<1100	<1,100	<1,100	<1,100	<3,320	16,800	<1,280	8,140	4,860	9,370	60.2	<3,200	<3,200	15,900	<6.1	<6.1	<6.1	ND	<12,200	
8044 Molena SB01 - R	1-2	10/27/2025	ND	263	997	2,070	2,800	943	1,620	2,130	1,790	462	5,240	426	1,790	3,500	4,170	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Table 2
TCLP Analytical Detection Summary

Detroit Backfill Sampling
8044 Molena, 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 Semivolatile Organic Compounds (SVOCs)											
		1,4-Dichlorobenzene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dinitrotoluene	2-Methylphenol	3&4-Methylphenol	Hexachlorobenzene	Hexachlorobutadiene	Hexachloroethane	Nitrobenzene	Pentachlorophenol	Pyridine
Maximum Concentration of Contaminants for the Toxicity Characteristic		7.5	400.0	2.0	10.0	-	-	0.13	0.5	3.0	2.0	100.0	5.0
SAMPLE ID	SAMPLE DATE												
8044 Molena SB01 TCLP	10/8/2025	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.10

Notes:

Bold indicates concentration above method detection limits.

Exceeds Maximum Concentration of Contaminates for the Toxicity Characteristic

APPENDIX A

LIMITATIONS



LIMITATIONS

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

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

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

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

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

APPENDIX B

DAILY FIELD REPORTS



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

Date: 08/13/2025	Day: Wednesday	Temp: N/A (AM) 80 ° F (PM)
MSG Personnel: SRK, BM	Cloud Cover: N/A (AM) 80% (PM)	Precip.: N/A (AM) N/A (PM)
Personnel: MSG		
MSG Hours On-Site: ~ 1 hours		

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

Summary of Work Performed:
- Advanced 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:
1330 – SRK and BM onsite (8044 Molena Street) 1332 – Unloaded equipment and marked boring locations 1343 – Began drilling SB01 1345 – Finished drilling SB01 1348 – Began drilling SB02 1350 – Finished drilling SB02 1352 – Sampled 8044 SB01 (1-2') 1352 – Began drilling SB03 1354 – Finished drilling SB03 1409 – Sampled 8044 SB02 (3-4') 1426 – Sampled 8044 SB03 (5-6') 1430 – Packed up equipment 1440 – MSG off site

Supporting Documentation								
Photograph Taken	Yes ☒	No ☐	Samples Collected	Yes ☒	No ☐	Boring/MW Logs	Yes ☒	No ☐
Photo Log Attached	☒	☐	COC Attached	☒	☐	Field Note Book Taken	☒	☐
Problem Identification and Corrective Measures								
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: <u>10/8/2025</u>	Day: <u>Wednesday</u>	Temp: <u>50 ° F</u> (AM) <u>N/A</u> (PM)	
MSG Personnel: <u>SRK, JF</u>		Cloud Cover: <u>0%</u> (AM) <u>N/A</u> (PM)	
		Precip.: <u>N/A</u> (AM) <u>N/A</u> (PM)	
Personnel: <u>MSG</u>			
MSG Hours On-Site: <u>~ 1 hours</u>			

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

Summary of Work Performed:
- Advanced one (1) onsite soil borings to a maximum depth of 6 feet below ground surface (bgs) - Collected TCLP of fill material from soil boring (composite sample of from zero to 6 feet bgs).

Field Notes:
0835 – SRK onsite (8044 Molena) 0837 – Attempted to locate previous boring locations. Marked out new boring location. 0845 – Collected GPS points of previous borings. 0850 – Prepared equipment 0902 – JF onsite 0905 – Safety meeting. Unloaded equipment. 0917 – Began drilling SB01 TCLP 0919 – Finished drilling SB01 TCLP 0925 – Sampled 8044 Molena SB01 TCLP 0930 – Collected new boring GPS point 0940 – Packed up equipment 0942 – MSG off site

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

**DAILY FIELD REPORT****Client:** City of Detroit Demolition Department**Project:** Sampling and Analysis of Fill Material**Report No.:** 3**Job No.:** DETR0060

Date: 10/27/2025	Day: Monday	Temp: 49 ° F	(AM)	N/A	(PM)
MSG Personnel: KW, JDF		Cloud Cover: ~5%	(AM)	N/A	(PM)
		Precip.: N/A	(AM)	N/A	(PM)
Personnel: MSG					
MSG Hours On-Site: ~ 1 hour					
Contractors Information					
Contractor: MSG		No. Men and Type: 2; Operator/Geologist		Equipment Type: Geoprobe 7822DT	
Summary of Work Performed:					
- Advanced one (1) onsite soil borings to a maximum depth of 2 feet below ground surface (bgs) - Collected soil sample from soil boring (from the interval 1-2' to analyze for SVOCs)					
Field Notes:					
1145 – MSG (KF, JDF) onsite (8044 Molena) 1150 – Attempted to locate previous boring locations. Marked out new boring location. 1210 – Began drilling SB01 (1-2')-R 1230 – Sampled 8044 Molena SB01 (1-2')-R 1236 – Packed up equipment 1245 – MSG off site					

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

APPENDIX C

INVESTIGATION PHOTOGRAPHS





Photo 1: View of Site during initial soil boring activities.



Photo 2: Viewing 14404 SB01 Drilling, Facing Northeast.



Photo 3: Viewing 8044 SB01 Soils, Facing Southeast.



Photo 4: Viewing 14404 SB02 Drilling, Facing Northeast.



Photo 5: Viewing 8044 SB02 Soils, Facing Southeast.

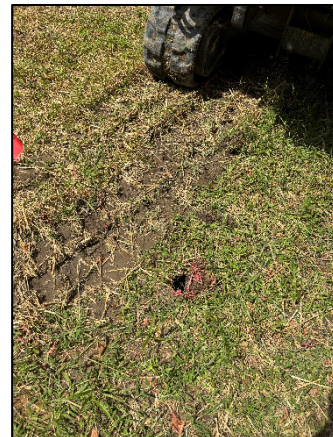


Photo 6: Viewing 8044 SB03 Drilling, Facing Northeast.



Photo 7: Viewing 8044 SB03 Soils, Facing Southeast.



Photo 8: Viewing Site Post-Drilling, Facing Southeast.



Photo 9: Viewing the Site at the time of TCLP soil boring activities.



Photo 10: Viewing TCLP soil boring location.



Photo 11: Viewing TCLP soil boring recovery.



Photo 12: Viewing Site Post-TCLP drilling.



Photo 13: Viewing the Site at the time of supplemental soil sampling activities.



Photo 14: Viewing supplemental soil boring location.



Photo 15: Viewing supplemental soil boring recovery.

APPENDIX D

SOIL BORING LOGS





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

BORING ID: SB01

PAGE 1 OF 1

CLIENT <u>City of Detroit</u>	PROJECT NAME <u>8044 Molena</u>
PROJECT NUMBER <u>DETR0060</u>	PROJECT LOCATION <u>8044 Molena St, Detroit, Michigan</u>
DATE STARTED <u>8/13/25</u> COMPLETED <u>8/13/25</u>	BORING DIAMETER: <u>3.25 inches</u>
DRILLING CONTRACTOR <u>MSG</u>	SURVEY COORDINATES: <u>N/A</u>
DRILLING METHOD <u>Direct Push</u>	GROUND SURFACE ELEV.: <u>N/A</u>
LOGGED BY <u>SRK</u> CHECKED BY <u>PDH</u>	GROUND WATER ENCOUNTERED DURING DRILLING: <u>Not Encountered</u>
NOTES	WATER LEVEL AFTER DRILLING: <u>N/A</u>

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 9/8/25 12:18 - W:\PROJECTS\PROJECTS A-EIDETRO060\ADMIN\23_QQ 7.25.2025 BACKFILL SAMPLING (48 SITES)\8044 MOLENA\BORING LOGS\DETR0060_8044.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Brown Clayey SAND, some gravel, dry			
					Some concrete debris at 1 foot bgs	0.3		
				2.0		1.7		
					Dark Brown SAND, some gravel, dry	1.9		
					Some concrete debris at 4 feet bgs	3.3		
5					Becomes moist at 5 feet bgs	4.7		
				5.5				
				6.0	Tan SAND, trace gravel, moist	1.6		
					Bottom of borehole at 6.0 feet.			



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

BORING ID: SB02

PAGE 1 OF 1

CLIENT	City of Detroit	PROJECT NAME	8044 Molena
PROJECT NUMBER	DETR0060	PROJECT LOCATION	8044 Molena St, Detroit, Michigan
DATE STARTED	8/13/25	COMPLETED	8/13/25
BORING DIAMETER:	3.25 inches		
DRILLING CONTRACTOR	MSG		
SURVEY COORDINATES:	N/A		
DRILLING METHOD	Direct Push		
GROUND SURFACE ELEV.:	N/A		
LOGGED BY	SRK	CHECKED BY	PDH
		GROUND WATER ENCOUNTERED DURING DRILLING:	Not Encountered
NOTES		WATER LEVEL AFTER DRILLING: N/A	

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 9/8/25 12:18 - W:\PROJECTS\PROJECTS A-EIDETRO060ADMIN\23_QQ 7.25.2025 BACKFILL SAMPLING (48 SITES)\8044 MOLENA\BORING LOGS\IDETRO060_8044.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Dark Brown Clayey SAND, some gravel, dry			
					Some concrete debris at 1 foot bgs	0.6		
				2.0		4.6		
					Brown SAND, some gravel, dry			
					Some concrete debris at 3 feet bgs	2.0		
				4.0		1.0		
					Concrete debris (Fill), dry			
5				5.0		0.4		
					Brown SAND, little gravel, dry			
				6.0		0.2		
					Bottom of borehole at 6.0 feet.			



The Mannik & Smith Group, Inc.
2365 Haggerty Rd South Canton, MI 48188
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www.manniksmithgroup.com

BORING ID: SB03

PAGE 1 OF 1

CLIENT	City of Detroit	PROJECT NAME	8044 Molena
PROJECT NUMBER	DETR0060	PROJECT LOCATION	8044 Molena St, Detroit, Michigan
DATE STARTED	8/13/25	COMPLETED	8/13/25
BORING DIAMETER:	3.25 inches		
DRILLING CONTRACTOR	MSG		
SURVEY COORDINATES:	N/A		
DRILLING METHOD	Direct Push		
GROUND SURFACE ELEV.:	N/A		
LOGGED BY	SRK	CHECKED BY	PDH
NOTES		GROUND WATER ENCOUNTERED DURING DRILLING: Not Encountered	
		WATER LEVEL AFTER DRILLING: N/A	

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 9/8/25 12:18 - W:\PROJECTS\PROJECTS A-EIDETRO060\ADMIN\23_QQ 7.25.2025 BACKFILL SAMPLING (48 SITES)\8044 MOLENA\BORING LOGS\DETR0060_8044.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Dark Brown to Brown Clayey SAND, trace gravel, dry	0.1		
					Some concrete debris at 2 feet bgs	0.3		
					Some asphalt debris at 3 feet bgs	0.3		
5					Some concrete debris at 5 feet bgs	0.4		
				5.5				
				6.0	Brown SAND, trace gravel, moist	0.2		
					Bottom of borehole at 6.0 feet.			

MC
1

1.5

Collected soil sample 8044 SB03 (5-6) at 14:26

APPENDIX E
LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

CERTIFICATE OF ANALYSIS

Work Order

HN2511418

Client

The Mannik & Smith Group, Inc.

Project

8044_Molena

Project Date

August 14, 2025

Reporting Contact

Ryan Montri



right solutions.
right partner.

September 05, 2025

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

Work Order: **HN2511418**

Re: **8044_Molena**

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

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

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

If you have any questions regarding this report, please feel free to contact me:
ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

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



Client: The Mannik & Smith Group, Inc.
Project: 8044_Molena

Work Order: HN2511418
Date Received: 14-Aug-2025

CASE NARRATIVE

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

Sample Receipt

3 soil/solid samples were received for analysis at ALS Environmental on 14-Aug-2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals

EPA 6020B-3050B-S

Run ID: 3414291

The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Pb, Zn batch 2167684

The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Pb, Zn batch 2167684

HN2511418-001: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511418-001: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511418-001: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511418-002: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511418-002: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511418-002: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511418-003: Arsenic - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. As, Cd, Se, Ag

HN2511418-003: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. As, Cd, Se, Ag

HN2511418-003: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. As, Cd, Se, Ag

HN2511418-003: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. As, Cd, Se, Ag

Inorganics

EPA 9056A-S (High)

Run ID: 3405747

Matrix spike value was outside upper limit of calibration. Processed at equivalent dilution level as the parent. C,S

Matrix spike duplicate value was outside upper limit of calibration. Processed at equivalent dilution level as the parent. C,S

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: 8044 SB01 (1-2)	Lab ID: HN2511418-001
----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	4.46		3.23	mg/kg	EPA 6020B
Barium	52.0		3.23	mg/kg	EPA 6020B
Chloride	63.8		11.0	mg/kg	EPA 9056A
Chromium	15.4		3.23	mg/kg	EPA 6020B
Copper	13.7		3.23	mg/kg	EPA 6020B
Lead	29.0		3.23	mg/kg	EPA 6020B
Mercury	0.0285		0.0200	mg/kg	EPA 7471B
Percent Moisture	8.8		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	51.0		6.46	mg/kg	EPA 6020B

CLIENT ID: 8044 SB02 (3-4)	Lab ID: HN2511418-002
----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	3.60		3.31	mg/kg	EPA 6020B
Barium	38.6		3.31	mg/kg	EPA 6020B
Chloride	29.6		11.5	mg/kg	EPA 9056A
Chromium	10.1		3.31	mg/kg	EPA 6020B
Copper	11.0		3.31	mg/kg	EPA 6020B
Lead	20.6		3.31	mg/kg	EPA 6020B
Mercury	0.0641		0.0200	mg/kg	EPA 7471B
Percent Moisture	13.4		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	42.4		6.62	mg/kg	EPA 6020B

CLIENT ID: 8044 SB03 (5-6)	Lab ID: HN2511418-003
----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Barium	16.8		3.20	mg/kg	EPA 6020B
Chromium	8.14		3.20	mg/kg	EPA 6020B
Copper	4.86		3.20	mg/kg	EPA 6020B
Lead	9.37		3.20	mg/kg	EPA 6020B
Mercury	0.0602		0.0224	mg/kg	EPA 7471B
Percent Moisture	17.2		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A

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: 8044 SB03 (5-6)			Lab ID: HN2511418-003		
Analyte	Results	Flag	MRL	Units	Method
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	15.9		6.39	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 8044_Molena
Workorder: HN2511418

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511418-001	8044 SB01 (1-2)	SOIL/SOLID	08/13/25 13:52	08/14/25 08:00
HN2511418-002	8044 SB02 (3-4)	SOIL/SOLID	08/13/25 14:09	08/14/25 08:00
HN2511418-003	8044 SB03 (5-6)	SOIL/SOLID	08/13/25 14:26	08/14/25 08:00



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order		Project Name	8044_Molena	A	VOCs (U.S. EPA Method 8260C (or Method 8260))											
Work Order		Project Number	DETR0060	B	SVOCs (U.S. EPA Method 8270D (or Method 8270))											
Company Name	The Mannik and Smith Group	Bill To Company	The Mannik and Smith Group	C	PCBs (U.S. EPA Method 8082)											
Send Report To	Ryan Montri	Invoice Attn.		D	Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)											
Address	2365 Haggerty Rd South Suite 100	Address	2365 Haggerty Rd South Suite 100	E	Chorides (U.S. EPA Method 9056A)											
				F	Pesticides (U.S. EPA Method 8081B (or Method 8081))											
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188	G	Herbicides (U.S. EPA Method 8151A (or Method 8151))											
Phone	734-397-3100	Phone	734-397-3100	H												
Fax		Fax		I												
e-Mail Address	RMontri@manniksmithgroup.com	e-Mail Address		J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	8044 SB01 (1-2)	8/13/25	1352	Soil	7	3	X	X	X	X	X	X	X				
2	8044 SB02 (3-4)	8/13/25	1409	Soil	7	3	X	X	X	X	X	X	X				
3	8044 SB03 (5-6)	8/13/25	1426	Soil	7	3	X	X	X	X	X	X	X				
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign <i>Shannon Kaczmarek</i>		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:		
Relinquished by: <i>[Signature]</i>	Date: 8/13/25	Time: 1530	Received by: <i>[Signature]</i>		Notes: Quote# HN-061825-M&S-MA					
Relinquished by: <i>[Signature]</i>	Date: 8/14/25	Time: 1700	Received by (Laboratory): <i>[Signature]</i>		Cooler Temp. 4.00C IR6		QC Package: (Check Box Below)			
Logged by (Laboratory): BC		Date: 8/14/25	Time: 09:25	Checked by (Laboratory):		Level II: Standard QC		TRRP-Checklist		
						Level III: Std QC + Raw Data		TRRP Level IV		
						Level IV: SW846 CLP-Like				
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035						Other: _____				

Environmental Division
Holland
Work Order Reference
HN2511418

Telephone : +1 616 399 6070

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

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

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ALS Holland Sample Receiving Checklist

Received by: BC

Date/Time: 8/14/25 0800

Carrier Name: QS

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

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

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

Chain of Custody present? Yes / No

COC signed when relinquished and received? Yes / No

COC agrees with sample labels? Yes / No

Samples in proper container/bottle? Yes / No

Sample containers intact? Yes / No

Sufficient sample volume for indicated test? Yes / No

All samples received within holding time? Yes / No

Container/Temp Blank temperature in compliance? Yes / No

Temperature(s) (°C): 4.6°C

Thermometer(s): FR6

Sample(s) received on ice? Yes / No

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 8/14/25 09:30

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

¹ - Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 8044_Molena

Work Order: HN2511418

Sample Name: 8044 SB01 (1-2) **Date Collected:** 08/13/25
Laboratory Code: HN2511418-001 **Date Received:** 08/14/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2164274		3406746	Nicole Maleski
EPA 6020B	EPA 3050B	001-AC	2167684	Weston Kotecki	3414291	Stephanie Pierson
EPA 7471B	Method	001-AC	2167752	Maxx Richey	3416298	Maxx Richey
EPA 8081B		001-AD			3465994	Bill Carey
EPA 8082A		001-AD			3465994	Bill Carey
EPA 8151A		001-AD			3465994	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2159881	Jonathan Vazquez	3424725	Nathan Jenkins
EPA 8270E		001-AD			3465994	Bill Carey
EPA 9056A	EPA 9056A	001-AC	2163330	Quoc Nguyen	3405747	Jessica Bacon

Sample Name: 8044 SB02 (3-4) **Date Collected:** 08/13/25
Laboratory Code: HN2511418-002 **Date Received:** 08/14/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2164274		3406746	Nicole Maleski
EPA 6020B	EPA 3050B	002-AC	2167684	Weston Kotecki	3414291	Stephanie Pierson
EPA 7471B	Method	002-AC	2167752	Maxx Richey	3416298	Maxx Richey
EPA 8081B		002-AD			3465994	Bill Carey
EPA 8082A		002-AD			3465994	Bill Carey
EPA 8151A		002-AD			3465994	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2159881	Jonathan Vazquez	3424725	Nathan Jenkins
EPA 8270E		002-AD			3465994	Bill Carey
EPA 9056A	EPA 9056A	002-AC	2163330	Quoc Nguyen	3405747	Jessica Bacon

Sample Name: 8044 SB03 (5-6) **Date Collected:** 08/13/25
Laboratory Code: HN2511418-003 **Date Received:** 08/14/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AC	2164278		3406747	Nicole Maleski

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 8044_Molena

Work Order: HN2511418

Sample Name: 8044 SB03 (5-6)
Laboratory Code: HN2511418-003
Sample Matrix: SOIL/SOLID

Date Collected: 08/13/25
Date Received: 08/14/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3050B Method	003-AC	2167684	Weston Kotecki	3414291	Stephanie Pierson
EPA 7471B		003-AC	2167752	Maxx Richey	3416298	Maxx Richey
EPA 8081B		003-AD			3465994	Bill Carey
EPA 8082A		003-AD			3465994	Bill Carey
EPA 8151A	EPA 5035A	003-AD			3465994	Bill Carey
EPA 8260D		003-AA	2159881	Jonathan Vazquez	3424725	Nathan Jenkins
EPA 8270E		003-AD			3465994	Bill Carey
EPA 9056A	EPA 9056A	003-AC	2163330	Quoc Nguyen	3405747	Jessica Bacon

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8044_Molena
Matrix: SOIL/SOLID

Work Order: HN2511418
Date Collected: 08/13/25 13:52
Date Received: 08/14/25 08:00

CLIENT ID: 8044 SB01 (1-2)	Lab ID: HN2511418-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	8.8		%	0.1	1	08/16/25 14:40	NA
Chloride	EPA 9056A	63.8		mg/kg	11.0	1	08/16/25 00:42	08/15/25 16:37
Metals								
Arsenic	EPA 6020B	4.46		mg/kg	3.23	10	08/19/25 23:06	08/19/25 09:35
Barium	EPA 6020B	52.0		mg/kg	3.23	10	08/19/25 23:06	08/19/25 09:35
Cadmium	EPA 6020B	ND		mg/kg	1.29	10	08/19/25 23:06	08/19/25 09:35
Chromium	EPA 6020B	15.4		mg/kg	3.23	10	08/19/25 23:06	08/19/25 09:35
Copper	EPA 6020B	13.7		mg/kg	3.23	10	08/19/25 23:06	08/19/25 09:35
Lead	EPA 6020B	29.0		mg/kg	3.23	10	08/19/25 23:06	08/19/25 09:35
Selenium	EPA 6020B	ND		mg/kg	3.23	10	08/19/25 23:06	08/19/25 09:35
Silver	EPA 6020B	ND		mg/kg	3.23	10	08/19/25 23:06	08/19/25 09:35
Zinc	EPA 6020B	51.0		mg/kg	6.46	10	08/19/25 23:06	08/19/25 09:35
Mercury	EPA 7471B	0.0285		mg/kg	0.0200	1	08/20/25 10:12	08/20/25 08:19
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/05/25 08:33	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/05/25 08:33	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/05/25 08:33	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/05/25 08:33	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	122	1	08/21/25 18:56	08/14/25 12:24
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	122	1	08/21/25 18:56	08/14/25 12:24
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	122	1	08/21/25 18:56	08/14/25 12:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8044_Molena
Matrix: SOIL/SOLID

Work Order: HN2511418
Date Collected: 08/13/25 13:52
Date Received: 08/14/25 08:00

CLIENT ID: 8044 SB01 (1-2) **Lab ID: HN2511418-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	122	1	08/21/25 18:56	08/14/25 12:24
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	122	1	08/21/25 18:56	08/14/25 12:24
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	73.2	1	08/21/25 18:56	08/14/25 12:24
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	244	1	08/21/25 18:56	08/14/25 12:24
2-Hexanone	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Acetone	EPA 8260D	ND		µg/kg	122	1	08/21/25 18:56	08/14/25 12:24
Benzene	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Bromochloromethane	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Bromodichloromethane	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Bromoform	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Carbon disulfide	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Carbon tetrachloride	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Chlorobenzene	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Chlorodibromomethane	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	122	1	08/21/25 18:56	08/14/25 12:24
Chloroform	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	73.2	1	08/21/25 18:56	08/14/25 12:24
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Cyclohexane	EPA 8260D	ND		µg/kg	122	1	08/21/25 18:56	08/14/25 12:24
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	122	1	08/21/25 18:56	08/14/25 12:24
Ethylbenzene	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Isopropylbenzene	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8044_Molena
Matrix: SOIL/SOLID

Work Order: HN2511418
Date Collected: 08/13/25 13:52
Date Received: 08/14/25 08:00

CLIENT ID: 8044 SB01 (1-2) **Lab ID: HN2511418-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	73.2	1	08/21/25 18:56	08/14/25 12:24
Methyl acetate	EPA 8260D	ND		µg/kg	305	1	08/21/25 18:56	08/14/25 12:24
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	122	1	08/21/25 18:56	08/14/25 12:24
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	122	1	08/21/25 18:56	08/14/25 12:24
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Methylcyclohexane	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	305	1	08/21/25 18:56	08/14/25 12:24
o-Xylene	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Styrene	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Toluene	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Total Xylene	EPA 8260D	ND		µg/kg	110	1	08/21/25 18:56	08/14/25 12:24
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	36.6	1	08/21/25 18:56	08/14/25 12:24
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	103		%REC	80-120	1	08/21/25 18:56	08/14/25 12:24
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	105		%REC	80-120	1	08/21/25 18:56	08/14/25 12:24
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	95.8		%REC	80-120	1	08/21/25 18:56	08/14/25 12:24
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	104		%REC	80-120	1	08/21/25 18:56	08/14/25 12:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8044_Molena
Matrix: SOIL/SOLID

Work Order: HN2511418
Date Collected: 08/13/25 14:09
Date Received: 08/14/25 08:00

CLIENT ID: 8044 SB02 (3-4)	Lab ID: HN2511418-002
-----------------------------------	------------------------------

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	13.4		%	0.1	1	08/16/25 14:40	NA
Chloride	EPA 9056A	29.6		mg/kg	11.5	1	08/16/25 00:52	08/15/25 16:37
Metals								
Arsenic	EPA 6020B	3.60		mg/kg	3.31	10	08/19/25 23:07	08/19/25 09:35
Barium	EPA 6020B	38.6		mg/kg	3.31	10	08/19/25 23:07	08/19/25 09:35
Cadmium	EPA 6020B	ND		mg/kg	1.32	10	08/19/25 23:07	08/19/25 09:35
Chromium	EPA 6020B	10.1		mg/kg	3.31	10	08/19/25 23:07	08/19/25 09:35
Copper	EPA 6020B	11.0		mg/kg	3.31	10	08/19/25 23:07	08/19/25 09:35
Lead	EPA 6020B	20.6		mg/kg	3.31	10	08/19/25 23:07	08/19/25 09:35
Selenium	EPA 6020B	ND		mg/kg	3.31	10	08/19/25 23:07	08/19/25 09:35
Silver	EPA 6020B	ND		mg/kg	3.31	10	08/19/25 23:07	08/19/25 09:35
Zinc	EPA 6020B	42.4		mg/kg	6.62	10	08/19/25 23:07	08/19/25 09:35
Mercury	EPA 7471B	0.0641		mg/kg	0.0200	1	08/20/25 10:20	08/20/25 08:19
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/05/25 08:33	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/05/25 08:33	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/05/25 08:33	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/05/25 08:33	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	135	1	08/21/25 19:13	08/14/25 12:24
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	135	1	08/21/25 19:13	08/14/25 12:24
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	135	1	08/21/25 19:13	08/14/25 12:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8044_Molena
Matrix: SOIL/SOLID

Work Order: HN2511418
Date Collected: 08/13/25 14:09
Date Received: 08/14/25 08:00

CLIENT ID: 8044 SB02 (3-4)	Lab ID: HN2511418-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	135	1	08/21/25 19:13	08/14/25 12:24
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	135	1	08/21/25 19:13	08/14/25 12:24
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	80.8	1	08/21/25 19:13	08/14/25 12:24
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	269	1	08/21/25 19:13	08/14/25 12:24
2-Hexanone	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Acetone	EPA 8260D	ND		µg/kg	135	1	08/21/25 19:13	08/14/25 12:24
Benzene	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Bromochloromethane	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Bromodichloromethane	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Bromoform	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Carbon disulfide	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Carbon tetrachloride	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Chlorobenzene	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Chlorodibromomethane	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	135	1	08/21/25 19:13	08/14/25 12:24
Chloroform	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	80.8	1	08/21/25 19:13	08/14/25 12:24
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Cyclohexane	EPA 8260D	ND		µg/kg	135	1	08/21/25 19:13	08/14/25 12:24
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	135	1	08/21/25 19:13	08/14/25 12:24
Ethylbenzene	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Isopropylbenzene	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8044_Molena
Matrix: SOIL/SOLID

Work Order: HN2511418
Date Collected: 08/13/25 14:09
Date Received: 08/14/25 08:00

CLIENT ID: 8044 SB02 (3-4) **Lab ID: HN2511418-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	80.8	1	08/21/25 19:13	08/14/25 12:24
Methyl acetate	EPA 8260D	ND		µg/kg	337	1	08/21/25 19:13	08/14/25 12:24
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	135	1	08/21/25 19:13	08/14/25 12:24
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	135	1	08/21/25 19:13	08/14/25 12:24
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Methylcyclohexane	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	337	1	08/21/25 19:13	08/14/25 12:24
o-Xylene	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Styrene	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Toluene	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Total Xylene	EPA 8260D	ND		µg/kg	121	1	08/21/25 19:13	08/14/25 12:24
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	40.4	1	08/21/25 19:13	08/14/25 12:24
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	98.5		%REC	80-120	1	08/21/25 19:13	08/14/25 12:24
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	96.4		%REC	80-120	1	08/21/25 19:13	08/14/25 12:24
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	93.4		%REC	80-120	1	08/21/25 19:13	08/14/25 12:24
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	97.2		%REC	80-120	1	08/21/25 19:13	08/14/25 12:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8044_Molena
Matrix: SOIL/SOLID

Work Order: HN2511418
Date Collected: 08/13/25 14:26
Date Received: 08/14/25 08:00

CLIENT ID: 8044 SB03 (5-6)	Lab ID: HN2511418-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	17.2		%	0.1	1	08/16/25 14:40	NA
Chloride	EPA 9056A	ND		mg/kg	12.2	1	08/16/25 01:02	08/15/25 16:37
Metals								
Arsenic	EPA 6020B	ND		mg/kg	3.20	10	08/19/25 23:09	08/19/25 09:35
Barium	EPA 6020B	16.8		mg/kg	3.20	10	08/19/25 23:09	08/19/25 09:35
Cadmium	EPA 6020B	ND		mg/kg	1.28	10	08/19/25 23:09	08/19/25 09:35
Chromium	EPA 6020B	8.14		mg/kg	3.20	10	08/19/25 23:09	08/19/25 09:35
Copper	EPA 6020B	4.86		mg/kg	3.20	10	08/19/25 23:09	08/19/25 09:35
Lead	EPA 6020B	9.37		mg/kg	3.20	10	08/19/25 23:09	08/19/25 09:35
Selenium	EPA 6020B	ND		mg/kg	3.20	10	08/19/25 23:09	08/19/25 09:35
Silver	EPA 6020B	ND		mg/kg	3.20	10	08/19/25 23:09	08/19/25 09:35
Zinc	EPA 6020B	15.9		mg/kg	6.39	10	08/19/25 23:09	08/19/25 09:35
Mercury	EPA 7471B	0.0602		mg/kg	0.0224	1	08/20/25 10:22	08/20/25 08:19
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/05/25 08:33	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/05/25 08:33	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/05/25 08:33	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/05/25 08:33	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	140	1	08/21/25 19:29	08/14/25 12:24
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	140	1	08/21/25 19:29	08/14/25 12:24
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	140	1	08/21/25 19:29	08/14/25 12:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8044_Molena
Matrix: SOIL/SOLID

Work Order: HN2511418
Date Collected: 08/13/25 14:26
Date Received: 08/14/25 08:00

CLIENT ID: 8044 SB03 (5-6) **Lab ID: HN2511418-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	140	1	08/21/25 19:29	08/14/25 12:24
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	140	1	08/21/25 19:29	08/14/25 12:24
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	84.2	1	08/21/25 19:29	08/14/25 12:24
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	280	1	08/21/25 19:29	08/14/25 12:24
2-Hexanone	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Acetone	EPA 8260D	ND		µg/kg	140	1	08/21/25 19:29	08/14/25 12:24
Benzene	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Bromochloromethane	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Bromodichloromethane	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Bromoform	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Carbon disulfide	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Carbon tetrachloride	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Chlorobenzene	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Chlorodibromomethane	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	140	1	08/21/25 19:29	08/14/25 12:24
Chloroform	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	84.2	1	08/21/25 19:29	08/14/25 12:24
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Cyclohexane	EPA 8260D	ND		µg/kg	140	1	08/21/25 19:29	08/14/25 12:24
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	140	1	08/21/25 19:29	08/14/25 12:24
Ethylbenzene	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Isopropylbenzene	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8044_Molena
Matrix: SOIL/SOLID

Work Order: HN2511418
Date Collected: 08/13/25 14:26
Date Received: 08/14/25 08:00

CLIENT ID: 8044 SB03 (5-6)	Lab ID: HN2511418-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	84.2	1	08/21/25 19:29	08/14/25 12:24
Methyl acetate	EPA 8260D	ND		µg/kg	351	1	08/21/25 19:29	08/14/25 12:24
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	140	1	08/21/25 19:29	08/14/25 12:24
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	140	1	08/21/25 19:29	08/14/25 12:24
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Methylcyclohexane	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	351	1	08/21/25 19:29	08/14/25 12:24
o-Xylene	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Styrene	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Toluene	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Total Xylene	EPA 8260D	ND		µg/kg	126	1	08/21/25 19:29	08/14/25 12:24
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	42.1	1	08/21/25 19:29	08/14/25 12:24
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	104		%REC	80-120	1	08/21/25 19:29	08/14/25 12:24
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	98.3		%REC	80-120	1	08/21/25 19:29	08/14/25 12:24
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	92.0		%REC	80-120	1	08/21/25 19:29	08/14/25 12:24
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	08/21/25 19:29	08/14/25 12:24



November 20, 2025

Service Request No:R2510161

Bill Carey
ALS Environmental - Holland
3352 128th Avenue
Holland, MI 49424

Laboratory Results for: 8044_Molena

Dear Bill,

Enclosed are the results of the sample(s) submitted to our laboratory August 20, 2025
For your reference, these analyses have been assigned our service request number **R2510161**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Received: 08/20/2025

CASE NARRATIVE

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

Sample Receipt:

Three soil samples were received for analysis at ALS Environmental on 08/20/2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270E, 08/25/2025: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270E: The Method Reporting Limit (MRL) was elevated due to less than optimal sample mass (15g) used in the microwave preparation process. The nature of the sample necessitated using less mass of sample to avoid overheating. Overheating causes the extraction solvent to vent out of the vessel and may cause damage to the microwave vessels.

Semivolatile GC:

Method 8081B, 891480s: The control limits were exceeded for one or more surrogates due to matrix interferences. Due to the presence of non-target background components that prevented adequate resolution of the surrogate, accurate quantitation was not possible. No further corrective action was appropriate. Sample -001.

Method 8081B, 08/27/2025: The control limits were exceeded for analytes in the Continuing Calibration Verification (CCV). The QC failure was most likely due to the composition of the sample(s) immediately preceding the failing CCV. In order to protect the integrity of the instrument, no further corrective action was taken. Results should be considered estimated.

Method 8082A, 891350s: The control limits were exceeded for one or more surrogates due to matrix interferences. Due to the presence of non-target background components that prevented adequate resolution of the surrogate, accurate quantitation was not possible. No further corrective action was appropriate. Sample -001.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by  _____

Date 11/20/2025

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: 8044 SB01 (1-2)			Lab ID: R2510161-001			
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Analyte	Results	Flag	MDL	MRL	Units	Method
1-Methylnaphthalene	930	J	660	3600	ug/Kg	8270E
4,4'-DDD	8.3	P	0.92	1.8	ug/Kg	8081B
4,4'-DDE	53		0.92	1.8	ug/Kg	8081B
4,4'-DDT	55		0.92	1.8	ug/Kg	8081B
Acenaphthene	1200	J	680	3600	ug/Kg	8270E
Acenaphthylene	2100	J	730	3600	ug/Kg	8270E
Anthracene	4900		600	3600	ug/Kg	8270E
Benz(a)anthracene	11000		540	3600	ug/Kg	8270E
Benzo(a)pyrene	9900		960	3600	ug/Kg	8270E
Benzo(b)fluoranthene	11000		600	3600	ug/Kg	8270E
Benzo(g,h,i)perylene	5100		830	3600	ug/Kg	8270E
Benzo(k)fluoranthene	4700		580	3600	ug/Kg	8270E
Carbazole	1100	J	580	3600	ug/Kg	8270E
Chrysene	10000		530	3600	ug/Kg	8270E
Dibenz(a,h)anthracene	1600	J	780	3600	ug/Kg	8270E
Dibenzofuran	1400	J	660	3600	ug/Kg	8270E
Fluoranthene	25000		900	3600	ug/Kg	8270E
Fluorene	3000	J	670	3600	ug/Kg	8270E
Indeno(1,2,3-cd)pyrene	6100		1200	3600	ug/Kg	8270E
Phenanthrene	20000		510	3600	ug/Kg	8270E
Pyrene	20000		600	3600	ug/Kg	8270E
Total Solids	91.2				Percent	ALS SOP

CLIENT ID: 8044 SB02 (3-4)			Lab ID: R2510161-002			
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	22		2.9	5.8	ug/Kg	8081B
4,4'-DDE	79		2.9	5.8	ug/Kg	8081B
4,4'-DDT	33		2.9	5.8	ug/Kg	8081B
Anthracene	360	J	200	1100	ug/Kg	8270E
Benz(a)anthracene	840	J	170	1100	ug/Kg	8270E
Benzo(a)pyrene	940	J	310	1100	ug/Kg	8270E
Benzo(b)fluoranthene	1000	J	190	1100	ug/Kg	8270E
Benzo(g,h,i)perylene	550	J	270	1100	ug/Kg	8270E
Benzo(k)fluoranthene	410	J	190	1100	ug/Kg	8270E
Chrysene	830	J	170	1100	ug/Kg	8270E
Fluoranthene	2000		290	1100	ug/Kg	8270E
gamma-Chlordane	4.2	J	2.9	5.8	ug/Kg	8081B
Indeno(1,2,3-cd)pyrene	610	J	370	1100	ug/Kg	8270E
Phenanthrene	1200		170	1100	ug/Kg	8270E
Pyrene	1600		190	1100	ug/Kg	8270E
Total Solids	86.6				Percent	ALS SOP



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: 8044 SB02 (3-4)				Lab ID: R2510161-002		
Analyte	Results	Flag	MDL	MRL	Units	Method
CLIENT ID: 8044 SB03 (5-6)				Lab ID: R2510161-003		
Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	82.8				Percent	ALS SOP



Sample Receipt Information

ALS Environmental—Rochester Laboratory

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Phone (585) 288-5380 Fax (585) 288-8475

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Client: ALS Environmental - US
Project: 8044_Molena

Service Request:R2510161

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2510161-001	8044 SB01 (1-2)	8/13/2025	1352
R2510161-002	8044 SB02 (3-4)	8/13/2025	1409
R2510161-003	8044 SB03 (5-6)	8/13/2025	1426

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R2510161
 ALS Environmental - Holland
 8044_Molena



ALS Group USA, Corp.

3352 128th Ave Holland Michigan 49424 United States
 T+1 616 399 6070 | F



High solutions.
 Right partner.

Subcontract Chain of Custody

SAMPLING STATE:

COC ID: HN2511418

Subcontract To:

Rochester - Environmental TEL: +1 585 288 5380
 1565 Jefferson Road, Building 300, Suite 360 FAX:
 Rochester New York 14623

Due Date: 08/25/2025

Analysis Report Format: ALS Standard – Level II

Electronic Data Deliverable:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	8044_Molena	A	EPA 8081B-3546-S (INT SUB)
Work Order	HN2511418			B	EPA 8082A-3546-S (INT SUB)
Company Name	Holland - Environmental	Bill To Company	Holland - Environmental	C	EPA 8151A-S (INT SUB)
Send Report To	Bill Carey	Inv Attn	Accounts Payable	D	EPA 8270E-TCL-3546-S (INT SUB)
Address	3352 128th Ave	Address	3352 128th Ave	E	
				F	
City/State/Zip	Holland Michigan 49424	City/State/Zip	Holland Michigan 49424	G	
Phone	+1 616 399 6070	Phone	+1 616 399 6070	H	
Fax		Fax		I	
Email Address	bill.carey@alsglobal.com			J	

ALS Sample ID	Client Sample ID	Matrix	Collection Date	Bottle	A	B	C	D	E	F	G	H	I	J
HN2511418-001	8044 SB01 (1-2)	Soil/Solid	08/13/2025 13:52	001-AD	x	x	x	x						
HN2511418-002	8044 SB02 (3-4)	Soil/Solid	08/13/2025 14:09	002-AD	x	x	x	x						
HN2511418-003	8044 SB03 (5-6)	Soil/Solid	08/13/2025 14:26	003-AD	x	x	x	x						

Relinquished by	Date Time	Received by	Date Time	Cooler ID's
Sampled by		rem nanmm	8/20/25 9:30	



Cooler Receipt and Preservation Check Form

R2510161

ALS Environmental - Holland
8044_Molena

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Project/Client _____ Folder Number _____

Cooler received on 8/20/25 by: RM

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <u>(N)</u>
2	Custody papers properly completed (ink, signed)?	<u>(Y)</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>(Y)</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>(Y)</u> N

5a	Did VOA vials have sig* bubbles?	Y N <u>(NA)</u>
5b	Sig* bubbles: Alk? Y N <u>(NA)</u> Sulfide? Y N <u>(NA)</u>	
6	Where did the bottles originate?	ALS/ROC <u>(CLIENT)</u>
7	Soil VOA received as: Bulk Encore 5035set	<u>(NA)</u>

8. Temperature Readings Date: 8/20/25 Time: 10:01 ID: IR#12 (IR#11) From: Temp Blank (Sample Bottle)

Temp (°C)	<u>4.2</u>	<u>4.5</u>	<u>5.5</u>				
Within 0-6°C?	<u>(Y)</u> N	<u>(Y)</u> N	<u>(Y)</u> N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: SMO by RM on 8/20 at 12:16

5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 8/20/25 Time: 15:32 by: MM

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? (YES) NO
- Did all bottle labels and tags agree with custody papers? (YES) NO
- Were correct containers used for the tests indicated? (YES) NO
- Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
- Were dissolved metals filtered in the field? YES NO (N/A)
- Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 068325-15R

Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: MM

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: ALS Environmental - US
Project: 8044_Molena

Service Request: R2510161

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
8270E	Soil	1-Methylnaphthalene
ALS SOP	Soil	Total Solids

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: ALS Environmental - US
Project: 8044_Molena/

Service Request: R2510161

Sample Name: 8044 SB01 (1-2)
Lab Code: R2510161-001
Sample Matrix: Soil

Date Collected: 08/13/25
Date Received: 08/20/25

Analysis Method	Extracted/Digested By	Analyzed By
8081B	JVANHEYNINGEN	AFELSER
8082A	JVANHEYNINGEN	AFELSER
8151A	JVANHEYNINGEN	AFELSER
8270E	JVANHEYNINGEN	AMOSSES
ALS SOP		CKUTZER

Sample Name: 8044 SB02 (3-4)
Lab Code: R2510161-002
Sample Matrix: Soil

Date Collected: 08/13/25
Date Received: 08/20/25

Analysis Method	Extracted/Digested By	Analyzed By
8081B	JVANHEYNINGEN	AFELSER
8082A	JVANHEYNINGEN	AFELSER
8151A	JVANHEYNINGEN	AFELSER
8270E	JVANHEYNINGEN	AMOSSES
ALS SOP		CKUTZER

Sample Name: 8044 SB03 (5-6)
Lab Code: R2510161-003
Sample Matrix: Soil

Date Collected: 08/13/25
Date Received: 08/20/25

Analysis Method	Extracted/Digested By	Analyzed By
8081B	JVANHEYNINGEN	AFELSER
8082A	JVANHEYNINGEN	AFELSER
8151A	JVANHEYNINGEN	AFELSER
8270E	JVANHEYNINGEN	AMOSSES
ALS SOP		CKUTZER



PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7 / 200.8	200.2
6010D	3005A/3010A
6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010D	3050B
6010D TCLP (1311) extract	3005A/3010A
6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

ALS Environmental—Rochester Laboratory

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: 08/13/25 13:52
Date Received: 08/20/25 09:30

Sample Name: 8044 SB01 (1-2)
Lab Code: R2510161-001

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	800 U	3600	800	10	08/26/25 00:35	8/22/25	
1-Methylnaphthalene	930 J	3600	660	10	08/26/25 00:35	8/22/25	
2-Methylnaphthalene	1300 U	3600	1300	10	08/26/25 00:35	8/22/25	
Acenaphthene	1200 J	3600	680	10	08/26/25 00:35	8/22/25	
Acenaphthylene	2100 J	3600	730	10	08/26/25 00:35	8/22/25	
Anthracene	4900	3600	600	10	08/26/25 00:35	8/22/25	
Benz(a)anthracene	11000	3600	540	10	08/26/25 00:35	8/22/25	
Benzo(a)pyrene	9900	3600	960	10	08/26/25 00:35	8/22/25	
Benzo(b)fluoranthene	11000	3600	600	10	08/26/25 00:35	8/22/25	
Benzo(g,h,i)perylene	5100	3600	830	10	08/26/25 00:35	8/22/25	
1,4-Dichlorobenzene	600 U	3600	600	10	08/26/25 00:35	8/22/25	
Benzo(k)fluoranthene	4700	3600	580	10	08/26/25 00:35	8/22/25	
Biphenyl	1100 U	3600	1100	10	08/26/25 00:35	8/22/25	
Chrysene	10000	3600	530	10	08/26/25 00:35	8/22/25	
1,4-Dioxane	350 U	730	350	10	08/26/25 00:35	8/22/25	
Dibenz(a,h)anthracene	1600 J	3600	780	10	08/26/25 00:35	8/22/25	
Dibenzofuran	1400 J	3600	660	10	08/26/25 00:35	8/22/25	
Fluoranthene	25000	3600	900	10	08/26/25 00:35	8/22/25	
Fluorene	3000 J	3600	670	10	08/26/25 00:35	8/22/25	
Indeno(1,2,3-cd)pyrene	6100	3600	1200	10	08/26/25 00:35	8/22/25	
Naphthalene	670 U	3600	670	10	08/26/25 00:35	8/22/25	
Phenanthrene	20000	3600	510	10	08/26/25 00:35	8/22/25	
Pyrene	20000	3600	600	10	08/26/25 00:35	8/22/25	
2,3,4,6-Tetrachlorophenol	1300 U	3600	1300	10	08/26/25 00:35	8/22/25	
2,4,5-Trichlorophenol	890 U	3600	890	10	08/26/25 00:35	8/22/25	
2,4,6-Trichlorophenol	800 U	3600	800	10	08/26/25 00:35	8/22/25	
2,4-Dichlorophenol	690 U	3600	690	10	08/26/25 00:35	8/22/25	
2,4-Dimethylphenol	650 U	3600	650	10	08/26/25 00:35	8/22/25	
2,4-Dinitrophenol	6100 U	18000	6100	10	08/26/25 00:35	8/22/25	
2,4-Dinitrotoluene	1400 U	3600	1400	10	08/26/25 00:35	8/22/25	
2,6-Dinitrotoluene	790 U	3600	790	10	08/26/25 00:35	8/22/25	
2-Chloronaphthalene	720 U	3600	720	10	08/26/25 00:35	8/22/25	
2-Chlorophenol	600 U	3600	600	10	08/26/25 00:35	8/22/25	
2-Methylphenol	750 U	3600	750	10	08/26/25 00:35	8/22/25	
2-Nitroaniline	850 U	18000	850	10	08/26/25 00:35	8/22/25	
2-Nitrophenol	830 U	3600	830	10	08/26/25 00:35	8/22/25	
3,3'-Dichlorobenzidine	1400 U	3600	1400	10	08/26/25 00:35	8/22/25	
3- and 4-Methylphenol Coelution	690 U	3600	690	10	08/26/25 00:35	8/22/25	
3-Nitroaniline	720 U	18000	720	10	08/26/25 00:35	8/22/25	
4,6-Dinitro-2-methylphenol	2100 U	18000	2100	10	08/26/25 00:35	8/22/25	
4-Bromophenyl Phenyl Ether	950 U	3600	950	10	08/26/25 00:35	8/22/25	
4-Chloro-3-methylphenol	730 U	3600	730	10	08/26/25 00:35	8/22/25	
4-Chloroaniline	1400 U	3600	1400	10	08/26/25 00:35	8/22/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: 08/13/25 13:52
Date Received: 08/20/25 09:30

Sample Name: 8044 SB01 (1-2)
Lab Code: R2510161-001

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	770 U	3600	770	10	08/26/25 00:35	8/22/25	
4-Nitroaniline	780 U	18000	780	10	08/26/25 00:35	8/22/25	
4-Nitrophenol	1900 U	18000	1900	10	08/26/25 00:35	8/22/25	
Acetophenone	1100 U	3600	1100	10	08/26/25 00:35	8/22/25	
Atrazine	1100 U	3600	1100	10	08/26/25 00:35	8/22/25	
Benzaldehyde	870 U	18000	870	10	08/26/25 00:35	8/22/25	
Benzoic Acid	5700 U	18000	5700	10	08/26/25 00:35	8/22/25	
Bis(1-chloroisopropyl) Ether	740 U	3600	740	10	08/26/25 00:35	8/22/25	
Bis(2-chloroethoxy)methane	880 U	3600	880	10	08/26/25 00:35	8/22/25	
Bis(2-chloroethyl) Ether	710 U	3600	710	10	08/26/25 00:35	8/22/25	
Bis(2-ethylhexyl) Phthalate	660 U	5400	660	10	08/26/25 00:35	8/22/25	
Butyl Benzyl Phthalate	1100 U	3600	1100	10	08/26/25 00:35	8/22/25	
Caprolactam	790 U	3600	790	10	08/26/25 00:35	8/22/25	
Carbazole	1100 J	3600	580	10	08/26/25 00:35	8/22/25	
Di-n-butyl Phthalate	580 U	3600	580	10	08/26/25 00:35	8/22/25	
Di-n-octyl Phthalate	1300 U	3600	1300	10	08/26/25 00:35	8/22/25	
Diethyl Phthalate	640 U	3600	640	10	08/26/25 00:35	8/22/25	
Dimethyl Phthalate	680 U	3600	680	10	08/26/25 00:35	8/22/25	
Hexachlorobenzene	860 U	3600	860	10	08/26/25 00:35	8/22/25	
Hexachlorobutadiene	1300 U	3600	1300	10	08/26/25 00:35	8/22/25	
Hexachlorocyclopentadiene	1200 U	3600	1200	10	08/26/25 00:35	8/22/25	
Hexachloroethane	670 U	3600	670	10	08/26/25 00:35	8/22/25	
Isophorone	750 U	3600	750	10	08/26/25 00:35	8/22/25	
N-Nitrosodi-n-propylamine	1100 U	3600	1100	10	08/26/25 00:35	8/22/25	
N-Nitrosodiphenylamine	2300 U	3600	2300	10	08/26/25 00:35	8/22/25	
Nitrobenzene	640 U	3600	640	10	08/26/25 00:35	8/22/25	
Pentachlorophenol (PCP)	3600 U	18000	3600	10	08/26/25 00:35	8/22/25	
Phenol	720 U	3600	720	10	08/26/25 00:35	8/22/25	
Pyridine	490 U	18000	490	10	08/26/25 00:35	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	70	18 - 104	08/26/25 00:35	
Nitrobenzene-d5	69	12 - 98	08/26/25 00:35	
p-Terphenyl-d14	94	26 - 134	08/26/25 00:35	

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Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: 08/13/25 14:09
Date Received: 08/20/25 09:30

Sample Name: 8044 SB02 (3-4)
Lab Code: R2510161-002

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	260 U	1100	260	1	08/26/25 00:59	8/22/25	
1-Methylnaphthalene	210 U	1100	210	1	08/26/25 00:59	8/22/25	
2-Methylnaphthalene	410 U	1100	410	1	08/26/25 00:59	8/22/25	
Acenaphthene	220 U	1100	220	1	08/26/25 00:59	8/22/25	
Acenaphthylene	240 U	1100	240	1	08/26/25 00:59	8/22/25	
Anthracene	360 J	1100	200	1	08/26/25 00:59	8/22/25	
Benz(a)anthracene	840 J	1100	170	1	08/26/25 00:59	8/22/25	
Benzo(a)pyrene	940 J	1100	310	1	08/26/25 00:59	8/22/25	
Benzo(b)fluoranthene	1000 J	1100	190	1	08/26/25 00:59	8/22/25	
Benzo(g,h,i)perylene	550 J	1100	270	1	08/26/25 00:59	8/22/25	
1,4-Dichlorobenzene	190 U	1100	190	1	08/26/25 00:59	8/22/25	
Benzo(k)fluoranthene	410 J	1100	190	1	08/26/25 00:59	8/22/25	
Biphenyl	340 U	1100	340	1	08/26/25 00:59	8/22/25	
Chrysene	830 J	1100	170	1	08/26/25 00:59	8/22/25	
1,4-Dioxane	120 U	230	120	1	08/26/25 00:59	8/22/25	
Dibenz(a,h)anthracene	250 U	1100	250	1	08/26/25 00:59	8/22/25	
Dibenzofuran	210 U	1100	210	1	08/26/25 00:59	8/22/25	
Fluoranthene	2000	1100	290	1	08/26/25 00:59	8/22/25	
Fluorene	220 U	1100	220	1	08/26/25 00:59	8/22/25	
Indeno(1,2,3-cd)pyrene	610 J	1100	370	1	08/26/25 00:59	8/22/25	
Naphthalene	220 U	1100	220	1	08/26/25 00:59	8/22/25	
Phenanthrene	1200	1100	170	1	08/26/25 00:59	8/22/25	
Pyrene	1600	1100	190	1	08/26/25 00:59	8/22/25	
2,3,4,6-Tetrachlorophenol	400 U	1100	400	1	08/26/25 00:59	8/22/25	
2,4,5-Trichlorophenol	290 U	1100	290	1	08/26/25 00:59	8/22/25	
2,4,6-Trichlorophenol	260 U	1100	260	1	08/26/25 00:59	8/22/25	
2,4-Dichlorophenol	220 U	1100	220	1	08/26/25 00:59	8/22/25	
2,4-Dimethylphenol	210 U	1100	210	1	08/26/25 00:59	8/22/25	
2,4-Dinitrophenol	2000 U	5900	2000	1	08/26/25 00:59	8/22/25	
2,4-Dinitrotoluene	440 U	1100	440	1	08/26/25 00:59	8/22/25	
2,6-Dinitrotoluene	250 U	1100	250	1	08/26/25 00:59	8/22/25	
2-Chloronaphthalene	230 U	1100	230	1	08/26/25 00:59	8/22/25	
2-Chlorophenol	190 U	1100	190	1	08/26/25 00:59	8/22/25	
2-Methylphenol	240 U	1100	240	1	08/26/25 00:59	8/22/25	
2-Nitroaniline	270 U	5900	270	1	08/26/25 00:59	8/22/25	
2-Nitrophenol	270 U	1100	270	1	08/26/25 00:59	8/22/25	
3,3'-Dichlorobenzidine	420 U	1100	420	1	08/26/25 00:59	8/22/25	
3- and 4-Methylphenol Coelution	220 U	1100	220	1	08/26/25 00:59	8/22/25	
3-Nitroaniline	230 U	5900	230	1	08/26/25 00:59	8/22/25	
4,6-Dinitro-2-methylphenol	650 U	5900	650	1	08/26/25 00:59	8/22/25	
4-Bromophenyl Phenyl Ether	300 U	1100	300	1	08/26/25 00:59	8/22/25	
4-Chloro-3-methylphenol	230 U	1100	230	1	08/26/25 00:59	8/22/25	
4-Chloroaniline	420 U	1100	420	1	08/26/25 00:59	8/22/25	

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Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: 08/13/25 14:09
Date Received: 08/20/25 09:30

Sample Name: 8044 SB02 (3-4)
Lab Code: R2510161-002

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	250 U	1100	250	1	08/26/25 00:59	8/22/25	
4-Nitroaniline	250 U	5900	250	1	08/26/25 00:59	8/22/25	
4-Nitrophenol	590 U	5900	590	1	08/26/25 00:59	8/22/25	
Acetophenone	330 U	1100	330	1	08/26/25 00:59	8/22/25	
Atrazine	340 U	1100	340	1	08/26/25 00:59	8/22/25	
Benzaldehyde	280 U	5900	280	1	08/26/25 00:59	8/22/25	
Benzoic Acid	1800 U	5900	1800	1	08/26/25 00:59	8/22/25	
Bis(1-chloroisopropyl) Ether	240 U	1100	240	1	08/26/25 00:59	8/22/25	
Bis(2-chloroethoxy)methane	280 U	1100	280	1	08/26/25 00:59	8/22/25	
Bis(2-chloroethyl) Ether	230 U	1100	230	1	08/26/25 00:59	8/22/25	
Bis(2-ethylhexyl) Phthalate	210 U	1700	210	1	08/26/25 00:59	8/22/25	
Butyl Benzyl Phthalate	340 U	1100	340	1	08/26/25 00:59	8/22/25	
Caprolactam	260 U	1100	260	1	08/26/25 00:59	8/22/25	
Carbazole	190 U	1100	190	1	08/26/25 00:59	8/22/25	
Di-n-butyl Phthalate	190 U	1100	190	1	08/26/25 00:59	8/22/25	
Di-n-octyl Phthalate	400 U	1100	400	1	08/26/25 00:59	8/22/25	
Diethyl Phthalate	210 U	1100	210	1	08/26/25 00:59	8/22/25	
Dimethyl Phthalate	220 U	1100	220	1	08/26/25 00:59	8/22/25	
Hexachlorobenzene	280 U	1100	280	1	08/26/25 00:59	8/22/25	
Hexachlorobutadiene	410 U	1100	410	1	08/26/25 00:59	8/22/25	
Hexachlorocyclopentadiene	370 U	1100	370	1	08/26/25 00:59	8/22/25	
Hexachloroethane	220 U	1100	220	1	08/26/25 00:59	8/22/25	
Isophorone	240 U	1100	240	1	08/26/25 00:59	8/22/25	
N-Nitrosodi-n-propylamine	350 U	1100	350	1	08/26/25 00:59	8/22/25	
N-Nitrosodiphenylamine	720 U	1100	720	1	08/26/25 00:59	8/22/25	
Nitrobenzene	210 U	1100	210	1	08/26/25 00:59	8/22/25	
Pentachlorophenol (PCP)	1200 U	5900	1200	1	08/26/25 00:59	8/22/25	
Phenol	230 U	1100	230	1	08/26/25 00:59	8/22/25	
Pyridine	160 U	5900	160	1	08/26/25 00:59	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	66	18 - 104	08/26/25 00:59	
Nitrobenzene-d5	63	12 - 98	08/26/25 00:59	
p-Terphenyl-d14	80	26 - 134	08/26/25 00:59	

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Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: 08/13/25 14:26
Date Received: 08/20/25 09:30

Sample Name: 8044 SB03 (5-6)
Lab Code: R2510161-003

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1-Methylnaphthalene	210 U	1100	210	1	08/26/25 01:23	8/22/25	
1,2,4,5-Tetrachlorobenzene	260 U	1100	260	1	08/26/25 01:23	8/22/25	
2-Methylnaphthalene	410 U	1100	410	1	08/26/25 01:23	8/22/25	
Acenaphthene	220 U	1100	220	1	08/26/25 01:23	8/22/25	
Acenaphthylene	230 U	1100	230	1	08/26/25 01:23	8/22/25	
Anthracene	190 U	1100	190	1	08/26/25 01:23	8/22/25	
Benz(a)anthracene	170 U	1100	170	1	08/26/25 01:23	8/22/25	
Benzo(a)pyrene	310 U	1100	310	1	08/26/25 01:23	8/22/25	
Benzo(b)fluoranthene	190 U	1100	190	1	08/26/25 01:23	8/22/25	
Benzo(g,h,i)perylene	270 U	1100	270	1	08/26/25 01:23	8/22/25	
Benzo(k)fluoranthene	190 U	1100	190	1	08/26/25 01:23	8/22/25	
1,4-Dichlorobenzene	190 U	1100	190	1	08/26/25 01:23	8/22/25	
Biphenyl	340 U	1100	340	1	08/26/25 01:23	8/22/25	
Chrysene	170 U	1100	170	1	08/26/25 01:23	8/22/25	
Dibenz(a,h)anthracene	250 U	1100	250	1	08/26/25 01:23	8/22/25	
1,4-Dioxane	120 U	230	120	1	08/26/25 01:23	8/22/25	
Dibenzofuran	210 U	1100	210	1	08/26/25 01:23	8/22/25	
Fluoranthene	290 U	1100	290	1	08/26/25 01:23	8/22/25	
Fluorene	220 U	1100	220	1	08/26/25 01:23	8/22/25	
Indeno(1,2,3-cd)pyrene	370 U	1100	370	1	08/26/25 01:23	8/22/25	
Naphthalene	220 U	1100	220	1	08/26/25 01:23	8/22/25	
Phenanthrene	170 U	1100	170	1	08/26/25 01:23	8/22/25	
Pyrene	190 U	1100	190	1	08/26/25 01:23	8/22/25	
2,3,4,6-Tetrachlorophenol	400 U	1100	400	1	08/26/25 01:23	8/22/25	
2,4,5-Trichlorophenol	280 U	1100	280	1	08/26/25 01:23	8/22/25	
2,4,6-Trichlorophenol	260 U	1100	260	1	08/26/25 01:23	8/22/25	
2,4-Dichlorophenol	220 U	1100	220	1	08/26/25 01:23	8/22/25	
2,4-Dimethylphenol	210 U	1100	210	1	08/26/25 01:23	8/22/25	
2,4-Dinitrophenol	2000 U	5900	2000	1	08/26/25 01:23	8/22/25	
2,4-Dinitrotoluene	440 U	1100	440	1	08/26/25 01:23	8/22/25	
2,6-Dinitrotoluene	250 U	1100	250	1	08/26/25 01:23	8/22/25	
2-Chloronaphthalene	230 U	1100	230	1	08/26/25 01:23	8/22/25	
2-Chlorophenol	190 U	1100	190	1	08/26/25 01:23	8/22/25	
2-Methylphenol	240 U	1100	240	1	08/26/25 01:23	8/22/25	
2-Nitroaniline	270 U	5900	270	1	08/26/25 01:23	8/22/25	
2-Nitrophenol	270 U	1100	270	1	08/26/25 01:23	8/22/25	
3,3'-Dichlorobenzidine	420 U	1100	420	1	08/26/25 01:23	8/22/25	
3- and 4-Methylphenol Coelution	220 U	1100	220	1	08/26/25 01:23	8/22/25	
3-Nitroaniline	230 U	5900	230	1	08/26/25 01:23	8/22/25	
4,6-Dinitro-2-methylphenol	650 U	5900	650	1	08/26/25 01:23	8/22/25	
4-Bromophenyl Phenyl Ether	300 U	1100	300	1	08/26/25 01:23	8/22/25	
4-Chloro-3-methylphenol	230 U	1100	230	1	08/26/25 01:23	8/22/25	
4-Chloroaniline	420 U	1100	420	1	08/26/25 01:23	8/22/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: 08/13/25 14:26
Date Received: 08/20/25 09:30

Sample Name: 8044 SB03 (5-6)
Lab Code: R2510161-003

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	250 U	1100	250	1	08/26/25 01:23	8/22/25	
4-Nitroaniline	250 U	5900	250	1	08/26/25 01:23	8/22/25	
4-Nitrophenol	590 U	5900	590	1	08/26/25 01:23	8/22/25	
Acetophenone	330 U	1100	330	1	08/26/25 01:23	8/22/25	
Atrazine	340 U	1100	340	1	08/26/25 01:23	8/22/25	
Benzaldehyde	280 U	5900	280	1	08/26/25 01:23	8/22/25	
Benzoic Acid	1800 U	5900	1800	1	08/26/25 01:23	8/22/25	
Bis(1-chloroisopropyl) Ether	240 U	1100	240	1	08/26/25 01:23	8/22/25	
Bis(2-chloroethoxy)methane	280 U	1100	280	1	08/26/25 01:23	8/22/25	
Bis(2-chloroethyl) Ether	230 U	1100	230	1	08/26/25 01:23	8/22/25	
Bis(2-ethylhexyl) Phthalate	210 U	1700	210	1	08/26/25 01:23	8/22/25	
Butyl Benzyl Phthalate	340 U	1100	340	1	08/26/25 01:23	8/22/25	
Caprolactam	250 U	1100	250	1	08/26/25 01:23	8/22/25	
Carbazole	190 U	1100	190	1	08/26/25 01:23	8/22/25	
Di-n-butyl Phthalate	190 U	1100	190	1	08/26/25 01:23	8/22/25	
Di-n-octyl Phthalate	400 U	1100	400	1	08/26/25 01:23	8/22/25	
Diethyl Phthalate	210 U	1100	210	1	08/26/25 01:23	8/22/25	
Dimethyl Phthalate	220 U	1100	220	1	08/26/25 01:23	8/22/25	
Hexachlorobenzene	280 U	1100	280	1	08/26/25 01:23	8/22/25	
Hexachlorobutadiene	410 U	1100	410	1	08/26/25 01:23	8/22/25	
Hexachlorocyclopentadiene	370 U	1100	370	1	08/26/25 01:23	8/22/25	
Hexachloroethane	220 U	1100	220	1	08/26/25 01:23	8/22/25	
Isophorone	240 U	1100	240	1	08/26/25 01:23	8/22/25	
N-Nitrosodi-n-propylamine	350 U	1100	350	1	08/26/25 01:23	8/22/25	
N-Nitrosodiphenylamine	710 U	1100	710	1	08/26/25 01:23	8/22/25	
Nitrobenzene	210 U	1100	210	1	08/26/25 01:23	8/22/25	
Pentachlorophenol (PCP)	1200 U	5900	1200	1	08/26/25 01:23	8/22/25	
Phenol	230 U	1100	230	1	08/26/25 01:23	8/22/25	
Pyridine	160 U	5900	160	1	08/26/25 01:23	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	70	18 - 104	08/26/25 01:23	
Nitrobenzene-d5	64	12 - 98	08/26/25 01:23	
p-Terphenyl-d14	87	26 - 134	08/26/25 01:23	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: 08/13/25 13:52
Date Received: 08/20/25 09:30

Sample Name: 8044 SB01 (1-2)
Lab Code: R2510161-001

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	8.3 P	1.8	0.92	1	08/27/25 19:11	8/22/25	
4,4'-DDE	53	1.8	0.92	1	08/27/25 19:11	8/22/25	
4,4'-DDT	55	1.8	0.92	1	08/27/25 19:11	8/22/25	
Aldrin	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
Chlordane	4.6 U	9.0	4.6	1	08/27/25 19:11	8/22/25	
Dieldrin	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
Endosulfan I	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
Endosulfan II	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
Endosulfan Sulfate	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
Endrin	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
Endrin Aldehyde	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
Endrin Ketone	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
Heptachlor	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
Heptachlor Epoxide	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
Methoxychlor	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
Toxaphene	21 U	36	21	1	08/27/25 19:11	8/22/25	
alpha-BHC	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
alpha-Chlordane	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
beta-BHC	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
delta-BHC	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
gamma-BHC (Lindane)	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	
gamma-Chlordane	0.92 U	1.8	0.92	1	08/27/25 19:11	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	101	10 - 159	08/27/25 19:11	
Tetrachloro-m-xylene	57	10 - 132	08/27/25 19:11	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: 08/13/25 14:09
Date Received: 08/20/25 09:30

Sample Name: 8044 SB02 (3-4)
Lab Code: R2510161-002

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	22	5.8	2.9	1	08/27/25 19:28	8/22/25	
4,4'-DDE	79	5.8	2.9	1	08/27/25 19:28	8/22/25	
4,4'-DDT	33	5.8	2.9	1	08/27/25 19:28	8/22/25	
Aldrin	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
Chlordane	15 U	28	15	1	08/27/25 19:28	8/22/25	
Dieldrin	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
Endosulfan I	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
Endosulfan II	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
Endosulfan Sulfate	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
Endrin	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
Endrin Aldehyde	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
Endrin Ketone	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
Heptachlor	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
Heptachlor Epoxide	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
Methoxychlor	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
Toxaphene	65 U	110	65	1	08/27/25 19:28	8/22/25	
alpha-BHC	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
alpha-Chlordane	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
beta-BHC	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
delta-BHC	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
gamma-BHC (Lindane)	2.9 U	5.8	2.9	1	08/27/25 19:28	8/22/25	
gamma-Chlordane	4.2 J	5.8	2.9	1	08/27/25 19:28	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	65	10 - 159	08/27/25 19:28	
Tetrachloro-m-xylene	60	10 - 132	08/27/25 19:28	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: 08/13/25 14:26
Date Received: 08/20/25 09:30

Sample Name: 8044 SB03 (5-6)
Lab Code: R2510161-003

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
4,4'-DDE	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
4,4'-DDT	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
Aldrin	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
Chlordane	15 U	30	15	1	08/27/25 19:46	8/22/25	
Dieldrin	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
Endosulfan I	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
Endosulfan II	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
Endosulfan Sulfate	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
Endrin	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
Endrin Aldehyde	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
Endrin Ketone	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
Heptachlor	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
Heptachlor Epoxide	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
Methoxychlor	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
Toxaphene	68 U	120	68	1	08/27/25 19:46	8/22/25	
alpha-BHC	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
alpha-Chlordane	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
beta-BHC	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
delta-BHC	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
gamma-BHC (Lindane)	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	
gamma-Chlordane	3.0 U	6.1	3.0	1	08/27/25 19:46	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	79	10 - 159	08/27/25 19:46	
Tetrachloro-m-xylene	55	10 - 132	08/27/25 19:46	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: 08/13/25 13:52
Date Received: 08/20/25 09:30

Sample Name: 8044 SB01 (1-2)
Lab Code: R2510161-001

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	19 U	36	19	1	08/27/25 00:00	8/22/25	
Aroclor 1221	29 U	73	29	1	08/27/25 00:00	8/22/25	
Aroclor 1232	21 U	36	21	1	08/27/25 00:00	8/22/25	
Aroclor 1242	19 U	36	19	1	08/27/25 00:00	8/22/25	
Aroclor 1248	20 U	36	20	1	08/27/25 00:00	8/22/25	
Aroclor 1254	19 U	36	19	1	08/27/25 00:00	8/22/25	
Aroclor 1260	19 U	36	19	1	08/27/25 00:00	8/22/25	
Aroclor 1262	19 U	36	19	1	08/27/25 00:00	8/22/25	
Aroclor 1268	19 U	36	19	1	08/27/25 00:00	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	180 *	10 - 138	08/27/25 00:00	*
Tetrachloro-m-xylene	66	11 - 122	08/27/25 00:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: 08/13/25 14:09
Date Received: 08/20/25 09:30

Sample Name: 8044 SB02 (3-4)
Lab Code: R2510161-002

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	58 U	110	58	1	08/27/25 00:14	8/22/25	
Aroclor 1221	89 U	230	89	1	08/27/25 00:14	8/22/25	
Aroclor 1232	65 U	110	65	1	08/27/25 00:14	8/22/25	
Aroclor 1242	58 U	110	58	1	08/27/25 00:14	8/22/25	
Aroclor 1248	62 U	110	62	1	08/27/25 00:14	8/22/25	
Aroclor 1254	58 U	110	58	1	08/27/25 00:14	8/22/25	
Aroclor 1260	58 U	110	58	1	08/27/25 00:14	8/22/25	
Aroclor 1262	58 U	110	58	1	08/27/25 00:14	8/22/25	
Aroclor 1268	58 U	110	58	1	08/27/25 00:14	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	80	10 - 138	08/27/25 00:14	
Tetrachloro-m-xylene	69	11 - 122	08/27/25 00:14	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: 08/13/25 14:26
Date Received: 08/20/25 09:30

Sample Name: 8044 SB03 (5-6)
Lab Code: R2510161-003

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	61 U	120	61	1	08/27/25 00:27	8/22/25	
Aroclor 1221	93 U	240	93	1	08/27/25 00:27	8/22/25	
Aroclor 1232	68 U	120	68	1	08/27/25 00:27	8/22/25	
Aroclor 1242	61 U	120	61	1	08/27/25 00:27	8/22/25	
Aroclor 1248	65 U	120	65	1	08/27/25 00:27	8/22/25	
Aroclor 1254	61 U	120	61	1	08/27/25 00:27	8/22/25	
Aroclor 1260	61 U	120	61	1	08/27/25 00:27	8/22/25	
Aroclor 1262	61 U	120	61	1	08/27/25 00:27	8/22/25	
Aroclor 1268	61 U	120	61	1	08/27/25 00:27	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	84	10 - 138	08/27/25 00:27	
Tetrachloro-m-xylene	65	11 - 122	08/27/25 00:27	

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Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: 08/13/25 13:52
Date Received: 08/20/25 09:30

Sample Name: 8044 SB01 (1-2)
Lab Code: R2510161-001

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	5.5 U	11	5.5	1	08/28/25 20:42	8/26/25	
2,4,5-TP	4.9 U	11	4.9	1	08/28/25 20:42	8/26/25	
2,4-D	7.1 U	11	7.1	1	08/28/25 20:42	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	46	10 - 151	08/28/25 20:42	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: 08/13/25 14:09
Date Received: 08/20/25 09:30

Sample Name: 8044 SB02 (3-4)
Lab Code: R2510161-002

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	5.8 U	12	5.8	1	08/28/25 21:00	8/26/25	
2,4,5-TP	5.2 U	12	5.2	1	08/28/25 21:00	8/26/25	
2,4-D	7.6 U	12	7.6	1	08/28/25 21:00	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	44	10 - 151	08/28/25 21:00	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: 08/13/25 14:26
Date Received: 08/20/25 09:30

Sample Name: 8044 SB03 (5-6)
Lab Code: R2510161-003

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	6.1 U	12	6.1	1	08/28/25 21:18	8/26/25	
2,4,5-TP	5.5 U	12	5.5	1	08/28/25 21:18	8/26/25	
2,4-D	7.9 U	12	7.9	1	08/28/25 21:18	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	43	10 - 151	08/28/25 21:18	



General Chemistry

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Sample Name: 8044 SB01 (1-2)
Lab Code: R2510161-001

Service Request: R2510161
Date Collected: 08/13/25 13:52
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	91.2	Percent	-	-	1	08/29/25 10:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Sample Name: 8044 SB02 (3-4)
Lab Code: R2510161-002

Service Request: R2510161
Date Collected: 08/13/25 14:09
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	86.6	Percent	-	-	1	08/29/25 10:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Sample Name: 8044 SB03 (5-6)
Lab Code: R2510161-003

Service Request: R2510161
Date Collected: 08/13/25 14:26
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	82.8	Percent	-	-	1	08/29/25 10:00	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Semivolatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161

SURROGATE RECOVERY SUMMARY

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Extraction Method: EPA 3546

Sample Name	Lab Code	2-Fluorobiphenyl	Nitrobenzene-d5	p-Terphenyl-d14
		18 - 104	12 - 98	26 - 134
8044 SB01 (1-2)	R2510161-001	70	69	94
8044 SB02 (3-4)	R2510161-002	66	63	80
8044 SB03 (5-6)	R2510161-003	70	64	87
Method Blank	RQ2511156-01	64	58	85
Lab Control Sample	RQ2511156-02	68	59	85
Duplicate Lab Control Sample	RQ2511156-03	73	63	91

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511156-01

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	74 U	330	74	1	08/25/25 19:22	8/22/25	
1-Methylnaphthalene	61 U	330	61	1	08/25/25 19:22	8/22/25	
2-Methylnaphthalene	120 U	330	120	1	08/25/25 19:22	8/22/25	
Acenaphthene	63 U	330	63	1	08/25/25 19:22	8/22/25	
Acenaphthylene	67 U	330	67	1	08/25/25 19:22	8/22/25	
Anthracene	55 U	330	55	1	08/25/25 19:22	8/22/25	
Benz(a)anthracene	49 U	330	49	1	08/25/25 19:22	8/22/25	
Benzo(a)pyrene	88 U	330	88	1	08/25/25 19:22	8/22/25	
Benzo(b)fluoranthene	55 U	330	55	1	08/25/25 19:22	8/22/25	
Benzo(g,h,i)perylene	76 U	330	76	1	08/25/25 19:22	8/22/25	
1,4-Dichlorobenzene	55 U	330	55	1	08/25/25 19:22	8/22/25	
Benzo(k)fluoranthene	54 U	330	54	1	08/25/25 19:22	8/22/25	
Biphenyl	98 U	330	98	1	08/25/25 19:22	8/22/25	
Chrysene	49 U	330	49	1	08/25/25 19:22	8/22/25	
1,4-Dioxane	32 U	66	32	1	08/25/25 19:22	8/22/25	
Dibenz(a,h)anthracene	72 U	330	72	1	08/25/25 19:22	8/22/25	
Dibenzofuran	60 U	330	60	1	08/25/25 19:22	8/22/25	
Fluoranthene	83 U	330	83	1	08/25/25 19:22	8/22/25	
Fluorene	62 U	330	62	1	08/25/25 19:22	8/22/25	
Indeno(1,2,3-cd)pyrene	110 U	330	110	1	08/25/25 19:22	8/22/25	
Naphthalene	62 U	330	62	1	08/25/25 19:22	8/22/25	
Phenanthrene	47 U	330	47	1	08/25/25 19:22	8/22/25	
Pyrene	55 U	330	55	1	08/25/25 19:22	8/22/25	
2,3,4,6-Tetrachlorophenol	120 U	330	120	1	08/25/25 19:22	8/22/25	
2,4,5-Trichlorophenol	82 U	330	82	1	08/25/25 19:22	8/22/25	
2,4,6-Trichlorophenol	74 U	330	74	1	08/25/25 19:22	8/22/25	
2,4-Dichlorophenol	64 U	330	64	1	08/25/25 19:22	8/22/25	
2,4-Dimethylphenol	59 U	330	59	1	08/25/25 19:22	8/22/25	
2,4-Dinitrophenol	560 U	1700	560	1	08/25/25 19:22	8/22/25	
2,4-Dinitrotoluene	130 U	330	130	1	08/25/25 19:22	8/22/25	
2,6-Dinitrotoluene	72 U	330	72	1	08/25/25 19:22	8/22/25	
2-Chloronaphthalene	66 U	330	66	1	08/25/25 19:22	8/22/25	
2-Chlorophenol	55 U	330	55	1	08/25/25 19:22	8/22/25	
2-Methylphenol	69 U	330	69	1	08/25/25 19:22	8/22/25	
2-Nitroaniline	78 U	1700	78	1	08/25/25 19:22	8/22/25	
2-Nitrophenol	77 U	330	77	1	08/25/25 19:22	8/22/25	
3,3'-Dichlorobenzidine	120 U	330	120	1	08/25/25 19:22	8/22/25	
3- and 4-Methylphenol Coelution	63 U	330	63	1	08/25/25 19:22	8/22/25	
3-Nitroaniline	67 U	1700	67	1	08/25/25 19:22	8/22/25	
4,6-Dinitro-2-methylphenol	190 U	1700	190	1	08/25/25 19:22	8/22/25	
4-Bromophenyl Phenyl Ether	87 U	330	87	1	08/25/25 19:22	8/22/25	
4-Chloro-3-methylphenol	67 U	330	67	1	08/25/25 19:22	8/22/25	
4-Chloroaniline	120 U	330	120	1	08/25/25 19:22	8/22/25	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511156-01

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	71 U	330	71	1	08/25/25 19:22	8/22/25	
4-Nitroaniline	71 U	1700	71	1	08/25/25 19:22	8/22/25	
4-Nitrophenol	170 U	1700	170	1	08/25/25 19:22	8/22/25	
Acetophenone	95 U	330	95	1	08/25/25 19:22	8/22/25	
Atrazine	98 U	330	98	1	08/25/25 19:22	8/22/25	
Benzaldehyde	80 U	1700	80	1	08/25/25 19:22	8/22/25	
Benzoic Acid	520 U	1700	520	1	08/25/25 19:22	8/22/25	
Bis(1-chloroisopropyl) Ether	68 U	330	68	1	08/25/25 19:22	8/22/25	
Bis(2-chloroethoxy)methane	81 U	330	81	1	08/25/25 19:22	8/22/25	
Bis(2-chloroethyl) Ether	65 U	330	65	1	08/25/25 19:22	8/22/25	
Bis(2-ethylhexyl) Phthalate	61 U	500	61	1	08/25/25 19:22	8/22/25	
Butyl Benzyl Phthalate	96 U	330	96	1	08/25/25 19:22	8/22/25	
Caprolactam	73 U	330	73	1	08/25/25 19:22	8/22/25	
Carbazole	54 U	330	54	1	08/25/25 19:22	8/22/25	
Di-n-butyl Phthalate	54 U	330	54	1	08/25/25 19:22	8/22/25	
Di-n-octyl Phthalate	120 U	330	120	1	08/25/25 19:22	8/22/25	
Diethyl Phthalate	59 U	330	59	1	08/25/25 19:22	8/22/25	
Dimethyl Phthalate	63 U	330	63	1	08/25/25 19:22	8/22/25	
Hexachlorobenzene	79 U	330	79	1	08/25/25 19:22	8/22/25	
Hexachlorobutadiene	120 U	330	120	1	08/25/25 19:22	8/22/25	
Hexachlorocyclopentadiene	110 U	330	110	1	08/25/25 19:22	8/22/25	
Hexachloroethane	62 U	330	62	1	08/25/25 19:22	8/22/25	
Isophorone	69 U	330	69	1	08/25/25 19:22	8/22/25	
N-Nitrosodi-n-propylamine	110 U	330	110	1	08/25/25 19:22	8/22/25	
N-Nitrosodiphenylamine	210 U	330	210	1	08/25/25 19:22	8/22/25	
Nitrobenzene	59 U	330	59	1	08/25/25 19:22	8/22/25	
Pentachlorophenol (PCP)	330 U	1700	330	1	08/25/25 19:22	8/22/25	
Phenol	67 U	330	67	1	08/25/25 19:22	8/22/25	
Pyridine	45 U	1700	45	1	08/25/25 19:22	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	64	18 - 104	08/25/25 19:22	
Nitrobenzene-d5	58	12 - 98	08/25/25 19:22	
p-Terphenyl-d14	85	26 - 134	08/25/25 19:22	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Analyzed: 08/25/25

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511156-02					Duplicate Lab Control Sample RQ2511156-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	8270E	1980	3330	59	2100	3320	63	29-100	6	30
1,2,4,5-Tetrachlorobenzene	8270E	2100	3330	63	2210	3320	66	20-126	5	30
2-Methylnaphthalene	8270E	1870	3330	56	2000	3320	60	29-99	7	30
Acenaphthene	8270E	2300	3330	69	2430	3320	73	41-110	6	30
Acenaphthylene	8270E	2580	3330	77	2700	3320	81	44-122	5	30
Anthracene	8270E	2420	3330	73	2580	3320	78	41-123	6	30
Benz(a)anthracene	8270E	2510	3330	75	2740	3320	83	44-116	9	30
Benzo(a)pyrene	8270E	2820	3330	85	3030	3320	91	56-146	7	30
Benzo(b)fluoranthene	8270E	2390	3330	72	2530	3320	76	47-120	6	30
Benzo(g,h,i)perylene	8270E	2360	3330	71	2530	3320	76	41-129	7	30
Benzo(k)fluoranthene	8270E	2560	3330	77	2770	3320	83	49-124	8	30
1,4-Dichlorobenzene	8270E	1880	3330	56	2060	3320	62	16-83	9	30
Biphenyl	8270E	2180	3330	65	2300	3320	69	24-112	6	30
Chrysene	8270E	2560	3330	77	2770	3320	84	44-119	8	30
1,4-Dioxane	8270E	1390	3330	42	1490	3320	45	10-58	7	30
Dibenz(a,h)anthracene	8270E	2490	3330	75	2700	3320	81	18-146	8	30
Dibenzofuran	8270E	2380	3330	72	2520	3320	76	43-113	6	30
Fluoranthene	8270E	2550	3330	77	2680	3320	81	39-128	5	30
Fluorene	8270E	2400	3330	72	2520	3320	76	40-117	5	30
Indeno(1,2,3-cd)pyrene	8270E	2640	3330	79	2810	3320	85	43-129	6	30
Naphthalene	8270E	1900	3330	57	2010	3320	60	31-93	5	30
Phenanthrene	8270E	2240	3330	67	2380	3320	72	39-120	6	30
Pyrene	8270E	2440	3330	73	2620	3320	79	45-125	7	30
2,3,4,6-Tetrachlorophenol	8270E	2720	3330	82	2960	3320	89	42-117	8	30
2,4,5-Trichlorophenol	8270E	2510	3330	75	2650	3320	80	40-114	5	30
2,4,6-Trichlorophenol	8270E	2390	3330	72	2550	3320	77	33-108	6	30
2,4-Dichlorophenol	8270E	2140	3330	64	2290	3320	69	30-103	7	30
2,4-Dimethylphenol	8270E	2110	3330	63	2170	3320	65	32-100	3	30
2,4-Dinitrophenol	8270E	1800	3330	54	1930	3320	58	10-97	7	30
2,4-Dinitrotoluene	8270E	2560	3330	77	2740	3320	82	53-120	7	30
2,6-Dinitrotoluene	8270E	2540	3330	76	2700	3320	81	48-119	6	30
2-Chloronaphthalene	8270E	2310	3330	69	2430	3320	73	33-103	5	30
2-Chlorophenol	8270E	2070	3330	62	2270	3320	68	26-90	9	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Analyzed: 08/25/25

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511156-02					Duplicate Lab Control Sample RQ2511156-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2-Methylphenol	8270E	2230	3330	67	2550	3320	77	33-99	13	30
2-Nitroaniline	8270E	2450	3330	74	2580	3320	78	41-119	5	30
2-Nitrophenol	8270E	2000	3330	60	2130	3320	64	24-98	6	30
3- and 4-Methylphenol Coelution	8270E	2410	3330	72	2620	3320	79	32-100	8	30
3-Nitroaniline	8270E	1640 J	3330	49	1710	3320	52	29-105	4	30
4,6-Dinitro-2-methylphenol	8270E	2350	3330	71	2510	3320	76	20-105	7	30
4-Bromophenyl Phenyl Ether	8270E	2450	3330	74	2560	3320	77	37-116	5	30
4-Chloro-3-methylphenol	8270E	2250	3330	68	2430	3320	73	40-116	8	30
4-Chloroaniline	8270E	765	3330	23	705	3320	21	10-87	8	30
4-Chlorophenyl Phenyl Ether	8270E	2340	3330	70	2490	3320	75	42-111	6	30
4-Nitroaniline	8270E	1850	3330	56	2080	3320	63	43-120	12	30
4-Nitrophenol	8270E	2090	3330	63	2200	3320	66	34-116	5	30
Acetophenone	8270E	2010	3330	60	2160	3320	65	23-87	7	30
Benzoic Acid	8270E	1910	3330	57	2060	3320	62	10-126	7	30
Bis(1-chloroisopropyl) Ether	8270E	2200	3330	66	2390	3320	72	22-99	8	30
Bis(2-chloroethoxy)methane	8270E	2130	3330	64	2330	3320	70	38-119	9	30
Bis(2-chloroethyl) Ether	8270E	2030	3330	61	2190	3320	66	23-94	8	30
Bis(2-ethylhexyl) Phthalate	8270E	2760	3330	83	3010	3320	91	38-139	8	30
Butyl Benzyl Phthalate	8270E	2590	3330	78	2790	3320	84	40-134	7	30
Caprolactam	8270E	2030	3330	61	2170	3320	65	21-128	7	30
Carbazole	8270E	2410	3330	72	2610	3320	79	42-131	8	30
Di-n-butyl Phthalate	8270E	2650	3330	80	2860	3320	86	42-141	8	30
Di-n-octyl Phthalate	8270E	2980	3330	90	3290	3320	99	38-143	10	30
Diethyl Phthalate	8270E	2370	3330	71	2550	3320	77	43-118	7	30
Dimethyl Phthalate	8270E	2420	3330	73	2590	3320	78	40-118	7	30
Hexachlorobenzene	8270E	2370	3330	71	2530	3320	76	35-122	7	30
Hexachlorobutadiene	8270E	1910	3330	57	2020	3320	61	28-96	6	30
Hexachlorocyclopentadiene	8270E	2210	3330	66	2380	3320	72	10-111	7	30
Hexachloroethane	8270E	1930	3330	58	2090	3320	63	18-85	8	30
Isophorone	8270E	2150	3330	65	2320	3320	70	39-104	8	30
N-Nitrosodi-n-propylamine	8270E	2120	3330	64	2300	3320	69	30-98	9	30
N-Nitrosodiphenylamine	8270E	2660	3330	80	2800	3320	84	43-130	5	30
Nitrobenzene	8270E	2020	3330	61	2130	3320	64	31-99	5	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Analyzed: 08/25/25

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units:ug/Kg
Basis:Dry

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample					
	RQ2511156-02				RQ2511156-03					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Pentachlorophenol (PCP)	8270E	1960	3330	59	2120	3320	64	36-138	8	30
Phenol	8270E	2180	3330	65	2320	3320	70	31-100	7	30
Pyridine	8270E	3650	6650	55	3880	6640	58	12-80	6	30



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161

SURROGATE RECOVERY SUMMARY

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 159	10 - 132
8044 SB01 (1-2)	R2510161-001	101 P	57
8044 SB02 (3-4)	R2510161-002	65	60
8044 SB03 (5-6)	R2510161-003	79	55
Method Blank	RQ2511157-01	69	56
Lab Control Sample	RQ2511157-02	89	67
Duplicate Lab Control Sample	RQ2511157-03	72	60

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511157-01

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
4,4'-DDE	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
4,4'-DDT	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Aldrin	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Chlordane	4.2 U	8.3	4.2	1	08/26/25 19:05	8/22/25	
Dieldrin	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endosulfan I	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endosulfan II	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endosulfan Sulfate	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endrin	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endrin Aldehyde	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endrin Ketone	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Heptachlor	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Heptachlor Epoxide	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Methoxychlor	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Toxaphene	19 U	33	19	1	08/26/25 19:05	8/22/25	
alpha-BHC	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
alpha-Chlordane	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
beta-BHC	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
delta-BHC	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
gamma-BHC (Lindane)	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
gamma-Chlordane	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	69	10 - 159	08/26/25 19:05	
Tetrachloro-m-xylene	56	10 - 132	08/26/25 19:05	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Analyzed: 08/26/25

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511157-02					Duplicate Lab Control Sample RQ2511157-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	6.85	6.60	104	5.14	6.59	78	48-121	28	30
4,4'-DDE	8081B	6.08	6.60	92	5.34	6.59	81	51-119	13	30
4,4'-DDT	8081B	7.19	6.60	109	4.95	6.59	75	51-126	37*	30
Aldrin	8081B	5.92	6.60	90	5.01	6.59	76	45-109	17	30
Dieldrin	8081B	6.24	6.60	95	5.32	6.59	81	56-111	16	30
Endosulfan I	8081B	5.74	6.60	87	4.81	6.59	73	54-109	18	30
Endosulfan II	8081B	6.35	6.60	96	5.02	6.59	76	50-116	23	30
Endosulfan Sulfate	8081B	6.42	6.60	97	5.25	6.59	80	55-115	20	30
Endrin	8081B	6.53	6.60	99	5.11	6.59	78	49-124	24	30
Endrin Aldehyde	8081B	7.79	6.60	118	5.67	6.59	86	21-139	31*	30
Endrin Ketone	8081B	6.96	6.60	105	5.27	6.59	80	50-124	28	30
Heptachlor	8081B	6.61	6.60	100	5.26	6.59	80	43-115	23	30
Heptachlor Epoxide	8081B	6.26	6.60	95	5.32	6.59	81	53-113	16	30
Methoxychlor	8081B	8.71	6.60	132	6.10	6.59	93	47-141	35*	30
alpha-BHC	8081B	5.92	6.60	90	4.95	6.59	75	44-109	18	30
alpha-Chlordane	8081B	6.05	6.60	92	4.91	6.59	74	52-114	21	30
beta-BHC	8081B	6.11	6.60	93	5.15	6.59	78	49-119	17	30
delta-BHC	8081B	6.20	6.60	94	5.22	6.59	79	49-113	17	30
gamma-BHC (Lindane)	8081B	6.10	6.60	93	5.13	6.59	78	43-112	17	30
gamma-Chlordane	8081B	6.45	6.60	98	5.41	6.59	82	51-117	18	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 138	11 - 122
8044 SB01 (1-2)	R2510161-001	180 P *	66
8044 SB02 (3-4)	R2510161-002	80	69
8044 SB03 (5-6)	R2510161-003	84	65
Method Blank	RQ2511157-01	78	58
Lab Control Sample	RQ2511157-04	81	68
Duplicate Lab Control Sample	RQ2511157-05	86	70

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511157-01

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	17 U	33	17	1	08/26/25 20:51	8/22/25	
Aroclor 1221	26 U	67	26	1	08/26/25 20:51	8/22/25	
Aroclor 1232	19 U	33	19	1	08/26/25 20:51	8/22/25	
Aroclor 1242	17 U	33	17	1	08/26/25 20:51	8/22/25	
Aroclor 1248	18 U	33	18	1	08/26/25 20:51	8/22/25	
Aroclor 1254	17 U	33	17	1	08/26/25 20:51	8/22/25	
Aroclor 1260	17 U	33	17	1	08/26/25 20:51	8/22/25	
Aroclor 1262	17 U	33	17	1	08/26/25 20:51	8/22/25	
Aroclor 1268	17 U	33	17	1	08/26/25 20:51	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 138	08/26/25 20:51	
Tetrachloro-m-xylene	58	11 - 122	08/26/25 20:51	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Analyzed: 08/26/25

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Units:ug/Kg**Basis:**Dry

Lab Control Sample					Duplicate Lab Control Sample					
RQ2511157-04					RQ2511157-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	138	166	83	134	166	81	34-141	3	30
Aroclor 1260	8082A	145	166	87	146	166	88	30-158	<1	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA
		10 - 151
8044 SB01 (1-2)	R2510161-001	46
8044 SB02 (3-4)	R2510161-002	44
8044 SB03 (5-6)	R2510161-003	43
Method Blank	RQ2511320-01	60
Lab Control Sample	RQ2511320-02	55
Duplicate Lab Control Sample	RQ2511320-03	61

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511320-01

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	5.0 U	10	5.0	1	08/28/25 19:28	8/26/25	
2,4,5-TP	4.5 U	10	4.5	1	08/28/25 19:28	8/26/25	
2,4-D	6.5 U	10	6.5	1	08/28/25 19:28	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	60	10 - 151	08/28/25 19:28	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8044_Molena
Sample Matrix: Soil

Service Request: R2510161
Date Analyzed: 08/28/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ2511320-02

Duplicate Lab Control Sample
RQ2511320-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2,4,5-T	8151A	15.5	24.9	62	17.6	24.9	71	19-127	13	30
2,4,5-TP	8151A	13.3	24.9	53	15.6	24.9	63	18-122	16	30
2,4-D	8151A	12.0	24.9	48	13.9	24.9	56	31-119	15	30



right solutions.
right partner.

October 16, 2025

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

Re: **DETR0060**

Date Received: **10/09/2025**

Work Order: **HN2514968**

Dear Ryan,

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

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

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

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

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

Dale Schipper

/S/ DALE SCHIPPER

Project Manager



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

Work Order: HN2514968
Date Received: 09-Oct-2025

CASE NARRATIVE

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

Sample Receipt

1 soil/solid sample was received for analysis at ALS Environmental on 09-Oct-2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Workorder: HN2514968

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2514968-001	8044 Molena SB01 TCLP	SOIL/SOLID	10/08/25 09:25	10/09/25 07:00

REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

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

¹ - Scope available upon request

Analytical Report



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

Work Order: HN2514968
Date Collected: 10/08/25 09:25
Date Received: 10/09/25 07:00

CLIENT ID: 8044 Molena SB01 TCLP **Lab ID: HN2514968-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Semivolatile Organic Compounds by GC-MS								
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8270E	ND		µg/L	20.0	1	10/16/25 04:35	10/15/25 11:25
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/L	20.0	1	10/16/25 04:35	10/15/25 11:25
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/L	20.0	1	10/16/25 04:35	10/15/25 11:25
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/L	20.0	1	10/16/25 04:35	10/15/25 11:25
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/L	20.0	1	10/16/25 04:35	10/15/25 11:25
3&4-Methylphenol	EPA 8270E	ND		µg/L	20.0	1	10/16/25 04:35	10/15/25 11:25
Hexachlorobenzene	EPA 8270E	ND		µg/L	20.0	1	10/16/25 04:35	10/15/25 11:25
Hexachlorobutadiene	EPA 8270E	ND		µg/L	20.0	1	10/16/25 04:35	10/15/25 11:25
Hexachloroethane	EPA 8270E	ND		µg/L	20.0	1	10/16/25 04:35	10/15/25 11:25
Nitrobenzene	EPA 8270E	ND		µg/L	20.0	1	10/16/25 04:35	10/15/25 11:25
Pentachlorophenol	EPA 8270E	ND		µg/L	50.0	1	10/16/25 04:35	10/15/25 11:25
Pyridine	EPA 8270E	ND		µg/L	100	1	10/16/25 04:35	10/15/25 11:25
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	71.9		%REC	38-116	1	10/16/25 04:35	10/15/25 11:25
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	57.9		%REC	30-101	1	10/16/25 04:35	10/15/25 11:25
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	59.8		%REC	22-78	1	10/16/25 04:35	10/15/25 11:25
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	62.8		%REC	37-99	1	10/16/25 04:35	10/15/25 11:25
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	72.2		%REC	28-102	1	10/16/25 04:35	10/15/25 11:25
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	44.8		%REC	18-55	1	10/16/25 04:35	10/15/25 11:25



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2276328

Work Order: HN2514968
Date Collected: NA
Date Received: NA
Run ID: 3593164

TCLP Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2276328-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/15/25 21:47

Prep Date: 10/15/25 11:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,4-Dichlorobenzene (p-Dichlorobenzene)	ND	µg/L	4.00							
2,4,5-Trichlorophenol	ND	µg/L	4.00							
2,4,6-Trichlorophenol	ND	µg/L	4.00							
2,4-Dinitrotoluene (2,4-DNT)	ND	µg/L	4.00							
2-Methylphenol (o-Cresol)	ND	µg/L	4.00							
3&4-Methylphenol	ND	µg/L	4.00							
Hexachlorobenzene	ND	µg/L	4.00							
Hexachlorobutadiene	ND	µg/L	4.00							
Hexachloroethane	ND	µg/L	4.00							
Nitrobenzene	ND	µg/L	4.00							
Pentachlorophenol	ND	µg/L	10.0							
Pyridine	ND	µg/L	20.0							
Surr: 2,4,6-Tribromophenol	144	µg/L		200		71.8	38-116			
Surr: 2-Fluorobiphenyl	128	µg/L		200		64.2	30-101			
Surr: 2-Fluorophenol	119	µg/L		200		59.5	22-78			
Surr: 4-Terphenyl-d14	148	µg/L		200		74.2	37-99			
Surr: Nitrobenzene-d5	156	µg/L		200		78.2	28-102			
Surr: Phenol-d6	87.7	µg/L		200		43.8	18-55			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2276328-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/15/25 22:15

Prep Date: 10/15/25 11:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,4-Dichlorobenzene (p-Dichlorobenzene)	46.2	µg/L	4.00	80		57.8	21-108			
2,4,5-Trichlorophenol	65.1	µg/L	4.00	80		81.4	38-112			
2,4,6-Trichlorophenol	65.8	µg/L	4.00	80		82.3	32-118			
2,4-Dinitrotoluene (2,4-DNT)	70.7	µg/L	4.00	80		88.4	35-132			
2-Methylphenol (o-Cresol)	65.6	µg/L	4.00	80		82.0	31-101			
3&4-Methylphenol	62.8	µg/L	4.00	80		78.5	30-96			
Hexachlorobenzene	66.5	µg/L	4.00	80		83.2	36-119			
Hexachlorobutadiene	41.5	µg/L	4.00	80		51.9	17-116			
Hexachloroethane	40.6	µg/L	4.00	80		50.7	18-108			
Nitrobenzene	69.9	µg/L	4.00	80		87.4	35-112			
Pentachlorophenol	58.0	µg/L	10.0	80		72.5	23-116			
Pyridine	50.6	µg/L	20.0	80		63.2	18-78			
Surr: 2,4,6-Tribromophenol	161	µg/L		200		80.3	38-116			
Surr: 2-Fluorobiphenyl	146	µg/L		200		72.9	30-101			
Surr: 2-Fluorophenol	120	µg/L		200		60.2	22-78			
Surr: 4-Terphenyl-d14	137	µg/L		200		68.6	37-99			
Surr: Nitrobenzene-d5	161	µg/L		200		80.7	28-102			
Surr: Phenol-d6	87.3	µg/L		200		43.7	18-55			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2276328

Work Order: HN2514968
Date Collected: NA
Date Received: NA
Run ID: 3593164

The following samples were analyzed in this batch: HN2514968-001

ANALYST SUMMARY



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

Work Order: HN2514968

Sample Name: 8044 Molena SB01 TCLP
Laboratory Code: HN2514968-001
Sample Matrix: SOIL/SOLID

Date Collected: 10/08/25
Date Received: 10/09/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 8270E	EPA 3510C	001-AD	2276328	Danielle Maleski	3593164	Alexa Montague



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	8044 Molena	A	TCLP SVOCs
Work Order	Quote ID - 11631	Project Number	DETR0060	B	
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group	C	
Send Report To	Ryan Montri	Invoice Attn:		D	
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road	E	
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188	F	
Phone	734-397-3100	Phone	734-397-3100	G	
Fax		Fax		H	
e-Mail Address	rmontri@manniksmithgroup.com	e-Mail Address		I	
				J	

Environmental Division
Holland
Work Order Reference
HN2514968



Telephone : +1 616 399 6070

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	J	Hold
1	8044 Molena SBOI TCLP	10-8-25	09:25	Soil		2	X				
2											
3											
4											
5											
6											
7											
8											
9											
10											

Sampler(s): Please Print & Sign Shannon Hartzmanek Blair Cole		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Results Due Date:	
Relinquished by:	Date: 10-8-25	Time: 4:28	Received by:	Notes: 10/9/25 QS to Brittaney 0700			
Relinquished by:	Date: 10/8/25	Time: 5:00	Received by (Laboratory):	Cooler Temp. 112.7 2.1C			
Logged by (Laboratory):	Date: 10/9/25	Time: 14:56	Checked by (Laboratory):	QC Package: (Check Box Below)			
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035				Level II: Standard QC TRRP-Checklist			
				Level III: Std QC + Raw Data TRRP Level IV			
				Level IV: SW846 CLP-Like			
				Other:			

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

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

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ALS Holland Sample Receiving Checklist

Received by: Brittany H

Date/Time: 10/19/25 0700

Carrier Name: QS

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

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

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

Chain of Custody present? (Yes) / No

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

COC agrees with sample labels? (Yes) / No

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

Sample containers intact? (Yes) / No

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

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

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

Temperature(s) (°C): 2.1/2.1c

Thermometer(s): 127

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

Matrix/Matrices: soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 10/19/25 14:56

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:



right solutions.
right partner.

October 30, 2025

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

Re: **DETR0060**

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

Work Order: **HN2516055**

Dear Ryan,

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

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

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

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

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

Dale Schipper

/S/ NOAH STINNETT on behalf of PM listed above

Project Manager



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

Work Order: HN2516055
Date Received: 28-Oct-2025

CASE NARRATIVE

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

Sample Receipt

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

Organics

EPA 8270E-FULL HN-3546-S

Run ID: 3639941

The MSD recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary for this analyte: 2,3,4,6-Tetrachlorophenol.

HN2516055-001: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Run ID: 3631956

HN2516055-001: mass reduced due to sample matrix

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: 8044 Molena SB01 (1-2')-R

Lab ID: HN2516055-001

Analyte	Results	Flag	MRL	Units	Method
Acenaphthene	263		90.7	µg/kg	EPA 8270E
Anthracene	997		90.7	µg/kg	EPA 8270E
Benzo(a)anthracene	2070		90.7	µg/kg	EPA 8270E
Benzo(a)pyrene	2130		90.7	µg/kg	EPA 8270E
Benzo(b)fluoranthene	2800		90.7	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	1620		90.7	µg/kg	EPA 8270E
Benzo(k)fluoranthene	943		90.7	µg/kg	EPA 8270E
Chrysene	1790		90.7	µg/kg	EPA 8270E
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	462		449	µg/kg	EPA 8270E
Fluoranthene	5240		90.7	µg/kg	EPA 8270E
Fluorene	426		90.7	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	1790		90.7	µg/kg	EPA 8270E
Percent Moisture	16.6		0.1	%	EPA 3550C
Phenanthrene	3500		90.7	µg/kg	EPA 8270E
Pyrene	4170		90.7	µg/kg	EPA 8270E

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Workorder: HN2516055

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2516055-001	8044 Molena SB01 (1-2')-R	SOIL/SOLID	10/27/25 12:30	10/28/25 06:00



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information			Project Information					ALS Project Manager:												Work Order #:						
Parameter/Method Request for Analysis			Project Name												Project Number											
Purchase Order			Project Name					A												SVOCs (U.S. EPA Method 8270D (or Method 8270))						
Work Order			Project Number					B																		
Company Name			The Mannik and Smith Group					C																		
Send Report To			Ryan Montri					D																		
Address			2365 Haggerty Rd South Suite 100					E												Environmental Division						
City/State/Zip			Canton, MI 48188					F												Holland						
Phone			734-397-3100					G												Work Order Reference						
Fax								H												HN2516055						
e-Mail Address			RMontri@manna-smithgroup.com					I																		
e-Mail Address								J												Telephone : +1 616 399 6070						
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	J	Hold														
1	8044 Holena SBO1 (1-2')-R	10/27/25	1230	S	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:														
Kevin Warf						72 HRS																				
Relinquished by:			Date:		Time:		Received by:			Notes:			Quote# HN-061825-M&S-MA													
WILEY DAVENPORT			10/27/25		1558		Ch 2h			QS to Brighton 10/28/25 0600																
Relinquished by:			Date:		Time:		Received by (Laboratory):			Cooler Temp.			QC Package: (Check Box Below)													
Ch 2h			10/27/25		1558		QS			12.7			Level II: Standard QC													
Logged by (Laboratory):			Date:		Time:		Checked by (Laboratory):			5.8C			Level III: Std QC + Raw Data													
BH			10/28/25		08:21								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-S035												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 Sample Receiving Checklist

Received by: Brullman H

Date/Time: 10/28/25 0600

Carrier Name: Q5

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

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

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

Chain of Custody present? Yes / No

COC signed when relinquished and received? Yes / No

COC agrees with sample labels? Yes / No

Samples in proper container/bottle? Yes / No

Sample containers intact? Yes / No

Sufficient sample volume for indicated test? Yes / No

All samples received within holding time? Yes / No

Container/Temp Blank temperature in compliance? Yes / No

Temperature(s) (°C): 5.8/5.8c

Thermometer(s): 1R7

Sample(s) received on ice? Yes / No

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 10/28/25 0821

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

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

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

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

pH adjusted by: _____

Login Notes:

REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

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

¹ - Scope available upon request

ANALYST SUMMARY



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

Work Order: HN2516055

Sample Name: 8044 Molena SB01 (1-2')-R
Laboratory Code: HN2516055-001
Sample Matrix: SOIL/SOLID

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

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AA	2302720		3631423	Nicole Maleski
EPA 8270E	EPA 3546	001-AA	2303031	Willow Julien	3639941	Taryn Van Wyngarde

Analytical Report



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

Work Order: HN2516055
Date Collected: 10/27/25 12:30
Date Received: 10/28/25 06:00

CLIENT ID: 8044 Molena SB01 (1-2')-R

Lab ID: HN2516055-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	16.6		%	0.1	1	10/28/25 11:36	NA
Semivolatile Organic Compounds by GC-MS								
1,1'-Biphenyl (BZ-0)	EPA 8270E	<73.6	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<105	U	µg/kg	4530	5	10/29/25 21:20	10/28/25 11:33
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<325	U	µg/kg	2270	5	10/29/25 21:20	10/28/25 11:33
1-Methylnaphthalene	EPA 8270E	<65.3	U	µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	<106	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
2,3,4,6-Tetrachlorophenol	EPA 8270E	<332	U	µg/kg	907	5	10/29/25 21:20	10/28/25 11:33
2,4,5-Trichlorophenol	EPA 8270E	<269	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
2,4,6-Trichlorophenol	EPA 8270E	<121	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
2,4-Dichlorophenol	EPA 8270E	<244	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
2,4-Dimethylphenol	EPA 8270E	<233	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
2,4-Dinitrophenol	EPA 8270E	<3310	U	µg/kg	4530	5	10/29/25 21:20	10/28/25 11:33
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<294	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<116	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
2-Chloronaphthalene	EPA 8270E	<63.4	U	µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
2-Chlorophenol	EPA 8270E	<297	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<379	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
2-Methylnaphthalene	EPA 8270E	<46.1	U	µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
2-Methylphenol (o-Cresol)	EPA 8270E	<123	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
2-Nitroaniline	EPA 8270E	<252	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
2-Nitrophenol	EPA 8270E	<129	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
3&4-Methylphenol	EPA 8270E	<247	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
3,3'-Dichlorobenzidine	EPA 8270E	<212	U	µg/kg	2270	5	10/29/25 21:20	10/28/25 11:33
3-Nitroaniline	EPA 8270E	<263	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<248	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33

Analytical Report



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

Work Order: HN2516055
Date Collected: 10/27/25 12:30
Date Received: 10/28/25 06:00

CLIENT ID: 8044 Molena SB01 (1-2')-R	Lab ID: HN2516055-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
4-Chloro-3-methylphenol	EPA 8270E	<129	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
4-Chloroaniline	EPA 8270E	<230	U	µg/kg	907	5	10/29/25 21:20	10/28/25 11:33
4-Chlorophenyl phenylether	EPA 8270E	<125	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
4-Nitroaniline	EPA 8270E	<703	U	µg/kg	2270	5	10/29/25 21:20	10/28/25 11:33
4-Nitrophenol	EPA 8270E	<1060	U	µg/kg	4530	5	10/29/25 21:20	10/28/25 11:33
Acenaphthene	EPA 8270E	263		µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
Acenaphthylene	EPA 8270E	<78.6	U	µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
Acetophenone	EPA 8270E	<71.0	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Anthracene	EPA 8270E	997		µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
Atrazine	EPA 8270E	<266	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Benzaldehyde	EPA 8270E	<696	U	µg/kg	907	5	10/29/25 21:20	10/28/25 11:33
Benzo(a)anthracene	EPA 8270E	2070		µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
Benzo(a)pyrene	EPA 8270E	2130		µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
Benzo(b)fluoranthene	EPA 8270E	2800		µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
Benzo(g,h,i)perylene	EPA 8270E	1620		µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
Benzo(k)fluoranthene	EPA 8270E	943		µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
bis(2-Chloroethoxy) methane	EPA 8270E	<287	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
bis(2-Chloroethyl) ether	EPA 8270E	<128	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Butyl benzyl phthalate	EPA 8270E	<567	U	µg/kg	907	5	10/29/25 21:20	10/28/25 11:33
Caprolactam	EPA 8270E	<409	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Carbazole	EPA 8270E	<134	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Chrysene	EPA 8270E	1790		µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	462		µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Dibenz(a,h) anthracene	EPA 8270E	<49.0	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Dibenzofuran	EPA 8270E	<66.6	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Diethyl phthalate	EPA 8270E	<154	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Dimethyl phthalate	EPA 8270E	<88.4	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Fluoranthene	EPA 8270E	5240		µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
Fluorene	EPA 8270E	426		µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
Hexachlorobenzene	EPA 8270E	<132	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33

Analytical Report



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

Work Order: HN2516055
Date Collected: 10/27/25 12:30
Date Received: 10/28/25 06:00

CLIENT ID: 8044 Molena SB01 (1-2')-R

Lab ID: HN2516055-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Hexachlorobutadiene	EPA 8270E	<107	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Hexachlorocyclopentadiene	EPA 8270E	<430	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Hexachloroethane	EPA 8270E	<188	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Indeno(1,2,3-cd) pyrene	EPA 8270E	1790		µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
Isophorone	EPA 8270E	<88.5	U	µg/kg	2270	5	10/29/25 21:20	10/28/25 11:33
Methylphenol, Total	EPA 8270E	<123	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Naphthalene	EPA 8270E	<57.9	U	µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
Nitrobenzene	EPA 8270E	<152	U	µg/kg	2270	5	10/29/25 21:20	10/28/25 11:33
n-Nitrosodi-n-propylamine	EPA 8270E	<74.8	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
N-Nitrosodiphenylamine	EPA 8270E	<262	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Pentachlorophenol	EPA 8270E	<360	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Phenanthrene	EPA 8270E	3500		µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
Phenol	EPA 8270E	<228	U	µg/kg	449	5	10/29/25 21:20	10/28/25 11:33
Pyrene	EPA 8270E	4170		µg/kg	90.7	5	10/29/25 21:20	10/28/25 11:33
Pyridine	EPA 8270E	<892	U	µg/kg	2270	5	10/29/25 21:20	10/28/25 11:33
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	77.8		%REC	48-94	5	10/29/25 21:20	10/28/25 11:33
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	67.6		%REC	50-103	5	10/29/25 21:20	10/28/25 11:33
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	63.5		%REC	43-105	5	10/29/25 21:20	10/28/25 11:33
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	73.8		%REC	55-111	5	10/29/25 21:20	10/28/25 11:33
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	66.3		%REC	47-100	5	10/29/25 21:20	10/28/25 11:33
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	65.0		%REC	49-110	5	10/29/25 21:20	10/28/25 11:33

QA/QC Report



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

Work Order: HN2516055
Date Collected: NA
Date Received: NA
Run ID: 3631423

General Chemistry Parameters

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

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

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

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

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

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

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

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

The following samples were analyzed in this batch: HN2516055-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2303031

Work Order: HN2516055
Date Collected: NA
Date Received: NA
Run ID: 3639941

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2303031-001
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 10/29/25 13:38**Prep Date:** 10/28/25 11:34

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



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2303031

Work Order: HN2516055
Date Collected: NA
Date Received: NA
Run ID: 3639941

MB	CLIENT ID: Method Blank	Lab ID: QC-2303031-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/29/25 13:38

Prep Date: 10/28/25 11:34

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	2610	µg/kg		3333		78.4	48-94			
Surr: 2-Fluorobiphenyl	2430	µg/kg		3333		72.8	50-103			
Surr: 2-Fluorophenol	2210	µg/kg		3333		66.3	43-105			
Surr: 4-Terphenyl-d14	2450	µg/kg		3333		73.4	55-111			
Surr: Nitrobenzene-d5	2160	µg/kg		3333		64.9	47-100			
Surr: Phenol-d6	2280	µg/kg		3333		68.4	49-110			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2303031-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/29/25 13:58

Prep Date: 10/28/25 11:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1010	µg/kg	33.0	1333		75.7	57-101			
1,2,4,5-Tetrachlorobenzene	1100	µg/kg	33.0	1333		82.4	54-98			
1-Methylnaphthalene	985	µg/kg	6.67	1333		73.9	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	821	µg/kg	33.0	1333		61.6	50-101			
2,3,4,6-Tetrachlorophenol	1320	µg/kg	67.0	1333		99.4	48-103			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2303031

Work Order: HN2516055
Date Collected: NA
Date Received: NA
Run ID: 3639941

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2303031-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/29/25 13:58

Prep Date: 10/28/25 11:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1150	µg/kg	33.0	1333		86.1	54-98			
2,4,6-Trichlorophenol	1140	µg/kg	33.0	1333		85.4	56-97			
2,4-Dichlorophenol	1030	µg/kg	33.0	1333		77.4	54-99			
2,4-Dimethylphenol	875	µg/kg	33.0	1333		65.6	47-102			
2,4-Dinitrophenol	1220	µg/kg	333	1333		91.6	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1170	µg/kg	33.0	1333		87.8	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1160	µg/kg	33.0	1333		87.0	62-103			
2-Chloronaphthalene	1000	µg/kg	6.67	1333		75.3	57-101			
2-Chlorophenol	973	µg/kg	33.0	1333		73.0	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	1230	µg/kg	33.0	1333		92.2	42-104			
2-Methylnaphthalene	965	µg/kg	6.67	1333		72.4	55-102			
2-Methylphenol (o-Cresol)	914	µg/kg	33.0	1333		68.6	54-103			
2-Nitroaniline	1110	µg/kg	33.0	1333		83.0	57-103			
2-Nitrophenol	1260	µg/kg	33.0	1333		94.4	52-102			
3&4-Methylphenol	933	µg/kg	33.0	1333		70.0	56-103			
3,3'-Dichlorobenzidine	808	µg/kg	167	1333		60.6	41-91			
3-Nitroaniline	641	µg/kg	33.0	1333		48.1	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1110	µg/kg	33.0	1333		83.1	63-104			
4-Chloro-3-methylphenol	1000	µg/kg	33.0	1333		75.3	57-103			
4-Chloroaniline	1070	µg/kg	67.0	1333		80.0	32-99			
4-Chlorophenyl phenylether	1120	µg/kg	33.0	1333		83.9	62-100			
4-Nitroaniline	744	µg/kg	167	1333		55.8	19-124			
4-Nitrophenol	1090	µg/kg	333	1333		82.0	44-106			
Acenaphthene	1020	µg/kg	6.67	1333		76.2	60-101			
Acenaphthylene	1030	µg/kg	6.67	1333		77.0	59-101			
Acetophenone	917	µg/kg	33.0	1333		68.8	54-102			
Anthracene	1050	µg/kg	6.67	1333		78.7	63-96			
Atrazine	1290	µg/kg	33.0	1333		96.9	60-110			
Benzaldehyde	253	µg/kg	67.0	1333		19.0	10-143			
Benzo(a)anthracene	1030	µg/kg	6.67	1333		77.2	66-102			
Benzo(a)pyrene	1130	µg/kg	6.67	1333		84.4	66-105			
Benzo(b)fluoranthene	1090	µg/kg	6.67	1333		81.9	67-105			
Benzo(g,h,i)perylene	1100	µg/kg	6.67	1333		82.8	59-110			
Benzo(k)fluoranthene	1060	µg/kg	6.67	1333		79.2	68-106			
bis(2-Chloroethoxy)methane	821	µg/kg	33.0	1333		61.6	54-102			
bis(2-Chloroethyl) ether	859	µg/kg	33.0	1333		64.4	51-101			
Butyl benzyl phthalate	1100	µg/kg	67.0	1333		82.4	59-107			
Caprolactam	1000	µg/kg	33.0	1333		75.3	49-103			
Carbazole	1000	µg/kg	33.0	1333		75.1	63-103			
Chrysene	1020	µg/kg	6.67	1333		76.5	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1110	µg/kg	33.0	1333		83.1	63-101			
Dibenz(a,h) anthracene	1130	µg/kg	33.0	1333		85.0	61-109			
Dibenzofuran	1050	µg/kg	33.0	1333		78.4	61-101			
Diethyl phthalate	1100	µg/kg	33.0	1333		82.5	63-105			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2303031

Work Order: HN2516055
Date Collected: NA
Date Received: NA
Run ID: 3639941

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2303031-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/29/25 13:58

Prep Date: 10/28/25 11:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Dimethyl phthalate	1070	µg/kg	33.0	1333		80.6	64-104			
Fluoranthene	1080	µg/kg	6.67	1333		81.3	66-105			
Fluorene	1070	µg/kg	6.67	1333		80.3	62-101			
Hexachlorobenzene	1110	µg/kg	33.0	1333		83.6	61-104			
Hexachlorobutadiene	1120	µg/kg	33.0	1333		84.0	52-99			
Hexachlorocyclopentadiene	969	µg/kg	33.0	1333		72.7	39-106			
Hexachloroethane	977	µg/kg	33.0	1333		73.3	59-99			
Indeno(1,2,3-cd) pyrene	1250	µg/kg	6.67	1333		94.0	57-114			
Isophorone	920	µg/kg	167	1333		69.0	55-101			
Methylphenol, Total	1850	µg/kg	67.0	2667		69.2	54-103			
Naphthalene	939	µg/kg	6.67	1333		70.5	54-99			
Nitrobenzene	939	µg/kg	167	1333		70.5	53-100			
n-Nitrosodi-n-propylamine	953	µg/kg	33.0	1333		71.5	52-104			
N-Nitrosodiphenylamine	988	µg/kg	33.0	1333		74.1	61-104			
Pentachlorophenol	1170	µg/kg	33.0	1333		87.5	35-100			
Phenanthrene	983	µg/kg	6.67	1333		73.7	64-101			
Phenol	820	µg/kg	33.0	1333		61.5	51-107			
Pyrene	983	µg/kg	6.67	1333		73.8	62-114			
Pyridine	703	µg/kg	167	1333		52.8	40-84			
Surr: 2,4,6-Tribromophenol	2880	µg/kg		3333		86.4	48-94			
Surr: 2-Fluorobiphenyl	2550	µg/kg		3333		76.4	50-103			
Surr: 2-Fluorophenol	2190	µg/kg		3333		65.8	43-105			
Surr: 4-Terphenyl-d14	2460	µg/kg		3333		73.9	55-111			
Surr: Nitrobenzene-d5	2350	µg/kg		3333		70.5	47-100			
Surr: Phenol-d6	2310	µg/kg		3333		69.4	49-110			

MS	CLIENT ID: Batch QC	Lab ID: QC-2303031-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/29/25 14:20

Prep Date: 10/28/25 11:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1640	µg/kg	53.6	2091.5	<8.49	78.6	57-101			
1,2,4,5-Tetrachlorobenzene	1780	µg/kg	541	2091.5	<12.1	85.3	54-98			
1-Methylnaphthalene	1640	µg/kg	10.8	2091.5	<7.53	78.3	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	1360	µg/kg	53.6	2091.5	<12.3	65.0	50-101			
2,3,4,6-Tetrachlorophenol	2070	µg/kg	108	2091.5	<38.3	99.1	48-103			
2,4,5-Trichlorophenol	1960	µg/kg	53.6	2091.5	<31.0	93.7	54-98			
2,4,6-Trichlorophenol	1920	µg/kg	53.6	2091.5	<13.9	91.9	56-97			
2,4-Dichlorophenol	1760	µg/kg	53.6	2091.5	<28.1	84.3	54-99			
2,4-Dimethylphenol	1530	µg/kg	53.6	2091.5	<26.9	73.3	47-102			
2,4-Dinitrophenol	1380	µg/kg	541	2091.5	<382	65.8	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1910	µg/kg	53.6	2091.5	<34.0	91.3	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1890	µg/kg	53.6	2091.5	<13.4	90.4	62-103			
2-Chloronaphthalene	1680	µg/kg	10.8	2091.5	<7.31	80.4	57-101			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2303031

Work Order: HN2516055
Date Collected: NA
Date Received: NA
Run ID: 3639941

MS	CLIENT ID: Batch QC	Lab ID: QC-2303031-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/29/25 14:20

Prep Date: 10/28/25 11:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2-Chlorophenol	1630	µg/kg	53.6	2091.5	<34.2	78.1	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	2000	µg/kg	53.6	2091.5	<43.7	95.7	42-104			
2-Methylnaphthalene	1630	µg/kg	10.8	2091.5	<5.32	78.0	55-102			
2-Methylphenol (o-Cresol)	1540	µg/kg	53.6	2091.5	<14.1	73.9	54-103			
2-Nitroaniline	1830	µg/kg	53.6	2091.5	<29.0	87.4	57-103			
2-Nitrophenol	2120	µg/kg	53.6	2091.5	<14.9	101	52-102			
3&4-Methylphenol	1570	µg/kg	53.6	2091.5	<28.5	75.1	56-103			
3,3'-Dichlorobenzidine	1620	µg/kg	271	2091.5	<24.4	77.4	41-91			
3-Nitroaniline	991	µg/kg	53.6	2091.5	<30.4	47.4	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1870	µg/kg	53.6	2091.5	<28.7	89.4	63-104			
4-Chloro-3-methylphenol	1660	µg/kg	53.6	2091.5	<14.9	79.4	57-103			
4-Chloroaniline	1780	µg/kg	108	2091.5	<26.6	85.1	32-99			
4-Chlorophenyl phenylether	1840	µg/kg	53.6	2091.5	<14.5	87.9	62-100			
4-Nitroaniline	1120	µg/kg	271	2091.5	<81.1	53.3	19-124			
4-Nitrophenol	1900	µg/kg	541	2091.5	<122	91.1	44-106			
Acenaphthene	1690	µg/kg	10.8	2091.5	<7.56	80.9	60-101			
Acenaphthylene	1690	µg/kg	10.8	2091.5	<9.07	80.9	59-101			
Acetophenone	1530	µg/kg	53.6	2091.5	<8.19	73.2	54-102			
Anthracene	1700	µg/kg	10.8	2091.5	<7.37	81.3	63-96			
Atrazine	2090	µg/kg	53.6	2091.5	<30.6	99.8	60-110			
Benzaldehyde	362	µg/kg	108	2091.5	<80.3	17.3	10-143			
Benzo(a)anthracene	1710	µg/kg	10.8	2091.5	<9.04	81.4	66-102			
Benzo(a)pyrene	1870	µg/kg	10.8	2091.5	<6.42	89.4	66-105			
Benzo(b)fluoranthene	1810	µg/kg	10.8	2091.5	<7.80	86.3	67-105			
Benzo(g,h,i)perylene	1840	µg/kg	10.8	2091.5	<8.02	88.1	59-110			
Benzo(k)fluoranthene	1750	µg/kg	10.8	2091.5	<7.92	83.5	68-106			
bis(2-Chloroethoxy)methane	1560	µg/kg	53.6	2091.5	<33.1	74.5	54-102			
bis(2-Chloroethyl) ether	1510	µg/kg	53.6	2091.5	<14.8	72.0	51-101			
Butyl benzyl phthalate	1820	µg/kg	108	2091.5	<65.5	87.2	59-107			
Caprolactam	1630	µg/kg	53.6	2091.5	<47.2	77.7	49-103			
Carbazole	1610	µg/kg	53.6	2091.5	<15.4	76.9	63-103			
Chrysene	1690	µg/kg	10.8	2091.5	<8.93	80.8	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1840	µg/kg	53.6	2091.5	<43.3	87.9	63-101			
Dibenz(a,h) anthracene	1860	µg/kg	53.6	2091.5	<5.65	89.0	61-109			
Dibenzofuran	1700	µg/kg	53.6	2091.5	<7.69	81.4	61-101			
Diethyl phthalate	1760	µg/kg	53.6	2091.5	<17.8	84.2	63-105			
Dimethyl phthalate	1760	µg/kg	53.6	2091.5	31.9	82.5	64-104			
Fluoranthene	1760	µg/kg	10.8	2091.5	5.70	84.1	66-105			
Fluorene	1740	µg/kg	10.8	2091.5	<7.59	83.2	62-101			
Hexachlorobenzene	1850	µg/kg	53.6	2091.5	<15.2	88.4	61-104			
Hexachlorobutadiene	1800	µg/kg	53.6	2091.5	<12.3	85.9	52-99			
Hexachlorocyclopentadiene	1760	µg/kg	53.6	2091.5	<51.2	84.2	39-106			
Hexachloroethane	1630	µg/kg	53.6	2091.5	<21.7	77.9	59-99			
Indeno(1,2,3-cd) pyrene	2040	µg/kg	10.8	2091.5	<7.28	97.5	57-114			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2303031

Work Order: HN2516055
Date Collected: NA
Date Received: NA
Run ID: 3639941

MS	CLIENT ID: Batch QC	Lab ID: QC-2303031-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/29/25 14:20

Prep Date: 10/28/25 11:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Isophorone	1530	µg/kg	271	2091.5	<10.2	73.2	55-101			
Methylphenol, Total	3120	µg/kg	53.6	4184.6	<14.1	74.5	54-103			
Naphthalene	1560	µg/kg	10.8	2091.5	<6.68	74.4	54-99			
Nitrobenzene	1570	µg/kg	271	2091.5	<17.6	75.1	53-100			
n-Nitrosodi-n-propylamine	1580	µg/kg	53.6	2091.5	<8.63	75.4	52-104			
N-Nitrosodiphenylamine	1610	µg/kg	53.6	2091.5	<30.3	76.8	61-104			
Pentachlorophenol	2040	µg/kg	53.6	2091.5	<41.5	97.4	35-100			
Phenanthrene	1570	µg/kg	10.8	2091.5	<4.86	74.9	64-101			
Phenol	1350	µg/kg	53.6	2091.5	<26.3	64.8	51-107			
Pyrene	1640	µg/kg	10.8	2091.5	<5.22	78.3	52-114			
Pyridine	1290	µg/kg	271	2091.5	<103	61.7	40-84			
Surr: 2,4,6-Tribromophenol	4720	µg/kg		5229.6		90.3	48-94			
Surr: 2-Fluorobiphenyl	4230	µg/kg		5229.6		80.9	50-103			
Surr: 2-Fluorophenol	3770	µg/kg		5229.6		72.0	43-105			
Surr: 4-Terphenyl-d14	4090	µg/kg		5229.6		78.2	55-111			
Surr: Nitrobenzene-d5	3890	µg/kg		5229.6		74.5	47-100			
Surr: Phenol-d6	3840	µg/kg		5229.6		73.4	49-110			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2303031-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/29/25 14:41

Prep Date: 10/28/25 11:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1650	µg/kg	54.0	2104.7	<8.54	78.4	57-101	0.375	30	
1,2,4,5-Tetrachlorobenzene	1790	µg/kg	544	2104.7	<12.1	84.9	54-98	0.101	30	
1-Methylnaphthalene	1610	µg/kg	10.9	2104.7	<7.58	76.7	56-100	1.44	30	
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	1350	µg/kg	54.0	2104.7	<12.3	64.4	50-101	0.375	30	
2,3,4,6-Tetrachlorophenol	2250	µg/kg	109	2104.7	<38.5	107	48-103	8.25	30	S
2,4,5-Trichlorophenol	1970	µg/kg	54.0	2104.7	<31.2	93.6	54-98	0.469	30	
2,4,6-Trichlorophenol	1970	µg/kg	54.0	2104.7	<14.0	93.8	56-97	2.73	30	
2,4-Dichlorophenol	1790	µg/kg	54.0	2104.7	<28.3	84.9	54-99	1.34	30	
2,4-Dimethylphenol	1720	µg/kg	54.0	2104.7	<27.1	81.6	47-102	11.4	30	
2,4-Dinitrophenol	1280	µg/kg	544	2104.7	<385	60.7	10-100	7.36	30	
2,4-Dinitrotoluene (2,4-DNT)	1930	µg/kg	54.0	2104.7	<34.2	91.7	62-105	1.07	30	
2,6-Dinitrotoluene (2,6-DNT)	1890	µg/kg	54.0	2104.7	<13.4	89.8	62-103	0.0920	30	
2-Chloronaphthalene	1680	µg/kg	10.9	2104.7	<7.36	79.8	57-101	0.182	30	
2-Chlorophenol	1620	µg/kg	54.0	2104.7	<34.4	77.2	52-102	0.594	30	
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	2030	µg/kg	54.0	2104.7	<44.0	96.3	42-104	1.25	30	
2-Methylnaphthalene	1620	µg/kg	10.9	2104.7	<5.35	77.0	55-102	0.597	30	
2-Methylphenol (o-Cresol)	1550	µg/kg	54.0	2104.7	<14.2	73.5	54-103	0.0865	30	
2-Nitroaniline	1840	µg/kg	54.0	2104.7	<29.2	87.6	57-103	0.801	30	
2-Nitrophenol	2120	µg/kg	54.0	2104.7	<15.0	101	52-102	0.333	30	
3&4-Methylphenol	1610	µg/kg	54.0	2104.7	<28.7	76.6	56-103	2.54	30	
3,3'-Dichlorobenzidine	1620	µg/kg	273	2104.7	<24.6	77.1	41-91	0.306	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2303031

Work Order: HN2516055
Date Collected: NA
Date Received: NA
Run ID: 3639941

MSD	CLIENT ID: Batch QC	Lab ID: QC-2303031-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/29/25 14:41

Prep Date: 10/28/25 11:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
3-Nitroaniline	1020	µg/kg	54.0	2104.7	<30.6	48.5	35-107	3.03	30	
4-Bromophenyl phenyl ether (BDE-3)	1820	µg/kg	54.0	2104.7	<28.8	86.3	63-104	2.84	30	
4-Chloro-3-methylphenol	1670	µg/kg	54.0	2104.7	<15.0	79.1	57-103	0.251	30	
4-Chloroaniline	1770	µg/kg	109	2104.7	<26.7	84.2	32-99	0.434	30	
4-Chlorophenyl phenylether	1840	µg/kg	54.0	2104.7	<14.5	87.5	62-100	0.230	30	
4-Nitroaniline	1010	µg/kg	273	2104.7	<81.6	48.0	19-124	9.84	30	
4-Nitrophenol	1860	µg/kg	544	2104.7	<123	88.4	44-106	2.38	30	
Acenaphthene	1700	µg/kg	10.9	2104.7	<7.61	80.7	60-101	0.320	30	
Acenaphthylene	1720	µg/kg	10.9	2104.7	<9.13	81.5	59-101	1.37	30	
Acetophenone	1490	µg/kg	54.0	2104.7	<8.24	71.0	54-102	2.42	30	
Anthracene	1670	µg/kg	10.9	2104.7	<7.42	79.5	63-96	1.61	30	
Atrazine	2100	µg/kg	54.0	2104.7	<30.8	99.8	60-110	0.680	30	
Benzaldehyde	394	µg/kg	109	2104.7	<80.8	18.7	10-143	8.41	30	
Benzo(a)anthracene	1680	µg/kg	10.9	2104.7	<9.09	79.8	66-102	1.35	30	
Benzo(a)pyrene	1850	µg/kg	10.9	2104.7	<6.46	87.8	66-105	1.18	30	
Benzo(b)fluoranthene	1820	µg/kg	10.9	2104.7	<7.85	86.4	67-105	0.745	30	
Benzo(g,h,i)perylene	1820	µg/kg	10.9	2104.7	<8.07	86.4	59-110	1.32	30	
Benzo(k)fluoranthene	1660	µg/kg	10.9	2104.7	<7.97	78.9	68-106	4.98	30	
bis(2-Chloroethoxy)methane	1350	µg/kg	54.0	2104.7	<33.3	64.4	54-102	14.0	30	
bis(2-Chloroethyl) ether	1480	µg/kg	54.0	2104.7	<14.9	70.2	51-101	1.90	30	
Butyl benzyl phthalate	1810	µg/kg	109	2104.7	<65.9	86.0	59-107	0.757	30	
Caprolactam	1620	µg/kg	54.0	2104.7	<47.5	77.1	49-103	0.146	30	
Carbazole	1610	µg/kg	54.0	2104.7	<15.5	76.7	63-103	0.304	30	
Chrysene	1670	µg/kg	10.9	2104.7	<8.98	79.2	66-105	1.31	30	
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1840	µg/kg	54.0	2104.7	<43.5	87.5	63-101	0.116	30	
Dibenz(a,h) anthracene	1860	µg/kg	54.0	2104.7	<5.68	88.4	61-109	0.0472	30	
Dibenzofuran	1750	µg/kg	54.0	2104.7	<7.74	83.0	61-101	2.58	30	
Diethyl phthalate	1810	µg/kg	54.0	2104.7	<17.9	85.9	63-105	2.63	30	
Dimethyl phthalate	1790	µg/kg	54.0	2104.7	31.9	83.7	64-104	1.93	30	
Fluoranthene	1740	µg/kg	10.9	2104.7	5.70	82.4	66-105	1.41	30	
Fluorene	1740	µg/kg	10.9	2104.7	<7.64	82.8	62-101	0.0873	30	
Hexachlorobenzene	1780	µg/kg	54.0	2104.7	<15.3	84.8	61-104	3.59	30	
Hexachlorobutadiene	1850	µg/kg	54.0	2104.7	<12.4	87.9	52-99	2.99	30	
Hexachlorocyclopentadiene	1820	µg/kg	54.0	2104.7	<51.5	86.5	39-106	3.27	30	
Hexachloroethane	1630	µg/kg	54.0	2104.7	<21.8	77.4	59-99	0.0499	30	
Indeno(1,2,3-cd) pyrene	2030	µg/kg	10.9	2104.7	<7.33	96.4	57-114	0.454	30	
Isophorone	1550	µg/kg	273	2104.7	<10.3	73.5	55-101	0.971	30	
Methylphenol, Total	3160	µg/kg	67.0	4211.1	<14.2	75.0	54-103	1.33	30	
Naphthalene	1560	µg/kg	10.9	2104.7	<6.73	74.0	54-99	0.0905	30	
Nitrobenzene	1570	µg/kg	273	2104.7	<17.7	74.4	53-100	0.307	30	
n-Nitrosodi-n-propylamine	1590	µg/kg	54.0	2104.7	<8.68	75.4	52-104	0.630	30	
N-Nitrosodiphenylamine	1630	µg/kg	54.0	2104.7	<30.5	77.3	61-104	1.28	30	
Pentachlorophenol	2050	µg/kg	54.0	2104.7	<41.8	97.6	35-100	0.835	30	
Phenanthrene	1600	µg/kg	10.9	2104.7	<4.89	75.9	64-101	1.89	30	
Phenol	1360	µg/kg	54.0	2104.7	<26.4	64.5	51-107	0.165	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2303031

Work Order: HN2516055
Date Collected: NA
Date Received: NA
Run ID: 3639941

MSD	CLIENT ID: Batch QC	Lab ID: QC-2303031-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/29/25 14:41

Prep Date: 10/28/25 11:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Pyrene	1660	µg/kg	10.9	2104.7	<5.25	78.8	52-114	1.20	30	
Pyridine	1320	µg/kg	273	2104.7	<104	62.7	40-84	2.24	30	
Surr: 2,4,6-Tribromophenol	4670	µg/kg		5262.6		88.8	48-94	1.09	30	
Surr: 2-Fluorobiphenyl	4230	µg/kg		5262.6		80.3	50-103	0.140	30	
Surr: 2-Fluorophenol	3690	µg/kg		5262.6		70.1	43-105	2.10	30	
Surr: 4-Terphenyl-d14	4000	µg/kg		5262.6		76.0	55-111	2.23	30	
Surr: Nitrobenzene-d5	3870	µg/kg		5262.6		73.5	47-100	0.641	30	
Surr: Phenol-d6	3820	µg/kg		5262.6		72.5	49-110	0.631	30	

The following samples were analyzed in this batch: HN2516055-001