

DRAFT

FILL MATERIAL SAMPLING REPORT

**9337 CRESSWELL STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48213**



**NOVEMBER 20, 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 48213**

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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 9337 Cresswell Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location, as referenced to nearby roads and major geographic features, is shown on Figure 1, *Site Location Map*. Figure 2, *Site Layout*, depicts the current layout of the Site.

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

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

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

- The stratigraphy encountered during soil boring advancement of 9337 SB-01, 9337 SB-02, and 9337 SB-03 generally consisted of intermixed layers of mottled gray to brown clay and brown silty 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 0.0 to 2.1 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 brick were observed in all soil borings.
- Concentrations of arsenic and/or chromium were detected in soil samples 9337 SB-01 (1-2'), 9337 SB-02 (5-6'), and 9337 SB-03 (3-4') in excess of its respective Part 201 drinking water protection criteria (DWPC), groundwater surface water interface protection criteria (GSI PC), and/or direct contact criteria (DCC).
- Concentrations of 4,4-DDD, 4,4-DDE, 4,4-DDT, aroclor 1260, barium, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chloride, copper, dieldrin, alpha-chlordane, fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, phenanthrene, pyrene, total chlordane, and zinc were detected in the soil samples 9337 SB-01 (1-2'), 9337 SB-02 (5-6'), 9337 SB-03 (3-4'), and/or 9337 Cresswell 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 arsenic, chromium, and lead were not in excess of 40 C.F.R. § 261.24 Title 40 - *Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste*.
- VOCs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either

storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

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

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

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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 9337 Cresswell 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 14, 2025, October 8, 2025, October 28, 2025, and November 12, 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 14, 2025, October 8, 2025, October 28, 2025, and November 12, 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 9337 SB-01, 9337 SB-02, and 9337 SB-03, 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 using 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 28, 2025 and November 12, 2025, MSG mobilized to the Site to collect additional soil samples 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 five (5) soil samples, designated 9337 SB-01 (1-2'), 9337 SB-02 (5-6'), 9337 SB-03 (3-4'), 9337 Cresswell SB01 (1-2')-R, and 9337 Cresswell 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 14, 2025, October 28, 2025, and November 12, 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 9337 SB-01, 9337 SB-02, and 9337 SB-03 generally consisted of intermixed layers of mottled gray to brown clay and brown silty sand to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from

0.0 to 2.1 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 brick were observed in all borings.

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

4.2 Soil Sample Analytical Results

A total of four (4) soil samples, designated 9337 SB-01 (1-2'), 9337 SB-02 (5-6'), 9337 SB-03 (3-4'), and 9337 Cresswell 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 ($\mu\text{g}/\text{kg}$)
Arsenic	7440-38-2	9337 SB-01 (1-2') 9337 SB-02 (5-6') 9337 SB-03 (3-4')	DWPC ² / 4,600 GSIPC ³ / 4,600 DCC ⁴ / 7,600	8,480
Chromium (Total)	7440-47-3	9337 SB-01 (1-2') 9337 SB-02 (5-6') 9337 SB-03 (3-4')	GSIPC / 3,300	24,300

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

²DWPC – Drinking Water Protection Criteria

³GSIPC – Groundwater Surface Water Interface Protection Criteria

⁴DCC – Direct Contact Criteria

4.3 TCLP Analytical Results

Arsenic, chromium, and lead were analyzed following leach testing using USEPA method EPA 6020 B. Laboratory results are summarized and compared to 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261 - Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste in *Table 2, TCLP Analytical Detection Summary Table*. Upon comparison, the laboratory analytical results following TCLP testing were 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. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

5.0 FINDINGS

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

- The stratigraphy encountered during soil boring advancement of 9337 SB-01, 9337 SB-02, and 9337 SB-03 generally consisted of intermixed layers of mottled gray to brown clay and brown silty sand to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 2.1 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 brick were observed in all soil borings.
- Concentrations of arsenic and/or chromium were detected in soil samples 9337 SB-01 (1-2'), 9337 SB-02 (5-6'), and 9337 SB-03 (3-4') in excess of its respective Part 201 DWPC, GSIPC, and/or DCC.
- Concentrations of 4,4-DDD, 4,4-DDE, 4,4-DDT, aroclor 1260, barium, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chloride, copper, dieldrin, alpha-chlordane, fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, phenanthrene, pyrene, total chlordane, and zinc were detected in the soil samples 9337 SB-01 (1-2'), 9337 SB-02 (5-6'), 9337 SB-03 (3-4'), and/or 9337 Cresswell 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 arsenic, chromium, and lead were not in excess of 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste.
- VOCs 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. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

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

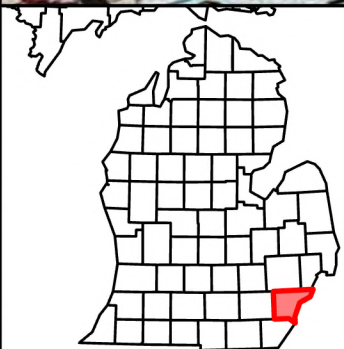
MSG warrants that no substantive information or documentation was deleted, omitted, or changed that would otherwise cause the MSG to reach a different conclusion. Furthermore, MSG understands that the COD and its agencies and authorities may rely upon the overall completeness, accuracy, and conclusions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

FIGURES





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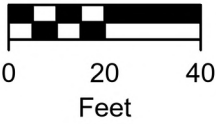
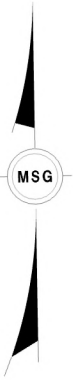
★ Site Location



FIGURE 1
 SITE LOCATION

9337 Cresswell, 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

9337 Cresswell, Detroit, MI

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



SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 Units: µg/kg	Volatile Organic Compounds (VOCs)	Semivolatile Organic Compounds (SVOCs)								Michigan 10 Metals										Pesticides/Herbicides						Polychlorinated Biphenyls (PCBs)	Inorganic Anions/Ions			
		Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Fluoranthene	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	Dieldrin	alpha-Chlordane	Chlordane	Aroclor 1260	Chloride		
		56-55-3	205-99-2	207-08-9	191-24-2	50-32-8	206-44-0	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	72559	50-29-3	60-57-1	NA	57-74-9	11096-82-5	16887006		
		Statewide Default Background Levels	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	NA	NA	NA	NA	NA	
		Drinking Water Protection Criteria (DWPC)	NLL	NLL	NLL	NLL	NLL	7.3E+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	NLL	NA	NLL	NA	5.00E+06	
		Groundwater Surface Water Interface Protection Criteria (GSIPC)	NLL	NLL	NLL	NLL	NLL	5,500	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	NLL	NA	NLL	NA	(X)	
		Soil Volatilization to Indoor Air Inhalation (SVIIC)	NLV	ID	NLV	NLV	NLV	1.0E+09 (D)	NLV	2.8E+06	1.0E+09 (D)	NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV	NLV	NLV	NLV	1.40E+05	NA	1.10E+07	NA	NLV	
		Soil Volatilization to Indoor Air Pathway (SVIAP)	1.6E+05 (MM)	NA	NA	NA	NA	NA	1,700	2.5E+07	NA	NA	NA	--	NA	NA	NA	22 (M)	NA	NA	NA	NLV	NA	--	770	NA	13,000	--	--	
		Infinite Source Volatile Soil Inhalation Criteria (VSIC)	NLV	ID	NLV	NLV	NLV	7.4E+08	NLV	1.6E+05	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV	19000	NA	1.20E+06	NA	NLV	
		Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)	NLV	ID	NLV	NLV	NLV	7.4E+08	NLV	1.6E+05	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV	1900	NA	1.20E+06	NA	NLV	
		Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)	NLV	ID	NLV	NLV	NLV	7.4E+08	NLV	1.6E+05	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV	19000	NA	1.20E+06	NA	NLV	
		Particulate Soil Inhalation Criteria (PSIC)	ID	ID	ID	8.0E+08	1.5E+06	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	3.20E+07	3.20E+07	6.8E+05	NA	3.1E+07	NA	ID	
		Direct Contact Criteria (DCC)	20,000	20,000	2.0E+05	2.5E+06	2,000	4.6E+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	45,000	57,000	1,100	NA	31,000	NA	5.0E+5 (F)	
Soil Saturation Concentration Screening Levels (C _{sat})	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	2.7E-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--		
SAMPLE ID	DEPTH	SAMPLE DATE																												
9337 SB01	1-2	8/14/2025	ND	<1,900	<1,900	<1,900	<1,900	<1,900	<1,900	<1,900	<1,900	<1,900	8,480	80,800	<1,240	24,300	18,400	13,400	52.6	<3,090	<3,090	56,500	2.9	18	8.6	3.2	2.4	2.4	130	64,200
9337 SB02	5-6	8/14/2025	ND	<1,200	<1,200	<1,200	<1,200	<1,200	<1,200	<1,200	<1,200	<1,200	7,160	118,000	<1,490	20,800	21,500	154,000	64	<3,720	<3,720	111,000	<6.3	9.6	<6.3	<6.3	<6.3	<31	<120	27,200
9337 SB03	3-5	8/14/2025	ND	<1,200	<1,200	<1,200	<1,200	<1,200	<1,200	<1,200	<1,200	<1,200	6,940	57,600	<1,210	18,800	17,400	35,300	21.6	<3,020	<3,020	55,700	<5.9	<5.9	<5.9	<5.9	<5.9	<29	<110	49,600
9337 Cresswell SB01 - R	1-2	10/28/2025	NS	138	187	81.4	130	147	236	138	81.4	195	NS	NS	NS	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 GSIPC
Exceeds Applicable Soil Vapor Inhalation screening level
Exceeds Two or More DWPC, GSIPC, and/or Applicable Soil Vapor Inhalation screening levels
Exceeds PSIC, DCC, and/or Csat, likely exceeds others
ND = Not Detected above laboratory reporting limits
NS = Not Sampled or Not Analyzed
NR = Not Reported (Data missing from provided report)
Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, updated October 12, 2023
VIAP Screening Levels and notes from EGLE Guidance Document For The Vapor Intrusion Pathway, Appendix D.1 Vapor Intrusion Screening Values, May 2013, updated February 26, 2024

Table 2
TCLP Analytical Detection Summary

Detroit Backfill Sampling
9337 Cresswell, Detroit, Michigan

40 C.F.R. § 261.24 Code of Federal Regulations Title 40 - Protection of Environment Chapter I - Environmental Protection Agency Subchapter I - Solid Wastes Part 261- Identification and Listing of Hazardous Waste Subpart C - Characteristics of Hazardous Waste <i>Units: mg/L</i>		TCLP Metals		
		Arsenic	Chromium	Lead
Maximum Concentration of Contaminants for the Toxicity Characteristic		5.00	5.00	5.00
SAMPLE ID	SAMPLE DATE			
9337 Cresswell SB01 TCLP	10/8/2025	<0.0499	<0.0499	NS
9337 Cresswell SB02 (5-6')-R	11/12/2025	NS	NS	<0.00220

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: 08/14/2025	Day: Thursday	Temp: 76° F	(AM) N/A	(PM)
MSG Personnel: WRD, ZRG, JDF		Cloud Cover: 0%	(AM) N/A	(PM)
		Precip.: None	(AM) N/A	(PM)
Personnel: MSG				
MSG Hours On-Site: 1.0 hours				

Contractors Information		
Contractor: MSG	No. Men and Type: 3; Helper/Geologist/Driller	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:
0929 – ZRG & WRD onsite (9337 Cresswell St) 0930 – Unloaded equipment and checked boring locations 0931– Began drilling SB01 0939 – Finished drilling SB01 0940 – Began drilling SB02 0948 – Finished drilling SB02 0949 – Began drilling SB03 0955 – Finished drilling SB03 1005 – Sampled 9337 SB01 (1-2') 1010 – Sampled 9337 SB02 (5-6') 1015 – Sampled 9337 SB03 (3-4') 1020 – Packed up equipment 1029 – MSG off site

Supporting Documentation					
Photograph Taken	Yes ☒	No ☐	Samples Collected	Yes ☒	No ☐
Photo Log Attached	☒	☐	COC Attached	☒	☐
Boring/MW Logs	☒	☐	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>N/A</u> (AM) <u>50 ° F</u> (PM)
MSG Personnel: <u>SRK, JF</u>	Cloud Cover: <u>N/A</u> (AM) <u>0%</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:
1235 – MSG (SRK, JF) onsite (9337 Cresswell) 1238 – Attempted to locate previous boring locations. Marked out new boring location. 1254 – Began drilling SB01 TCLP 1256 – Finished drilling SB01 TCLP 1305 – Sampled 9337 Cresswell SB01 TCLP 1315 – Collected GPS points 1320 – Packed up equipment 1325 – 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: 54 ° F	(AM)	N/A	(PM)
MSG Personnel: WRD, BSM		Cloud Cover: 0%	(AM)	N/A	(PM)
		Precip.: N/A	(AM)	N/A	(PM)
Personnel: MSG					
MSG Hours On-Site: ~ 0.5 hours					
Contractors Information					
Contractor: MSG		No. Men and Type: 2; Operator/Geologist		Equipment Type: Geoprobe 7822DT	
Summary of Work Performed:					
- Advanced one (1) onsite soil borings to a maximum depth of 2 feet below ground surface (bgs) - Collected soil sample from soil boring (from the interval 1-2' to analyze for SVOCs).					
Field Notes:					
1230 – MSG (WRD, BSM) onsite (9337 Cresswell) 1233 – Attempted to locate previous boring locations. Marked out new boring location. 1238 – Began drilling SB01 (1-2')-R 1249 – Finished drilling SB01 (1-2')-R 1252– Sampled 9337 Cresswell SB01 (1-2')-R 1253 – Packed up equipment 1259 – 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



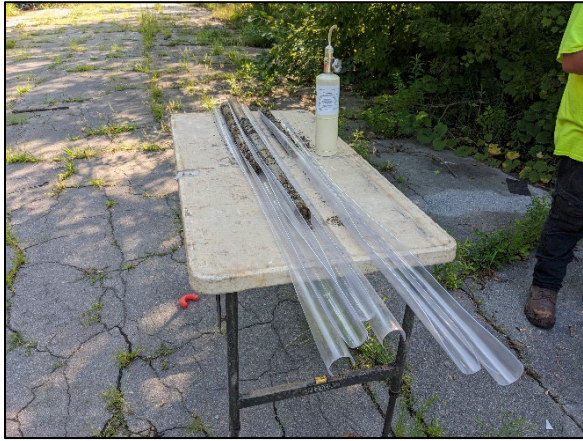


Photo 1: View of soil recovery at the time of initial soil boring activities



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



Photo 3: View of TCLP soil boring location



Photo 4: View of soil recovery at the time of TCLP sampling



Photo 5: View of Site at the time of TCLP soil boring activities



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



Photo 7: View of soil recovery at the time of supplemental soil sampling activities



Photo 8: Viewing supplemental soil sample boring location

APPENDIX D

SOIL BORING LOGS





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

BOREHOLE NUMBER SB01

Sheet 1 of 1

CLIENT City of Detroit
PROJECT NUMBER DETR0060.BFS21
DATE STARTED 08-14-2025 **COMPLETED** 08-14-2025
DRILLING CONTRACTOR MSG
DRILLING METHOD Direct Push
EQUIPMENT Geoprobe 7822DT **Operator** JDF

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 9337 Cresswell, Detroit, MI
POSITION
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
LOGGED BY WRD **CHECKED BY** PDH
REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
5	ES	38		Intermixed layers of disturbed [Brown & Gray Mottled CLAY] & [Brown Silty SAND, some Concrete & Brick] transitioning back and forth about every 4", with Brown & Gray Mottled CLAY at 6'	0.1 0.6 0.4 0.7 0.2 0.3	Collected soil sample 9337 SB01 (1-2) at 10:05
6.0				Terminated at 6.00 ft.		
10						
15						
20						

LEGEND:

- ▽ AT TIME OF DRILLING
▼ AT END OF DRILLING
▽ AFTER DRILLING



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

BOREHOLE NUMBER SB03

Sheet 1 of 1

CLIENT City of Detroit
PROJECT NUMBER DETR0060.BFS21
DATE STARTED 08-14-2025 **COMPLETED** 08-14-2025
DRILLING CONTRACTOR MSG
DRILLING METHOD Direct Push
EQUIPMENT Geoprobe 7822DT **Operator** JDF

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 9337 Cresswell, Detroit, MI
POSITION
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
LOGGED BY WRD **CHECKED BY** PDH
REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
5	ES	25		Mixed Silty CLAY, with Sand, Gravel, Brick & Concrete Debris, and Organics; moist	0.0	
					0.0	
					0.4	
					1.1	Collected soil sample 9337 SB03 (3-4) at 10:15
					0.6	
					0.2	
6.0				Terminated at 6.00 ft.		
10						
15						
20						

LEGEND:

- ▽ AT TIME OF DRILLING
▼ AT END OF DRILLING
▽ AFTER DRILLING

APPENDIX E
LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

CERTIFICATE OF ANALYSIS

Work Order

HN2511559

Client

The Mannik & Smith Group, Inc.

Project

9337_Cresswell

Project Date

August 15, 2025

Reporting Contact

Ryan Montri



right solutions.
right partner.

September 09, 2025

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

Work Order: **HN2511559**

Re: **9337_Cresswell**

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: 9337_Cresswell

Work Order: HN2511559
Date Received: 15-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 15-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.

Inorganics

EPA 9056A-S (High)

Run ID: 3416753

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

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

Organics

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

Run ID: 3438666

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

The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: bromomethane, chloromethane, chloroethane, dichlorodifluoromethane

Metals

EPA 6020B-3050B-S

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, Zn Batch 2170135

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, Zn Batch 2170135

The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Cr, Pb Batch 2170135

The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: Pb Batch 2170135

The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Cr Batch 2170135

HN2511559-001: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511559-001: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511559-001: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511559-002: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511559-002: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511559-002: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511559-003: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511559-003: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511559-003: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

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: 9337 SB01 (1-2)	Lab ID: HN2511559-001
----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	8.48		3.09	mg/kg	EPA 6020B
Barium	80.8		3.09	mg/kg	EPA 6020B
Chloride	64.2		11.6	mg/kg	EPA 9056A
Chromium	24.3		3.09	mg/kg	EPA 6020B
Copper	18.4		3.09	mg/kg	EPA 6020B
Lead	13.4		3.09	mg/kg	EPA 6020B
Mercury	0.0526		0.0204	mg/kg	EPA 7471B
Percent Moisture	14.0		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	56.5		6.18	mg/kg	EPA 6020B

CLIENT ID: 9337 SB02 (5-6)	Lab ID: HN2511559-002
----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	7.16		3.72	mg/kg	EPA 6020B
Barium	118		3.72	mg/kg	EPA 6020B
Chloride	27.2		12.6	mg/kg	EPA 9056A
Chromium	20.8		3.72	mg/kg	EPA 6020B
Copper	21.5		3.72	mg/kg	EPA 6020B
Lead	154		3.72	mg/kg	EPA 6020B
Mercury	0.0640		0.0244	mg/kg	EPA 7471B
Percent Moisture	20.3		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	111		7.44	mg/kg	EPA 6020B

CLIENT ID: 9337 SB03 (3-5)	Lab ID: HN2511559-003
----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	6.94		3.02	mg/kg	EPA 6020B
Barium	57.6		3.02	mg/kg	EPA 6020B
Chloride	49.6		11.7	mg/kg	EPA 9056A
Chromium	18.8		3.02	mg/kg	EPA 6020B
Copper	17.4		3.02	mg/kg	EPA 6020B
Lead	35.3		3.02	mg/kg	EPA 6020B
Mercury	0.0216		0.0200	mg/kg	EPA 7471B
Percent Moisture	15.2		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A

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: 9337 SB03 (3-5)

Lab ID: HN2511559-003

Analyte	Results	Flag	MRL	Units	Method
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	55.7		6.04	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 9337_Cresswell
Workorder: HN2511559

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511559-001	9337 SB01 (1-2)	SOIL/SOLID	08/14/25 10:05	08/15/25 08:00
HN2511559-002	9337 SB02 (5-6)	SOIL/SOLID	08/14/25 10:10	08/15/25 08:00
HN2511559-003	9337 SB03 (3-5)	SOIL/SOLID	08/14/25 10:15	08/15/25 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	9337_Cresswell					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	9337 SB01 (1-2)	8/14/25	1005	Soil	MGTH	3	X	X	X	X	X	X	X				
2	9337 SB02 (S-6)	I	1010	Soil	I	3	X	X	X	X	X	X	X				
3	9337 SB03 (3-S)	I	1015	Soil	I	3	X	X	X	X	X	X	X				
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign WILEY DAUENPORT		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:			
Relinquished by: WILEY		Date: 8/14/25	Time: 1420	Received by: [Signature]		Notes: Quote# HN-061825-M&S-MA					
Relinquished by: [Signature]		Date: 8/14/25	Time: 1709	Received by (Laboratory): QS		Cooler Temp. 2.4°C IR6		QC Package: (Check Box Below)			
Logged by (Laboratory): BC		Date: 8/15/25	Time: 15:15	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
HN2511559

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:

8/15/25 08:00

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°C

Thermometer(s):

726

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

Soil

Cooler(s)/Kit(s):

1

Date/Time sample(s) sent to storage:

8/15/25 15:20

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: 9337_Cresswell

Work Order: HN2511559

Sample Name: 9337 SB01 (1-2) **Date Collected:** 08/14/25
Laboratory Code: HN2511559-001 **Date Received:** 08/15/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2172988		3420581	Everett Chudy
EPA 6020B	EPA 3050B	001-AC	2170135	Weston Kotecki	3418166	Hunter Johnson
EPA 7471B	Method	001-AC	2172935	Maxx Richey	3422787	Denise Coffey
EPA 8081B		001-AD			3475771	Bill Carey
EPA 8082A		001-AD			3475771	Bill Carey
EPA 8151A		001-AD			3475771	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2163473	Jonathan Vazquez	3438666	Nathan Jenkins
EPA 8270E		001-AD			3475771	Bill Carey
EPA 9056A	EPA 9056A	001-AC	2167783	Quoc Nguyen	3416753	Riley Miller

Sample Name: 9337 SB02 (5-6) **Date Collected:** 08/14/25
Laboratory Code: HN2511559-002 **Date Received:** 08/15/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2172988		3420581	Everett Chudy
EPA 6020B	EPA 3050B	002-AC	2170135	Weston Kotecki	3418166	Hunter Johnson
EPA 7471B	Method	002-AC	2172935	Maxx Richey	3422787	Denise Coffey
EPA 8081B		002-AD			3475771	Bill Carey
EPA 8082A		002-AD			3475771	Bill Carey
EPA 8151A		002-AD			3475771	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2163473	Jonathan Vazquez	3438666	Nathan Jenkins
EPA 8270E		002-AD			3475771	Bill Carey
EPA 9056A	EPA 9056A	002-AC	2167783	Quoc Nguyen	3416753	Riley Miller

Sample Name: 9337 SB03 (3-5) **Date Collected:** 08/14/25
Laboratory Code: HN2511559-003 **Date Received:** 08/15/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AC	2172988		3420581	Everett Chudy

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 9337_Cresswell

Work Order: HN2511559

Sample Name: 9337 SB03 (3-5)
Laboratory Code: HN2511559-003
Sample Matrix: SOIL/SOLID

Date Collected: 08/14/25
Date Received: 08/15/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3050B	003-AC	2170135	Weston Kotecki	3418166	Hunter Johnson
EPA 7471B	Method	003-AC	2172935	Maxx Richey	3422787	Denise Coffey
EPA 8081B		003-AD			3475771	Bill Carey
EPA 8082A		003-AD			3475771	Bill Carey
EPA 8151A		003-AD			3475771	Bill Carey
EPA 8260D	EPA 5035A	003-AA	2163473	Jonathan Vazquez	3438666	Nathan Jenkins
EPA 8270E		003-AD			3475771	Bill Carey
EPA 9056A	EPA 9056A	003-AC	2167783	Quoc Nguyen	3416753	Riley Miller

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 9337_Cresswell
Matrix: SOIL/SOLID

Work Order: HN2511559
Date Collected: 08/14/25 10:05
Date Received: 08/15/25 08:00

CLIENT ID: 9337 SB01 (1-2)	Lab ID: HN2511559-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	14.0		%	0.1	1	08/21/25 14:45	NA
Chloride	EPA 9056A	64.2		mg/kg	11.6	1	08/19/25 18:09	08/19/25 13:22
Metals								
Arsenic	EPA 6020B	8.48		mg/kg	3.09	10	08/20/25 22:47	08/20/25 10:26
Barium	EPA 6020B	80.8		mg/kg	3.09	10	08/20/25 22:47	08/20/25 10:26
Cadmium	EPA 6020B	ND		mg/kg	1.24	10	08/20/25 22:47	08/20/25 10:26
Chromium	EPA 6020B	24.3		mg/kg	3.09	10	08/20/25 22:47	08/20/25 10:26
Copper	EPA 6020B	18.4		mg/kg	3.09	10	08/20/25 22:47	08/20/25 10:26
Lead	EPA 6020B	13.4		mg/kg	3.09	10	08/20/25 22:47	08/20/25 10:26
Selenium	EPA 6020B	ND		mg/kg	3.09	10	08/20/25 22:47	08/20/25 10:26
Silver	EPA 6020B	ND		mg/kg	3.09	10	08/20/25 22:47	08/20/25 10:26
Zinc	EPA 6020B	56.5		mg/kg	6.18	10	08/20/25 22:47	08/20/25 10:26
Mercury	EPA 7471B	0.0526		mg/kg	0.0204	1	08/22/25 10:06	08/21/25 15:36
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/09/25 08:25	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/09/25 08:25	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/09/25 08:25	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/09/25 08:25	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	117	1	08/26/25 16:58	08/15/25 16:04
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	117	1	08/26/25 16:58	08/15/25 16:04
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	117	1	08/26/25 16:58	08/15/25 16:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 9337_Cresswell
Matrix: SOIL/SOLID

Work Order: HN2511559
Date Collected: 08/14/25 10:05
Date Received: 08/15/25 08:00

CLIENT ID: 9337 SB01 (1-2)	Lab ID: HN2511559-001
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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	35.1	1	08/26/25 16:58	08/15/25 16:04
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	117	1	08/26/25 16:58	08/15/25 16:04
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	117	1	08/26/25 16:58	08/15/25 16:04
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	70.2	1	08/26/25 16:58	08/15/25 16:04
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	234	1	08/26/25 16:58	08/15/25 16:04
2-Hexanone	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Acetone	EPA 8260D	ND		µg/kg	117	1	08/26/25 16:58	08/15/25 16:04
Benzene	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Bromochloromethane	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Bromodichloromethane	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Bromoform	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Carbon disulfide	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Carbon tetrachloride	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Chlorobenzene	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Chlorodibromomethane	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	117	1	08/26/25 16:58	08/15/25 16:04
Chloroform	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	70.2	1	08/26/25 16:58	08/15/25 16:04
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Cyclohexane	EPA 8260D	ND		µg/kg	117	1	08/26/25 16:58	08/15/25 16:04
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	117	1	08/26/25 16:58	08/15/25 16:04
Ethylbenzene	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Isopropylbenzene	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 9337_Cresswell
Matrix: SOIL/SOLID

Work Order: HN2511559
Date Collected: 08/14/25 10:05
Date Received: 08/15/25 08:00

CLIENT ID: 9337 SB01 (1-2)	Lab ID: HN2511559-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	70.2	1	08/26/25 16:58	08/15/25 16:04
Methyl acetate	EPA 8260D	ND		µg/kg	293	1	08/26/25 16:58	08/15/25 16:04
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	117	1	08/26/25 16:58	08/15/25 16:04
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	117	1	08/26/25 16:58	08/15/25 16:04
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Methylcyclohexane	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	293	1	08/26/25 16:58	08/15/25 16:04
o-Xylene	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Styrene	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Toluene	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Total Xylene	EPA 8260D	ND		µg/kg	105	1	08/26/25 16:58	08/15/25 16:04
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	35.1	1	08/26/25 16:58	08/15/25 16:04
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	104		%REC	80-120	1	08/26/25 16:58	08/15/25 16:04
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	08/26/25 16:58	08/15/25 16:04
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	87.2		%REC	72-120	1	08/26/25 16:58	08/15/25 16:04
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	98.6		%REC	80-120	1	08/26/25 16:58	08/15/25 16:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 9337_Cresswell
Matrix: SOIL/SOLID

Work Order: HN2511559
Date Collected: 08/14/25 10:10
Date Received: 08/15/25 08:00

CLIENT ID: 9337 SB02 (5-6)	Lab ID: HN2511559-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	20.3		%	0.1	1	08/21/25 14:45	NA
Chloride	EPA 9056A	27.2		mg/kg	12.6	1	08/19/25 18:17	08/19/25 13:22
Metals								
Arsenic	EPA 6020B	7.16		mg/kg	3.72	10	08/20/25 22:49	08/20/25 10:26
Barium	EPA 6020B	118		mg/kg	3.72	10	08/20/25 22:49	08/20/25 10:26
Cadmium	EPA 6020B	ND		mg/kg	1.49	10	08/20/25 22:49	08/20/25 10:26
Chromium	EPA 6020B	20.8		mg/kg	3.72	10	08/20/25 22:49	08/20/25 10:26
Copper	EPA 6020B	21.5		mg/kg	3.72	10	08/20/25 22:49	08/20/25 10:26
Lead	EPA 6020B	154		mg/kg	3.72	10	08/20/25 22:49	08/20/25 10:26
Selenium	EPA 6020B	ND		mg/kg	3.72	10	08/20/25 22:49	08/20/25 10:26
Silver	EPA 6020B	ND		mg/kg	3.72	10	08/20/25 22:49	08/20/25 10:26
Zinc	EPA 6020B	111		mg/kg	7.44	10	08/20/25 22:49	08/20/25 10:26
Mercury	EPA 7471B	0.0640		mg/kg	0.0244	1	08/22/25 10:08	08/21/25 15:36
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/09/25 08:25	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/09/25 08:25	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/09/25 08:25	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/09/25 08:25	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	128	1	08/26/25 17:14	08/15/25 16:04
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	128	1	08/26/25 17:14	08/15/25 16:04
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	128	1	08/26/25 17:14	08/15/25 16:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 9337_Cresswell
Matrix: SOIL/SOLID

Work Order: HN2511559
Date Collected: 08/14/25 10:10
Date Received: 08/15/25 08:00

CLIENT ID: 9337 SB02 (5-6) **Lab ID: HN2511559-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	128	1	08/26/25 17:14	08/15/25 16:04
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	128	1	08/26/25 17:14	08/15/25 16:04
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	76.9	1	08/26/25 17:14	08/15/25 16:04
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	256	1	08/26/25 17:14	08/15/25 16:04
2-Hexanone	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Acetone	EPA 8260D	ND		µg/kg	128	1	08/26/25 17:14	08/15/25 16:04
Benzene	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Bromochloromethane	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Bromodichloromethane	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Bromoform	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Carbon disulfide	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Carbon tetrachloride	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Chlorobenzene	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Chlorodibromomethane	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	128	1	08/26/25 17:14	08/15/25 16:04
Chloroform	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	76.9	1	08/26/25 17:14	08/15/25 16:04
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Cyclohexane	EPA 8260D	ND		µg/kg	128	1	08/26/25 17:14	08/15/25 16:04
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	128	1	08/26/25 17:14	08/15/25 16:04
Ethylbenzene	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Isopropylbenzene	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 9337_Cresswell
Matrix: SOIL/SOLID

Work Order: HN2511559
Date Collected: 08/14/25 10:10
Date Received: 08/15/25 08:00

CLIENT ID: 9337 SB02 (5-6)	Lab ID: HN2511559-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	76.9	1	08/26/25 17:14	08/15/25 16:04
Methyl acetate	EPA 8260D	ND		µg/kg	320	1	08/26/25 17:14	08/15/25 16:04
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	128	1	08/26/25 17:14	08/15/25 16:04
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	128	1	08/26/25 17:14	08/15/25 16:04
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Methylcyclohexane	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	320	1	08/26/25 17:14	08/15/25 16:04
o-Xylene	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Styrene	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Toluene	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Total Xylene	EPA 8260D	ND		µg/kg	115	1	08/26/25 17:14	08/15/25 16:04
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	38.5	1	08/26/25 17:14	08/15/25 16:04
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	103		%REC	80-120	1	08/26/25 17:14	08/15/25 16:04
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	08/26/25 17:14	08/15/25 16:04
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	89.4		%REC	72-120	1	08/26/25 17:14	08/15/25 16:04
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	08/26/25 17:14	08/15/25 16:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 9337_Cresswell
Matrix: SOIL/SOLID

Work Order: HN2511559
Date Collected: 08/14/25 10:15
Date Received: 08/15/25 08:00

CLIENT ID: 9337 SB03 (3-5)	Lab ID: HN2511559-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	15.2		%	0.1	1	08/21/25 14:45	NA
Chloride	EPA 9056A	49.6		mg/kg	11.7	1	08/19/25 18:25	08/19/25 13:22
Metals								
Arsenic	EPA 6020B	6.94		mg/kg	3.02	10	08/20/25 22:51	08/20/25 10:26
Barium	EPA 6020B	57.6		mg/kg	3.02	10	08/20/25 22:51	08/20/25 10:26
Cadmium	EPA 6020B	ND		mg/kg	1.21	10	08/20/25 22:51	08/20/25 10:26
Chromium	EPA 6020B	18.8		mg/kg	3.02	10	08/20/25 22:51	08/20/25 10:26
Copper	EPA 6020B	17.4		mg/kg	3.02	10	08/20/25 22:51	08/20/25 10:26
Lead	EPA 6020B	35.3		mg/kg	3.02	10	08/20/25 22:51	08/20/25 10:26
Selenium	EPA 6020B	ND		mg/kg	3.02	10	08/20/25 22:51	08/20/25 10:26
Silver	EPA 6020B	ND		mg/kg	3.02	10	08/20/25 22:51	08/20/25 10:26
Zinc	EPA 6020B	55.7		mg/kg	6.04	10	08/20/25 22:51	08/20/25 10:26
Mercury	EPA 7471B	0.0216		mg/kg	0.0200	1	08/22/25 10:09	08/21/25 15:36
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/09/25 08:25	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/09/25 08:25	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/09/25 08:25	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/09/25 08:25	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	135	1	08/26/25 17:30	08/15/25 16:04
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	135	1	08/26/25 17:30	08/15/25 16:04
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	135	1	08/26/25 17:30	08/15/25 16:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 9337_Cresswell
Matrix: SOIL/SOLID

Work Order: HN2511559
Date Collected: 08/14/25 10:15
Date Received: 08/15/25 08:00

CLIENT ID: 9337 SB03 (3-5) **Lab ID: HN2511559-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	135	1	08/26/25 17:30	08/15/25 16:04
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	135	1	08/26/25 17:30	08/15/25 16:04
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	81.2	1	08/26/25 17:30	08/15/25 16:04
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	271	1	08/26/25 17:30	08/15/25 16:04
2-Hexanone	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Acetone	EPA 8260D	ND		µg/kg	135	1	08/26/25 17:30	08/15/25 16:04
Benzene	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Bromochloromethane	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Bromodichloromethane	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Bromoform	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Carbon disulfide	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Carbon tetrachloride	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Chlorobenzene	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Chlorodibromomethane	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	135	1	08/26/25 17:30	08/15/25 16:04
Chloroform	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	81.2	1	08/26/25 17:30	08/15/25 16:04
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Cyclohexane	EPA 8260D	ND		µg/kg	135	1	08/26/25 17:30	08/15/25 16:04
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	135	1	08/26/25 17:30	08/15/25 16:04
Ethylbenzene	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Isopropylbenzene	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 9337_Cresswell
Matrix: SOIL/SOLID

Work Order: HN2511559
Date Collected: 08/14/25 10:15
Date Received: 08/15/25 08:00

CLIENT ID: 9337 SB03 (3-5)	Lab ID: HN2511559-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	81.2	1	08/26/25 17:30	08/15/25 16:04
Methyl acetate	EPA 8260D	ND		µg/kg	338	1	08/26/25 17:30	08/15/25 16:04
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	135	1	08/26/25 17:30	08/15/25 16:04
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	135	1	08/26/25 17:30	08/15/25 16:04
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Methylcyclohexane	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	338	1	08/26/25 17:30	08/15/25 16:04
o-Xylene	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Styrene	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Toluene	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Total Xylene	EPA 8260D	ND		µg/kg	122	1	08/26/25 17:30	08/15/25 16:04
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	40.6	1	08/26/25 17:30	08/15/25 16:04
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	108		%REC	80-120	1	08/26/25 17:30	08/15/25 16:04
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	102		%REC	80-120	1	08/26/25 17:30	08/15/25 16:04
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	90.8		%REC	72-120	1	08/26/25 17:30	08/15/25 16:04
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	104		%REC	80-120	1	08/26/25 17:30	08/15/25 16:04



November 19, 2025

Service Request No:R2510177

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

Laboratory Results for: 9337_Cresswell

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 **R2510177**.

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

ADDRESS

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

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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: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
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: 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.

Method 8270E, 891756: The reporting limit is elevated for one or more analytes. The sample extract was diluted prior to instrumental analysis due to relatively high levels of non-target background components. The extract was highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument. The result(s) are flagged to indicate the matrix interference.

Semivolatile GC:

Method 8081B, 09/04/2025: 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 8151A, 09/04/2025: 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.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by 

Date 11/19/2025

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: 9337 SB01 (1-2)	Lab ID: R2510177-001
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	2.9	P	0.97	1.9	ug/Kg	8081B
4,4'-DDE	18		0.97	1.9	ug/Kg	8081B
4,4'-DDT	8.6	P	0.97	1.9	ug/Kg	8081B
alpha-Chlordane	2.4		0.97	1.9	ug/Kg	8081B
Aroclor 1260	130		20	38	ug/Kg	8082A
Benz(a)anthracene	410	J	280	1900	ug/Kg	8270E
Benzo(b)fluoranthene	500	J	320	1900	ug/Kg	8270E
Chrysene	410	J	280	1900	ug/Kg	8270E
Dieldrin	3.2		0.97	1.9	ug/Kg	8081B
Fluoranthene	820	J	480	1900	ug/Kg	8270E
Pyrene	680	J	320	1900	ug/Kg	8270E
Total Solids	86.0				Percent	ALS SOP

CLIENT ID: 9337 SB02 (3-4)	Lab ID: R2510177-002
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDE	9.6		3.2	6.3	ug/Kg	8081B
Total Solids	79.7				Percent	ALS SOP

CLIENT ID: 9337 SB03 (5-6)	Lab ID: R2510177-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	84.8				Percent	ALS SOP



Sample Receipt Information

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: 9337_Cresswell

Service Request:R2510177

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2510177-001	9337 SB01 (1-2)	8/14/2025	1005
R2510177-002	9337 SB02 (3-4)	8/14/2025	1010
R2510177-003	9337 SB03 (5-6)	8/14/2025	1015

ALS Group USA, Corp.

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



right solutions.
right partner.

Subcontract Chain of Custody**SAMPLING STATE:****COC ID: HN2511559****Subcontract To:**

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

Due Date: 08/26/2025

Analysis Report Format: ALS Standard – Level II

Electronic Data Deliverable:

Customer Information		Project Information		Parameter/Method Request for Analysis						
Purchase Order		Project Name	9337_Cresswell	A	EPA 8081B-3546-S (INT SUB)					
Work Order	HN2511559			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
HN2511559-001	9337 SB01 (1-2)	Soil/Solid	08/14/2025 10:05	001-AD	x	x	x	x						
HN2511559-002	9337 SB02 (5-6)	Soil/Solid	08/14/2025 10:10	002-AD	x	x	x	x						
HN2511559-003	9337 SB03 (3-5)	Soil/Solid	08/14/2025 10:15	003-AD	x	x	x	x						

Relinquished by	Date Time	Received by	Date Time	Cooler ID's _____ _____ _____
_____	_____	<i>Vann</i>	8/20/25 9:30	
Relinquished by	Date Time	Received by	Date Time	
_____	_____	_____	_____	
Sampled by	_____	_____	_____	





Cooler Receipt and Preservation Check Form

R2510177

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ALS Environmental - Holland
9337_Cresswell



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>(CNA)</u>

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

Temp (°C)	<u>4.7</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: 16:30 by: MM

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? (YES) NO

10. Did all bottle labels and tags agree with custody papers? (YES) NO

11. Were correct containers used for the tests indicated? (YES) NO

12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (NA)

13. Were dissolved metals filtered in the field? YES NO (NA)

14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (NA)

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH	Yes	No						
≤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: 062325-152

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

ALS Environmental—Rochester Laboratory

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

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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: 9337_Cresswell

Service Request: R2510177

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.
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Analyst Summary report

Client: ALS Environmental - US
Project: 9337_Cresswell/

Service Request: R2510177

Sample Name: 9337 SB01 (1-2)
Lab Code: R2510177-001
Sample Matrix: Soil

Date Collected: 08/14/25
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: 9337 SB02 (3-4)
Lab Code: R2510177-002
Sample Matrix: Soil

Date Collected: 08/14/25
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: 9337 SB03 (5-6)
Lab Code: R2510177-003
Sample Matrix: Soil

Date Collected: 08/14/25
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

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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: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: 08/14/25 10:05
Date Received: 08/20/25 09:30

Sample Name: 9337 SB01 (1-2)
Lab Code: R2510177-001

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-Methylnaphthalene	350 U	1900	350	5	08/28/25 18:47	8/27/25	
1,2,4,5-Tetrachlorobenzene	420 U	1900	420	5	08/28/25 18:47	8/27/25	
2-Methylnaphthalene	670 U	1900	670	5	08/28/25 18:47	8/27/25	
Acenaphthene	360 U	1900	360	5	08/28/25 18:47	8/27/25	
Acenaphthylene	390 U	1900	390	5	08/28/25 18:47	8/27/25	
Anthracene	320 U	1900	320	5	08/28/25 18:47	8/27/25	
Benz(a)anthracene	410 J	1900	280	5	08/28/25 18:47	8/27/25	
Benzo(a)pyrene	510 U	1900	510	5	08/28/25 18:47	8/27/25	
Benzo(b)fluoranthene	500 J	1900	320	5	08/28/25 18:47	8/27/25	
Benzo(g,h,i)perylene	440 U	1900	440	5	08/28/25 18:47	8/27/25	
1,4-Dichlorobenzene	320 U	1900	320	5	08/28/25 18:47	8/27/25	
Benzo(k)fluoranthene	310 U	1900	310	5	08/28/25 18:47	8/27/25	
Biphenyl	560 U	1900	560	5	08/28/25 18:47	8/27/25	
Chrysene	410 J	1900	280	5	08/28/25 18:47	8/27/25	
Dibenz(a,h)anthracene	410 U	1900	410	5	08/28/25 18:47	8/27/25	
1,4-Dioxane	190 U	380	190	5	08/28/25 18:47	8/27/25	
Dibenzofuran	350 U	1900	350	5	08/28/25 18:47	8/27/25	
Fluoranthene	820 J	1900	480	5	08/28/25 18:47	8/27/25	
Fluorene	360 U	1900	360	5	08/28/25 18:47	8/27/25	
Indeno(1,2,3-cd)pyrene	610 U	1900	610	5	08/28/25 18:47	8/27/25	
Naphthalene	360 U	1900	360	5	08/28/25 18:47	8/27/25	
Phenanthrene	270 U	1900	270	5	08/28/25 18:47	8/27/25	
Pyrene	680 J	1900	320	5	08/28/25 18:47	8/27/25	
2,3,4,6-Tetrachlorophenol	660 U	1900	660	5	08/28/25 18:47	8/27/25	
2,4,5-Trichlorophenol	470 U	1900	470	5	08/28/25 18:47	8/27/25	
2,4,6-Trichlorophenol	420 U	1900	420	5	08/28/25 18:47	8/27/25	
2,4-Dichlorophenol	370 U	1900	370	5	08/28/25 18:47	8/27/25	
2,4-Dimethylphenol	340 U	1900	340	5	08/28/25 18:47	8/27/25	
2,4-Dinitrophenol	3200 U	9700	3200	5	08/28/25 18:47	8/27/25	
2,4-Dinitrotoluene	730 U	1900	730	5	08/28/25 18:47	8/27/25	
2,6-Dinitrotoluene	420 U	1900	420	5	08/28/25 18:47	8/27/25	
2-Chloronaphthalene	380 U	1900	380	5	08/28/25 18:47	8/27/25	
2-Chlorophenol	320 U	1900	320	5	08/28/25 18:47	8/27/25	
2-Methylphenol	390 U	1900	390	5	08/28/25 18:47	8/27/25	
2-Nitroaniline	450 U	9700	450	5	08/28/25 18:47	8/27/25	
2-Nitrophenol	440 U	1900	440	5	08/28/25 18:47	8/27/25	
3,3'-Dichlorobenzidine	690 U	1900	690	5	08/28/25 18:47	8/27/25	
3- and 4-Methylphenol Coelution	360 U	1900	360	5	08/28/25 18:47	8/27/25	
3-Nitroaniline	380 U	9700	380	5	08/28/25 18:47	8/27/25	
4,6-Dinitro-2-methylphenol	1100 U	9700	1100	5	08/28/25 18:47	8/27/25	
4-Bromophenyl Phenyl Ether	500 U	1900	500	5	08/28/25 18:47	8/27/25	
4-Chloro-3-methylphenol	380 U	1900	380	5	08/28/25 18:47	8/27/25	
4-Chloroaniline	690 U	1900	690	5	08/28/25 18:47	8/27/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: 08/14/25 10:05
Date Received: 08/20/25 09:30

Sample Name: 9337 SB01 (1-2)
Lab Code: R2510177-001

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	410 U	1900	410	5	08/28/25 18:47	8/27/25	
4-Nitroaniline	410 U	9700	410	5	08/28/25 18:47	8/27/25	
4-Nitrophenol	980 U	9700	980	5	08/28/25 18:47	8/27/25	
Acetophenone	550 U	1900	550	5	08/28/25 18:47	8/27/25	
Atrazine	570 U	1900	570	5	08/28/25 18:47	8/27/25	
Benzaldehyde	460 U	9700	460	5	08/28/25 18:47	8/27/25	
Benzoic Acid	3000 U	9700	3000	5	08/28/25 18:47	8/27/25	
Bis(1-chloroisopropyl) Ether	390 U	1900	390	5	08/28/25 18:47	8/27/25	
Bis(2-chloroethoxy)methane	470 U	1900	470	5	08/28/25 18:47	8/27/25	
Bis(2-chloroethyl) Ether	380 U	1900	380	5	08/28/25 18:47	8/27/25	
Bis(2-ethylhexyl) Phthalate	350 U	2900	350	5	08/28/25 18:47	8/27/25	
Butyl Benzyl Phthalate	550 U	1900	550	5	08/28/25 18:47	8/27/25	
Caprolactam	420 U	1900	420	5	08/28/25 18:47	8/27/25	
Carbazole	310 U	1900	310	5	08/28/25 18:47	8/27/25	
Di-n-butyl Phthalate	310 U	1900	310	5	08/28/25 18:47	8/27/25	
Di-n-octyl Phthalate	660 U	1900	660	5	08/28/25 18:47	8/27/25	
Diethyl Phthalate	340 U	1900	340	5	08/28/25 18:47	8/27/25	
Dimethyl Phthalate	360 U	1900	360	5	08/28/25 18:47	8/27/25	
Hexachlorobenzene	460 U	1900	460	5	08/28/25 18:47	8/27/25	
Hexachlorobutadiene	670 U	1900	670	5	08/28/25 18:47	8/27/25	
Hexachlorocyclopentadiene	600 U	1900	600	5	08/28/25 18:47	8/27/25	
Hexachloroethane	360 U	1900	360	5	08/28/25 18:47	8/27/25	
Isophorone	400 U	1900	400	5	08/28/25 18:47	8/27/25	
N-Nitrosodi-n-propylamine	580 U	1900	580	5	08/28/25 18:47	8/27/25	
N-Nitrosodiphenylamine	1200 U	1900	1200	5	08/28/25 18:47	8/27/25	
Nitrobenzene	340 U	1900	340	5	08/28/25 18:47	8/27/25	
Pentachlorophenol (PCP)	1900 U	9700	1900	5	08/28/25 18:47	8/27/25	
Phenol	380 U	1900	380	5	08/28/25 18:47	8/27/25	
Pyridine	260 U	9700	260	5	08/28/25 18:47	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	61	18 - 104	08/28/25 18:47	
Nitrobenzene-d5	61	12 - 98	08/28/25 18:47	
p-Terphenyl-d14	78	26 - 134	08/28/25 18:47	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: 08/14/25 10:10
Date Received: 08/20/25 09:30

Sample Name: 9337 SB02 (3-4)
Lab Code: R2510177-002

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	270 U	1200	270	1	08/28/25 19:11	8/27/25	
1-Methylnaphthalene	230 U	1200	230	1	08/28/25 19:11	8/27/25	
2-Methylnaphthalene	430 U	1200	430	1	08/28/25 19:11	8/27/25	
Acenaphthene	230 U	1200	230	1	08/28/25 19:11	8/27/25	
Acenaphthylene	250 U	1200	250	1	08/28/25 19:11	8/27/25	
Anthracene	210 U	1200	210	1	08/28/25 19:11	8/27/25	
Benz(a)anthracene	180 U	1200	180	1	08/28/25 19:11	8/27/25	
Benzo(a)pyrene	330 U	1200	330	1	08/28/25 19:11	8/27/25	
Benzo(b)fluoranthene	210 U	1200	210	1	08/28/25 19:11	8/27/25	
Benzo(g,h,i)perylene	280 U	1200	280	1	08/28/25 19:11	8/27/25	
1,4-Dichlorobenzene	210 U	1200	210	1	08/28/25 19:11	8/27/25	
Benzo(k)fluoranthene	200 U	1200	200	1	08/28/25 19:11	8/27/25	
Biphenyl	360 U	1200	360	1	08/28/25 19:11	8/27/25	
Chrysene	180 U	1200	180	1	08/28/25 19:11	8/27/25	
Dibenz(a,h)anthracene	270 U	1200	270	1	08/28/25 19:11	8/27/25	
1,4-Dioxane	120 U	250	120	1	08/28/25 19:11	8/27/25	
Dibenzofuran	220 U	1200	220	1	08/28/25 19:11	8/27/25	
Fluoranthene	310 U	1200	310	1	08/28/25 19:11	8/27/25	
Fluorene	230 U	1200	230	1	08/28/25 19:11	8/27/25	
Indeno(1,2,3-cd)pyrene	390 U	1200	390	1	08/28/25 19:11	8/27/25	
Naphthalene	230 U	1200	230	1	08/28/25 19:11	8/27/25	
Phenanthrene	180 U	1200	180	1	08/28/25 19:11	8/27/25	
Pyrene	210 U	1200	210	1	08/28/25 19:11	8/27/25	
2,3,4,6-Tetrachlorophenol	430 U	1200	430	1	08/28/25 19:11	8/27/25	
2,4,5-Trichlorophenol	300 U	1200	300	1	08/28/25 19:11	8/27/25	
2,4,6-Trichlorophenol	270 U	1200	270	1	08/28/25 19:11	8/27/25	
2,4-Dichlorophenol	240 U	1200	240	1	08/28/25 19:11	8/27/25	
2,4-Dimethylphenol	220 U	1200	220	1	08/28/25 19:11	8/27/25	
2,4-Dinitrophenol	2100 U	6200	2100	1	08/28/25 19:11	8/27/25	
2,4-Dinitrotoluene	470 U	1200	470	1	08/28/25 19:11	8/27/25	
2,6-Dinitrotoluene	270 U	1200	270	1	08/28/25 19:11	8/27/25	
2-Chloronaphthalene	250 U	1200	250	1	08/28/25 19:11	8/27/25	
2-Chlorophenol	210 U	1200	210	1	08/28/25 19:11	8/27/25	
2-Methylphenol	250 U	1200	250	1	08/28/25 19:11	8/27/25	
2-Nitroaniline	290 U	6200	290	1	08/28/25 19:11	8/27/25	
2-Nitrophenol	280 U	1200	280	1	08/28/25 19:11	8/27/25	
3,3'-Dichlorobenzidine	450 U	1200	450	1	08/28/25 19:11	8/27/25	
3- and 4-Methylphenol Coelution	240 U	1200	240	1	08/28/25 19:11	8/27/25	
3-Nitroaniline	250 U	6200	250	1	08/28/25 19:11	8/27/25	
4,6-Dinitro-2-methylphenol	690 U	6200	690	1	08/28/25 19:11	8/27/25	
4-Bromophenyl Phenyl Ether	320 U	1200	320	1	08/28/25 19:11	8/27/25	
4-Chloro-3-methylphenol	250 U	1200	250	1	08/28/25 19:11	8/27/25	
4-Chloroaniline	450 U	1200	450	1	08/28/25 19:11	8/27/25	

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Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: 08/14/25 10:10
Date Received: 08/20/25 09:30

Sample Name: 9337 SB02 (3-4)
Lab Code: R2510177-002

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	260 U	1200	260	1	08/28/25 19:11	8/27/25	
4-Nitroaniline	270 U	6200	270	1	08/28/25 19:11	8/27/25	
4-Nitrophenol	630 U	6200	630	1	08/28/25 19:11	8/27/25	
Acetophenone	350 U	1200	350	1	08/28/25 19:11	8/27/25	
Atrazine	360 U	1200	360	1	08/28/25 19:11	8/27/25	
Benzaldehyde	300 U	6200	300	1	08/28/25 19:11	8/27/25	
Benzoic Acid	1900 U	6200	1900	1	08/28/25 19:11	8/27/25	
Bis(1-chloroisopropyl) Ether	250 U	1200	250	1	08/28/25 19:11	8/27/25	
Bis(2-chloroethoxy)methane	300 U	1200	300	1	08/28/25 19:11	8/27/25	
Bis(2-chloroethyl) Ether	240 U	1200	240	1	08/28/25 19:11	8/27/25	
Bis(2-ethylhexyl) Phthalate	230 U	1800	230	1	08/28/25 19:11	8/27/25	
Butyl Benzyl Phthalate	360 U	1200	360	1	08/28/25 19:11	8/27/25	
Caprolactam	270 U	1200	270	1	08/28/25 19:11	8/27/25	
Carbazole	200 U	1200	200	1	08/28/25 19:11	8/27/25	
Di-n-butyl Phthalate	200 U	1200	200	1	08/28/25 19:11	8/27/25	
Di-n-octyl Phthalate	430 U	1200	430	1	08/28/25 19:11	8/27/25	
Diethyl Phthalate	220 U	1200	220	1	08/28/25 19:11	8/27/25	
Dimethyl Phthalate	230 U	1200	230	1	08/28/25 19:11	8/27/25	
Hexachlorobenzene	290 U	1200	290	1	08/28/25 19:11	8/27/25	
Hexachlorobutadiene	430 U	1200	430	1	08/28/25 19:11	8/27/25	
Hexachlorocyclopentadiene	390 U	1200	390	1	08/28/25 19:11	8/27/25	
Hexachloroethane	230 U	1200	230	1	08/28/25 19:11	8/27/25	
Isophorone	260 U	1200	260	1	08/28/25 19:11	8/27/25	
N-Nitrosodi-n-propylamine	370 U	1200	370	1	08/28/25 19:11	8/27/25	
N-Nitrosodiphenylamine	760 U	1200	760	1	08/28/25 19:11	8/27/25	
Nitrobenzene	220 U	1200	220	1	08/28/25 19:11	8/27/25	
Pentachlorophenol (PCP)	1200 U	6200	1200	1	08/28/25 19:11	8/27/25	
Phenol	250 U	1200	250	1	08/28/25 19:11	8/27/25	
Pyridine	170 U	6200	170	1	08/28/25 19:11	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	81	18 - 104	08/28/25 19:11	
Nitrobenzene-d5	78	12 - 98	08/28/25 19:11	
p-Terphenyl-d14	100	26 - 134	08/28/25 19:11	

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Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: 08/14/25 10:15
Date Received: 08/20/25 09:30

Sample Name: 9337 SB03 (5-6)
Lab Code: R2510177-003

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	220 U	1200	220	1	08/28/25 19:35	8/27/25	
1,2,4,5-Tetrachlorobenzene	260 U	1200	260	1	08/28/25 19:35	8/27/25	
2-Methylnaphthalene	410 U	1200	410	1	08/28/25 19:35	8/27/25	
Acenaphthene	220 U	1200	220	1	08/28/25 19:35	8/27/25	
Acenaphthylene	240 U	1200	240	1	08/28/25 19:35	8/27/25	
Anthracene	200 U	1200	200	1	08/28/25 19:35	8/27/25	
Benz(a)anthracene	180 U	1200	180	1	08/28/25 19:35	8/27/25	
Benzo(a)pyrene	310 U	1200	310	1	08/28/25 19:35	8/27/25	
Benzo(b)fluoranthene	200 U	1200	200	1	08/28/25 19:35	8/27/25	
Benzo(g,h,i)perylene	270 U	1200	270	1	08/28/25 19:35	8/27/25	
1,4-Dichlorobenzene	200 U	1200	200	1	08/28/25 19:35	8/27/25	
Benzo(k)fluoranthene	190 U	1200	190	1	08/28/25 19:35	8/27/25	
Biphenyl	340 U	1200	340	1	08/28/25 19:35	8/27/25	
Chrysene	170 U	1200	170	1	08/28/25 19:35	8/27/25	
Dibenz(a,h)anthracene	250 U	1200	250	1	08/28/25 19:35	8/27/25	
1,4-Dioxane	120 U	230	120	1	08/28/25 19:35	8/27/25	
Dibenzofuran	210 U	1200	210	1	08/28/25 19:35	8/27/25	
Fluoranthene	290 U	1200	290	1	08/28/25 19:35	8/27/25	
Fluorene	220 U	1200	220	1	08/28/25 19:35	8/27/25	
Indeno(1,2,3-cd)pyrene	380 U	1200	380	1	08/28/25 19:35	8/27/25	
Naphthalene	220 U	1200	220	1	08/28/25 19:35	8/27/25	
Phenanthrene	170 U	1200	170	1	08/28/25 19:35	8/27/25	
Pyrene	200 U	1200	200	1	08/28/25 19:35	8/27/25	
2,3,4,6-Tetrachlorophenol	410 U	1200	410	1	08/28/25 19:35	8/27/25	
2,4,5-Trichlorophenol	290 U	1200	290	1	08/28/25 19:35	8/27/25	
2,4,6-Trichlorophenol	260 U	1200	260	1	08/28/25 19:35	8/27/25	
2,4-Dichlorophenol	230 U	1200	230	1	08/28/25 19:35	8/27/25	
2,4-Dimethylphenol	210 U	1200	210	1	08/28/25 19:35	8/27/25	
2,4-Dinitrophenol	2000 U	5900	2000	1	08/28/25 19:35	8/27/25	
2,4-Dinitrotoluene	450 U	1200	450	1	08/28/25 19:35	8/27/25	
2,6-Dinitrotoluene	260 U	1200	260	1	08/28/25 19:35	8/27/25	
2-Chloronaphthalene	240 U	1200	240	1	08/28/25 19:35	8/27/25	
2-Chlorophenol	200 U	1200	200	1	08/28/25 19:35	8/27/25	
2-Methylphenol	240 U	1200	240	1	08/28/25 19:35	8/27/25	
2-Nitroaniline	280 U	5900	280	1	08/28/25 19:35	8/27/25	
2-Nitrophenol	270 U	1200	270	1	08/28/25 19:35	8/27/25	
3,3'-Dichlorobenzidine	420 U	1200	420	1	08/28/25 19:35	8/27/25	
3- and 4-Methylphenol Coelution	220 U	1200	220	1	08/28/25 19:35	8/27/25	
3-Nitroaniline	240 U	5900	240	1	08/28/25 19:35	8/27/25	
4,6-Dinitro-2-methylphenol	650 U	5900	650	1	08/28/25 19:35	8/27/25	
4-Bromophenyl Phenyl Ether	310 U	1200	310	1	08/28/25 19:35	8/27/25	
4-Chloro-3-methylphenol	240 U	1200	240	1	08/28/25 19:35	8/27/25	
4-Chloroaniline	420 U	1200	420	1	08/28/25 19:35	8/27/25	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: 08/14/25 10:15
Date Received: 08/20/25 09:30

Sample Name: 9337 SB03 (5-6)
Lab Code: R2510177-003

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	1200	250	1	08/28/25 19:35	8/27/25	
4-Nitroaniline	250 U	5900	250	1	08/28/25 19:35	8/27/25	
4-Nitrophenol	600 U	5900	600	1	08/28/25 19:35	8/27/25	
Acetophenone	340 U	1200	340	1	08/28/25 19:35	8/27/25	
Atrazine	350 U	1200	350	1	08/28/25 19:35	8/27/25	
Benzaldehyde	280 U	5900	280	1	08/28/25 19:35	8/27/25	
Benzoic Acid	1900 U	5900	1900	1	08/28/25 19:35	8/27/25	
Bis(1-chloroisopropyl) Ether	240 U	1200	240	1	08/28/25 19:35	8/27/25	
Bis(2-chloroethoxy)methane	290 U	1200	290	1	08/28/25 19:35	8/27/25	
Bis(2-chloroethyl) Ether	230 U	1200	230	1	08/28/25 19:35	8/27/25	
Bis(2-ethylhexyl) Phthalate	210 U	1700	210	1	08/28/25 19:35	8/27/25	
Butyl Benzyl Phthalate	340 U	1200	340	1	08/28/25 19:35	8/27/25	
Caprolactam	260 U	1200	260	1	08/28/25 19:35	8/27/25	
Carbazole	190 U	1200	190	1	08/28/25 19:35	8/27/25	
Di-n-butyl Phthalate	190 U	1200	190	1	08/28/25 19:35	8/27/25	
Di-n-octyl Phthalate	410 U	1200	410	1	08/28/25 19:35	8/27/25	
Diethyl Phthalate	210 U	1200	210	1	08/28/25 19:35	8/27/25	
Dimethyl Phthalate	220 U	1200	220	1	08/28/25 19:35	8/27/25	
Hexachlorobenzene	280 U	1200	280	1	08/28/25 19:35	8/27/25	
Hexachlorobutadiene	410 U	1200	410	1	08/28/25 19:35	8/27/25	
Hexachlorocyclopentadiene	370 U	1200	370	1	08/28/25 19:35	8/27/25	
Hexachloroethane	220 U	1200	220	1	08/28/25 19:35	8/27/25	
Isophorone	240 U	1200	240	1	08/28/25 19:35	8/27/25	
N-Nitrosodi-n-propylamine	360 U	1200	360	1	08/28/25 19:35	8/27/25	
N-Nitrosodiphenylamine	720 U	1200	720	1	08/28/25 19:35	8/27/25	
Nitrobenzene	210 U	1200	210	1	08/28/25 19:35	8/27/25	
Pentachlorophenol (PCP)	1200 U	5900	1200	1	08/28/25 19:35	8/27/25	
Phenol	240 U	1200	240	1	08/28/25 19:35	8/27/25	
Pyridine	160 U	5900	160	1	08/28/25 19:35	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	80	18 - 104	08/28/25 19:35	
Nitrobenzene-d5	80	12 - 98	08/28/25 19:35	
p-Terphenyl-d14	102	26 - 134	08/28/25 19:35	



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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Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: 08/14/25 10:05
Date Received: 08/20/25 09:30

Sample Name: 9337 SB01 (1-2)
Lab Code: R2510177-001

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	2.9 P	1.9	0.97	1	09/04/25 12:45	8/27/25	
4,4'-DDE	18	1.9	0.97	1	09/04/25 12:45	8/27/25	
4,4'-DDT	8.6 P	1.9	0.97	1	09/04/25 12:45	8/27/25	
Aldrin	0.97 U	1.9	0.97	1	09/04/25 12:45	8/27/25	
Chlordane	4.9 U	9.5	4.9	1	09/04/25 12:45	8/27/25	
Dieldrin	3.2	1.9	0.97	1	09/04/25 12:45	8/27/25	
Endosulfan I	0.97 U	1.9	0.97	1	09/04/25 12:45	8/27/25	
Endosulfan II	0.97 U	1.9	0.97	1	09/04/25 12:45	8/27/25	
Endosulfan Sulfate	0.97 U	1.9	0.97	1	09/04/25 12:45	8/27/25	
Endrin	0.97 U	1.9	0.97	1	09/04/25 12:45	8/27/25	
Endrin Aldehyde	0.97 U	1.9	0.97	1	09/04/25 12:45	8/27/25	
Endrin Ketone	0.97 U	1.9	0.97	1	09/04/25 12:45	8/27/25	
Heptachlor	0.97 U	1.9	0.97	1	09/04/25 12:45	8/27/25	
Heptachlor Epoxide	0.97 U	1.9	0.97	1	09/04/25 12:45	8/27/25	
Methoxychlor	0.97 U	1.9	0.97	1	09/04/25 12:45	8/27/25	
Toxaphene	22 U	38	22	1	09/04/25 12:45	8/27/25	
alpha-BHC	0.97 U	1.9	0.97	1	09/04/25 12:45	8/27/25	
alpha-Chlordane	2.4	1.9	0.97	1	09/04/25 12:45	8/27/25	
beta-BHC	0.97 U	1.9	0.97	1	09/04/25 12:45	8/27/25	
delta-BHC	0.97 U	1.9	0.97	1	09/04/25 12:45	8/27/25	
gamma-BHC (Lindane)	0.97 U	1.9	0.97	1	09/04/25 12:45	8/27/25	
gamma-Chlordane	0.97 U	1.9	0.97	1	09/04/25 12:45	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	65	10 - 159	09/04/25 12:45	
Tetrachloro-m-xylene	51	10 - 132	09/04/25 12:45	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: 08/14/25 10:10
Date Received: 08/20/25 09:30

Sample Name: 9337 SB02 (3-4)
Lab Code: R2510177-002

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	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
4,4'-DDE	9.6	6.3	3.2	1	09/04/25 13:02	8/27/25	
4,4'-DDT	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
Aldrin	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
Chlordane	16 U	31	16	1	09/04/25 13:02	8/27/25	
Dieldrin	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
Endosulfan I	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
Endosulfan II	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
Endosulfan Sulfate	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
Endrin	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
Endrin Aldehyde	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
Endrin Ketone	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
Heptachlor	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
Heptachlor Epoxide	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
Methoxychlor	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
Toxaphene	71 U	120	71	1	09/04/25 13:02	8/27/25	
alpha-BHC	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
alpha-Chlordane	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
beta-BHC	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
delta-BHC	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
gamma-BHC (Lindane)	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	
gamma-Chlordane	3.2 U	6.3	3.2	1	09/04/25 13:02	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	71	10 - 159	09/04/25 13:02	
Tetrachloro-m-xylene	54	10 - 132	09/04/25 13:02	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: 08/14/25 10:15
Date Received: 08/20/25 09:30

Sample Name: 9337 SB03 (5-6)
Lab Code: R2510177-003

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	5.9	3.0	1	09/04/25 13:19	8/27/25	
4,4'-DDE	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
4,4'-DDT	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
Aldrin	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
Chlordane	15 U	29	15	1	09/04/25 13:19	8/27/25	
Dieldrin	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
Endosulfan I	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
Endosulfan II	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
Endosulfan Sulfate	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
Endrin	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
Endrin Aldehyde	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
Endrin Ketone	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
Heptachlor	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
Heptachlor Epoxide	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
Methoxychlor	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
Toxaphene	67 U	110	67	1	09/04/25 13:19	8/27/25	
alpha-BHC	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
alpha-Chlordane	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
beta-BHC	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
delta-BHC	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
gamma-BHC (Lindane)	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	
gamma-Chlordane	3.0 U	5.9	3.0	1	09/04/25 13:19	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	85	10 - 159	09/04/25 13:19	
Tetrachloro-m-xylene	51	10 - 132	09/04/25 13:19	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: 08/14/25 10:05
Date Received: 08/20/25 09:30

Sample Name: 9337 SB01 (1-2)
Lab Code: R2510177-001

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	20 U	38	20	1	08/29/25 04:56	8/27/25	
Aroclor 1221	30 U	77	30	1	08/29/25 04:56	8/27/25	
Aroclor 1232	22 U	38	22	1	08/29/25 04:56	8/27/25	
Aroclor 1242	20 U	38	20	1	08/29/25 04:56	8/27/25	
Aroclor 1248	21 U	38	21	1	08/29/25 04:56	8/27/25	
Aroclor 1254	20 U	38	20	1	08/29/25 04:56	8/27/25	
Aroclor 1260	130	38	20	1	08/29/25 04:56	8/27/25	
Aroclor 1262	20 U	38	20	1	08/29/25 04:56	8/27/25	
Aroclor 1268	20 U	38	20	1	08/29/25 04:56	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 138	08/29/25 04:56	
Tetrachloro-m-xylene	51	11 - 122	08/29/25 04:56	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: 08/14/25 10:10
Date Received: 08/20/25 09:30

Sample Name: 9337 SB02 (3-4)
Lab Code: R2510177-002

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	64 U	120	64	1	08/29/25 05:09	8/27/25	
Aroclor 1221	98 U	250	98	1	08/29/25 05:09	8/27/25	
Aroclor 1232	71 U	120	71	1	08/29/25 05:09	8/27/25	
Aroclor 1242	64 U	120	64	1	08/29/25 05:09	8/27/25	
Aroclor 1248	68 U	120	68	1	08/29/25 05:09	8/27/25	
Aroclor 1254	64 U	120	64	1	08/29/25 05:09	8/27/25	
Aroclor 1260	64 U	120	64	1	08/29/25 05:09	8/27/25	
Aroclor 1262	64 U	120	64	1	08/29/25 05:09	8/27/25	
Aroclor 1268	64 U	120	64	1	08/29/25 05:09	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	76	10 - 138	08/29/25 05:09	
Tetrachloro-m-xylene	54	11 - 122	08/29/25 05:09	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: 08/14/25 10:15
Date Received: 08/20/25 09:30

Sample Name: 9337 SB03 (5-6)
Lab Code: R2510177-003

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	60 U	110	60	1	08/29/25 05:23	8/27/25	
Aroclor 1221	91 U	230	91	1	08/29/25 05:23	8/27/25	
Aroclor 1232	67 U	110	67	1	08/29/25 05:23	8/27/25	
Aroclor 1242	60 U	110	60	1	08/29/25 05:23	8/27/25	
Aroclor 1248	63 U	110	63	1	08/29/25 05:23	8/27/25	
Aroclor 1254	60 U	110	60	1	08/29/25 05:23	8/27/25	
Aroclor 1260	60 U	110	60	1	08/29/25 05:23	8/27/25	
Aroclor 1262	60 U	110	60	1	08/29/25 05:23	8/27/25	
Aroclor 1268	60 U	110	60	1	08/29/25 05:23	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	82	10 - 138	08/29/25 05:23	
Tetrachloro-m-xylene	49	11 - 122	08/29/25 05:23	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: 08/14/25 10:05
Date Received: 08/20/25 09:30

Sample Name: 9337 SB01 (1-2)
Lab Code: R2510177-001

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	5.8 U	12	5.8	1	09/04/25 07:34	8/28/25	
2,4,5-TP	5.3 U	12	5.3	1	09/04/25 07:34	8/28/25	
2,4-D	7.6 U	12	7.6	1	09/04/25 07:34	8/28/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	65	10 - 151	09/04/25 07:34	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: 08/14/25 10:10
Date Received: 08/20/25 09:30

Sample Name: 9337 SB02 (3-4)
Lab Code: R2510177-002

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	6.3 U	12	6.3	1	09/04/25 07:53	8/28/25	
2,4,5-TP	5.6 U	12	5.6	1	09/04/25 07:53	8/28/25	
2,4-D	8.1 U	12	8.1	1	09/04/25 07:53	8/28/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	37	10 - 151	09/04/25 07:53	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: 08/14/25 10:15
Date Received: 08/20/25 09:30

Sample Name: 9337 SB03 (5-6)
Lab Code: R2510177-003

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	5.9 U	12	5.9	1	09/04/25 08:11	8/28/25	
2,4,5-TP	5.3 U	12	5.3	1	09/04/25 08:11	8/28/25	
2,4-D	7.7 U	12	7.7	1	09/04/25 08:11	8/28/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	51	10 - 151	09/04/25 08:11	



General Chemistry

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Sample Name: 9337 SB01 (1-2)
Lab Code: R2510177-001

Service Request: R2510177
Date Collected: 08/14/25 10:05
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	86.0	Percent	-	-	1	08/29/25 10:00	

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Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Sample Name: 9337 SB02 (3-4)
Lab Code: R2510177-002

Service Request: R2510177
Date Collected: 08/14/25 10:10
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	79.7	Percent	-	-	1	08/29/25 10:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Sample Name: 9337 SB03 (5-6)
Lab Code: R2510177-003

Service Request: R2510177
Date Collected: 08/14/25 10:15
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	84.8	Percent	-	-	1	08/29/25 10:00	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177

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
9337 SB01 (1-2)	R2510177-001	61	61	78
9337 SB02 (3-4)	R2510177-002	81	78	100
9337 SB03 (5-6)	R2510177-003	80	80	102
Method Blank	RQ2511422-01	83	83	115
Lab Control Sample	RQ2511422-02	64	58	83
Duplicate Lab Control Sample	RQ2511422-03	76	66	101

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511422-01

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	08/28/25 11:56	8/27/25	
1-Methylnaphthalene	61 U	330	61	1	08/28/25 11:56	8/27/25	
2-Methylnaphthalene	120 U	330	120	1	08/28/25 11:56	8/27/25	
Acenaphthene	63 U	330	63	1	08/28/25 11:56	8/27/25	
Acenaphthylene	67 U	330	67	1	08/28/25 11:56	8/27/25	
Anthracene	55 U	330	55	1	08/28/25 11:56	8/27/25	
Benz(a)anthracene	49 U	330	49	1	08/28/25 11:56	8/27/25	
Benzo(a)pyrene	88 U	330	88	1	08/28/25 11:56	8/27/25	
Benzo(b)fluoranthene	55 U	330	55	1	08/28/25 11:56	8/27/25	
Benzo(g,h,i)perylene	76 U	330	76	1	08/28/25 11:56	8/27/25	
1,4-Dichlorobenzene	55 U	330	55	1	08/28/25 11:56	8/27/25	
Benzo(k)fluoranthene	54 U	330	54	1	08/28/25 11:56	8/27/25	
Biphenyl	98 U	330	98	1	08/28/25 11:56	8/27/25	
Chrysene	49 U	330	49	1	08/28/25 11:56	8/27/25	
Dibenz(a,h)anthracene	72 U	330	72	1	08/28/25 11:56	8/27/25	
1,4-Dioxane	32 U	66	32	1	08/28/25 11:56	8/27/25	
Dibenzofuran	60 U	330	60	1	08/28/25 11:56	8/27/25	
Fluoranthene	83 U	330	83	1	08/28/25 11:56	8/27/25	
Fluorene	62 U	330	62	1	08/28/25 11:56	8/27/25	
Indeno(1,2,3-cd)pyrene	110 U	330	110	1	08/28/25 11:56	8/27/25	
Naphthalene	62 U	330	62	1	08/28/25 11:56	8/27/25	
Phenanthrene	47 U	330	47	1	08/28/25 11:56	8/27/25	
Pyrene	55 U	330	55	1	08/28/25 11:56	8/27/25	
2,3,4,6-Tetrachlorophenol	120 U	330	120	1	08/28/25 11:56	8/27/25	
2,4,5-Trichlorophenol	82 U	330	82	1	08/28/25 11:56	8/27/25	
2,4,6-Trichlorophenol	74 U	330	74	1	08/28/25 11:56	8/27/25	
2,4-Dichlorophenol	64 U	330	64	1	08/28/25 11:56	8/27/25	
2,4-Dimethylphenol	59 U	330	59	1	08/28/25 11:56	8/27/25	
2,4-Dinitrophenol	560 U	1700	560	1	08/28/25 11:56	8/27/25	
2,4-Dinitrotoluene	130 U	330	130	1	08/28/25 11:56	8/27/25	
2,6-Dinitrotoluene	72 U	330	72	1	08/28/25 11:56	8/27/25	
2-Chloronaphthalene	66 U	330	66	1	08/28/25 11:56	8/27/25	
2-Chlorophenol	55 U	330	55	1	08/28/25 11:56	8/27/25	
2-Methylphenol	69 U	330	69	1	08/28/25 11:56	8/27/25	
2-Nitroaniline	78 U	1700	78	1	08/28/25 11:56	8/27/25	
2-Nitrophenol	77 U	330	77	1	08/28/25 11:56	8/27/25	
3,3'-Dichlorobenzidine	120 U	330	120	1	08/28/25 11:56	8/27/25	
3- and 4-Methylphenol Coelution	63 U	330	63	1	08/28/25 11:56	8/27/25	
3-Nitroaniline	67 U	1700	67	1	08/28/25 11:56	8/27/25	
4,6-Dinitro-2-methylphenol	190 U	1700	190	1	08/28/25 11:56	8/27/25	
4-Bromophenyl Phenyl Ether	87 U	330	87	1	08/28/25 11:56	8/27/25	
4-Chloro-3-methylphenol	67 U	330	67	1	08/28/25 11:56	8/27/25	
4-Chloroaniline	120 U	330	120	1	08/28/25 11:56	8/27/25	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511422-01

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	08/28/25 11:56	8/27/25	
4-Nitroaniline	71 U	1700	71	1	08/28/25 11:56	8/27/25	
4-Nitrophenol	170 U	1700	170	1	08/28/25 11:56	8/27/25	
Acetophenone	95 U	330	95	1	08/28/25 11:56	8/27/25	
Atrazine	98 U	330	98	1	08/28/25 11:56	8/27/25	
Benzaldehyde	80 U	1700	80	1	08/28/25 11:56	8/27/25	
Benzoic Acid	520 U	1700	520	1	08/28/25 11:56	8/27/25	
Bis(1-chloroisopropyl) Ether	68 U	330	68	1	08/28/25 11:56	8/27/25	
Bis(2-chloroethoxy)methane	81 U	330	81	1	08/28/25 11:56	8/27/25	
Bis(2-chloroethyl) Ether	65 U	330	65	1	08/28/25 11:56	8/27/25	
Bis(2-ethylhexyl) Phthalate	61 U	490	61	1	08/28/25 11:56	8/27/25	
Butyl Benzyl Phthalate	96 U	330	96	1	08/28/25 11:56	8/27/25	
Caprolactam	73 U	330	73	1	08/28/25 11:56	8/27/25	
Carbazole	54 U	330	54	1	08/28/25 11:56	8/27/25	
Di-n-butyl Phthalate	54 U	330	54	1	08/28/25 11:56	8/27/25	
Di-n-octyl Phthalate	120 U	330	120	1	08/28/25 11:56	8/27/25	
Diethyl Phthalate	59 U	330	59	1	08/28/25 11:56	8/27/25	
Dimethyl Phthalate	63 U	330	63	1	08/28/25 11:56	8/27/25	
Hexachlorobenzene	79 U	330	79	1	08/28/25 11:56	8/27/25	
Hexachlorobutadiene	120 U	330	120	1	08/28/25 11:56	8/27/25	
Hexachlorocyclopentadiene	110 U	330	110	1	08/28/25 11:56	8/27/25	
Hexachloroethane	62 U	330	62	1	08/28/25 11:56	8/27/25	
Isophorone	69 U	330	69	1	08/28/25 11:56	8/27/25	
N-Nitrosodi-n-propylamine	110 U	330	110	1	08/28/25 11:56	8/27/25	
N-Nitrosodiphenylamine	210 U	330	210	1	08/28/25 11:56	8/27/25	
Nitrobenzene	59 U	330	59	1	08/28/25 11:56	8/27/25	
Pentachlorophenol (PCP)	330 U	1700	330	1	08/28/25 11:56	8/27/25	
Phenol	67 U	330	67	1	08/28/25 11:56	8/27/25	
Pyridine	45 U	1700	45	1	08/28/25 11:56	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	83	18 - 104	08/28/25 11:56	
Nitrobenzene-d5	83	12 - 98	08/28/25 11:56	
p-Terphenyl-d14	115	26 - 134	08/28/25 11:56	

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Analyzed: 08/28/25

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

Units:ug/Kg
Basis:Dry

Analyte Name	Lab Control Sample RQ2511422-02				Duplicate Lab Control Sample RQ2511422-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1-Methylnaphthalene	8270E	1870	3300	57	2160	3290	66	29-100	15	30
1,2,4,5-Tetrachlorobenzene	8270E	1950	3300	59	2260	3290	69	20-126	14	30
2-Methylnaphthalene	8270E	1790	3300	54	2060	3290	63	29-99	14	30
Acenaphthene	8270E	2180	3300	66	2570	3290	78	41-110	17	30
Acenaphthylene	8270E	2420	3300	73	2880	3290	88	44-122	17	30
Anthracene	8270E	2370	3300	72	2880	3290	87	41-123	19	30
Benz(a)anthracene	8270E	2440	3300	74	2900	3290	88	44-116	17	30
Benzo(a)pyrene	8270E	2750	3300	83	3390	3290	103	56-146	21	30
Benzo(b)fluoranthene	8270E	2310	3300	70	2830	3290	86	47-120	20	30
Benzo(g,h,i)perylene	8270E	2290	3300	69	2890	3290	88	41-129	23	30
Benzo(k)fluoranthene	8270E	2440	3300	74	3030	3290	92	49-124	22	30
1,4-Dichlorobenzene	8270E	1860	3300	56	2190	3290	66	16-83	16	30
Biphenyl	8270E	1990	3300	60	2330	3290	71	24-112	16	30
Chrysene	8270E	2450	3300	74	2940	3290	89	44-119	18	30
1,4-Dioxane	8270E	1270	3300	38	1410	3290	43	10-58	10	30
Dibenz(a,h)anthracene	8270E	2390	3300	72	3020	3290	92	18-146	23	30
Dibenzofuran	8270E	2250	3300	68	2690	3290	82	43-113	18	30
Fluoranthene	8270E	2410	3300	73	3010	3290	92	39-128	22	30
Fluorene	8270E	2270	3300	69	2710	3290	82	40-117	18	30
Indeno(1,2,3-cd)pyrene	8270E	2550	3300	77	3210	3290	98	43-129	23	30
Naphthalene	8270E	1840	3300	56	2100	3290	64	31-93	13	30
Phenanthrene	8270E	2170	3300	66	2650	3290	80	39-120	20	30
Pyrene	8270E	2370	3300	72	2920	3290	89	45-125	21	30
2,3,4,6-Tetrachlorophenol	8270E	2620	3300	79	3220	3290	98	42-117	21	30
2,4,5-Trichlorophenol	8270E	2430	3300	73	2910	3290	88	40-114	18	30
2,4,6-Trichlorophenol	8270E	2280	3300	69	2760	3290	84	33-108	19	30
2,4-Dichlorophenol	8270E	2050	3300	62	2400	3290	73	30-103	16	30
2,4-Dimethylphenol	8270E	2030	3300	62	2370	3290	72	32-100	15	30
2,4-Dinitrophenol	8270E	1650 J	3300	50	1910	3290	58	10-97	14	30
2,4-Dinitrotoluene	8270E	2470	3300	75	3040	3290	92	53-120	21	30
2,6-Dinitrotoluene	8270E	2420	3300	73	2980	3290	91	48-119	21	30
2-Chloronaphthalene	8270E	2160	3300	65	2560	3290	78	33-103	17	30
2-Chlorophenol	8270E	2050	3300	62	2430	3290	74	26-90	17	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Analyzed: 08/28/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511422-02					Duplicate Lab Control Sample RQ2511422-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2-Methylphenol	8270E	2270	3300	69	2660	3290	81	33-99	16	30
2-Nitroaniline	8270E	2310	3300	70	2890	3290	88	41-119	22	30
2-Nitrophenol	8270E	1940	3300	59	2220	3290	67	24-98	14	30
3- and 4-Methylphenol Coelution	8270E	2340	3300	71	2750	3290	84	32-100	16	30
3-Nitroaniline	8270E	1880	3300	57	2340	3290	71	29-105	22	30
4,6-Dinitro-2-methylphenol	8270E	2220	3300	67	2650	3290	80	20-105	17	30
4-Bromophenyl Phenyl Ether	8270E	2350	3300	71	2860	3290	87	37-116	19	30
4-Chloro-3-methylphenol	8270E	2180	3300	66	2590	3290	79	40-116	17	30
4-Chloroaniline	8270E	1890	3300	57	2090	3290	64	10-87	10	30
4-Chlorophenyl Phenyl Ether	8270E	2230	3300	67	2700	3290	82	42-111	19	30
4-Nitroaniline	8270E	1940	3300	59	2410	3290	73	43-120	22	30
4-Nitrophenol	8270E	1770	3300	54	2320	3290	70	34-116	27	30
Acetophenone	8270E	1920	3300	58	2230	3290	68	23-87	15	30
Benzoic Acid	8270E	1940	3300	59	2140	3290	65	10-126	10	30
Bis(1-chloroisopropyl) Ether	8270E	2090	3300	63	2470	3290	75	22-99	16	30
Bis(2-chloroethoxy)methane	8270E	2030	3300	62	2340	3290	71	38-119	14	30
Bis(2-chloroethyl) Ether	8270E	1980	3300	60	2350	3290	71	23-94	17	30
Bis(2-ethylhexyl) Phthalate	8270E	2580	3300	78	3210	3290	98	38-139	22	30
Butyl Benzyl Phthalate	8270E	2450	3300	74	3080	3290	93	40-134	23	30
Caprolactam	8270E	1920	3300	58	2350	3290	71	21-128	20	30
Carbazole	8270E	2370	3300	72	2960	3290	90	42-131	22	30
Di-n-butyl Phthalate	8270E	2540	3300	77	3160	3290	96	42-141	22	30
Di-n-octyl Phthalate	8270E	2750	3300	83	3320	3290	101	38-143	19	30
Diethyl Phthalate	8270E	2330	3300	71	2820	3290	86	43-118	19	30
Dimethyl Phthalate	8270E	2360	3300	71	2880	3290	87	40-118	20	30
Hexachlorobenzene	8270E	2300	3300	70	2830	3290	86	35-122	21	30
Hexachlorobutadiene	8270E	1800	3300	55	2080	3290	63	28-96	14	30
Hexachlorocyclopentadiene	8270E	1880	3300	57	2290	3290	70	10-111	20	30
Hexachloroethane	8270E	1870	3300	56	2200	3290	67	18-85	17	30
Isophorone	8270E	2060	3300	62	2400	3290	73	39-104	15	30
N-Nitrosodi-n-propylamine	8270E	2040	3300	62	2440	3290	74	30-98	18	30
N-Nitrosodiphenylamine	8270E	2580	3300	78	3160	3290	96	43-130	20	30
Nitrobenzene	8270E	1950	3300	59	2240	3290	68	31-99	14	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Analyzed: 08/28/25

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					
	RQ2511422-02				RQ2511422-03					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Pentachlorophenol (PCP)	8270E	1830	3300	55	2260	3290	69	36-138	21	30
Phenol	8270E	2130	3300	64	2540	3290	77	31-100	17	30
Pyridine	8270E	3570	6610	54	4000	6580	61	12-80	11	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

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177

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
9337 SB01 (1-2)	R2510177-001	65 P	51
9337 SB02 (3-4)	R2510177-002	71	54
9337 SB03 (5-6)	R2510177-003	85	51
Method Blank	RQ2511421-01	82	58
Lab Control Sample	RQ2511421-02	85	67
Duplicate Lab Control Sample	RQ2511421-03	83	56

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511421-01

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	08/29/25 19:03	8/27/25	
4,4'-DDE	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
4,4'-DDT	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Aldrin	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Chlordane	4.2 U	8.3	4.2	1	08/29/25 19:03	8/27/25	
Dieldrin	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endosulfan I	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endosulfan II	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endosulfan Sulfate	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endrin	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endrin Aldehyde	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endrin Ketone	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Heptachlor	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Heptachlor Epoxide	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Methoxychlor	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Toxaphene	19 U	33	19	1	08/29/25 19:03	8/27/25	
alpha-BHC	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
alpha-Chlordane	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
beta-BHC	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
delta-BHC	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
gamma-BHC (Lindane)	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
gamma-Chlordane	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	82	10 - 159	08/29/25 19:03	
Tetrachloro-m-xylene	58	10 - 132	08/29/25 19:03	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Analyzed: 08/29/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511421-02					Duplicate Lab Control Sample RQ2511421-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	5.21	6.61	79	5.22	6.63	79	48-121	<1	30
4,4'-DDE	8081B	5.32	6.61	81	5.16	6.63	78	51-119	3	30
4,4'-DDT	8081B	5.14	6.61	78	5.10	6.63	77	51-126	<1	30
Aldrin	8081B	5.55	6.61	84	4.96	6.63	75	45-109	11	30
Dieldrin	8081B	5.53	6.61	84	5.35	6.63	81	56-111	3	30
Endosulfan I	8081B	5.23	6.61	79	4.97	6.63	75	54-109	5	30
Endosulfan II	8081B	5.39	6.61	82	5.39	6.63	81	50-116	<1	30
Endosulfan Sulfate	8081B	5.25	6.61	79	5.21	6.63	79	55-115	<1	30
Endrin	8081B	5.34	6.61	81	5.15	6.63	78	49-124	3	30
Endrin Aldehyde	8081B	6.09	6.61	92	6.16	6.63	93	21-139	1	30
Endrin Ketone	8081B	5.42	6.61	82	5.40	6.63	81	50-124	<1	30
Heptachlor	8081B	5.63	6.61	85	4.98	6.63	75	43-115	12	30
Heptachlor Epoxide	8081B	5.55	6.61	84	5.15	6.63	78	53-113	7	30
Methoxychlor	8081B	5.79	6.61	88	5.88	6.63	89	47-141	2	30
alpha-BHC	8081B	5.21	6.61	79	4.63	6.63	70	44-109	12	30
alpha-Chlordane	8081B	5.42	6.61	82	5.16	6.63	78	52-114	5	30
beta-BHC	8081B	5.48	6.61	83	5.09	6.63	77	49-119	7	30
delta-BHC	8081B	5.55	6.61	84	5.28	6.63	80	49-113	5	30
gamma-BHC (Lindane)	8081B	5.42	6.61	82	4.84	6.63	73	43-112	11	30
gamma-Chlordane	8081B	5.75	6.61	87	5.41	6.63	82	51-117	6	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177

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
9337 SB01 (1-2)	R2510177-001	67	51
9337 SB02 (3-4)	R2510177-002	76	54
9337 SB03 (5-6)	R2510177-003	82	49
Method Blank	RQ2511421-01	79	53
Lab Control Sample	RQ2511421-04	88	64
Duplicate Lab Control Sample	RQ2511421-05	80	56

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511421-01

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	32	17	1	08/29/25 01:06	8/27/25	
Aroclor 1221	26 U	66	26	1	08/29/25 01:06	8/27/25	
Aroclor 1232	19 U	32	19	1	08/29/25 01:06	8/27/25	
Aroclor 1242	17 U	32	17	1	08/29/25 01:06	8/27/25	
Aroclor 1248	18 U	32	18	1	08/29/25 01:06	8/27/25	
Aroclor 1254	17 U	32	17	1	08/29/25 01:06	8/27/25	
Aroclor 1260	17 U	32	17	1	08/29/25 01:06	8/27/25	
Aroclor 1262	17 U	32	17	1	08/29/25 01:06	8/27/25	
Aroclor 1268	17 U	32	17	1	08/29/25 01:06	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	79	10 - 138	08/29/25 01:06	
Tetrachloro-m-xylene	53	11 - 122	08/29/25 01:06	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Analyzed: 08/29/25

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				
			RQ2511421-04			RQ2511421-05				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	130	164	79	122	166	73	34-141	7	30
Aroclor 1260	8082A	140	164	85	137	166	82	30-158	2	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA
		10 - 151
9337 SB01 (1-2)	R2510177-001	65
9337 SB02 (3-4)	R2510177-002	37
9337 SB03 (5-6)	R2510177-003	51
Method Blank	RQ2511578-01	54
Lab Control Sample	RQ2511578-02	51
Duplicate Lab Control Sample	RQ2511578-03	52

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511578-01

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	9.9	5.0	1	09/04/25 04:31	8/28/25	
2,4,5-TP	4.5 U	9.9	4.5	1	09/04/25 04:31	8/28/25	
2,4-D	6.5 U	9.9	6.5	1	09/04/25 04:31	8/28/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	54	10 - 151	09/04/25 04:31	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 9337_Cresswell
Sample Matrix: Soil

Service Request: R2510177
Date Analyzed: 09/04/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ2511578-02

Duplicate Lab Control Sample
RQ2511578-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2,4,5-T	8151A	19.0	24.6	77	19.6	24.9	79	19-127	3	30
2,4,5-TP	8151A	17.3	24.6	70	17.9	24.9	72	18-122	4	30
2,4-D	8151A	14.2	24.6	58	15.4	24.9	62	31-119	8	30

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 9337_Cresswell
Matrix: Soil

Service Request: R2510177
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: RQ2511578-02

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	5.0	19.0	18.5	3		1	09/04/25 04:49
2,4,5-TP	4.5	17.3	17.0	2		1	09/04/25 04:49
2,4-D	6.5	14.2	16.0	12		1	09/04/25 04:49

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 9337_Cresswell
Matrix: Soil

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ2511578-03

Service Request: R2510177
Date Collected: NA
Date Received:

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	5.0	19.6	19.4	1		1	09/04/25 05:08
2,4,5-TP	4.5	17.9	17.3	3		1	09/04/25 05:08
2,4-D	6.5	15.4	16.5	7		1	09/04/25 05:08



right solutions.
right partner.

October 20, 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: **HN2514960**
Revision: **1**

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: HN2514960
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: HN2514960

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2514960-001	9337 Cresswell SB01 TCLP	SOIL/SOLID	10/08/25 13:05	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: HN2514960
Date Collected: 10/08/25 13:05
Date Received: 10/09/25 07:00

CLIENT ID: 9337 Cresswell SB01 TCLP

Lab ID: HN2514960-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Arsenic	EPA 6020B	ND		mg/L	0.0499	1	10/15/25 04:08	10/14/25 11:41
Chromium	EPA 6020B	ND		mg/L	0.0499	1	10/15/25 04:08	10/14/25 11:41



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2273977

Work Order: HN2514960
Date Collected: NA
Date Received: NA
Run ID: 3586505

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2273977-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/15/25 03:41
Prep Date: 10/14/25 11:42

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	ND	mg/L	0.0499							
Chromium	ND	mg/L	0.0499							

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2273977-002
------------	---	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/15/25 03:43
Prep Date: 10/14/25 11:42

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	0.990	mg/L	0.0499	1		99.0	80-120			
Chromium	0.953	mg/L	0.0499	1		95.3	80-120			

The following samples were analyzed in this batch: HN2514960-001

ANALYST SUMMARY



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

Work Order: HN2514960

Sample Name: 9337 Cresswell SB01 TCLP
Laboratory Code: HN2514960-001
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 6020B	EPA 3015A	001-AD	2273977	Chloe Patrick	3586505	Stephanie Pierson



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	9337 Cresswell				A	TCLP Arsenic				
Work Order	Quote ID - 11631	Project Number	DETR0060				B					
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group				C					
Send Report To	Ryan Montri	Invoice Attn.					D					
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road				E					
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					
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	
1	9337 Cresswell SBO1 TCLP	10/8/25	1305	Soil		2	X					
2												
3												
4												
5												
6												
7												
8												
9												
10												

Sampler(s): Please Print & Sign Shannon Kaczmarek		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Results Due Date:	
Relinquished by: Shannon Kaczmarek	Date: 10/8/25	Time: 9:28	Received by: Colin		Notes: QS to Brittany H 10/9/25 0700		
Relinquished by: Colin	Date: 10/8/25	Time: 1700	Received by (Laboratory): QS		QC Package: (Check Box Below)		
Logged by (Laboratory): BH	Date: 10/9/25	Time: 14:25	Checked by (Laboratory):		Cooler Temp. 1R7 2.1C	Level II: Standard QC Level III: Std QC + Raw Data 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
HN2514960

Telephone : + 1 616 399 6070

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ALS Holland Sample Receiving Checklist

Received by: Brittany H

Date/Time: 10/9/25 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: 10/9/25 1425

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: **HN2516058**

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: HN2516058
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.

HN2516058-001: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

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: 9337 Cresswell SB01 (1-2')-R

Lab ID: HN2516058-001

Analyte	Results	Flag	MRL	Units	Method
Benzo(a)anthracene	138		81.4	µg/kg	EPA 8270E
Benzo(a)pyrene	147		81.4	µg/kg	EPA 8270E
Benzo(b)fluoranthene	187		81.4	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	130		81.4	µg/kg	EPA 8270E
Benzo(k)fluoranthene	81.4		81.4	µg/kg	EPA 8270E
Fluoranthene	236		81.4	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	138		81.4	µg/kg	EPA 8270E
Percent Moisture	7.8		0.1	%	EPA 3550C
Phenanthrene	81.4		81.4	µg/kg	EPA 8270E
Pyrene	195		81.4	µg/kg	EPA 8270E

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Workorder: HN2516058

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2516058-001	9337 Cresswell SB01 (1-2')-R	SOIL/SOLID	10/27/25 12:52	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															
Purchase Order		Project Name	9337 CRESSWELL					A	SVOCs (U.S. EPA Method 8270D (or Method 8270))						
Work Order		Project Number	DETR0060					B							
Company Name	The Mannik and Smith Group		Bill To Company	The Mannik and Smith Group					C						
Send Report To	Ryan Montri		Invoice Attn.						D						
Address	2365 Haggerty Rd South Suite 100		Address	2365 Haggerty Rd South Suite 100					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@mnniksmithgroup.com		e-Mail Address						I						
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	Hold				
1	9337 CRESSWELL S801(1-2)-R	10/27/25	1252	S	NA	1	X								
2															
3															
4															
5															
6															
7															
8															
9															
10															
Sampler(s): Please Print & Sign WILEY DAVENPORT			Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Other <u>72 HR</u>				Results Due Date:		
Relinquished by: WILEY DAVENPORT		Date: 10/27/25	Time: 1558	Received by: <i>[Signature]</i>			Notes: Quote# HN-061825-M&S-MA Q5 to B... 10/28/25 0600								
Relinquished by: <i>[Signature]</i>		Date: 10/27/25	Time: 1558	Received by (Laboratory): Q5			QC Package: (Check Box Below)								
Logged by (Laboratory): BH		Date: 10/28/25	Time: 0825	Checked by (Laboratory):			Cooler Temp. 127 5.8C		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
HN2516058

Telephone : + 1 616 399 6070

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ALS Holland Sample Receiving Checklist

Received by: Bittling H

Date/Time: 10/28/25 0600

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): 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 0825

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: HN2516058

Sample Name: 9337 Cresswell SB01 (1-2')-R
Laboratory Code: HN2516058-001
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: HN2516058
Date Collected: 10/27/25 12:52
Date Received: 10/28/25 06:00

CLIENT ID: 9337 Cresswell SB01 (1-2')-R

Lab ID: HN2516058-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	7.8		%	0.1	1	10/28/25 11:36	NA
Semivolatile Organic Compounds by GC-MS								
1,1'-Biphenyl (BZ-0)	EPA 8270E	<66.1	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<93.9	U	µg/kg	4070	5	10/29/25 21:41	10/28/25 11:33
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<292	U	µg/kg	2040	5	10/29/25 21:41	10/28/25 11:33
1-Methylnaphthalene	EPA 8270E	<58.6	U	µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	<95.4	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
2,3,4,6-Tetrachlorophenol	EPA 8270E	<298	U	µg/kg	814	5	10/29/25 21:41	10/28/25 11:33
2,4,5-Trichlorophenol	EPA 8270E	<241	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
2,4,6-Trichlorophenol	EPA 8270E	<108	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
2,4-Dichlorophenol	EPA 8270E	<219	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
2,4-Dimethylphenol	EPA 8270E	<209	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
2,4-Dinitrophenol	EPA 8270E	<2980	U	µg/kg	4070	5	10/29/25 21:41	10/28/25 11:33
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<264	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<104	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
2-Chloronaphthalene	EPA 8270E	<56.9	U	µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
2-Chlorophenol	EPA 8270E	<266	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<340	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
2-Methylnaphthalene	EPA 8270E	<41.4	U	µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
2-Methylphenol (o-Cresol)	EPA 8270E	<110	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
2-Nitroaniline	EPA 8270E	<226	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
2-Nitrophenol	EPA 8270E	<116	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
3&4-Methylphenol	EPA 8270E	<222	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
3,3'-Dichlorobenzidine	EPA 8270E	<190	U	µg/kg	2040	5	10/29/25 21:41	10/28/25 11:33
3-Nitroaniline	EPA 8270E	<236	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<223	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33

Analytical Report



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

Work Order: HN2516058
Date Collected: 10/27/25 12:52
Date Received: 10/28/25 06:00

CLIENT ID: 9337 Cresswell SB01 (1-2')-R

Lab ID: HN2516058-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
4-Chloro-3-methylphenol	EPA 8270E	<116	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
4-Chloroaniline	EPA 8270E	<207	U	µg/kg	814	5	10/29/25 21:41	10/28/25 11:33
4-Chlorophenyl phenylether	EPA 8270E	<113	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
4-Nitroaniline	EPA 8270E	<632	U	µg/kg	2040	5	10/29/25 21:41	10/28/25 11:33
4-Nitrophenol	EPA 8270E	<954	U	µg/kg	4070	5	10/29/25 21:41	10/28/25 11:33
Acenaphthene	EPA 8270E	<58.9	U	µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
Acenaphthylene	EPA 8270E	<70.6	U	µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
Acetophenone	EPA 8270E	<63.8	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Anthracene	EPA 8270E	<57.4	U	µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
Atrazine	EPA 8270E	<239	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Benzaldehyde	EPA 8270E	<625	U	µg/kg	814	5	10/29/25 21:41	10/28/25 11:33
Benzo(a)anthracene	EPA 8270E	138		µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
Benzo(a)pyrene	EPA 8270E	147		µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
Benzo(b)fluoranthene	EPA 8270E	187		µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
Benzo(g,h,i)perylene	EPA 8270E	130		µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
Benzo(k)fluoranthene	EPA 8270E	81.4		µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
bis(2-Chloroethoxy) methane	EPA 8270E	<258	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
bis(2-Chloroethyl) ether	EPA 8270E	<115	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Butyl benzyl phthalate	EPA 8270E	<510	U	µg/kg	814	5	10/29/25 21:41	10/28/25 11:33
Caprolactam	EPA 8270E	<367	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Carbazole	EPA 8270E	<120	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Chrysene	EPA 8270E	<65.8	U	µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	<337	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Dibenz(a,h) anthracene	EPA 8270E	<44.0	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Dibenzofuran	EPA 8270E	<59.9	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Diethyl phthalate	EPA 8270E	<139	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Dimethyl phthalate	EPA 8270E	<79.4	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Fluoranthene	EPA 8270E	236		µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
Fluorene	EPA 8270E	<59.1	U	µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
Hexachlorobenzene	EPA 8270E	<118	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33

Analytical Report



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

Work Order: HN2516058
Date Collected: 10/27/25 12:52
Date Received: 10/28/25 06:00

CLIENT ID: 9337 Cresswell SB01 (1-2')-R

Lab ID: HN2516058-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Hexachlorobutadiene	EPA 8270E	<95.9	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Hexachlorocyclopentadiene	EPA 8270E	<386	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Hexachloroethane	EPA 8270E	<169	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Indeno(1,2,3-cd) pyrene	EPA 8270E	138		µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
Isophorone	EPA 8270E	<79.5	U	µg/kg	2040	5	10/29/25 21:41	10/28/25 11:33
Methylphenol, Total	EPA 8270E	<110	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Naphthalene	EPA 8270E	<52.0	U	µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
Nitrobenzene	EPA 8270E	<137	U	µg/kg	2040	5	10/29/25 21:41	10/28/25 11:33
n-Nitrosodi-n-propylamine	EPA 8270E	<67.2	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
N-Nitrosodiphenylamine	EPA 8270E	<236	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Pentachlorophenol	EPA 8270E	<323	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Phenanthrene	EPA 8270E	81.4		µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
Phenol	EPA 8270E	<204	U	µg/kg	403	5	10/29/25 21:41	10/28/25 11:33
Pyrene	EPA 8270E	195		µg/kg	81.4	5	10/29/25 21:41	10/28/25 11:33
Pyridine	EPA 8270E	<801	U	µg/kg	2040	5	10/29/25 21:41	10/28/25 11:33
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	79.6		%REC	48-94	5	10/29/25 21:41	10/28/25 11:33
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	69.8		%REC	50-103	5	10/29/25 21:41	10/28/25 11:33
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	62.3		%REC	43-105	5	10/29/25 21:41	10/28/25 11:33
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	73.1		%REC	55-111	5	10/29/25 21:41	10/28/25 11:33
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	68.6		%REC	47-100	5	10/29/25 21:41	10/28/25 11:33
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	64.4		%REC	49-110	5	10/29/25 21:41	10/28/25 11:33

QA/QC Report



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

Work Order: HN2516058
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: HN2516058-001



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

Work Order: HN2516058
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

QA/QC Report



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

Work Order: HN2516058
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: HN2516058
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: HN2516058
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: HN2516058
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: HN2516058
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: HN2516058
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: HN2516058
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: HN2516058-001



right solutions.
right partner.

November 19, 2025

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

Re: **9337 Cresswell**

Date Received: **11/13/2025**

Work Order: **HN2517158**

Dear Ryan,

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

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

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

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

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

Kathy Jones-Gronda

/S/ KATHY JONES-GRONDA

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: 9337 Cresswell

Work Order: HN2517158
Date Received: 13-Nov-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 13-Nov-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: 9337 Cresswell
Workorder: HN2517158

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2517158-001	9337 Cresswell SB02 (5-6')-R	SOIL/SOLID	11/12/25 14:21	11/13/25 06:00



ALS Environmental

Laboratory location:

Chain of Custody Form

Page ____ of ____

Environmental Division
Holland
Work Order Reference
HN2517158

Telephone : + 1 616 399 6070

Customer Information		Project Information					Parameter/Method												
Purchase Order		Project Name	9337 Cresswell					A	TCLP Lead										
Work Order	Quote ID - 11631	Project Number	DETR0060					B											
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group					C											
Send Report To	Ryan Montri	Invoice Attn.						D											
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road					E											
								F											
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188					G											
Phone	734-397-3100	Phone	734-397-3100					H											
Fax		Fax						I											
e-Mail Address	rmontri@manniksmithgroup.com	e-Mail Address						J											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	9337 Cresswell SB02 (5-6')-R	11/12/25	1421	soil	7	1	X												
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:				☒ Other 72-HR				Results Due Date:							
Wiley Davenport				☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour															
Relinquished by:		Date:	Time:	Received by:			Notes:												
Brock Johnson		11/12/25	15:40				Rec'd 11/13/25 0600			DZL									
Relinquished by:		Date:	Time:	Received by (Laboratory):			Cooler Temp.			QC Package: (Check Box Below)									
		11/13/25	1700				18.6 3.9°C			☐ Level II: Standard QC ☐ TRRP-Checklist									
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):						☐ Level III: Std QC + Raw Data ☐ TRRP Level IV									
DFS		11/13/25	0845							☐ Level IV: SW846 CLP-Like									
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035										Other: _____									

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Please click the link below for detailed Terms & Conditions:

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

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ALS Holland
3352 128th Ave., Holland MI 49424

ALS Holland Sample Receiving Checklist

Received by:

Diane F. Shaw

Date/Time:

11/13/25 0600

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):

3.9/3.9°C

Thermometer(s):

1R6

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

Soil

Cooler(s)/Kit(s):

1

Date/Time sample(s) sent to storage:

11/13/25 0845

Water – VOA vials have zero headspace?

Yes / No / ☒ No Vials

Water – pH acceptable upon receipt?

Yes / No / ☒ N/A

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

pH adjusted (note adjustments below)?

Yes / No / ☒ N/A

pH adjusted by:

Login Notes:

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: 9337 Cresswell

Work Order: HN2517158

Sample Name: 9337 Cresswell SB02 (5-6')-R
Laboratory Code: HN2517158-001
Sample Matrix: SOIL/SOLID

Date Collected: 11/12/25
Date Received: 11/13/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AC	2339807	Chloe Patrick	3693720	Stephanie Pierson

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 9337 Cresswell
Matrix: SOIL/SOLID

Work Order: HN2517158
Date Collected: 11/12/25 14:21
Date Received: 11/13/25 06:00

CLIENT ID: 9337 Cresswell SB02 (5-6')-R

Lab ID: HN2517158-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Lead	EPA 6020B	<0.00220	U	mg/L	0.0499	1	11/18/25 05:44	11/17/25 11:49

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 9337 Cresswell
Matrix: SOIL/SOLID
QC Lot: 2339807

Work Order: HN2517158
Date Collected: NA
Date Received: NA
Run ID: 3693720

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2339807-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 11/18/25 05:17
Prep Date: 11/17/25 11:50

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2339807-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 11/18/25 05:20
Prep Date: 11/17/25 11:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Lead	1.06	mg/L	0.0499	1		106	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2339807-004
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 11/18/25 05:29
Prep Date: 11/17/25 11:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Lead	1.10	mg/L	0.0499	1	0.0289	107	75-125			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2339807-005
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 11/18/25 05:32
Prep Date: 11/17/25 11:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Lead	1.07	mg/L	0.0499	1	0.0289	104	75-125	2.32	20	

The following samples were analyzed in this batch: HN2517158-001