

DRAFT

FILL MATERIAL SAMPLING REPORT

**8102 CURT STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48221**



**OCTOBER 24, 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

**8102 CURT STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48221**

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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 8102 Curt Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location, as referenced to nearby roads and major geographic features, is shown on Figure 1, *Site Location Map*. Figure 2, *Site Layout*, depicts the current layout of the Site.

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

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

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

- The stratigraphy encountered during soil boring advancement of 8102 SB01, 8102 SB02, and 8102 SB03 generally consisted of dark brown clayey silt with sand and concrete brick debris 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 4.1 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 debris was observed in each soil boring.
- Concentrations of chromium (Total) were detected in soil sample 8102 SB03 (3-4') in excess of its respective Part 201 groundwater surface water interface protection criteria (GSIPC).
- Concentrations of 4,4-DDD, 4,4-DDE, 4,4-DDT, arsenic, barium, chloride, copper, lead, mercury, methylcyclohexane, and zinc were detected in soil samples 8102 SB01 (5-6'), 8102 SB02 (1-2'), and/or 8102 SB03 (3-4') 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 chromium 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*.
- SVOCs and PCBs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the groundwater surface water exposure pathway can be considered not applicable.

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

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

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 8102 Curt Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location as referenced to nearby roads and major geographic features is presented as *Figure 1, Site Location Map*. *Figure 2, Site Layout*, depicts the current layout of the Site.

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

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

2.0 PURPOSE AND SCOPE OF WORK

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

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

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

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

3.0 SITE ASSESSMENT METHODOLOGY

The following subsections describe the methodologies employed by MSG at the Site during sampling activities that were conducted on August 13, 2025 and October 13, 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) soil borings, designated 8102 SB01, 8102 SB02, and 8102 SB03, using a direct push drill rig at the locations depicted on Figure 2. Photographs collected during completion of this work are provided in *Appendix C, Investigation Photographs*.

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

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

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

3.3 Toxicity Characteristic Leaching Procedure (TCLP) Soil Sample Collection

On October 13, 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.

3.4 Decontamination

Before initiation of sampling and drilling activities and between each sampling/soil boring, equipment was cleaned to avoid the potential for cross-contamination during field activities. Pertinent equipment and tooling

were thoroughly cleaned using a phosphate-free soap to remove chemical residue and caked-on soils. After sample collection was completed, each soil boring location was abandoned with the soil cuttings generated at each soil boring location and finished to match the original surface.

3.5 Analytical Methods

A total of three (3) soil samples, designated 8102 SB01 (5-6'), 8102 SB02 (1-2'), and 8102 SB03 (3-4'), and one (1) composite soil sample designated 8102 Curt (0'-6') Comp were collected as part of this investigation. These soil samples were submitted to ALS Environmental Laboratory (ALS) in Holland, Michigan for laboratory analysis of the following parameters per the requested parameters as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and individual TCLP analysis:

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

3.6 Quality Assurance/Quality Control

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

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

4.0 SUMMARY OF RESULTS

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

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 8102 SB01, 8102 SB02, and 8102 SB03 generally consisted of dark brown clayey silt with sand and concrete brick debris to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 4.1 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 debris was observed in all borings.

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

4.2 Soil Sample Analytical Results

Three (3) soil samples, designated 8102 SB01 (5-6'), 8102 SB02 (1-2'), and 8102 SB03 (3-4'), were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration (µg/kg ¹)	Maximum Detected Concentration (µg/kg)
Chromium (Total)	7440-47-3	8102 SB03 (3-4')	GSIPC ² / 3,300	22,600

¹µg/kg – micrograms per kilogram;

²GSIPC – Groundwater Surface Water Interface Protection Criteria

4.3 TCLP Analytical Results

Chromium was 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 groundwater surface water exposure pathway can be considered not applicable.

5.0 FINDINGS

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

- The stratigraphy encountered during soil boring advancement of 8102 SB01, 8102 SB02, and 8102 SB03 generally consisted of dark brown clayey silt with sand and concrete brick debris to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 4.1 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 debris was observed in each soil boring.
- Concentrations of chromium (Total) were detected in soil sample 8102 SB03 (3-4') in excess of its respective Part 201 GSIPC.
- Concentrations of 4,4-DDD, 4,4-DDE, 4,4-DDT, arsenic, barium, chloride, copper, lead, mercury, methylcyclohexane, and zinc were detected in soil samples 8102 SB01 (5-6'), 8102 SB02 (1-2'), and/or 8102 SB03 (3-4') 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 chromium 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.

- SVOCs and PCBs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the groundwater surface water exposure pathway can be considered not applicable.

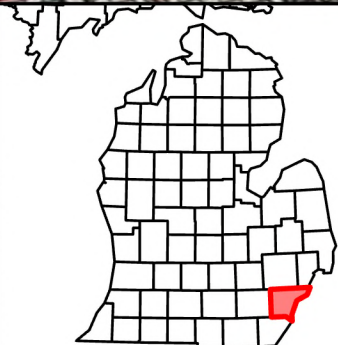
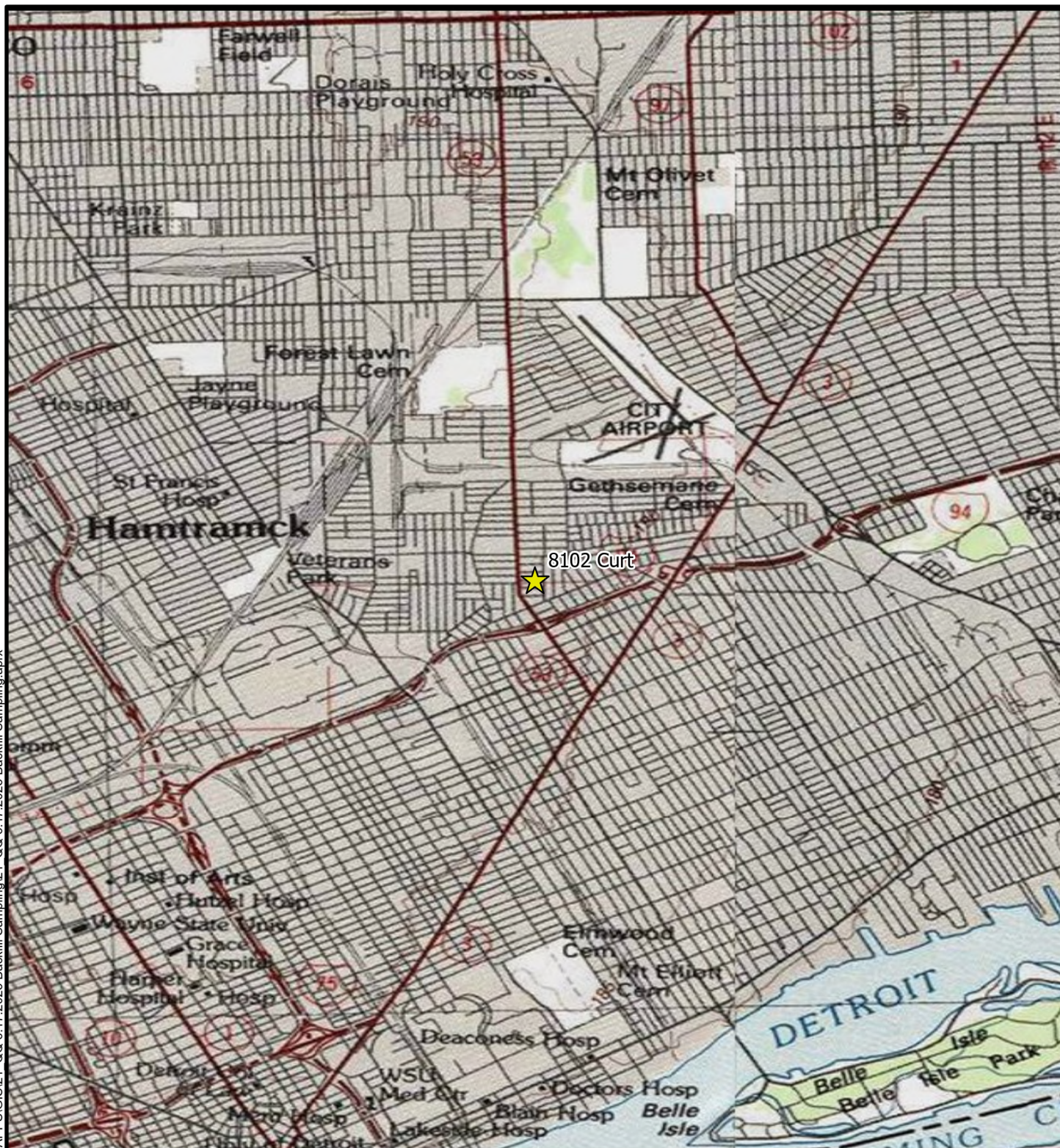
MSG has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the state's Part 201 GRCC, as applicable.

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

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FIGURES





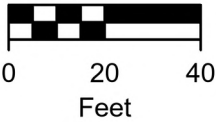
★ Site Location



FIGURE 1
 SITE LOCATION

8102 Curt, 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

8102 Curt, Detroit, MI

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



Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
8102 Curt, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 Units: µg/kg			Volatile Organic Compounds (VOCs)	Semivolatile Organic Compounds (SVOCs)	Michigan 10 Metals										Pesticides/Herbicides			Polychlorinated Biphenyls (PCBs)	Inorganic Anions/Ions	
			Methylcyclohexane		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		Chloride	
CAS Number			108-87-2		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		16887006	
Statewide Default Background Levels			NA		5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000	NA	NA	NA		NA	
Drinking Water Protection Criteria (DWPC)			NA		4,600	1.3E+06	6,000	30,000	5.8E+06	7.0E+05	1,700	4,000	4,500	2.4E+06	NLL	NLL	NLL		5.00E+06	
Groundwater Surface Water Interface Protection Criteria (GSIPC)			NA		4,600	(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27	(G)	NLL	NLL	NLL		(X)	
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NA		NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV	NLV	NLV	NLV		NLV	
Soil Volatilization to Indoor Air Pathway (SVIAP)			--		NA	NA	NA	--	NA	NA	22 (M)	NA	NA	NA	NLV	NA	--		--	
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NA		NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV		NLV	
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NA		NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV		NLV	
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NA		NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV		NLV	
Particulate Soil Inhalation Criteria (PSIC)			NA		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		ID	
Direct Contact Criteria (DCC)			NA		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		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	
Recommended Interim Action Screening Level (RIASL)			NA		NA	NA	NA	NA	NA	NA	2.7E-02	NA	NA	NA	NA	NA	--		--	
SAMPLE ID		DEPTH	SAMPLE DATE																	
8102 SB01		5-6	8/13/2025	<32.7	ND	5,320	34,800	<1,330	11,600	13,800	32,800	29.6	<3,330	<3,330	60,600	6.6	78	19	ND	33,600
8102 SB02		1-2	8/13/2025	<35.2	ND	4,330	32,700	<1,230	8,940	10,700	38,600	42.7	<3,080	<3,080	54,700	13	110	25	ND	43,200
8102 SB03		3-4	8/13/2025	53.3	ND	4,600	44,700	<1,360	22,600	12,500	27,600	23.6	<3,390	<3,390	50,500	4.1	44	13	ND	55,600

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
8102 Curt, 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
Maximum Concentration of Contaminants for the Toxicity Characteristic		Chromium 5.00
SAMPLE ID	SAMPLE DATE	
8102 Curt SB3 (0'-6') Comp	10/13/2025	<0.00610

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

APPENDIX A

LIMITATIONS



LIMITATIONS

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

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

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

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

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

APPENDIX B

DAILY FIELD REPORTS



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

Date: 08/13/2025	Day: Wednesday	Temp: 75° F	(AM) N/A	(PM)
MSG Personnel: WRD, ZRG, JDF		Cloud Cover: ~10%	(AM) N/A	(PM)
		Precip.: None	(AM) N/A	(PM)
Personnel: MSG				
MSG Hours On-Site: 1.25 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:
1029 – ZRG & WRD onsite (8102 Curt St) 1030 – Unloaded equipment and checked boring locations 1031– Began drilling SB01 1041 – Finished drilling SB01 1042 – Began drilling SB02 1049 – Finished drilling SB02 1057 – Began drilling SB03 1109 – Finished drilling SB03 1115 – Sampled 8102 SB01 (5-6') 1120 – Sampled 8102 SB02 (1-2') 1125 – Sampled 8102 SB03 (3-4') 1131 – Packed up equipment 1143 – 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 – 8102 Curt

Report No.: 2
Job No.: DETR0060

Date: 10/13/2025	Day: Monday	Temp: - (AM) 69° F (PM)
MSG Personnel: EMB, BSM		Cloud Cover: 0% (AM) 10% (PM)
		Precip.: None (AM) None (PM)
Personnel: MSG		Wind: - (AM) 8 mph ENE (PM)
MSG Hours On-Site: ~0.75 hours		
Contractors Information		
Contractor: MSG	No. Men and Type: 2; Helper/Geologist/Driller	Equipment Type: Geoprobe 7822DT
Summary of Work Performed:		
- Advanced one (1) onsite soil boring to a maximum depth of 6 feet below ground surface (bgs) - Collected a composite soil sample from the soil boring from 0'-6'.		
Field Notes:		
1240 – MSG onsite (8102 Curt). 1300 - Collected composite sample from SB-3 from 0'-6'. 8102 Curt SB-3 (0'-6') Comp. - MSG GPS'd SB location. 1308 – MSG off site.		

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

APPENDIX C

INVESTIGATION PHOTOGRAPHS





Photo 1: View of Site at the time of TCLP soil boring activities



Photo 2: View of TCLP soil boring location



Photo 3: View of soil recovery at the time of TCLP sampling



Photo 4: Close-up view of soil recovery at the time of TCLP sampling

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.BFS16
DATE STARTED 08-13-2025 **COMPLETED** 08-13-2025
DRILLING CONTRACTOR MSG
DRILLING METHOD Direct Push
EQUIPMENT Geoprobe 7822DT **Operator** JDF

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 8102 Curt, 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		Dark Brown Clayey SILT, some Sand, little Concrete & Brick debris; dry	0.0 0.0 0.0 0.0 1.8 4.1	Collected soil sample 8102 SB01 (5-6) at 11:15
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 SB02

Sheet 1 of 1

CLIENT City of Detroit
PROJECT NUMBER DETR0060.BFS16
DATE STARTED 08-13-2025 **COMPLETED** 08-13-2025
DRILLING CONTRACTOR MSG
DRILLING METHOD Direct Push
EQUIPMENT Geoprobe 7822DT **Operator** JDF

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 8102 Curt, 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	50		Dark Brown Clayey SILT, some Sand, little Concrete & Brick debris; dry	0.0	Collected soil sample
					0.2	8102 SB02 (1-2) at 11:20
					0.1	
					0.1	
					0.1	
					0.2	
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.BFS16
DATE STARTED 08-13-2025 **COMPLETED** 08-13-2025
DRILLING CONTRACTOR MSG
DRILLING METHOD Direct Push
EQUIPMENT Geoprobe 7822DT **Operator** JDF

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 8102 Curt, 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	33		Dark Brown Clayey SILT, some Sand, little Concrete & Brick debris; dry	0.0	
					0.0	
					0.0	
					0.0	Collected soil sample 8102 SB03 (3-4) at 11:25
					0.0	
					0.0	
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

HN2511526

Client

The Mannik & Smith Group, Inc.

Project

8102_Curt

Project Date

August 15, 2025

Reporting Contact

Ryan Montri



right solutions.
right partner.

September 12, 2025

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

Re: **8102_Curt**

Date Received: **08/15/2025**

Work Order: **HN2511526**

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: 8102_Curt

Work Order: HN2511526
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.

Organics

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

Run ID: 3434800

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

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

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

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

Run ID: 3431701

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

The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: 1,1,2,2-tetrachloroethane, bromodichloromethane

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

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

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

Carbon disulfide, 1,1-Dichloroethylene

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

The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for the following analyte(s): 1,1,2,2-tetrachloroethane, bromodichloromethane

EPA 6020B-3050B-S

Run ID: 3418159

The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Pb, Zn Batch 2170128

The MS recovery was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Cu Batch 2170128

The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Pb, Zn Batch 2170128

HN2511526-001: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511526-001: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511526-001: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511526-002: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511526-002: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511526-002: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511526-003: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511526-003: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511526-003: 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: 8102 SB01 (5-6)	Lab ID: HN2511526-001
-----------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	5.32		3.33	mg/kg	EPA 6020B
Barium	34.8		3.33	mg/kg	EPA 6020B
Chloride	33.6		11.0	mg/kg	EPA 9056A
Chromium	11.6		3.33	mg/kg	EPA 6020B
Copper	13.8		3.33	mg/kg	EPA 6020B
Lead	32.8		3.33	mg/kg	EPA 6020B
Mercury	0.0296		0.0210	mg/kg	EPA 7471B
Percent Moisture	9.1		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	60.6		6.67	mg/kg	EPA 6020B

CLIENT ID: 8102 SB02 (1-2)	Lab ID: HN2511526-002
-----------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	4.33		3.08	mg/kg	EPA 6020B
Barium	32.7		3.08	mg/kg	EPA 6020B
Chloride	43.2		11.0	mg/kg	EPA 9056A
Chromium	8.94		3.08	mg/kg	EPA 6020B
Copper	10.7		3.08	mg/kg	EPA 6020B
Lead	38.6		3.08	mg/kg	EPA 6020B
Mercury	0.0427		0.0200	mg/kg	EPA 7471B
Percent Moisture	8.2		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	54.7		6.16	mg/kg	EPA 6020B

CLIENT ID: 8102 SB03 (3-4)	Lab ID: HN2511526-003
-----------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	4.60		3.39	mg/kg	EPA 6020B
Barium	44.7		3.39	mg/kg	EPA 6020B
Chloride	55.6		10.9	mg/kg	EPA 9056A
Chromium	22.6		3.39	mg/kg	EPA 6020B
Copper	12.5		3.39	mg/kg	EPA 6020B
Lead	27.6		3.39	mg/kg	EPA 6020B
Mercury	0.0236		0.0212	mg/kg	EPA 7471B
Methylcyclohexane	53.3		33.3	µg/kg	EPA 8260D
Percent Moisture	8.5		0.1	%	EPA 3550C

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: 8102 SB03 (3-4)

Lab ID: HN2511526-003

Analyte	Results	Flag	MRL	Units	Method
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	50.5		6.79	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 8102_Curt
Workorder: HN2511526

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511526-001	8102 SB01 (5-6)	SOIL/SOLID	08/13/25 11:15	08/15/25 08:00
HN2511526-002	8102 SB02 (1-2)	SOIL/SOLID	08/13/25 11:20	08/15/25 08:00
HN2511526-003	8102 SB03 (3-4)	SOIL/SOLID	08/13/25 11:25	08/15/25 08:00



ALS Environmental

Laboratory location:

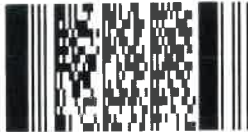
Chain of Custody Form

Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis													
Purchase Order		Project Name	8102_Curt	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 Chlorides (U.S. EPA Method 9056A)													
				F Pesticides (U.S. EPA Method 8081B (or Method 8081))													
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188	G Herbicides (U.S. EPA Method 8151A (or Method 8151))													
Phone	734-397-3100	Phone	734-397-3100	H													
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	8102 SB01 (5-6)	8/13/25	1115	Soil	METH	3											
2	8102 SB02 (1-2)	8/13/25	1120	Soil	---	3											
3	8102 SB03 (3-4)	8/13/25	1125	Soil	---	3											
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Environmental Division
Holland
Work Order Reference
HN2511526



Telephone : +1 616 399 6070

Sampler(s): Please Print & Sign WILEY DAVENPORT		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Results Due Date:	
Relinquished by: WILEY		Date: 8/14/25	Time: 1420	Received by:		Notes: Quote# HN-061825-M&S-MA	
Relinquished by:		Date: 8/14/25	Time: 1700	Received by (Laboratory):		Cooler Temp. QC Package: (Check Box Below)	
Logged by (Laboratory): BC		Date: 8/15/25	Time: 10:53	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: _____	

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: Q.S.

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): 2.4°C

Thermometer(s): IR6

Sample(s) received on ice? Yes / No

Matrix/Matrices: ~~water~~ BC soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 8/15/25 11:00

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: 8102_Curt

Work Order: HN2511526

Sample Name: 8102 SB01 (5-6) **Date Collected:** 08/13/25
Laboratory Code: HN2511526-001 **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	2170197		3416403	Nicole Maleski
EPA 6020B	EPA 3050B	001-AC	2170128	Weston Kotecki	3418159	Hunter Johnson
EPA 7471B	Method	001-AC	2172932	Maxx Richey	3422787	Maxx Richey
EPA 8081B		001-AD			3490940	Bill Carey
EPA 8082A		001-AD			3490940	Bill Carey
EPA 8151A		001-AD			3490940	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2162539	Jonathan Vazquez	3431701	John Garvale
EPA 8270E		001-AD			3490940	Bill Carey
EPA 9056A	EPA 9056A	001-AC	2166599	Quoc Nguyen	3412595	Riley Miller

Sample Name: 8102 SB02 (1-2) **Date Collected:** 08/13/25
Laboratory Code: HN2511526-002 **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	2170197		3416403	Nicole Maleski
EPA 6020B	EPA 3050B	002-AC	2170128	Weston Kotecki	3418159	Hunter Johnson
EPA 7471B	Method	002-AC	2172932	Maxx Richey	3422787	Maxx Richey
EPA 8081B		002-AD			3490940	Bill Carey
EPA 8082A		002-AD			3490940	Bill Carey
EPA 8151A		002-AD			3490940	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2162539	Jonathan Vazquez	3431701	John Garvale
EPA 8270E		002-AD			3490940	Bill Carey
EPA 9056A	EPA 9056A	002-AC	2166599	Quoc Nguyen	3412595	Riley Miller

Sample Name: 8102 SB03 (3-4) **Date Collected:** 08/13/25
Laboratory Code: HN2511526-003 **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	2170197		3416403	Nicole Maleski

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 8102_Curt

Work Order: HN2511526

Sample Name: 8102 SB03 (3-4)
Laboratory Code: HN2511526-003
Sample Matrix: SOIL/SOLID

Date Collected: 08/13/25
Date Received: 08/15/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3050B Method	003-AC	2170128	Weston Kotecki	3418159	Hunter Johnson
EPA 7471B		003-AC	2172932	Maxx Richey	3422787	Maxx Richey
EPA 8081B		003-AD			3490940	Bill Carey
EPA 8082A		003-AD			3490940	Bill Carey
EPA 8151A	EPA 5035A	003-AD			3490940	Bill Carey
EPA 8260D		003-AA	2162930	Jonathan Vazquez	3434800	Caroline Cox
EPA 8270E		003-AD			3490940	Bill Carey
EPA 9056A	EPA 9056A	003-AC	2166599	Quoc Nguyen	3412595	Riley Miller

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8102_Curt
Matrix: SOIL/SOLID

Work Order: HN2511526
Date Collected: 08/13/25 11:15
Date Received: 08/15/25 08:00

CLIENT ID: 8102 SB01 (5-6)	Lab ID: HN2511526-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	9.1		%	0.1	1	08/20/25 14:08	NA
Chloride	EPA 9056A	33.6		mg/kg	11.0	1	08/18/25 21:20	08/18/25 15:49
Metals								
Arsenic	EPA 6020B	5.32		mg/kg	3.33	10	08/20/25 21:31	08/20/25 10:10
Barium	EPA 6020B	34.8		mg/kg	3.33	10	08/20/25 21:31	08/20/25 10:10
Cadmium	EPA 6020B	ND		mg/kg	1.33	10	08/20/25 21:31	08/20/25 10:10
Chromium	EPA 6020B	11.6		mg/kg	3.33	10	08/20/25 21:31	08/20/25 10:10
Copper	EPA 6020B	13.8		mg/kg	3.33	10	08/20/25 21:31	08/20/25 10:10
Lead	EPA 6020B	32.8		mg/kg	3.33	10	08/20/25 21:31	08/20/25 10:10
Selenium	EPA 6020B	ND		mg/kg	3.33	10	08/20/25 21:31	08/20/25 10:10
Silver	EPA 6020B	ND		mg/kg	3.33	10	08/20/25 21:31	08/20/25 10:10
Zinc	EPA 6020B	60.6		mg/kg	6.67	10	08/20/25 21:31	08/20/25 10:10
Mercury	EPA 7471B	0.0296		mg/kg	0.0210	1	08/22/25 09:01	08/21/25 15:34
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/12/25 16:28	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/12/25 16:28	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/12/25 16:28	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/12/25 16:28	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	109	1	08/23/25 05:38	08/15/25 13:16
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	109	1	08/23/25 05:38	08/15/25 13:16
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	109	1	08/23/25 05:38	08/15/25 13:16

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8102_Curt
Matrix: SOIL/SOLID

Work Order: HN2511526
Date Collected: 08/13/25 11:15
Date Received: 08/15/25 08:00

CLIENT ID: 8102 SB01 (5-6) **Lab ID: HN2511526-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	109	1	08/23/25 05:38	08/15/25 13:16
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	109	1	08/23/25 05:38	08/15/25 13:16
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	65.5	1	08/23/25 05:38	08/15/25 13:16
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	218	1	08/23/25 05:38	08/15/25 13:16
2-Hexanone	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Acetone	EPA 8260D	ND		µg/kg	109	1	08/23/25 05:38	08/15/25 13:16
Benzene	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Bromochloromethane	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Bromodichloromethane	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Bromoform	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Carbon disulfide	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Carbon tetrachloride	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Chlorobenzene	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Chlorodibromomethane	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	109	1	08/23/25 05:38	08/15/25 13:16
Chloroform	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	65.5	1	08/23/25 05:38	08/15/25 13:16
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Cyclohexane	EPA 8260D	ND		µg/kg	109	1	08/23/25 05:38	08/15/25 13:16
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	109	1	08/23/25 05:38	08/15/25 13:16
Ethylbenzene	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Isopropylbenzene	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8102_Curt
Matrix: SOIL/SOLID

Work Order: HN2511526
Date Collected: 08/13/25 11:15
Date Received: 08/15/25 08:00

CLIENT ID: 8102 SB01 (5-6) **Lab ID: HN2511526-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	65.5	1	08/23/25 05:38	08/15/25 13:16
Methyl acetate	EPA 8260D	ND		µg/kg	273	1	08/23/25 05:38	08/15/25 13:16
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	109	1	08/23/25 05:38	08/15/25 13:16
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	109	1	08/23/25 05:38	08/15/25 13:16
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Methylcyclohexane	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	273	1	08/23/25 05:38	08/15/25 13:16
o-Xylene	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Styrene	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Toluene	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Total Xylene	EPA 8260D	ND		µg/kg	98.2	1	08/23/25 05:38	08/15/25 13:16
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	32.7	1	08/23/25 05:38	08/15/25 13:16
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	94.9		%REC	80-120	1	08/23/25 05:38	08/15/25 13:16
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	103		%REC	80-120	1	08/23/25 05:38	08/15/25 13:16
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	90.1		%REC	80-120	1	08/23/25 05:38	08/15/25 13:16
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	08/23/25 05:38	08/15/25 13:16

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8102_Curt
Matrix: SOIL/SOLID

Work Order: HN2511526
Date Collected: 08/13/25 11:20
Date Received: 08/15/25 08:00

CLIENT ID: 8102 SB02 (1-2)	Lab ID: HN2511526-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	8.2		%	0.1	1	08/20/25 14:08	NA
Chloride	EPA 9056A	43.2		mg/kg	11.0	1	08/18/25 21:28	08/18/25 15:49
Metals								
Arsenic	EPA 6020B	4.33		mg/kg	3.08	10	08/20/25 21:33	08/20/25 10:10
Barium	EPA 6020B	32.7		mg/kg	3.08	10	08/20/25 21:33	08/20/25 10:10
Cadmium	EPA 6020B	ND		mg/kg	1.23	10	08/20/25 21:33	08/20/25 10:10
Chromium	EPA 6020B	8.94		mg/kg	3.08	10	08/20/25 21:33	08/20/25 10:10
Copper	EPA 6020B	10.7		mg/kg	3.08	10	08/20/25 21:33	08/20/25 10:10
Lead	EPA 6020B	38.6		mg/kg	3.08	10	08/20/25 21:33	08/20/25 10:10
Selenium	EPA 6020B	ND		mg/kg	3.08	10	08/20/25 21:33	08/20/25 10:10
Silver	EPA 6020B	ND		mg/kg	3.08	10	08/20/25 21:33	08/20/25 10:10
Zinc	EPA 6020B	54.7		mg/kg	6.16	10	08/20/25 21:33	08/20/25 10:10
Mercury	EPA 7471B	0.0427		mg/kg	0.0200	1	08/22/25 09:09	08/21/25 15:34
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/12/25 16:28	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/12/25 16:28	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/12/25 16:28	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/12/25 16:28	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	117	1	08/23/25 05:57	08/15/25 13:16
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	117	1	08/23/25 05:57	08/15/25 13:16
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	117	1	08/23/25 05:57	08/15/25 13:16

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8102_Curt
Matrix: SOIL/SOLID

Work Order: HN2511526
Date Collected: 08/13/25 11:20
Date Received: 08/15/25 08:00

CLIENT ID: 8102 SB02 (1-2) **Lab ID: HN2511526-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	117	1	08/23/25 05:57	08/15/25 13:16
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	117	1	08/23/25 05:57	08/15/25 13:16
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	70.4	1	08/23/25 05:57	08/15/25 13:16
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	235	1	08/23/25 05:57	08/15/25 13:16
2-Hexanone	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Acetone	EPA 8260D	ND		µg/kg	117	1	08/23/25 05:57	08/15/25 13:16
Benzene	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Bromochloromethane	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Bromodichloromethane	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Bromoform	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Carbon disulfide	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Carbon tetrachloride	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Chlorobenzene	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Chlorodibromomethane	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	117	1	08/23/25 05:57	08/15/25 13:16
Chloroform	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	70.4	1	08/23/25 05:57	08/15/25 13:16
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Cyclohexane	EPA 8260D	ND		µg/kg	117	1	08/23/25 05:57	08/15/25 13:16
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	117	1	08/23/25 05:57	08/15/25 13:16
Ethylbenzene	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Isopropylbenzene	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8102_Curt
Matrix: SOIL/SOLID

Work Order: HN2511526
Date Collected: 08/13/25 11:20
Date Received: 08/15/25 08:00

CLIENT ID: 8102 SB02 (1-2) **Lab ID: HN2511526-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	70.4	1	08/23/25 05:57	08/15/25 13:16
Methyl acetate	EPA 8260D	ND		µg/kg	293	1	08/23/25 05:57	08/15/25 13:16
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	117	1	08/23/25 05:57	08/15/25 13:16
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	117	1	08/23/25 05:57	08/15/25 13:16
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Methylcyclohexane	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	293	1	08/23/25 05:57	08/15/25 13:16
o-Xylene	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Styrene	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Toluene	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Total Xylene	EPA 8260D	ND		µg/kg	106	1	08/23/25 05:57	08/15/25 13:16
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	35.2	1	08/23/25 05:57	08/15/25 13:16
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	95.4		%REC	80-120	1	08/23/25 05:57	08/15/25 13:16
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	08/23/25 05:57	08/15/25 13:16
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	90.0		%REC	80-120	1	08/23/25 05:57	08/15/25 13:16
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	08/23/25 05:57	08/15/25 13:16

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8102_Curt
Matrix: SOIL/SOLID

Work Order: HN2511526
Date Collected: 08/13/25 11:25
Date Received: 08/15/25 08:00

CLIENT ID: 8102 SB03 (3-4)	Lab ID: HN2511526-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	8.5		%	0.1	1	08/20/25 14:08	NA
Chloride	EPA 9056A	55.6		mg/kg	10.9	1	08/18/25 21:36	08/18/25 15:49
Metals								
Arsenic	EPA 6020B	4.60		mg/kg	3.39	10	08/20/25 21:35	08/20/25 10:10
Barium	EPA 6020B	44.7		mg/kg	3.39	10	08/20/25 21:35	08/20/25 10:10
Cadmium	EPA 6020B	ND		mg/kg	1.36	10	08/20/25 21:35	08/20/25 10:10
Chromium	EPA 6020B	22.6		mg/kg	3.39	10	08/20/25 21:35	08/20/25 10:10
Copper	EPA 6020B	12.5		mg/kg	3.39	10	08/20/25 21:35	08/20/25 10:10
Lead	EPA 6020B	27.6		mg/kg	3.39	10	08/20/25 21:35	08/20/25 10:10
Selenium	EPA 6020B	ND		mg/kg	3.39	10	08/20/25 21:35	08/20/25 10:10
Silver	EPA 6020B	ND		mg/kg	3.39	10	08/20/25 21:35	08/20/25 10:10
Zinc	EPA 6020B	50.5		mg/kg	6.79	10	08/20/25 21:35	08/20/25 10:10
Mercury	EPA 7471B	0.0236		mg/kg	0.0212	1	08/22/25 09:11	08/21/25 15:34
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/12/25 16:28	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/12/25 16:28	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/12/25 16:28	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/12/25 16:28	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
1,1,2,2-Tetrachloroethane	EPA 8260D	ND	S	µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	111	1	08/25/25 20:27	08/15/25 15:57
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	111	1	08/25/25 20:27	08/15/25 15:57
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	111	1	08/25/25 20:27	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8102_Curt
Matrix: SOIL/SOLID

Work Order: HN2511526
Date Collected: 08/13/25 11:25
Date Received: 08/15/25 08:00

CLIENT ID: 8102 SB03 (3-4) **Lab ID: HN2511526-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	111	1	08/25/25 20:27	08/15/25 15:57
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	111	1	08/25/25 20:27	08/15/25 15:57
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
1,3-Dichloropropene	EPA 8260D	ND	S	µg/kg	66.6	1	08/25/25 20:27	08/15/25 15:57
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	222	1	08/25/25 20:27	08/15/25 15:57
2-Hexanone	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Acetone	EPA 8260D	ND	S	µg/kg	111	1	08/25/25 20:27	08/15/25 15:57
Benzene	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Bromochloromethane	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Bromodichloromethane	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Bromoform	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Carbon disulfide	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Carbon tetrachloride	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Chlorobenzene	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Chlorodibromomethane	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	111	1	08/25/25 20:27	08/15/25 15:57
Chloroform	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	66.6	1	08/25/25 20:27	08/15/25 15:57
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
cis-1,3-Dichloropropene	EPA 8260D	ND	S	µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Cyclohexane	EPA 8260D	ND		µg/kg	111	1	08/25/25 20:27	08/15/25 15:57
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	111	1	08/25/25 20:27	08/15/25 15:57
Ethylbenzene	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Isopropylbenzene	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8102_Curt
Matrix: SOIL/SOLID

Work Order: HN2511526
Date Collected: 08/13/25 11:25
Date Received: 08/15/25 08:00

CLIENT ID: 8102 SB03 (3-4)	Lab ID: HN2511526-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	66.6	1	08/25/25 20:27	08/15/25 15:57
Methyl acetate	EPA 8260D	ND		µg/kg	278	1	08/25/25 20:27	08/15/25 15:57
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	111	1	08/25/25 20:27	08/15/25 15:57
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	111	1	08/25/25 20:27	08/15/25 15:57
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Methylcyclohexane	EPA 8260D	53.3		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	278	1	08/25/25 20:27	08/15/25 15:57
o-Xylene	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Styrene	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND	S	µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Toluene	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Total Xylene	EPA 8260D	ND		µg/kg	99.9	1	08/25/25 20:27	08/15/25 15:57
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
trans-1,3-Dichloropropylene	EPA 8260D	ND	S	µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Trichloroethene (Trichloroethylene)	EPA 8260D	ND	S	µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	33.3	1	08/25/25 20:27	08/15/25 15:57
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	98.0		%REC	80-120	1	08/25/25 20:27	08/15/25 15:57
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	103		%REC	80-120	1	08/25/25 20:27	08/15/25 15:57
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	94.6		%REC	72-120	1	08/25/25 20:27	08/15/25 15:57
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	102		%REC	80-120	1	08/25/25 20:27	08/15/25 15:57



November 19, 2025

Service Request No:R2510171

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

Laboratory Results for: 8102_Curt

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 **R2510171**.

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

PHONE

+1 585 288 5380

FAX

+1 585 288 8475

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: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
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:

No significant anomalies were noted with this analysis.

Semivolatile GC:

Method 8081B, 09/11/2025: 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.

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: 8102 SB01 (1-2)	Lab ID: R2510171-001
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	6.6		1.9	3.7	ug/Kg	8081B
4,4'-DDE	78		1.9	3.7	ug/Kg	8081B
4,4'-DDT	19		1.9	3.7	ug/Kg	8081B
Benzo(b)fluoranthene	76	J	60	360	ug/Kg	8270E
Chrysene	58	J	53	360	ug/Kg	8270E
Fluoranthene	94	J	90	360	ug/Kg	8270E
Pyrene	75	J	60	360	ug/Kg	8270E
Total Solids	90.9				Percent	ALS SOP

CLIENT ID: 8102 SB02 (3-4)	Lab ID: R2510171-002
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	13		4.6	9.2	ug/Kg	8081B
4,4'-DDE	110		4.6	9.2	ug/Kg	8081B
4,4'-DDT	25		4.6	9.2	ug/Kg	8081B
Benz(a)anthracene	130	J	54	360	ug/Kg	8270E
Benzo(a)pyrene	160	J	96	360	ug/Kg	8270E
Benzo(b)fluoranthene	200	J	60	360	ug/Kg	8270E
Benzo(g,h,i)perylene	110	J	83	360	ug/Kg	8270E
Benzo(k)fluoranthene	76	J	58	360	ug/Kg	8270E
Chrysene	150	J	53	360	ug/Kg	8270E
Fluoranthene	270	J	90	360	ug/Kg	8270E
Phenanthrene	100	J	51	360	ug/Kg	8270E
Pyrene	210	J	60	360	ug/Kg	8270E
Total Solids	91.8				Percent	ALS SOP

CLIENT ID: 8102 SB03 (5-6)	Lab ID: R2510171-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	4.1		0.92	1.8	ug/Kg	8081B
4,4'-DDE	44		0.92	1.8	ug/Kg	8081B
4,4'-DDT	13		0.92	1.8	ug/Kg	8081B
Benz(a)anthracene	91	J	54	360	ug/Kg	8270E
Benzo(a)pyrene	100	J	96	360	ug/Kg	8270E
Benzo(b)fluoranthene	120	J	60	360	ug/Kg	8270E
Bis(2-ethylhexyl) Phthalate	240	J	66	540	ug/Kg	8270E
Chrysene	96	J	53	360	ug/Kg	8270E
Fluoranthene	160	J	90	360	ug/Kg	8270E
Phenanthrene	58	J	51	360	ug/Kg	8270E
Pyrene	140	J	60	360	ug/Kg	8270E
Total Solids	91.5				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: 8102_Curt

Service Request:R2510171

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2510171-001	8102 SB01 (1-2)	8/13/2025	1115
R2510171-002	8102 SB02 (3-4)	8/13/2025	1120
R2510171-003	8102 SB03 (5-6)	8/13/2025	1125

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: HN2511526

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:
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Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	8102_Curt	A	EPA 8081B-3546-S (INT SUB)
Work Order	HN2511526			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
HN2511526-001	8102 SB01 (5-6)	Soil/Solid	08/13/2025 11:15	001-AD	x	x	x	x						
HN2511526-002	8102 SB02 (1-2)	Soil/Solid	08/13/2025 11:20	002-AD	x	x	x	x						
HN2511526-003	8102 SB03 (3-4)	Soil/Solid	08/13/2025 11:25	003-AD	x	x	x	x						

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





R2510171

5

ALS Environmental - Holland
8102_Curt

Cooler Receipt and Preservation Check Form

Project/Client _____ Folder Number _____

Cooler received on 8/20/25 by: RMCOURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

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

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

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
 & Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: SMO by RM on 8/20 at 12:16
 5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 8/20/25 Time: 16:10 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 (N/A)
 13. Were dissolved metals filtered in the field? YES NO (N/A)
 14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

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

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

Bottle lot numbers: 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

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

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

www.alsglobal.com



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: 8102_Curt

Service Request: R2510171

Non-Certified Analytes

Certifying Agency: New York Department of Health

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

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: ALS Environmental - US
Project: 8102_Curt/

Service Request: R2510171

Sample Name: 8102 SB01 (1-2)
Lab Code: R2510171-001
Sample Matrix: Soil

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

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

Sample Name: 8102 SB02 (3-4)
Lab Code: R2510171-002
Sample Matrix: Soil

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

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

Sample Name: 8102 SB03 (5-6)
Lab Code: R2510171-003
Sample Matrix: Soil

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

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



PREPARATION METHODS

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

INORGANIC

Water/Liquid Matrix

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

Solid/Soil/Non-Aqueous Matrix

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

ORGANIC

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

Regarding "Bulk/5035A":

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



Sample Results

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com



Semivolatile Organic Compounds by GC/MS

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

Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: 08/13/25 11:15
Date Received: 08/20/25 09:30

Sample Name: 8102 SB01 (1-2)
Lab Code: R2510171-001

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	66 U	360	66	1	08/27/25 18:09	8/26/25	
1,2,4,5-Tetrachlorobenzene	80 U	360	80	1	08/27/25 18:09	8/26/25	
2-Methylnaphthalene	130 U	360	130	1	08/27/25 18:09	8/26/25	
Acenaphthene	68 U	360	68	1	08/27/25 18:09	8/26/25	
Acenaphthylene	73 U	360	73	1	08/27/25 18:09	8/26/25	
Anthracene	60 U	360	60	1	08/27/25 18:09	8/26/25	
Benz(a)anthracene	53 U	360	53	1	08/27/25 18:09	8/26/25	
Benzo(a)pyrene	95 U	360	95	1	08/27/25 18:09	8/26/25	
Benzo(b)fluoranthene	76 J	360	60	1	08/27/25 18:09	8/26/25	
Benzo(g,h,i)perylene	82 U	360	82	1	08/27/25 18:09	8/26/25	
1,4-Dichlorobenzene	60 U	360	60	1	08/27/25 18:09	8/26/25	
Benzo(k)fluoranthene	58 U	360	58	1	08/27/25 18:09	8/26/25	
Biphenyl	110 U	360	110	1	08/27/25 18:09	8/26/25	
Chrysene	58 J	360	53	1	08/27/25 18:09	8/26/25	
1,4-Dioxane	35 U	73	35	1	08/27/25 18:09	8/26/25	
Dibenz(a,h)anthracene	78 U	360	78	1	08/27/25 18:09	8/26/25	
Dibenzofuran	65 U	360	65	1	08/27/25 18:09	8/26/25	
Fluoranthene	94 J	360	90	1	08/27/25 18:09	8/26/25	
Fluorene	67 U	360	67	1	08/27/25 18:09	8/26/25	
Indeno(1,2,3-cd)pyrene	120 U	360	120	1	08/27/25 18:09	8/26/25	
Naphthalene	67 U	360	67	1	08/27/25 18:09	8/26/25	
Phenanthrene	51 U	360	51	1	08/27/25 18:09	8/26/25	
Pyrene	75 J	360	60	1	08/27/25 18:09	8/26/25	
2,3,4,6-Tetrachlorophenol	130 U	360	130	1	08/27/25 18:09	8/26/25	
2,4,5-Trichlorophenol	89 U	360	89	1	08/27/25 18:09	8/26/25	
2,4,6-Trichlorophenol	80 U	360	80	1	08/27/25 18:09	8/26/25	
2,4-Dichlorophenol	69 U	360	69	1	08/27/25 18:09	8/26/25	
2,4-Dimethylphenol	64 U	360	64	1	08/27/25 18:09	8/26/25	
2,4-Dinitrophenol	610 U	1800	610	1	08/27/25 18:09	8/26/25	
2,4-Dinitrotoluene	140 U	360	140	1	08/27/25 18:09	8/26/25	
2,6-Dinitrotoluene	78 U	360	78	1	08/27/25 18:09	8/26/25	
2-Chloronaphthalene	72 U	360	72	1	08/27/25 18:09	8/26/25	
2-Chlorophenol	60 U	360	60	1	08/27/25 18:09	8/26/25	
2-Methylphenol	74 U	360	74	1	08/27/25 18:09	8/26/25	
2-Nitroaniline	85 U	1800	85	1	08/27/25 18:09	8/26/25	
2-Nitrophenol	83 U	360	83	1	08/27/25 18:09	8/26/25	
3,3'-Dichlorobenzidine	140 U	360	140	1	08/27/25 18:09	8/26/25	
3- and 4-Methylphenol Coelution	69 U	360	69	1	08/27/25 18:09	8/26/25	
3-Nitroaniline	72 U	1800	72	1	08/27/25 18:09	8/26/25	
4,6-Dinitro-2-methylphenol	210 U	1800	210	1	08/27/25 18:09	8/26/25	
4-Bromophenyl Phenyl Ether	94 U	360	94	1	08/27/25 18:09	8/26/25	
4-Chloro-3-methylphenol	72 U	360	72	1	08/27/25 18:09	8/26/25	
4-Chloroaniline	140 U	360	140	1	08/27/25 18:09	8/26/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: 08/13/25 11:15
Date Received: 08/20/25 09:30

Sample Name: 8102 SB01 (1-2)
Lab Code: R2510171-001

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	77 U	360	77	1	08/27/25 18:09	8/26/25	
4-Nitroaniline	78 U	1800	78	1	08/27/25 18:09	8/26/25	
4-Nitrophenol	190 U	1800	190	1	08/27/25 18:09	8/26/25	
Acetophenone	110 U	360	110	1	08/27/25 18:09	8/26/25	
Atrazine	110 U	360	110	1	08/27/25 18:09	8/26/25	
Benzaldehyde	87 U	1800	87	1	08/27/25 18:09	8/26/25	
Benzoic Acid	570 U	1800	570	1	08/27/25 18:09	8/26/25	
Bis(1-chloroisopropyl) Ether	74 U	360	74	1	08/27/25 18:09	8/26/25	
Bis(2-chloroethoxy)methane	88 U	360	88	1	08/27/25 18:09	8/26/25	
Bis(2-chloroethyl) Ether	71 U	360	71	1	08/27/25 18:09	8/26/25	
Bis(2-ethylhexyl) Phthalate	66 U	540	66	1	08/27/25 18:09	8/26/25	
Butyl Benzyl Phthalate	110 U	360	110	1	08/27/25 18:09	8/26/25	
Caprolactam	79 U	360	79	1	08/27/25 18:09	8/26/25	
Carbazole	58 U	360	58	1	08/27/25 18:09	8/26/25	
Di-n-butyl Phthalate	58 U	360	58	1	08/27/25 18:09	8/26/25	
Di-n-octyl Phthalate	130 U	360	130	1	08/27/25 18:09	8/26/25	
Diethyl Phthalate	64 U	360	64	1	08/27/25 18:09	8/26/25	
Dimethyl Phthalate	68 U	360	68	1	08/27/25 18:09	8/26/25	
Hexachlorobenzene	86 U	360	86	1	08/27/25 18:09	8/26/25	
Hexachlorobutadiene	130 U	360	130	1	08/27/25 18:09	8/26/25	
Hexachlorocyclopentadiene	120 U	360	120	1	08/27/25 18:09	8/26/25	
Hexachloroethane	67 U	360	67	1	08/27/25 18:09	8/26/25	
Isophorone	75 U	360	75	1	08/27/25 18:09	8/26/25	
N-Nitrosodi-n-propylamine	110 U	360	110	1	08/27/25 18:09	8/26/25	
N-Nitrosodiphenylamine	230 U	360	230	1	08/27/25 18:09	8/26/25	
Nitrobenzene	64 U	360	64	1	08/27/25 18:09	8/26/25	
Pentachlorophenol (PCP)	360 U	1800	360	1	08/27/25 18:09	8/26/25	
Phenol	72 U	360	72	1	08/27/25 18:09	8/26/25	
Pyridine	48 U	1800	48	1	08/27/25 18:09	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	58	18 - 104	08/27/25 18:09	
Nitrobenzene-d5	60	12 - 98	08/27/25 18:09	
p-Terphenyl-d14	71	26 - 134	08/27/25 18:09	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: 08/13/25 11:20
Date Received: 08/20/25 09:30

Sample Name: 8102 SB02 (3-4)
Lab Code: R2510171-002

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	80 U	360	80	1	08/27/25 18:33	8/26/25	
1-Methylnaphthalene	66 U	360	66	1	08/27/25 18:33	8/26/25	
2-Methylnaphthalene	130 U	360	130	1	08/27/25 18:33	8/26/25	
Acenaphthene	68 U	360	68	1	08/27/25 18:33	8/26/25	
Acenaphthylene	73 U	360	73	1	08/27/25 18:33	8/26/25	
Anthracene	60 U	360	60	1	08/27/25 18:33	8/26/25	
Benz(a)anthracene	130 J	360	54	1	08/27/25 18:33	8/26/25	
Benzo(a)pyrene	160 J	360	96	1	08/27/25 18:33	8/26/25	
Benzo(b)fluoranthene	200 J	360	60	1	08/27/25 18:33	8/26/25	
Benzo(g,h,i)perylene	110 J	360	83	1	08/27/25 18:33	8/26/25	
1,4-Dichlorobenzene	60 U	360	60	1	08/27/25 18:33	8/26/25	
Benzo(k)fluoranthene	76 J	360	58	1	08/27/25 18:33	8/26/25	
Biphenyl	110 U	360	110	1	08/27/25 18:33	8/26/25	
Chrysene	150 J	360	53	1	08/27/25 18:33	8/26/25	
1,4-Dioxane	35 U	73	35	1	08/27/25 18:33	8/26/25	
Dibenz(a,h)anthracene	78 U	360	78	1	08/27/25 18:33	8/26/25	
Dibenzofuran	66 U	360	66	1	08/27/25 18:33	8/26/25	
Fluoranthene	270 J	360	90	1	08/27/25 18:33	8/26/25	
Fluorene	67 U	360	67	1	08/27/25 18:33	8/26/25	
Indeno(1,2,3-cd)pyrene	120 U	360	120	1	08/27/25 18:33	8/26/25	
Naphthalene	67 U	360	67	1	08/27/25 18:33	8/26/25	
Phenanthrene	100 J	360	51	1	08/27/25 18:33	8/26/25	
Pyrene	210 J	360	60	1	08/27/25 18:33	8/26/25	
2,3,4,6-Tetrachlorophenol	130 U	360	130	1	08/27/25 18:33	8/26/25	
2,4,5-Trichlorophenol	89 U	360	89	1	08/27/25 18:33	8/26/25	
2,4,6-Trichlorophenol	80 U	360	80	1	08/27/25 18:33	8/26/25	
2,4-Dichlorophenol	69 U	360	69	1	08/27/25 18:33	8/26/25	
2,4-Dimethylphenol	65 U	360	65	1	08/27/25 18:33	8/26/25	
2,4-Dinitrophenol	610 U	1800	610	1	08/27/25 18:33	8/26/25	
2,4-Dinitrotoluene	140 U	360	140	1	08/27/25 18:33	8/26/25	
2,6-Dinitrotoluene	79 U	360	79	1	08/27/25 18:33	8/26/25	
2-Chloronaphthalene	72 U	360	72	1	08/27/25 18:33	8/26/25	
2-Chlorophenol	60 U	360	60	1	08/27/25 18:33	8/26/25	
2-Methylphenol	75 U	360	75	1	08/27/25 18:33	8/26/25	
2-Nitroaniline	85 U	1800	85	1	08/27/25 18:33	8/26/25	
2-Nitrophenol	83 U	360	83	1	08/27/25 18:33	8/26/25	
3,3'-Dichlorobenzidine	140 U	360	140	1	08/27/25 18:33	8/26/25	
3- and 4-Methylphenol Coelution	69 U	360	69	1	08/27/25 18:33	8/26/25	
3-Nitroaniline	72 U	1800	72	1	08/27/25 18:33	8/26/25	
4,6-Dinitro-2-methylphenol	210 U	1800	210	1	08/27/25 18:33	8/26/25	
4-Bromophenyl Phenyl Ether	95 U	360	95	1	08/27/25 18:33	8/26/25	
4-Chloro-3-methylphenol	73 U	360	73	1	08/27/25 18:33	8/26/25	
4-Chloroaniline	140 U	360	140	1	08/27/25 18:33	8/26/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: 08/13/25 11:20
Date Received: 08/20/25 09:30

Sample Name: 8102 SB02 (3-4)
Lab Code: R2510171-002

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	77 U	360	77	1	08/27/25 18:33	8/26/25	
4-Nitroaniline	78 U	1800	78	1	08/27/25 18:33	8/26/25	
4-Nitrophenol	190 U	1800	190	1	08/27/25 18:33	8/26/25	
Acetophenone	110 U	360	110	1	08/27/25 18:33	8/26/25	
Atrazine	110 U	360	110	1	08/27/25 18:33	8/26/25	
Benzaldehyde	87 U	1800	87	1	08/27/25 18:33	8/26/25	
Benzoic Acid	570 U	1800	570	1	08/27/25 18:33	8/26/25	
Bis(1-chloroisopropyl) Ether	74 U	360	74	1	08/27/25 18:33	8/26/25	
Bis(2-chloroethoxy)methane	88 U	360	88	1	08/27/25 18:33	8/26/25	
Bis(2-chloroethyl) Ether	71 U	360	71	1	08/27/25 18:33	8/26/25	
Bis(2-ethylhexyl) Phthalate	66 U	540	66	1	08/27/25 18:33	8/26/25	
Butyl Benzyl Phthalate	110 U	360	110	1	08/27/25 18:33	8/26/25	
Caprolactam	79 U	360	79	1	08/27/25 18:33	8/26/25	
Carbazole	58 U	360	58	1	08/27/25 18:33	8/26/25	
Di-n-butyl Phthalate	58 U	360	58	1	08/27/25 18:33	8/26/25	
Di-n-octyl Phthalate	130 U	360	130	1	08/27/25 18:33	8/26/25	
Diethyl Phthalate	64 U	360	64	1	08/27/25 18:33	8/26/25	
Dimethyl Phthalate	69 U	360	69	1	08/27/25 18:33	8/26/25	
Hexachlorobenzene	86 U	360	86	1	08/27/25 18:33	8/26/25	
Hexachlorobutadiene	130 U	360	130	1	08/27/25 18:33	8/26/25	
Hexachlorocyclopentadiene	120 U	360	120	1	08/27/25 18:33	8/26/25	
Hexachloroethane	67 U	360	67	1	08/27/25 18:33	8/26/25	
Isophorone	75 U	360	75	1	08/27/25 18:33	8/26/25	
N-Nitrosodi-n-propylamine	110 U	360	110	1	08/27/25 18:33	8/26/25	
N-Nitrosodiphenylamine	230 U	360	230	1	08/27/25 18:33	8/26/25	
Nitrobenzene	64 U	360	64	1	08/27/25 18:33	8/26/25	
Pentachlorophenol (PCP)	360 U	1800	360	1	08/27/25 18:33	8/26/25	
Phenol	72 U	360	72	1	08/27/25 18:33	8/26/25	
Pyridine	49 U	1800	49	1	08/27/25 18:33	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	55	18 - 104	08/27/25 18:33	
Nitrobenzene-d5	56	12 - 98	08/27/25 18:33	
p-Terphenyl-d14	67	26 - 134	08/27/25 18:33	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: 08/13/25 11:25
Date Received: 08/20/25 09:30

Sample Name: 8102 SB03 (5-6)
Lab Code: R2510171-003

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
1,2,4,5-Tetrachlorobenzene	80 U	360	80	1	08/27/25 18:58	8/26/25	
1-Methylnaphthalene	66 U	360	66	1	08/27/25 18:58	8/26/25	
2-Methylnaphthalene	130 U	360	130	1	08/27/25 18:58	8/26/25	
Acenaphthene	68 U	360	68	1	08/27/25 18:58	8/26/25	
Acenaphthylene	73 U	360	73	1	08/27/25 18:58	8/26/25	
Anthracene	60 U	360	60	1	08/27/25 18:58	8/26/25	
Benz(a)anthracene	91 J	360	54	1	08/27/25 18:58	8/26/25	
Benzo(a)pyrene	100 J	360	96	1	08/27/25 18:58	8/26/25	
Benzo(b)fluoranthene	120 J	360	60	1	08/27/25 18:58	8/26/25	
Benzo(g,h,i)perylene	83 U	360	83	1	08/27/25 18:58	8/26/25	
1,4-Dichlorobenzene	60 U	360	60	1	08/27/25 18:58	8/26/25	
Benzo(k)fluoranthene	58 U	360	58	1	08/27/25 18:58	8/26/25	
Biphenyl	110 U	360	110	1	08/27/25 18:58	8/26/25	
Chrysene	96 J	360	53	1	08/27/25 18:58	8/26/25	
1,4-Dioxane	35 U	73	35	1	08/27/25 18:58	8/26/25	
Dibenz(a,h)anthracene	78 U	360	78	1	08/27/25 18:58	8/26/25	
Dibenzofuran	66 U	360	66	1	08/27/25 18:58	8/26/25	
Fluoranthene	160 J	360	90	1	08/27/25 18:58	8/26/25	
Fluorene	68 U	360	68	1	08/27/25 18:58	8/26/25	
Indeno(1,2,3-cd)pyrene	120 U	360	120	1	08/27/25 18:58	8/26/25	
Naphthalene	68 U	360	68	1	08/27/25 18:58	8/26/25	
Phenanthrene	58 J	360	51	1	08/27/25 18:58	8/26/25	
Pyrene	140 J	360	60	1	08/27/25 18:58	8/26/25	
2,3,4,6-Tetrachlorophenol	130 U	360	130	1	08/27/25 18:58	8/26/25	
2,4,5-Trichlorophenol	89 U	360	89	1	08/27/25 18:58	8/26/25	
2,4,6-Trichlorophenol	80 U	360	80	1	08/27/25 18:58	8/26/25	
2,4-Dichlorophenol	69 U	360	69	1	08/27/25 18:58	8/26/25	
2,4-Dimethylphenol	65 U	360	65	1	08/27/25 18:58	8/26/25	
2,4-Dinitrophenol	610 U	1900	610	1	08/27/25 18:58	8/26/25	
2,4-Dinitrotoluene	140 U	360	140	1	08/27/25 18:58	8/26/25	
2,6-Dinitrotoluene	79 U	360	79	1	08/27/25 18:58	8/26/25	
2-Chloronaphthalene	72 U	360	72	1	08/27/25 18:58	8/26/25	
2-Chlorophenol	60 U	360	60	1	08/27/25 18:58	8/26/25	
2-Methylphenol	75 U	360	75	1	08/27/25 18:58	8/26/25	
2-Nitroaniline	85 U	1900	85	1	08/27/25 18:58	8/26/25	
2-Nitrophenol	84 U	360	84	1	08/27/25 18:58	8/26/25	
3,3'-Dichlorobenzidine	140 U	360	140	1	08/27/25 18:58	8/26/25	
3- and 4-Methylphenol Coelution	69 U	360	69	1	08/27/25 18:58	8/26/25	
3-Nitroaniline	72 U	1900	72	1	08/27/25 18:58	8/26/25	
4,6-Dinitro-2-methylphenol	210 U	1900	210	1	08/27/25 18:58	8/26/25	
4-Bromophenyl Phenyl Ether	95 U	360	95	1	08/27/25 18:58	8/26/25	
4-Chloro-3-methylphenol	73 U	360	73	1	08/27/25 18:58	8/26/25	
4-Chloroaniline	140 U	360	140	1	08/27/25 18:58	8/26/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: 08/13/25 11:25
Date Received: 08/20/25 09:30

Sample Name: 8102 SB03 (5-6)
Lab Code: R2510171-003

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	77 U	360	77	1	08/27/25 18:58	8/26/25	
4-Nitroaniline	78 U	1900	78	1	08/27/25 18:58	8/26/25	
4-Nitrophenol	190 U	1900	190	1	08/27/25 18:58	8/26/25	
Acetophenone	110 U	360	110	1	08/27/25 18:58	8/26/25	
Atrazine	110 U	360	110	1	08/27/25 18:58	8/26/25	
Benzaldehyde	87 U	1900	87	1	08/27/25 18:58	8/26/25	
Benzoic Acid	570 U	1900	570	1	08/27/25 18:58	8/26/25	
Bis(1-chloroisopropyl) Ether	74 U	360	74	1	08/27/25 18:58	8/26/25	
Bis(2-chloroethoxy)methane	88 U	360	88	1	08/27/25 18:58	8/26/25	
Bis(2-chloroethyl) Ether	71 U	360	71	1	08/27/25 18:58	8/26/25	
Bis(2-ethylhexyl) Phthalate	240 J	540	66	1	08/27/25 18:58	8/26/25	
Butyl Benzyl Phthalate	110 U	360	110	1	08/27/25 18:58	8/26/25	
Caprolactam	79 U	360	79	1	08/27/25 18:58	8/26/25	
Carbazole	58 U	360	58	1	08/27/25 18:58	8/26/25	
Di-n-butyl Phthalate	58 U	360	58	1	08/27/25 18:58	8/26/25	
Di-n-octyl Phthalate	130 U	360	130	1	08/27/25 18:58	8/26/25	
Diethyl Phthalate	64 U	360	64	1	08/27/25 18:58	8/26/25	
Dimethyl Phthalate	69 U	360	69	1	08/27/25 18:58	8/26/25	
Hexachlorobenzene	86 U	360	86	1	08/27/25 18:58	8/26/25	
Hexachlorobutadiene	130 U	360	130	1	08/27/25 18:58	8/26/25	
Hexachlorocyclopentadiene	120 U	360	120	1	08/27/25 18:58	8/26/25	
Hexachloroethane	68 U	360	68	1	08/27/25 18:58	8/26/25	
Isophorone	75 U	360	75	1	08/27/25 18:58	8/26/25	
N-Nitrosodi-n-propylamine	110 U	360	110	1	08/27/25 18:58	8/26/25	
N-Nitrosodiphenylamine	230 U	360	230	1	08/27/25 18:58	8/26/25	
Nitrobenzene	64 U	360	64	1	08/27/25 18:58	8/26/25	
Pentachlorophenol (PCP)	360 U	1900	360	1	08/27/25 18:58	8/26/25	
Phenol	73 U	360	73	1	08/27/25 18:58	8/26/25	
Pyridine	49 U	1900	49	1	08/27/25 18:58	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	52	18 - 104	08/27/25 18:58	
Nitrobenzene-d5	53	12 - 98	08/27/25 18:58	
p-Terphenyl-d14	65	26 - 134	08/27/25 18:58	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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

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Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: 08/13/25 11:15
Date Received: 08/20/25 09:30

Sample Name: 8102 SB01 (1-2)
Lab Code: R2510171-001

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	6.6	3.7	1.9	2	09/11/25 20:40	8/26/25	
4,4'-DDE	78	3.7	1.9	2	09/11/25 20:40	8/26/25	
4,4'-DDT	19	3.7	1.9	2	09/11/25 20:40	8/26/25	
Aldrin	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
Chlordane	9.2 U	18	9.2	2	09/11/25 20:40	8/26/25	
Dieldrin	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
Endosulfan I	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
Endosulfan II	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
Endosulfan Sulfate	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
Endrin	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
Endrin Aldehyde	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
Endrin Ketone	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
Heptachlor	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
Heptachlor Epoxide	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
Methoxychlor	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
Toxaphene	42 U	72	42	2	09/11/25 20:40	8/26/25	
alpha-BHC	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
alpha-Chlordane	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
beta-BHC	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
delta-BHC	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
gamma-BHC (Lindane)	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	
gamma-Chlordane	1.9 U	3.7	1.9	2	09/11/25 20:40	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	75	10 - 159	09/11/25 20:40	
Tetrachloro-m-xylene	57	10 - 132	09/11/25 20:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: 08/13/25 11:20
Date Received: 08/20/25 09:30

Sample Name: 8102 SB02 (3-4)
Lab Code: R2510171-002

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	13	9.2	4.6	5	09/11/25 20:57	8/26/25	
4,4'-DDE	110	9.2	4.6	5	09/11/25 20:57	8/26/25	
4,4'-DDT	25	9.2	4.6	5	09/11/25 20:57	8/26/25	
Aldrin	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
Chlordane	23 U	45	23	5	09/11/25 20:57	8/26/25	
Dieldrin	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
Endosulfan I	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
Endosulfan II	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
Endosulfan Sulfate	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
Endrin	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
Endrin Aldehyde	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
Endrin Ketone	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
Heptachlor	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
Heptachlor Epoxide	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
Methoxychlor	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
Toxaphene	110 U	180	110	5	09/11/25 20:57	8/26/25	
alpha-BHC	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
alpha-Chlordane	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
beta-BHC	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
delta-BHC	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
gamma-BHC (Lindane)	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	
gamma-Chlordane	4.6 U	9.2	4.6	5	09/11/25 20:57	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	90	10 - 159	09/11/25 20:57	
Tetrachloro-m-xylene	67	10 - 132	09/11/25 20:57	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: 08/13/25 11:25
Date Received: 08/20/25 09:30

Sample Name: 8102 SB03 (5-6)
Lab Code: R2510171-003

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	4.1	1.8	0.92	1	09/11/25 21:14	8/26/25	
4,4'-DDE	44	1.8	0.92	1	09/11/25 21:14	8/26/25	
4,4'-DDT	13	1.8	0.92	1	09/11/25 21:14	8/26/25	
Aldrin	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
Chlordane	4.6 U	9.0	4.6	1	09/11/25 21:14	8/26/25	
Dieldrin	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
Endosulfan I	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
Endosulfan II	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
Endosulfan Sulfate	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
Endrin	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
Endrin Aldehyde	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
Endrin Ketone	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
Heptachlor	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
Heptachlor Epoxide	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
Methoxychlor	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
Toxaphene	21 U	36	21	1	09/11/25 21:14	8/26/25	
alpha-BHC	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
alpha-Chlordane	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
beta-BHC	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
delta-BHC	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
gamma-BHC (Lindane)	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	
gamma-Chlordane	0.92 U	1.8	0.92	1	09/11/25 21:14	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 159	09/11/25 21:14	
Tetrachloro-m-xylene	58	10 - 132	09/11/25 21:14	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: 08/13/25 11:15
Date Received: 08/20/25 09:30

Sample Name: 8102 SB01 (1-2)
Lab Code: R2510171-001

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	19 U	36	19	1	09/03/25 22:03	8/26/25	
Aroclor 1221	29 U	73	29	1	09/03/25 22:03	8/26/25	
Aroclor 1232	21 U	36	21	1	09/03/25 22:03	8/26/25	
Aroclor 1242	19 U	36	19	1	09/03/25 22:03	8/26/25	
Aroclor 1248	20 U	36	20	1	09/03/25 22:03	8/26/25	
Aroclor 1254	19 U	36	19	1	09/03/25 22:03	8/26/25	
Aroclor 1260	19 U	36	19	1	09/03/25 22:03	8/26/25	
Aroclor 1262	19 U	36	19	1	09/03/25 22:03	8/26/25	
Aroclor 1268	19 U	36	19	1	09/03/25 22:03	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 138	09/03/25 22:03	
Tetrachloro-m-xylene	56	11 - 122	09/03/25 22:03	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: 08/13/25 11:20
Date Received: 08/20/25 09:30

Sample Name: 8102 SB02 (3-4)
Lab Code: R2510171-002

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	19 U	36	19	1	09/03/25 22:16	8/26/25	
Aroclor 1221	29 U	72	29	1	09/03/25 22:16	8/26/25	
Aroclor 1232	21 U	36	21	1	09/03/25 22:16	8/26/25	
Aroclor 1242	19 U	36	19	1	09/03/25 22:16	8/26/25	
Aroclor 1248	20 U	36	20	1	09/03/25 22:16	8/26/25	
Aroclor 1254	19 U	36	19	1	09/03/25 22:16	8/26/25	
Aroclor 1260	19 U	36	19	1	09/03/25 22:16	8/26/25	
Aroclor 1262	19 U	36	19	1	09/03/25 22:16	8/26/25	
Aroclor 1268	19 U	36	19	1	09/03/25 22:16	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	90	10 - 138	09/03/25 22:16	
Tetrachloro-m-xylene	63	11 - 122	09/03/25 22:16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: 08/13/25 11:25
Date Received: 08/20/25 09:30

Sample Name: 8102 SB03 (5-6)
Lab Code: R2510171-003

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	19 U	36	19	1	09/03/25 22:30	8/26/25	
Aroclor 1221	29 U	73	29	1	09/03/25 22:30	8/26/25	
Aroclor 1232	21 U	36	21	1	09/03/25 22:30	8/26/25	
Aroclor 1242	19 U	36	19	1	09/03/25 22:30	8/26/25	
Aroclor 1248	20 U	36	20	1	09/03/25 22:30	8/26/25	
Aroclor 1254	19 U	36	19	1	09/03/25 22:30	8/26/25	
Aroclor 1260	19 U	36	19	1	09/03/25 22:30	8/26/25	
Aroclor 1262	19 U	36	19	1	09/03/25 22:30	8/26/25	
Aroclor 1268	19 U	36	19	1	09/03/25 22:30	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	80	10 - 138	09/03/25 22:30	
Tetrachloro-m-xylene	54	11 - 122	09/03/25 22:30	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: 08/13/25 11:15
Date Received: 08/20/25 09:30

Sample Name: 8102 SB01 (1-2)
Lab Code: R2510171-001

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	5.4 U	11	5.4	1	08/29/25 03:25	8/26/25	
2,4,5-TP	4.9 U	11	4.9	1	08/29/25 03:25	8/26/25	
2,4-D	7.1 U	11	7.1	1	08/29/25 03:25	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	65	10 - 151	08/29/25 03:25	

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Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: 08/13/25 11:20
Date Received: 08/20/25 09:30

Sample Name: 8102 SB02 (3-4)
Lab Code: R2510171-002

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	5.5 U	11	5.5	1	08/29/25 03:43	8/26/25	
2,4,5-TP	5.0 U	11	5.0	1	08/29/25 03:43	8/26/25	
2,4-D	7.1 U	11	7.1	1	08/29/25 03:43	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	61	10 - 151	08/29/25 03:43	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: 08/13/25 11:25
Date Received: 08/20/25 09:30

Sample Name: 8102 SB03 (5-6)
Lab Code: R2510171-003

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	5.5 U	11	5.5	1	08/29/25 04:02	8/26/25	
2,4,5-TP	4.9 U	11	4.9	1	08/29/25 04:02	8/26/25	
2,4-D	7.1 U	11	7.1	1	08/29/25 04:02	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	55	10 - 151	08/29/25 04:02	



General Chemistry

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Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Sample Name: 8102 SB01 (1-2)
Lab Code: R2510171-001

Service Request: R2510171
Date Collected: 08/13/25 11:15
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	90.9	Percent	-	-	1	08/29/25 10:00	

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Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Sample Name: 8102 SB02 (3-4)
Lab Code: R2510171-002

Service Request: R2510171
Date Collected: 08/13/25 11:20
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	91.8	Percent	-	-	1	08/29/25 10:00	

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Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Sample Name: 8102 SB03 (5-6)
Lab Code: R2510171-003

Service Request: R2510171
Date Collected: 08/13/25 11:25
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	91.5	Percent	-	-	1	08/29/25 10:00	



QC Summary Forms

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Semivolatile Organic Compounds by GC/MS

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QA/QC Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171

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
8102 SB01 (1-2)	R2510171-001	58	60	71
8102 SB02 (3-4)	R2510171-002	55	56	67
8102 SB03 (5-6)	R2510171-003	52	53	65
Method Blank	RQ2511335-01	51	52	68
Lab Control Sample	RQ2511335-02	52	48	63
Duplicate Lab Control Sample	RQ2511335-03	49	44	58

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Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511335-01

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	08/27/25 15:45	8/26/25	
1-Methylnaphthalene	61 U	330	61	1	08/27/25 15:45	8/26/25	
2-Methylnaphthalene	120 U	330	120	1	08/27/25 15:45	8/26/25	
Acenaphthene	63 U	330	63	1	08/27/25 15:45	8/26/25	
Acenaphthylene	67 U	330	67	1	08/27/25 15:45	8/26/25	
Anthracene	55 U	330	55	1	08/27/25 15:45	8/26/25	
Benz(a)anthracene	49 U	330	49	1	08/27/25 15:45	8/26/25	
Benzo(a)pyrene	88 U	330	88	1	08/27/25 15:45	8/26/25	
Benzo(b)fluoranthene	55 U	330	55	1	08/27/25 15:45	8/26/25	
Benzo(g,h,i)perylene	76 U	330	76	1	08/27/25 15:45	8/26/25	
1,4-Dichlorobenzene	55 U	330	55	1	08/27/25 15:45	8/26/25	
Benzo(k)fluoranthene	54 U	330	54	1	08/27/25 15:45	8/26/25	
Biphenyl	98 U	330	98	1	08/27/25 15:45	8/26/25	
Chrysene	49 U	330	49	1	08/27/25 15:45	8/26/25	
1,4-Dioxane	32 U	67	32	1	08/27/25 15:45	8/26/25	
Dibenz(a,h)anthracene	72 U	330	72	1	08/27/25 15:45	8/26/25	
Dibenzofuran	60 U	330	60	1	08/27/25 15:45	8/26/25	
Fluoranthene	83 U	330	83	1	08/27/25 15:45	8/26/25	
Fluorene	62 U	330	62	1	08/27/25 15:45	8/26/25	
Indeno(1,2,3-cd)pyrene	110 U	330	110	1	08/27/25 15:45	8/26/25	
Naphthalene	62 U	330	62	1	08/27/25 15:45	8/26/25	
Phenanthrene	47 U	330	47	1	08/27/25 15:45	8/26/25	
Pyrene	55 U	330	55	1	08/27/25 15:45	8/26/25	
2,3,4,6-Tetrachlorophenol	120 U	330	120	1	08/27/25 15:45	8/26/25	
2,4,5-Trichlorophenol	82 U	330	82	1	08/27/25 15:45	8/26/25	
2,4,6-Trichlorophenol	74 U	330	74	1	08/27/25 15:45	8/26/25	
2,4-Dichlorophenol	64 U	330	64	1	08/27/25 15:45	8/26/25	
2,4-Dimethylphenol	59 U	330	59	1	08/27/25 15:45	8/26/25	
2,4-Dinitrophenol	560 U	1700	560	1	08/27/25 15:45	8/26/25	
2,4-Dinitrotoluene	130 U	330	130	1	08/27/25 15:45	8/26/25	
2,6-Dinitrotoluene	72 U	330	72	1	08/27/25 15:45	8/26/25	
2-Chloronaphthalene	66 U	330	66	1	08/27/25 15:45	8/26/25	
2-Chlorophenol	55 U	330	55	1	08/27/25 15:45	8/26/25	
2-Methylphenol	69 U	330	69	1	08/27/25 15:45	8/26/25	
2-Nitroaniline	78 U	1700	78	1	08/27/25 15:45	8/26/25	
2-Nitrophenol	77 U	330	77	1	08/27/25 15:45	8/26/25	
3,3'-Dichlorobenzidine	120 U	330	120	1	08/27/25 15:45	8/26/25	
3- and 4-Methylphenol Coelution	63 U	330	63	1	08/27/25 15:45	8/26/25	
3-Nitroaniline	67 U	1700	67	1	08/27/25 15:45	8/26/25	
4,6-Dinitro-2-methylphenol	190 U	1700	190	1	08/27/25 15:45	8/26/25	
4-Bromophenyl Phenyl Ether	87 U	330	87	1	08/27/25 15:45	8/26/25	
4-Chloro-3-methylphenol	67 U	330	67	1	08/27/25 15:45	8/26/25	
4-Chloroaniline	120 U	330	120	1	08/27/25 15:45	8/26/25	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511335-01

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	08/27/25 15:45	8/26/25	
4-Nitroaniline	71 U	1700	71	1	08/27/25 15:45	8/26/25	
4-Nitrophenol	170 U	1700	170	1	08/27/25 15:45	8/26/25	
Acetophenone	95 U	330	95	1	08/27/25 15:45	8/26/25	
Atrazine	98 U	330	98	1	08/27/25 15:45	8/26/25	
Benzaldehyde	80 U	1700	80	1	08/27/25 15:45	8/26/25	
Benzoic Acid	520 U	1700	520	1	08/27/25 15:45	8/26/25	
Bis(1-chloroisopropyl) Ether	68 U	330	68	1	08/27/25 15:45	8/26/25	
Bis(2-chloroethoxy)methane	81 U	330	81	1	08/27/25 15:45	8/26/25	
Bis(2-chloroethyl) Ether	65 U	330	65	1	08/27/25 15:45	8/26/25	
Bis(2-ethylhexyl) Phthalate	61 U	500	61	1	08/27/25 15:45	8/26/25	
Butyl Benzyl Phthalate	96 U	330	96	1	08/27/25 15:45	8/26/25	
Caprolactam	73 U	330	73	1	08/27/25 15:45	8/26/25	
Carbazole	54 U	330	54	1	08/27/25 15:45	8/26/25	
Di-n-butyl Phthalate	54 U	330	54	1	08/27/25 15:45	8/26/25	
Di-n-octyl Phthalate	120 U	330	120	1	08/27/25 15:45	8/26/25	
Diethyl Phthalate	59 U	330	59	1	08/27/25 15:45	8/26/25	
Dimethyl Phthalate	63 U	330	63	1	08/27/25 15:45	8/26/25	
Hexachlorobenzene	79 U	330	79	1	08/27/25 15:45	8/26/25	
Hexachlorobutadiene	120 U	330	120	1	08/27/25 15:45	8/26/25	
Hexachlorocyclopentadiene	110 U	330	110	1	08/27/25 15:45	8/26/25	
Hexachloroethane	62 U	330	62	1	08/27/25 15:45	8/26/25	
Isophorone	69 U	330	69	1	08/27/25 15:45	8/26/25	
N-Nitrosodi-n-propylamine	110 U	330	110	1	08/27/25 15:45	8/26/25	
N-Nitrosodiphenylamine	210 U	330	210	1	08/27/25 15:45	8/26/25	
Nitrobenzene	59 U	330	59	1	08/27/25 15:45	8/26/25	
Pentachlorophenol (PCP)	330 U	1700	330	1	08/27/25 15:45	8/26/25	
Phenol	67 U	330	67	1	08/27/25 15:45	8/26/25	
Pyridine	45 U	1700	45	1	08/27/25 15:45	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	51	18 - 104	08/27/25 15:45	
Nitrobenzene-d5	52	12 - 98	08/27/25 15:45	
p-Terphenyl-d14	68	26 - 134	08/27/25 15:45	

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Analyzed: 08/27/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511335-02					Duplicate Lab Control Sample RQ2511335-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	8270E	1570	3300	48	1480	3300	45	29-100	6	30
1,2,4,5-Tetrachlorobenzene	8270E	1590	3300	48	1510	3300	46	20-126	5	30
2-Methylnaphthalene	8270E	1490	3300	45	1400	3300	42	29-99	6	30
Acenaphthene	8270E	1780	3300	54	1680	3300	51	41-110	6	30
Acenaphthylene	8270E	1990	3300	60	1860	3300	56	44-122	6	30
Anthracene	8270E	1900	3300	58	1770	3300	53	41-123	7	30
Benz(a)anthracene	8270E	1860	3300	56	1720	3300	52	44-116	8	30
Benzo(a)pyrene	8270E	2200	3300	67	2030	3300	61	56-146	8	30
Benzo(b)fluoranthene	8270E	1790	3300	54	1670	3300	51	47-120	7	30
Benzo(g,h,i)perylene	8270E	1900	3300	57	1740	3300	53	41-129	8	30
Benzo(k)fluoranthene	8270E	1960	3300	59	1810	3300	55	49-124	8	30
1,4-Dichlorobenzene	8270E	1580	3300	48	1490	3300	45	16-83	6	30
Biphenyl	8270E	1620	3300	49	1550	3300	47	24-112	4	30
Chrysene	8270E	1920	3300	58	1760	3300	53	44-119	9	30
1,4-Dioxane	8270E	1140	3300	35	1100	3300	33	10-58	4	30
Dibenz(a,h)anthracene	8270E	1980	3300	60	1830	3300	56	18-146	8	30
Dibenzofuran	8270E	1830	3300	56	1740	3300	53	43-113	5	30
Fluoranthene	8270E	1870	3300	57	1720	3300	52	39-128	8	30
Fluorene	8270E	1850	3300	56	1740	3300	53	40-117	6	30
Indeno(1,2,3-cd)pyrene	8270E	2090	3300	63	1920	3300	58	43-129	8	30
Naphthalene	8270E	1550	3300	47	1480	3300	45	31-93	5	30
Phenanthrene	8270E	1760	3300	53	1630	3300	49	39-120	8	30
Pyrene	8270E	1880	3300	57	1750	3300	53	45-125	8	30
2,3,4,6-Tetrachlorophenol	8270E	2120	3300	64	1970	3300	60	42-117	7	30
2,4,5-Trichlorophenol	8270E	1900	3300	58	1780	3300	54	40-114	7	30
2,4,6-Trichlorophenol	8270E	1850	3300	56	1710	3300	52	33-108	8	30
2,4-Dichlorophenol	8270E	1680	3300	51	1560	3300	47	30-103	7	30
2,4-Dimethylphenol	8270E	1700	3300	52	1580	3300	48	32-100	8	30
2,4-Dinitrophenol	8270E	1130 J	3300	34	1190 J	3300	36	10-97	5	30
2,4-Dinitrotoluene	8270E	1980	3300	60	1870	3300	57	53-120	6	30
2,6-Dinitrotoluene	8270E	1930	3300	59	1800	3300	54	48-119	7	30
2-Chloronaphthalene	8270E	1790	3300	54	1700	3300	51	33-103	5	30
2-Chlorophenol	8270E	1700	3300	51	1580	3300	48	26-90	7	30

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Analyzed: 08/27/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511335-02					Duplicate Lab Control Sample RQ2511335-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2-Methylphenol	8270E	1880	3300	57	1730	3300	52	33-99	8	30
2-Nitroaniline	8270E	1860	3300	56	1780	3300	54	41-119	5	30
2-Nitrophenol	8270E	1600	3300	49	1520	3300	46	24-98	5	30
3- and 4-Methylphenol Coelution	8270E	1920	3300	58	1760	3300	53	32-100	9	30
3-Nitroaniline	8270E	1650 J	3300	50	1570 J	3300	48	29-105	5	30
4,6-Dinitro-2-methylphenol	8270E	1620 J	3300	49	1610 J	3300	49	20-105	<1	30
4-Bromophenyl Phenyl Ether	8270E	1830	3300	55	1700	3300	52	37-116	7	30
4-Chloro-3-methylphenol	8270E	1770	3300	54	1640	3300	50	40-116	7	30
4-Chloroaniline	8270E	1640	3300	50	1530	3300	46	10-87	7	30
4-Chlorophenyl Phenyl Ether	8270E	1790	3300	54	1670	3300	51	42-111	7	30
4-Nitroaniline	8270E	1610 J	3300	49	1550 J	3300	47	43-120	4	30
4-Nitrophenol	8270E	1400 J	3300	43	1290 J	3300	39	34-116	8	30
Acetophenone	8270E	1610	3300	49	1520	3300	46	23-87	5	30
Benzoic Acid	8270E	1590 J	3300	48	1540 J	3300	46	10-126	4	30
Bis(1-chloroisopropyl) Ether	8270E	1750	3300	53	1650	3300	50	22-99	6	30
Bis(2-chloroethoxy)methane	8270E	1710	3300	52	1590	3300	48	38-119	8	30
Bis(2-chloroethyl) Ether	8270E	1650	3300	50	1570	3300	47	23-94	5	30
Bis(2-ethylhexyl) Phthalate	8270E	1880	3300	57	1800	3300	54	38-139	4	30
Butyl Benzyl Phthalate	8270E	1840	3300	56	1760	3300	53	40-134	4	30
Caprolactam	8270E	1540	3300	47	1470	3300	44	21-128	5	30
Carbazole	8270E	1870	3300	57	1730	3300	52	42-131	8	30
Di-n-butyl Phthalate	8270E	1860	3300	57	1740	3300	53	42-141	7	30
Di-n-octyl Phthalate	8270E	1940	3300	59	1840	3300	56	38-143	5	30
Diethyl Phthalate	8270E	1840	3300	56	1750	3300	53	43-118	5	30
Dimethyl Phthalate	8270E	1850	3300	56	1750	3300	53	40-118	5	30
Hexachlorobenzene	8270E	1810	3300	55	1690	3300	51	35-122	7	30
Hexachlorobutadiene	8270E	1550	3300	47	1450	3300	44	28-96	7	30
Hexachlorocyclopentadiene	8270E	1570	3300	48	1490	3300	45	10-111	6	30
Hexachloroethane	8270E	1590	3300	48	1500	3300	45	18-85	6	30
Isophorone	8270E	1740	3300	53	1630	3300	49	39-104	7	30
N-Nitrosodi-n-propylamine	8270E	1690	3300	51	1600	3300	48	30-98	6	30
N-Nitrosodiphenylamine	8270E	2070	3300	63	1910	3300	58	43-130	8	30
Nitrobenzene	8270E	1640	3300	50	1540	3300	47	31-99	6	30

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Analyzed: 08/27/25

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					
	RQ2511335-02				RQ2511335-03					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Pentachlorophenol (PCP)	8270E	1480 J	3300	45	1380 J	3300	42	36-138	7	30
Phenol	8270E	1800	3300	55	1660	3300	50	31-100	8	30
Pyridine	8270E	3030	6600	46	2900	6610	44	12-80	4	30



Semivolatile Organic Compounds by GC

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QA/QC Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171

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
8102 SB01 (1-2)	R2510171-001	75	57
8102 SB02 (3-4)	R2510171-002	90	67
8102 SB03 (5-6)	R2510171-003	78	58
Method Blank	RQ2511334-01	87	53
Lab Control Sample	RQ2511334-02	83	46
Duplicate Lab Control Sample	RQ2511334-03	82	47

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511334-01

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	09/11/25 18:36	8/26/25	
4,4'-DDE	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
4,4'-DDT	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
Aldrin	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
Chlordane	4.2 U	8.3	4.2	1	09/11/25 18:36	8/26/25	
Dieldrin	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
Endosulfan I	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
Endosulfan II	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
Endosulfan Sulfate	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
Endrin	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
Endrin Aldehyde	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
Endrin Ketone	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
Heptachlor	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
Heptachlor Epoxide	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
Methoxychlor	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
Toxaphene	19 U	33	19	1	09/11/25 18:36	8/26/25	
alpha-BHC	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
alpha-Chlordane	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
beta-BHC	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
delta-BHC	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
gamma-BHC (Lindane)	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	
gamma-Chlordane	0.84 U	1.7	0.84	1	09/11/25 18:36	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	87	10 - 159	09/11/25 18:36	
Tetrachloro-m-xylene	53	10 - 132	09/11/25 18:36	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Analyzed: 09/11/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511334-02					Duplicate Lab Control Sample RQ2511334-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	5.41	6.64	82	5.34	6.63	81	48-121	1	30
4,4'-DDE	8081B	4.78	6.64	72	5.33	6.63	80	51-119	11	30
4,4'-DDT	8081B	5.80	6.64	87	5.78	6.63	87	51-126	<1	30
Aldrin	8081B	4.02	6.64	61	4.36	6.63	66	45-109	8	30
Dieldrin	8081B	4.70	6.64	71	4.83	6.63	73	56-111	3	30
Endosulfan I	8081B	4.10	6.64	62	4.52	6.63	68	54-109	10	30
Endosulfan II	8081B	4.95	6.64	75	5.02	6.63	76	50-116	2	30
Endosulfan Sulfate	8081B	4.94	6.64	74	4.99	6.63	75	55-115	<1	30
Endrin	8081B	4.97	6.64	75	5.10	6.63	77	49-124	3	30
Endrin Aldehyde	8081B	4.40	6.64	66	4.28	6.63	65	21-139	3	30
Endrin Ketone	8081B	5.32	6.64	80	5.45	6.63	82	50-124	2	30
Heptachlor	8081B	4.39	6.64	66	4.76	6.63	72	43-115	8	30
Heptachlor Epoxide	8081B	4.45	6.64	67	4.83	6.63	73	53-113	8	30
Methoxychlor	8081B	6.26	6.64	94	6.46	6.63	97	47-141	3	30
alpha-BHC	8081B	3.98	6.64	60	4.27	6.63	65	44-109	7	30
alpha-Chlordane	8081B	4.57	6.64	69	4.87	6.63	74	52-114	6	30
beta-BHC	8081B	4.76	6.64	72	5.14	6.63	78	49-119	8	30
delta-BHC	8081B	4.93	6.64	74	5.25	6.63	79	49-113	6	30
gamma-BHC (Lindane)	8081B	3.99	6.64	60	4.33	6.63	65	43-112	8	30
gamma-Chlordane	8081B	4.69	6.64	71	4.91	6.63	74	51-117	5	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171

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
8102 SB01 (1-2)	R2510171-001	78	56
8102 SB02 (3-4)	R2510171-002	90	63
8102 SB03 (5-6)	R2510171-003	80	54
Method Blank	RQ2511334-01	76	50
Lab Control Sample	RQ2511334-04	76	53
Duplicate Lab Control Sample	RQ2511334-05	71	55

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511334-01

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	17 U	33	17	1	09/03/25 20:41	8/26/25	
Aroclor 1221	26 U	66	26	1	09/03/25 20:41	8/26/25	
Aroclor 1232	19 U	33	19	1	09/03/25 20:41	8/26/25	
Aroclor 1242	17 U	33	17	1	09/03/25 20:41	8/26/25	
Aroclor 1248	18 U	33	18	1	09/03/25 20:41	8/26/25	
Aroclor 1254	17 U	33	17	1	09/03/25 20:41	8/26/25	
Aroclor 1260	17 U	33	17	1	09/03/25 20:41	8/26/25	
Aroclor 1262	17 U	33	17	1	09/03/25 20:41	8/26/25	
Aroclor 1268	17 U	33	17	1	09/03/25 20:41	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	76	10 - 138	09/03/25 20:41	
Tetrachloro-m-xylene	50	11 - 122	09/03/25 20:41	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Analyzed: 09/03/25

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					
RQ2511334-04					RQ2511334-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	116	165	70	113	165	68	34-141	3	30
Aroclor 1260	8082A	133	165	80	126	165	76	30-158	5	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA
		10 - 151
8102 SB01 (1-2)	R2510171-001	65
8102 SB02 (3-4)	R2510171-002	61
8102 SB03 (5-6)	R2510171-003	55
Method Blank	RQ2511381-01	46
Lab Control Sample	RQ2511381-02	53
Duplicate Lab Control Sample	RQ2511381-03	55

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511381-01

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	08/29/25 02:30	8/26/25	
2,4,5-TP	4.5 U	9.9	4.5	1	08/29/25 02:30	8/26/25	
2,4-D	6.5 U	9.9	6.5	1	08/29/25 02:30	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	46	10 - 151	08/29/25 02:30	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8102_Curt
Sample Matrix: Soil

Service Request: R2510171
Date Analyzed: 08/29/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ2511381-02

Duplicate Lab Control Sample
RQ2511381-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2,4,5-T	8151A	15.5	24.6	63	19.0	24.9	76	19-127	20	30
2,4,5-TP	8151A	12.6	24.6	51	15.2	24.9	61	18-122	18	30
2,4-D	8151A	11.3	24.6	46	13.3	24.9	54	31-119	17	30

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 8102_Curt
Matrix: Soil

Service Request: R2510171

Date Collected: NA

Date Received:

Sample Name: Lab Control Sample

Lab Code: RQ2511381-02

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	15.5	14.1	9		1	08/29/25 02:48
2,4,5-TP	4.5	12.6	12.8	2		1	08/29/25 02:48
2,4-D	6.5	11.3	13.0	14		1	08/29/25 02:48

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 8102_Curt
Matrix: Soil

Service Request: R2510171
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ2511381-03

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	17.6	8		1	08/29/25 03:07
2,4,5-TP	4.5	15.2	16.0	5		1	08/29/25 03:07
2,4-D	6.5	13.3	15.6	16		1	08/29/25 03:07



right solutions.
right partner.

October 21, 2025

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

Re: **DETR0060**

Date Received: **10/14/2025**

Work Order: **HN2515181**

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: HN2515181
Date Received: 14-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 14-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: HN2515181

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2515181-001	8102 Curt SB3 (0'-6') Comp	SOIL/SOLID	10/13/25 13:00	10/14/25 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: HN2515181
Date Collected: 10/13/25 13:00
Date Received: 10/14/25 07:00

CLIENT ID: 8102 Curt SB3 (0'-6') Comp **Lab ID: HN2515181-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Chromium	EPA 6020B	<0.00610	U	mg/L	0.0499	1	10/17/25 20:43	10/17/25 10:28



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2281436

Work Order: HN2515181
Date Collected: NA
Date Received: NA
Run ID: 3599113

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2281436-001
-----------	--------------------------------	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 20:16
Prep Date: 10/17/25 10:29

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chromium	<0.00610	mg/L	0.0499							U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2281436-002
------------	---	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 20:18
Prep Date: 10/17/25 10:29

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chromium	0.994	mg/L	0.0499	1		99.4	80-120			

The following samples were analyzed in this batch: HN2515181-001

ANALYST SUMMARY



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

Work Order: HN2515181

Sample Name: 8102 Curt SB3 (0'-6') Comp
Laboratory Code: HN2515181-001
Sample Matrix: SOIL/SOLID

Date Collected: 10/13/25
Date Received: 10/14/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AD	2281436	Chloe Patrick	3599113	Hunter Johnson



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	8102 Curt	A	TCLP Chromium							
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	montri@manniksmithgroup.com	e-Mail Address		I								
				J								
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	J	Hold
1	8102 Curt SB-3 (0'-6') COMP	10-13-25	1300	SO:1	-	2	X					
2												
3												
4												
5												
6												
7												
8												
9												
10												
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:				Results Due Date:				
Eddie Bosas				☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour								
Relinquished by:		Date:	Time:	Received by:		Notes:						
Edmund Bosas		10-13-25	1454	Shannon Kaczmarek								
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler Temp.		QC Package: (Check Box Below)				
Shannon Kaczmarek		10-13-25	1547	QS + B. M. T. 0700		17.7 3.7c		☐ Level II: Standard QC ☐ TRRP-Checklist				
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):				☐ Level III: Std QC + Raw Data ☐ TRRP Level IV				
BH		10/14/25	0922					☐ 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
HN2515181

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:

Broughton

Date/Time:

10/14/25 0700

Carrier Name:

GS

Shipping container/cooler in good condition?

☒ Yes / No / Not Present

Custody seals intact on shipping container/cooler?

Yes / No / ☒ Not Present

Custody seals intact on sample bottles?

Yes / No / ☒ Not Present

Chain of Custody present?

☒ Yes / No

COC signed when relinquished and received?

☒ Yes / No

COC agrees with sample labels?

☒ Yes / No

Samples in proper container/bottle?

☒ Yes / No

Sample containers intact?

☒ Yes / No

Sufficient sample volume for indicated test?

☒ Yes / No

All samples received within holding time?

☒ Yes / No

Container/Temp Blank temperature in compliance?

☒ Yes / No

Temperature(s) (°C):

3.7/3.7c

Thermometer(s):

IR7

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

Soil

Cooler(s)/Kit(s):

1

Date/Time sample(s) sent to storage:

10/14/25 0922

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: