

DRAFT

FILL MATERIAL SAMPLING REPORT

**6029 IROQUOIS AVENUE
DETROIT, WAYNE COUNTY, MICHIGAN 48213**



**NOVEMBER 10, 2025
REVISED DECEMBER 11, 2025**

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



FILL MATERIAL SAMPLING REPORT

**6029 IROQUOIS AVENUE
DETROIT, WAYNE COUNTY, MICHIGAN 48213**

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EXECUTIVE SUMMARY

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to perform sampling and analysis of fill materials at the property commonly addressed as 6029 Iroquois Avenue, 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 6029 SB01, 6029 SB02, and 6029 SB03 generally consisted of brown and gray mottled silty clay with some sand to six feet bgs, the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores ranged from 0.0 to 9.1 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, brick, concrete, and/or asphalt debris was observed in all of the soil borings.
- Concentrations of arsenic were detected in soil samples 6029 SB01 (1-2') and 6029 SB03 (5-6') in excess of its respective Part 201 drinking water protection criteria (DWPC) and groundwater surface water interface protection criteria (GSIPC).
- Concentrations of 1,2,4-trimethylbenzene, 4,4-DDD, 4,4-DDE, 4,4-DDT, alpha-chlordane, aroclor 1260, barium, chlordane, chloride copper, endrin ketone, gamma-chlordane, lead, mercury, chromium (Total), and zinc were detected in soil samples 6029 SB01 (1-2'), 6029 SB02 (3-4'), and/or 6029 SB03 (5-6') at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- Toxicity Characteristic Leaching Procedure (TCLP) laboratory analytical results revealed that concentrations of arsenic 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 were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable.

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

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

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 6029 Iroquois Avenue, 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, October 13, 2025, and October 27, 2025. The findings of this report are valid as of the report date, subject to the limitations presented in *Appendix A, Limitations*.

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

2.0 PURPOSE AND SCOPE OF WORK

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

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

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

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

3.0 SITE ASSESSMENT METHODOLOGY

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

3.1 Preliminary Site Work Activities

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

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

3.2 Soil Sample Collection

The sampling plan for the Site was based on the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and modified in the field (if necessary) based on encountered conditions and professional judgment of MSG's field personnel. MSG advanced three (3) initial soil borings, designated 6029 SB01, 6029 SB02, and 6029 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 utilizing a direct push drill rig. These soils were homogenized in a stainless-steel bowl (or equivalent) to produce a single, composite soil sample. The composite soil sample was placed into unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses.

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

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

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

3.4 Decontamination

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

3.5 Analytical Methods

A total of four (4) soil samples, designated 6029 SB01 (1-2'), 6029 SB02 (3-4'), 6029 SB03 (5-6'), and 6029 Iroquois SB03 (5-6')-R, and one (1) composite soil sample designated 6029 Iroquois SB-3 (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, October 13, 2025, October 13, 2025, and October 27, 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 6029 SB01, 6029 SB02, and 6029 SB03 generally consisted of brown and gray mottled silty clay with some sand to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 9.1 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination

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

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

4.2 Soil Sample Analytical Results

Four (4) soil samples, designated 6029 SB01 (1-2'), 6029 SB02 (3-4'), 6029 SB03 (5-6'), and 6029 Iroquois SB03 (5-6')-R were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and/or pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration ($\mu\text{g}/\text{kg}^1$)	Maximum Detected Concentration ($\mu\text{g}/\text{kg}$)
Arsenic	7440-38-2	6029 SB01 (1-2') 6029 SB03 (5-6')	DWPC ² / 4,600 GSIPC ³ / 4,600	7,220

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

²DWPC – Drinking Water Protection Criteria

³GSIPC – Groundwater Surface Water Interface Protection Criteria

4.3 TCLP Analytical Results

Arsenic 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 drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable.

5.0 FINDINGS

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

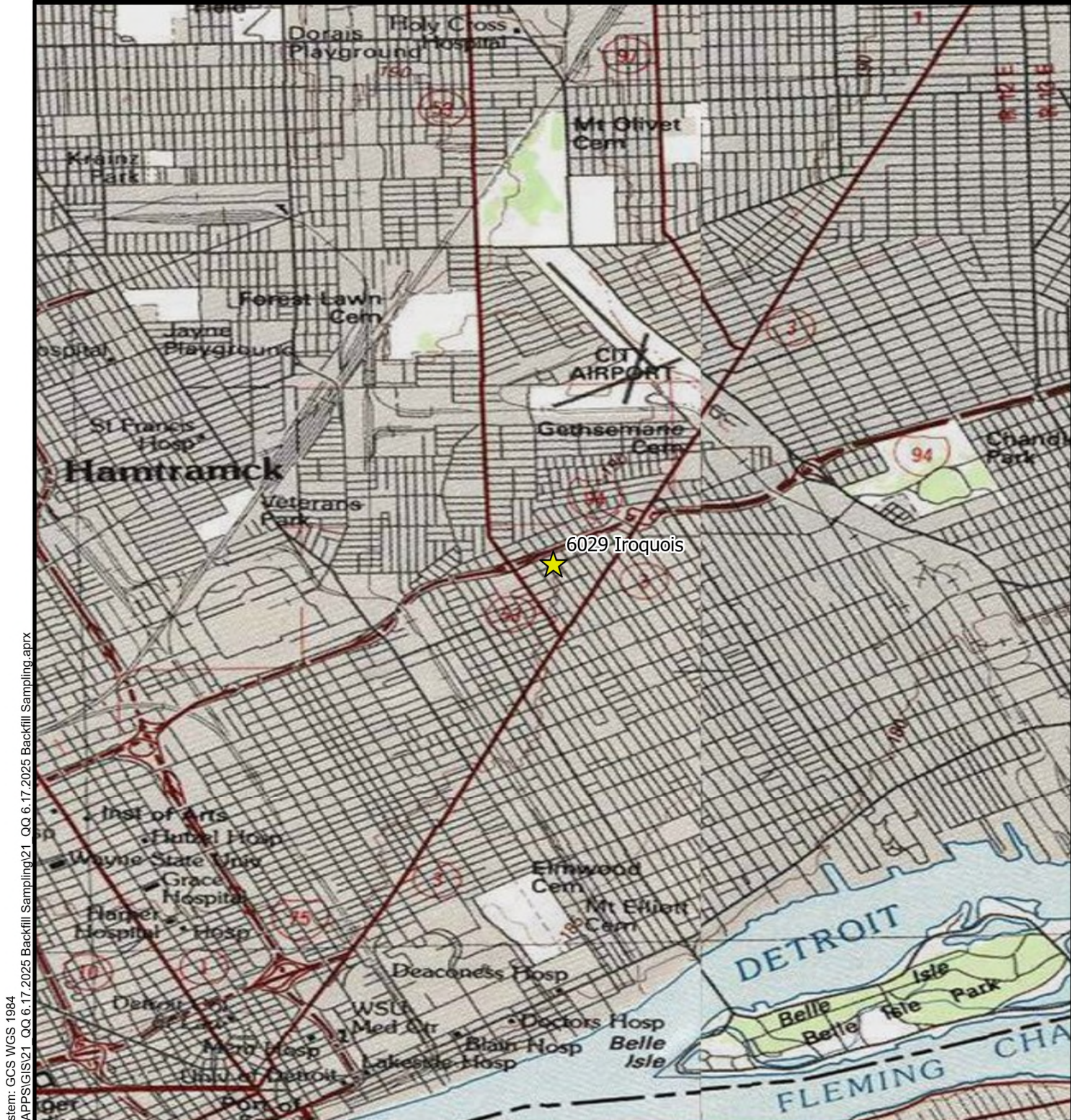
- The stratigraphy encountered during soil boring advancement of 6029 SB01, 6029 SB02, and 6029 SB03 generally consisted of brown and gray mottled silty clay with some sand to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 9.1 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, brick, concrete, and/or asphalt debris was observed in all of the soil borings.
- Concentrations of arsenic were detected in soil samples 6029 SB01 (1-2') and 6029 SB03 (5-6') in excess of its respective Part 201 DWPC and GSIPC.
- Concentrations of 1,2,4-trimethylbenzene, 4,4-DDD, 4,4-DDE, 4,4-DDT, alpha-chlordane, aroclor 1260, barium, chlordane, chloride copper, endrin ketone, gamma-chlordane, lead, mercury, chromium (Total), and zinc were detected in soil samples 6029 SB01 (1-2'), 6029 SB02 (3-4'), and/or 6029 SB03 (5-6') at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- TCLP laboratory analytical results revealed that concentrations of arsenic 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 were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the DW exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable.

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

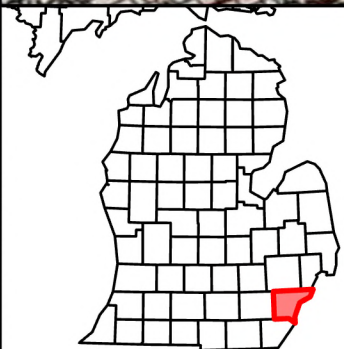
MSG warrants that no substantive information or documentation was deleted, omitted, or changed that would otherwise cause the MSG to reach a different conclusion. Furthermore, MSG understands that the COD and its agencies and authorities may rely upon the overall completeness, accuracy, and conclusions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

FIGURES





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

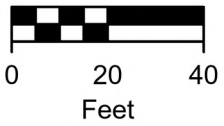


TECHNICAL SKILL.
CREATIVE SPIRIT.

FIGURE 1
SITE LOCATION

6029 Iroquois, 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

6029 Iroquois, 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
6029 Iroquois, 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
			1,2,4-Trimethylbenzene		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	Endrin Ketone	alpha-Chlordane	gamma-Chlordane	Chlordane	Aroclor 1260	Chloride	
CAS Number		95-63-6	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	NA	NA	NA	57-74-9	11096-82-5	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	NA	NA	NA	NA	NA		
Drinking Water Protection Criteria (DWPC)		2,100	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	NA	NA	NA	NLL	NA	5.00E+06		
Groundwater Surface Water Interface Protection Criteria (GSIPC)		570	4,600		(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27	(G)	NLL	NLL	NLL	NA	NA	NA	NLL	NA	(X)		
Soil Volatilization to Indoor Air Inhalation (SVIIC)		4.3E+6 (C)	NLV		NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV	NLV	NLV	NLV	NA	NA	NA	1.10E+07	NA	NLV		
Soil Volatilization to Indoor Air Pathway (SVIAP)		150 (JT)	NA		NA	NA	--	NA	NA	22 (M)	NA	NA	NA	NLV	NA	--	NA	NA	NA	13,000	--	--		
Infinite Source Volatile Soil Inhalation Criteria (VSIC)		2.1E+07	NLV		NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV	NA	NA	NA	1.20E+06	NA	NLV		
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)		5.0E+08	NLV		NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV	NA	NA	NA	1.20E+06	NA	NLV		
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)		5.0E+08	NLV		NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV	NA	NA	NA	1.20E+06	NA	NLV		
Particulate Soil Inhalation Criteria (PSIC)		8.2E+10	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	NA	NA	NA	3.1E+07	NA	ID		
Direct Contact Criteria (DCC)		3.2E+07 (C)	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	NA	NA	NA	31,000	NA	5.0E+5 (F)		
Soil Saturation Concentration Screening Levels (C _{sat})		1.1E+05	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Recommended Interim Action Screening Level (RIASL)		150	NA		NA	NA	NA	NA	NA	2.7E-02	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA	--		
SAMPLE ID	DEPTH (ft)	SAMPLE DATE		ND	6,590	48,800	<1,230	13,200	6,900	7,610	29.2	<3,070	<3,070	36,900	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<9.3	<37	105,000	
6029 SB01	1-2	8/13/2025	<37.7	ND	3,230	55,300	<1,240	15,300	7,780	7,340	<22.8	<3,110	<3,110	34,600	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<9.7	<39	<11,600	
6029 SB03	5-6	8/13/2025	37.1	ND	7,220	51,000	<1,380	15,800	12,700	23,000	23.4	<3,440	<3,440	47,300	15	56	18	2.4	8.9	7.8	16.7	92	60,400	
6029 Iroquois SB03 - R	5-6	10/27/2025	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<18.6	<19.1	<19.3	<17.7	<19.4	<19.3	<28.8	NS	NS	

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

Table 2
TCLP Analytical Detection Summary

Detroit Backfill Sampling
6029 Iroquois, 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		5.00
SAMPLE ID	SAMPLE DATE	
6029 Iroquois SB-3 (0'-6') Comp	10/13/2025	<0.00190

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: <u>08/13/2025</u>	Day: <u>Wednesday</u>	Temp: <u>78° F</u> (AM) <u>N/A</u> (PM)
MSG Personnel: <u>WRD, ZRG, JDF</u>	Cloud Cover: <u>~5%</u> (AM) <u>N/A</u> (PM)	Precip.: <u>None</u> (AM) <u>N/A</u> (PM)
Personnel: <u>MSG</u>		
MSG Hours On-Site: <u>1.5 hours</u>		

Contractors Information		
Contractor: <u>MSG</u>	No. Men and Type: <u>3; Helper/Geologist/Driller</u>	Equipment Type: <u>Geoprobe 7822DT</u>

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:
1150– ZRG & WRD onsite (6029 Iroquois St) 1154 – Unloaded equipment and checked boring locations 1159– Began drilling SB01 1207 – Finished drilling SB01 1208 – Began drilling SB02 1221 – Finished drilling SB02 1222 – Began drilling SB03 1233 – Finished drilling SB03 1250 – Sampled 6029 SB01 (1-2') 1255 – Sampled 6029 SB02 (3-4') 1300 – Sampled 6029 SB03 (5-6') 1305 – Packed up equipment 1316 – MSG off site

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



DAILY FIELD REPORT

Client: City of Detroit Demolition Department
Project: Sampling and Analysis of Fill Material – 6029 Iroquois

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:		
1316 – MSG onsite (6029 Iroquois). 1335 - Collected composite sample from SB-3 from 0'-6'. 6029 Iroquois SB-3 (0'-6') Comp. - MSG GPS'd SB location. 1355 – MSG off site.		

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

**DAILY FIELD REPORT**

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

Report No.: 3
Job No.: DETR0060

Date: 10/27/2025	Day: Monday	Temp: 52 ° F	(AM)	N/A	(PM)
MSG Personnel: WRD, BSM		Cloud Cover: 0%	(AM)	N/A	(PM)
		Precip.: N/A	(AM)	N/A	(PM)
Personnel: MSG					
MSG Hours On-Site: ~ 0.5 hours					
Contractors Information					
Contractor: MSG		No. Men and Type: 2; Operator/Geologist		Equipment Type: Geoprobe 7822DT	
Summary of Work Performed:					
- Advanced one (1) onsite soil borings to a maximum depth of 6 feet below ground surface (bgs) - Collected soil sample from soil boring (from the interval 5-6' to analyze for Pesticides, Herbicides, & SVOCs).					
Field Notes:					
1151 – MSG (WRD, BSM) onsite (6029 Iroquois) 1158 – Attempted to locate previous boring locations. Marked out new boring location. 1203 – Began drilling SB03 (5-6')-R 1210 – Finished drilling SB03 (5-6')-R 1211 – Sampled 6029 Iroquois SB03 (5-6')-R 1219 – Packed up equipment 1222 – MSG off site					

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

APPENDIX C

INVESTIGATION PHOTOGRAPHS





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



Photo 2. View of TCLP soil boring recovery



Photo 3. View of Site at the time of supplemental soil sampling activities



Photo 4. View of supplemental soil boring recovery



Photo 5. View boring location of the supplemental soil sample

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.BFS17
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 6029 Iroquois, 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		Brown & Gray Mottled Silty CLAY, some Sand & Brick debris; dry	0.0	Collected soil sample 6029 SB01 (1-2) at 12:50
6.0				Terminated at 6.00 ft.	0.0	
10						
15						
20						

LEGEND:

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



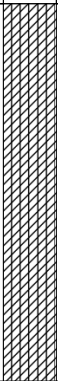
The Mannik & Smith Group, Inc.
2365 Haggerty Road South, Canton, MI 48188
ph: (734) 397-3100 fax: (734) 397-3131
www.manniksmithgroup.com

BOREHOLE NUMBER SB02

Sheet 1 of 1

CLIENT City of Detroit
PROJECT NUMBER DETR0060.BFS17
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 6029 Iroquois, 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	46		Brown & Gray Mottled Silty CLAY, some Sand & Brick debris; dry	0.0	Collected soil sample 6029 SB02 (3-4) at 12:55
					0.0	
					0.0	
					0.0	
					0.0	
6.0				Terminated at 6.00 ft.	0.0	
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.BFS17
DATE STARTED 08-13-2025 **COMPLETED** 08-13-2025
DRILLING CONTRACTOR MSG
DRILLING METHOD Direct Push
EQUIPMENT GeoProbe **Operator** JDF

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 6029 Iroquois, 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	58		Black Clayey DEBRIS (Concrete & Asphalt), trace Silt & Sand; moist	0.0 0.0 0.1 0.8 4.3 9.1	Collected soil sample 6029 SB03 (5-6) at 13:00
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

HN2511554

Client

The Mannik & Smith Group, Inc.

Project

6029 Iroquois

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: **6029 Iroquois**

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

Work Order: **HN2511554**

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: 6029 Iroquois

Work Order: HN2511554
Date Received: 15-Aug-2025

CASE NARRATIVE

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

Sample Receipt

3 soil/solid samples were received for analysis at ALS Environmental on 15-Aug-2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Inorganics

EPA 9056A-S (High)

Run ID: 3416753

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

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

Organics

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

Run ID: 3434986

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

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

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

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

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 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

Metals

EPA 6020B-3050B-S

The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Zn Batch 2170135

The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Zn Batch 2170135

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

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

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

HN2511554-001: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511554-001: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511554-001: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511554-002: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511554-002: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511554-002: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511554-003: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511554-003: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511554-003: 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: 6029 SB01 (1-2)	Lab ID: HN2511554-001
----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	6.59		3.07	mg/kg	EPA 6020B
Barium	48.8		3.07	mg/kg	EPA 6020B
Chloride	105		11.1	mg/kg	EPA 9056A
Chromium	13.2		3.07	mg/kg	EPA 6020B
Copper	6.90		3.07	mg/kg	EPA 6020B
Lead	7.61		3.07	mg/kg	EPA 6020B
Mercury	0.0292		0.0210	mg/kg	EPA 7471B
Percent Moisture	11.1		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	36.9		6.14	mg/kg	EPA 6020B

CLIENT ID: 6029 SB02 (3-4)	Lab ID: HN2511554-002
----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	3.23		3.11	mg/kg	EPA 6020B
Barium	55.3		3.11	mg/kg	EPA 6020B
Chromium	15.3		3.11	mg/kg	EPA 6020B
Copper	7.78		3.11	mg/kg	EPA 6020B
Lead	7.34		3.11	mg/kg	EPA 6020B
Percent Moisture	14.8		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	34.6		6.21	mg/kg	EPA 6020B

CLIENT ID: 6029 SB03 (5-6)	Lab ID: HN2511554-003
----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
1,2,4-Trimethylbenzene	37.1		33.7	µg/kg	EPA 8260D
Arsenic	7.22		3.44	mg/kg	EPA 6020B
Barium	51.0		3.44	mg/kg	EPA 6020B
Chloride	60.4		11.5	mg/kg	EPA 9056A
Chromium	15.8		3.44	mg/kg	EPA 6020B
Copper	12.7		3.44	mg/kg	EPA 6020B
Lead	23.0		3.44	mg/kg	EPA 6020B
Mercury	0.0234		0.0211	mg/kg	EPA 7471B
Percent Moisture	12.7		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B

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: 6029 SB03 (5-6)

Lab ID: HN2511554-003

Analyte	Results	Flag	MRL	Units	Method
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	47.3		6.88	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 6029 Iroquois
Workorder: HN2511554

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511554-001	6029 SB01 (1-2)	SOIL/SOLID	08/13/25 12:50	08/15/25 08:00
HN2511554-002	6029 SB02 (3-4)	SOIL/SOLID	08/13/25 12:55	08/15/25 08:00
HN2511554-003	6029 SB03 (5-6)	SOIL/SOLID	08/13/25 13:00	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	6029 Iroquois	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	6029 SB01 (1-2)	8/13/25	1250	Soil	METH	3											
2	6029 SB02 (3-4)	1	1255	Soil	1	3											
3	6029 SB03 (5-6)	1	1300	Soil	1	3											
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Environmental Division
Holland
Work Order Reference
HN2511554

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: RL		Notes: Quote# HN-061825-M&S-MA	
Relinquished by:		Date: 8/14/25	Time: 1700	Received by (Laboratory): QS		Cooler Temp. 22°C	
Logged by (Laboratory): BC		Date: 8/15/25	Time: 12:50	Checked by (Laboratory):		QC Package: (Check Box Below)	
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-S035						Level II: Standard QC TRRP-Checklist	
						Level III: Std QC + Raw Data TRRP Level IV	
						Level IV: SW846 CLP-Like	
						Other:	

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

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

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ALS Holland Sample Receiving Checklist

Received by:

BC

Date/Time:

8/15/25 08:00

Carrier Name:

QS

Shipping container/cooler in good condition?

☒ Yes / No / Not Present

Custody seals intact on shipping container/cooler?

Yes / No / Not ☒ Present

Custody seals intact on sample bottles?

Yes / No / Not ☒ Present

Chain of Custody present?

☒ Yes / No

COC signed when relinquished and received?

☒ Yes / No

COC agrees with sample labels?

☒ Yes / No

Samples in proper container/bottle?

☒ Yes / No

Sample containers intact?

☒ Yes / No

Sufficient sample volume for indicated test?

☒ Yes / No

All samples received within holding time?

☒ Yes / No

Container/Temp Blank temperature in compliance?

☒ Yes / No

Temperature(s) (°C):

2.1°C

Thermometer(s):

TP6

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

Soil

Cooler(s)/Kit(s):

1

Date/Time sample(s) sent to storage:

8/15/25 1300

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: 6029 Iroquois

Work Order: HN2511554

Sample Name: 6029 SB01 (1-2) **Date Collected:** 08/13/25
Laboratory Code: HN2511554-001 **Date Received:** 08/15/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2172988		3420581	Everett Chudy
EPA 6020B	EPA 3050B	001-AC	2170135	Weston Kotecki	3418166	Hunter Johnson
EPA 7471B	Method	001-AC	2172935	Maxx Richey	3422787	Denise Coffey
EPA 8081B		001-AD			3490902	Bill Carey
EPA 8082A		001-AD			3490902	Bill Carey
EPA 8151A		001-AD			3490902	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2162930	Jonathan Vazquez	3434986	John Garvale
EPA 8270E		001-AD			3490902	Bill Carey
EPA 9056A	EPA 9056A	001-AC	2167783	Quoc Nguyen	3416753	Riley Miller

Sample Name: 6029 SB02 (3-4) **Date Collected:** 08/13/25
Laboratory Code: HN2511554-002 **Date Received:** 08/15/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2172988		3420581	Everett Chudy
EPA 6020B	EPA 3050B	002-AC	2170135	Weston Kotecki	3418166	Hunter Johnson
EPA 7471B	Method	002-AC	2172935	Maxx Richey	3422787	Denise Coffey
EPA 8081B		002-AD			3490902	Bill Carey
EPA 8082A		002-AD			3490902	Bill Carey
EPA 8151A		002-AD			3490902	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2162930	Jonathan Vazquez	3434986	John Garvale
EPA 8270E		002-AD			3490902	Bill Carey
EPA 9056A	EPA 9056A	002-AC	2167783	Quoc Nguyen	3416753	Riley Miller

Sample Name: 6029 SB03 (5-6) **Date Collected:** 08/13/25
Laboratory Code: HN2511554-003 **Date Received:** 08/15/25
Sample Matrix: SOIL/SOLID

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

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 6029 Iroquois

Work Order: HN2511554

Sample Name: 6029 SB03 (5-6)
Laboratory Code: HN2511554-003
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	2170135	Weston Kotecki	3418166	Hunter Johnson
EPA 7471B		003-AC	2172935	Maxx Richey	3422787	Denise Coffey
EPA 8081B		003-AD			3490902	Bill Carey
EPA 8082A		003-AD			3490902	Bill Carey
EPA 8151A	EPA 5035A	003-AD			3490902	Bill Carey
EPA 8260D		003-AA	2162930	Jonathan Vazquez	3434986	John Garvale
EPA 8270E		003-AD			3490902	Bill Carey
EPA 9056A	EPA 9056A	003-AC	2167783	Quoc Nguyen	3416753	Riley Miller

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 6029 Iroquois
Matrix: SOIL/SOLID

Work Order: HN2511554
Date Collected: 08/13/25 12:50
Date Received: 08/15/25 08:00

CLIENT ID: 6029 SB01 (1-2) **Lab ID: HN2511554-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	11.1		%	0.1	1	08/21/25 14:45	NA
Chloride	EPA 9056A	105		mg/kg	11.1	1	08/19/25 17:04	08/19/25 13:22
Metals								
Arsenic	EPA 6020B	6.59		mg/kg	3.07	10	08/20/25 22:33	08/20/25 10:26
Barium	EPA 6020B	48.8		mg/kg	3.07	10	08/20/25 22:33	08/20/25 10:26
Cadmium	EPA 6020B	ND		mg/kg	1.23	10	08/20/25 22:33	08/20/25 10:26
Chromium	EPA 6020B	13.2		mg/kg	3.07	10	08/20/25 22:33	08/20/25 10:26
Copper	EPA 6020B	6.90		mg/kg	3.07	10	08/20/25 22:33	08/20/25 10:26
Lead	EPA 6020B	7.61		mg/kg	3.07	10	08/20/25 22:33	08/20/25 10:26
Selenium	EPA 6020B	ND		mg/kg	3.07	10	08/20/25 22:33	08/20/25 10:26
Silver	EPA 6020B	ND		mg/kg	3.07	10	08/20/25 22:33	08/20/25 10:26
Zinc	EPA 6020B	36.9		mg/kg	6.14	10	08/20/25 22:33	08/20/25 10:26
Mercury	EPA 7471B	0.0292		mg/kg	0.0210	1	08/22/25 09:44	08/21/25 15:36
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/12/25 16:22	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/12/25 16:22	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/12/25 16:22	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/12/25 16:22	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	126	1	08/26/25 04:50	08/15/25 15:57
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	126	1	08/26/25 04:50	08/15/25 15:57
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	126	1	08/26/25 04:50	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 6029 Iroquois
Matrix: SOIL/SOLID

Work Order: HN2511554
Date Collected: 08/13/25 12:50
Date Received: 08/15/25 08:00

CLIENT ID: 6029 SB01 (1-2) **Lab ID: HN2511554-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	126	1	08/26/25 04:50	08/15/25 15:57
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	126	1	08/26/25 04:50	08/15/25 15:57
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	75.3	1	08/26/25 04:50	08/15/25 15:57
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	251	1	08/26/25 04:50	08/15/25 15:57
2-Hexanone	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Acetone	EPA 8260D	ND		µg/kg	126	1	08/26/25 04:50	08/15/25 15:57
Benzene	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Bromochloromethane	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Bromodichloromethane	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Bromoform	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Carbon disulfide	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Carbon tetrachloride	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Chlorobenzene	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Chlorodibromomethane	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	126	1	08/26/25 04:50	08/15/25 15:57
Chloroform	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	75.3	1	08/26/25 04:50	08/15/25 15:57
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Cyclohexane	EPA 8260D	ND		µg/kg	126	1	08/26/25 04:50	08/15/25 15:57
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	126	1	08/26/25 04:50	08/15/25 15:57
Ethylbenzene	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Isopropylbenzene	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 6029 Iroquois
Matrix: SOIL/SOLID

Work Order: HN2511554
Date Collected: 08/13/25 12:50
Date Received: 08/15/25 08:00

CLIENT ID: 6029 SB01 (1-2)	Lab ID: HN2511554-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	75.3	1	08/26/25 04:50	08/15/25 15:57
Methyl acetate	EPA 8260D	ND		µg/kg	314	1	08/26/25 04:50	08/15/25 15:57
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	126	1	08/26/25 04:50	08/15/25 15:57
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	126	1	08/26/25 04:50	08/15/25 15:57
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Methylcyclohexane	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	314	1	08/26/25 04:50	08/15/25 15:57
o-Xylene	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Styrene	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Toluene	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Total Xylene	EPA 8260D	ND		µg/kg	113	1	08/26/25 04:50	08/15/25 15:57
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	37.7	1	08/26/25 04:50	08/15/25 15:57
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	93.5		%REC	80-120	1	08/26/25 04:50	08/15/25 15:57
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	100		%REC	80-120	1	08/26/25 04:50	08/15/25 15:57
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	88.5		%REC	72-120	1	08/26/25 04:50	08/15/25 15:57
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	08/26/25 04:50	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 6029 Iroquois
Matrix: SOIL/SOLID

Work Order: HN2511554
Date Collected: 08/13/25 12:55
Date Received: 08/15/25 08:00

CLIENT ID: 6029 SB02 (3-4)	Lab ID: HN2511554-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	14.8		%	0.1	1	08/21/25 14:45	NA
Chloride	EPA 9056A	ND		mg/kg	11.6	1	08/19/25 17:13	08/19/25 13:22
Metals								
Arsenic	EPA 6020B	3.23		mg/kg	3.11	10	08/20/25 22:35	08/20/25 10:26
Barium	EPA 6020B	55.3		mg/kg	3.11	10	08/20/25 22:35	08/20/25 10:26
Cadmium	EPA 6020B	ND		mg/kg	1.24	10	08/20/25 22:35	08/20/25 10:26
Chromium	EPA 6020B	15.3		mg/kg	3.11	10	08/20/25 22:35	08/20/25 10:26
Copper	EPA 6020B	7.78		mg/kg	3.11	10	08/20/25 22:35	08/20/25 10:26
Lead	EPA 6020B	7.34		mg/kg	3.11	10	08/20/25 22:35	08/20/25 10:26
Selenium	EPA 6020B	ND		mg/kg	3.11	10	08/20/25 22:35	08/20/25 10:26
Silver	EPA 6020B	ND		mg/kg	3.11	10	08/20/25 22:35	08/20/25 10:26
Zinc	EPA 6020B	34.6		mg/kg	6.21	10	08/20/25 22:35	08/20/25 10:26
Mercury	EPA 7471B	ND		mg/kg	0.0228	1	08/22/25 09:51	08/21/25 15:36
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/12/25 16:22	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/12/25 16:22	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/12/25 16:22	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/12/25 16:22	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	115	1	08/26/25 05:09	08/15/25 15:57
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	115	1	08/26/25 05:09	08/15/25 15:57
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	115	1	08/26/25 05:09	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 6029 Iroquois
Matrix: SOIL/SOLID

Work Order: HN2511554
Date Collected: 08/13/25 12:55
Date Received: 08/15/25 08:00

CLIENT ID: 6029 SB02 (3-4) **Lab ID: HN2511554-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	115	1	08/26/25 05:09	08/15/25 15:57
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	115	1	08/26/25 05:09	08/15/25 15:57
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	69.1	1	08/26/25 05:09	08/15/25 15:57
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	230	1	08/26/25 05:09	08/15/25 15:57
2-Hexanone	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Acetone	EPA 8260D	ND		µg/kg	115	1	08/26/25 05:09	08/15/25 15:57
Benzene	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Bromochloromethane	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Bromodichloromethane	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Bromoform	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Carbon disulfide	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Carbon tetrachloride	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Chlorobenzene	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Chlorodibromomethane	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	115	1	08/26/25 05:09	08/15/25 15:57
Chloroform	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	69.1	1	08/26/25 05:09	08/15/25 15:57
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Cyclohexane	EPA 8260D	ND		µg/kg	115	1	08/26/25 05:09	08/15/25 15:57
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	115	1	08/26/25 05:09	08/15/25 15:57
Ethylbenzene	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Isopropylbenzene	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 6029 Iroquois
Matrix: SOIL/SOLID

Work Order: HN2511554
Date Collected: 08/13/25 12:55
Date Received: 08/15/25 08:00

CLIENT ID: 6029 SB02 (3-4)	Lab ID: HN2511554-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	69.1	1	08/26/25 05:09	08/15/25 15:57
Methyl acetate	EPA 8260D	ND		µg/kg	288	1	08/26/25 05:09	08/15/25 15:57
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	115	1	08/26/25 05:09	08/15/25 15:57
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	115	1	08/26/25 05:09	08/15/25 15:57
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Methylcyclohexane	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	288	1	08/26/25 05:09	08/15/25 15:57
o-Xylene	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Styrene	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Toluene	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Total Xylene	EPA 8260D	ND		µg/kg	104	1	08/26/25 05:09	08/15/25 15:57
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	34.6	1	08/26/25 05:09	08/15/25 15:57
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	96.0		%REC	80-120	1	08/26/25 05:09	08/15/25 15:57
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	99.3		%REC	80-120	1	08/26/25 05:09	08/15/25 15:57
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	90.0		%REC	72-120	1	08/26/25 05:09	08/15/25 15:57
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	103		%REC	80-120	1	08/26/25 05:09	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 6029 Iroquois
Matrix: SOIL/SOLID

Work Order: HN2511554
Date Collected: 08/13/25 13:00
Date Received: 08/15/25 08:00

CLIENT ID: 6029 SB03 (5-6)	Lab ID: HN2511554-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	12.7		%	0.1	1	08/21/25 14:45	NA
Chloride	EPA 9056A	60.4		mg/kg	11.5	1	08/19/25 17:21	08/19/25 13:22
Metals								
Arsenic	EPA 6020B	7.22		mg/kg	3.44	10	08/20/25 22:37	08/20/25 10:26
Barium	EPA 6020B	51.0		mg/kg	3.44	10	08/20/25 22:37	08/20/25 10:26
Cadmium	EPA 6020B	ND		mg/kg	1.38	10	08/20/25 22:37	08/20/25 10:26
Chromium	EPA 6020B	15.8		mg/kg	3.44	10	08/20/25 22:37	08/20/25 10:26
Copper	EPA 6020B	12.7		mg/kg	3.44	10	08/20/25 22:37	08/20/25 10:26
Lead	EPA 6020B	23.0		mg/kg	3.44	10	08/20/25 22:37	08/20/25 10:26
Selenium	EPA 6020B	ND		mg/kg	3.44	10	08/20/25 22:37	08/20/25 10:26
Silver	EPA 6020B	ND		mg/kg	3.44	10	08/20/25 22:37	08/20/25 10:26
Zinc	EPA 6020B	47.3		mg/kg	6.88	10	08/20/25 22:37	08/20/25 10:26
Mercury	EPA 7471B	0.0234		mg/kg	0.0211	1	08/22/25 09:59	08/21/25 15:36
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/12/25 16:22	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/12/25 16:22	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/12/25 16:22	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/12/25 16:22	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	112	1	08/26/25 05:27	08/15/25 15:57
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	112	1	08/26/25 05:27	08/15/25 15:57
1,2,4-Trimethylbenzene	EPA 8260D	37.1		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	112	1	08/26/25 05:27	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 6029 Iroquois
Matrix: SOIL/SOLID

Work Order: HN2511554
Date Collected: 08/13/25 13:00
Date Received: 08/15/25 08:00

CLIENT ID: 6029 SB03 (5-6) **Lab ID: HN2511554-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	112	1	08/26/25 05:27	08/15/25 15:57
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	112	1	08/26/25 05:27	08/15/25 15:57
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	67.4	1	08/26/25 05:27	08/15/25 15:57
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	225	1	08/26/25 05:27	08/15/25 15:57
2-Hexanone	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Acetone	EPA 8260D	ND		µg/kg	112	1	08/26/25 05:27	08/15/25 15:57
Benzene	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Bromochloromethane	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Bromodichloromethane	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Bromoform	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Carbon disulfide	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Carbon tetrachloride	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Chlorobenzene	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Chlorodibromomethane	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	112	1	08/26/25 05:27	08/15/25 15:57
Chloroform	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	67.4	1	08/26/25 05:27	08/15/25 15:57
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Cyclohexane	EPA 8260D	ND		µg/kg	112	1	08/26/25 05:27	08/15/25 15:57
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	112	1	08/26/25 05:27	08/15/25 15:57
Ethylbenzene	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Isopropylbenzene	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 6029 Iroquois
Matrix: SOIL/SOLID

Work Order: HN2511554
Date Collected: 08/13/25 13:00
Date Received: 08/15/25 08:00

CLIENT ID: 6029 SB03 (5-6)	Lab ID: HN2511554-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	67.4	1	08/26/25 05:27	08/15/25 15:57
Methyl acetate	EPA 8260D	ND		µg/kg	281	1	08/26/25 05:27	08/15/25 15:57
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	112	1	08/26/25 05:27	08/15/25 15:57
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	112	1	08/26/25 05:27	08/15/25 15:57
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Methylcyclohexane	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	281	1	08/26/25 05:27	08/15/25 15:57
o-Xylene	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Styrene	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Toluene	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Total Xylene	EPA 8260D	ND		µg/kg	101	1	08/26/25 05:27	08/15/25 15:57
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	33.7	1	08/26/25 05:27	08/15/25 15:57
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	93.2		%REC	80-120	1	08/26/25 05:27	08/15/25 15:57
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	103		%REC	80-120	1	08/26/25 05:27	08/15/25 15:57
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	89.3		%REC	72-120	1	08/26/25 05:27	08/15/25 15:57
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	102		%REC	80-120	1	08/26/25 05:27	08/15/25 15:57



November 21, 2025

Service Request No:R2510175

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

Laboratory Results for: 6029 Iroquois

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 **R2510175**.

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: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Received: 08/20/2025

CASE NARRATIVE

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

Sample Receipt:

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

Semivolatiles by GC/MS:

Method 8270E, 891277: The reporting limit is elevated for one or more analytes. The sample extract was diluted prior to instrumental analysis due to relatively high levels of non-target background components. The extract was highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument. The result(s) are flagged to indicate the matrix interference.

Semivolatile GC:

Method 8081B, 09/11/2025: 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.

Method 8151A: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV) on one detector. All recoveries were acceptable on the secondary detector. Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by



Date

11/21/2025



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: 6029 SB03 (5-6)	Lab ID: R2510175-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	15		0.95	1.9	ug/Kg	8081B
4,4'-DDE	56		0.95	1.9	ug/Kg	8081B
4,4'-DDT	18	P	0.95	1.9	ug/Kg	8081B
alpha-Chlordane	8.9	P	0.95	1.9	ug/Kg	8081B
Aroclor 1260	92		20	37	ug/Kg	8082A
Endrin Ketone	2.4		0.95	1.9	ug/Kg	8081B
gamma-Chlordane	7.8	P	0.95	1.9	ug/Kg	8081B
Total Solids	87.3				Percent	ALS SOP

CLIENT ID: 6029 SB01 (1-2)	Lab ID: R2510175-001
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Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	88.9				Percent	ALS SOP

CLIENT ID: 6029 SB02 (3-4)	Lab ID: R2510175-002
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Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	85.2				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: 6029 Iroquois

Service Request:R2510175

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2510175-001	6029 SB01 (1-2)	8/13/2025	1250
R2510175-002	6029 SB02 (3-4)	8/13/2025	1255
R2510175-003	6029 SB03 (5-6)	8/13/2025	1300

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: HN2511554

Subcontract To:

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

Due Date: 08/26/2025

Analysis Report Format: ALS Standard – Level II

Electronic Data Deliverable:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	6029 Iroquois	A	EPA 8081B-3546-S (INT SUB)
Work Order	HN2511554			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
HN2511554-001	6029 SB01 (1-2)	Soil/Solid	08/13/2025 12:50	001-AD	x	x	x	x						
HN2511554-002	6029 SB02 (3-4)	Soil/Solid	08/13/2025 12:55	002-AD	x	x	x	x						
HN2511554-003	6029 SB03 (5-6)	Soil/Solid	08/13/2025 13:00	003-AD	x	x	x	x						

Relinquished by	Date Time	Received by	Date Time	Cooler ID's _____ _____ _____
Relinquished by	Date Time	Received by	Date Time	
Sampled by				

R2510175 5

ALS Environmental - Holland
6029 Iroquois





Cooler Receipt and Preservation Check Form

R2510175
ALS Environmental - Holland
6029 Iroquois

5



Project/Client _____ Folder Number _____

Cooler received on 8/20/25 by: RM

COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

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

Temp (°C)	<u>4.2</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: 16:35 by: MM

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

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

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

Bottle lot numbers: 062325-1SR

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: 6029 Iroquois

Service Request: R2510175

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: 6029 Iroquois/

Service Request: R2510175

Sample Name: 6029 SB01 (1-2)
Lab Code: R2510175-001
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: 6029 SB02 (3-4)
Lab Code: R2510175-002
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: 6029 SB03 (5-6)
Lab Code: R2510175-003
Sample Matrix: Soil

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

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



PREPARATION METHODS

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

INORGANIC

Water/Liquid Matrix

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

Solid/Soil/Non-Aqueous Matrix

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

ORGANIC

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

Regarding "Bulk/5035A":

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



Sample Results

ALS Environmental—Rochester Laboratory

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Collected: 08/13/25 12:50
Date Received: 08/20/25 09:30

Sample Name: 6029 SB01 (1-2)
Lab Code: R2510175-001

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	68 U	370	68	1	08/27/25 20:34	8/26/25	
1,2,4,5-Tetrachlorobenzene	82 U	370	82	1	08/27/25 20:34	8/26/25	
2-Methylnaphthalene	130 U	370	130	1	08/27/25 20:34	8/26/25	
Acenaphthene	70 U	370	70	1	08/27/25 20:34	8/26/25	
Acenaphthylene	74 U	370	74	1	08/27/25 20:34	8/26/25	
Anthracene	62 U	370	62	1	08/27/25 20:34	8/26/25	
Benz(a)anthracene	55 U	370	55	1	08/27/25 20:34	8/26/25	
Benzo(a)pyrene	98 U	370	98	1	08/27/25 20:34	8/26/25	
Benzo(b)fluoranthene	61 U	370	61	1	08/27/25 20:34	8/26/25	
Benzo(g,h,i)perylene	84 U	370	84	1	08/27/25 20:34	8/26/25	
1,4-Dichlorobenzene	62 U	370	62	1	08/27/25 20:34	8/26/25	
Benzo(k)fluoranthene	60 U	370	60	1	08/27/25 20:34	8/26/25	
Biphenyl	110 U	370	110	1	08/27/25 20:34	8/26/25	
Chrysene	54 U	370	54	1	08/27/25 20:34	8/26/25	
Dibenz(a,h)anthracene	80 U	370	80	1	08/27/25 20:34	8/26/25	
1,4-Dioxane	36 U	74	36	1	08/27/25 20:34	8/26/25	
Dibenzofuran	67 U	370	67	1	08/27/25 20:34	8/26/25	
Fluoranthene	92 U	370	92	1	08/27/25 20:34	8/26/25	
Fluorene	69 U	370	69	1	08/27/25 20:34	8/26/25	
Indeno(1,2,3-cd)pyrene	120 U	370	120	1	08/27/25 20:34	8/26/25	
Naphthalene	69 U	370	69	1	08/27/25 20:34	8/26/25	
Phenanthrene	52 U	370	52	1	08/27/25 20:34	8/26/25	
Pyrene	61 U	370	61	1	08/27/25 20:34	8/26/25	
2,3,4,6-Tetrachlorophenol	130 U	370	130	1	08/27/25 20:34	8/26/25	
2,4,5-Trichlorophenol	91 U	370	91	1	08/27/25 20:34	8/26/25	
2,4,6-Trichlorophenol	82 U	370	82	1	08/27/25 20:34	8/26/25	
2,4-Dichlorophenol	71 U	370	71	1	08/27/25 20:34	8/26/25	
2,4-Dimethylphenol	66 U	370	66	1	08/27/25 20:34	8/26/25	
2,4-Dinitrophenol	630 U	1900	630	1	08/27/25 20:34	8/26/25	
2,4-Dinitrotoluene	150 U	370	150	1	08/27/25 20:34	8/26/25	
2,6-Dinitrotoluene	80 U	370	80	1	08/27/25 20:34	8/26/25	
2-Chloronaphthalene	74 U	370	74	1	08/27/25 20:34	8/26/25	
2-Chlorophenol	61 U	370	61	1	08/27/25 20:34	8/26/25	
2-Methylphenol	76 U	370	76	1	08/27/25 20:34	8/26/25	
2-Nitroaniline	87 U	1900	87	1	08/27/25 20:34	8/26/25	
2-Nitrophenol	85 U	370	85	1	08/27/25 20:34	8/26/25	
3,3'-Dichlorobenzidine	140 U	370	140	1	08/27/25 20:34	8/26/25	
3- and 4-Methylphenol Coelution	70 U	370	70	1	08/27/25 20:34	8/26/25	
3-Nitroaniline	74 U	1900	74	1	08/27/25 20:34	8/26/25	
4,6-Dinitro-2-methylphenol	210 U	1900	210	1	08/27/25 20:34	8/26/25	
4-Bromophenyl Phenyl Ether	97 U	370	97	1	08/27/25 20:34	8/26/25	
4-Chloro-3-methylphenol	74 U	370	74	1	08/27/25 20:34	8/26/25	
4-Chloroaniline	140 U	370	140	1	08/27/25 20:34	8/26/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Collected: 08/13/25 12:50
Date Received: 08/20/25 09:30

Sample Name: 6029 SB01 (1-2)
Lab Code: R2510175-001

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	79 U	370	79	1	08/27/25 20:34	8/26/25	
4-Nitroaniline	79 U	1900	79	1	08/27/25 20:34	8/26/25	
4-Nitrophenol	190 U	1900	190	1	08/27/25 20:34	8/26/25	
Acetophenone	110 U	370	110	1	08/27/25 20:34	8/26/25	
Atrazine	110 U	370	110	1	08/27/25 20:34	8/26/25	
Benzaldehyde	89 U	1900	89	1	08/27/25 20:34	8/26/25	
Benzoic Acid	580 U	1900	580	1	08/27/25 20:34	8/26/25	
Bis(1-chloroisopropyl) Ether	75 U	370	75	1	08/27/25 20:34	8/26/25	
Bis(2-chloroethoxy)methane	90 U	370	90	1	08/27/25 20:34	8/26/25	
Bis(2-chloroethyl) Ether	73 U	370	73	1	08/27/25 20:34	8/26/25	
Bis(2-ethylhexyl) Phthalate	67 U	560	67	1	08/27/25 20:34	8/26/25	
Butyl Benzyl Phthalate	110 U	370	110	1	08/27/25 20:34	8/26/25	
Caprolactam	81 U	370	81	1	08/27/25 20:34	8/26/25	
Carbazole	60 U	370	60	1	08/27/25 20:34	8/26/25	
Di-n-butyl Phthalate	60 U	370	60	1	08/27/25 20:34	8/26/25	
Di-n-octyl Phthalate	130 U	370	130	1	08/27/25 20:34	8/26/25	
Diethyl Phthalate	65 U	370	65	1	08/27/25 20:34	8/26/25	
Dimethyl Phthalate	70 U	370	70	1	08/27/25 20:34	8/26/25	
Hexachlorobenzene	88 U	370	88	1	08/27/25 20:34	8/26/25	
Hexachlorobutadiene	130 U	370	130	1	08/27/25 20:34	8/26/25	
Hexachlorocyclopentadiene	120 U	370	120	1	08/27/25 20:34	8/26/25	
Hexachloroethane	69 U	370	69	1	08/27/25 20:34	8/26/25	
Isophorone	77 U	370	77	1	08/27/25 20:34	8/26/25	
N-Nitrosodi-n-propylamine	120 U	370	120	1	08/27/25 20:34	8/26/25	
N-Nitrosodiphenylamine	230 U	370	230	1	08/27/25 20:34	8/26/25	
Nitrobenzene	66 U	370	66	1	08/27/25 20:34	8/26/25	
Pentachlorophenol (PCP)	370 U	1900	370	1	08/27/25 20:34	8/26/25	
Phenol	74 U	370	74	1	08/27/25 20:34	8/26/25	
Pyridine	50 U	1900	50	1	08/27/25 20:34	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	51	18 - 104	08/27/25 20:34	
Nitrobenzene-d5	53	12 - 98	08/27/25 20:34	
p-Terphenyl-d14	65	26 - 134	08/27/25 20:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Collected: 08/13/25 12:55
Date Received: 08/20/25 09:30

Sample Name: 6029 SB02 (3-4)
Lab Code: R2510175-002

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	85 U	380	85	1	08/27/25 20:57	8/26/25	
1-Methylnaphthalene	70 U	380	70	1	08/27/25 20:57	8/26/25	
2-Methylnaphthalene	140 U	380	140	1	08/27/25 20:57	8/26/25	
Acenaphthene	72 U	380	72	1	08/27/25 20:57	8/26/25	
Acenaphthylene	77 U	380	77	1	08/27/25 20:57	8/26/25	
Anthracene	64 U	380	64	1	08/27/25 20:57	8/26/25	
Benz(a)anthracene	57 U	380	57	1	08/27/25 20:57	8/26/25	
Benzo(a)pyrene	110 U	380	110	1	08/27/25 20:57	8/26/25	
Benzo(b)fluoranthene	64 U	380	64	1	08/27/25 20:57	8/26/25	
Benzo(g,h,i)perylene	88 U	380	88	1	08/27/25 20:57	8/26/25	
Benzo(k)fluoranthene	62 U	380	62	1	08/27/25 20:57	8/26/25	
1,4-Dichlorobenzene	64 U	380	64	1	08/27/25 20:57	8/26/25	
Biphenyl	120 U	380	120	1	08/27/25 20:57	8/26/25	
Chrysene	56 U	380	56	1	08/27/25 20:57	8/26/25	
Dibenz(a,h)anthracene	83 U	380	83	1	08/27/25 20:57	8/26/25	
1,4-Dioxane	37 U	77	37	1	08/27/25 20:57	8/26/25	
Dibenzofuran	70 U	380	70	1	08/27/25 20:57	8/26/25	
Fluoranthene	96 U	380	96	1	08/27/25 20:57	8/26/25	
Fluorene	71 U	380	71	1	08/27/25 20:57	8/26/25	
Indeno(1,2,3-cd)pyrene	130 U	380	130	1	08/27/25 20:57	8/26/25	
Naphthalene	71 U	380	71	1	08/27/25 20:57	8/26/25	
Phenanthrene	54 U	380	54	1	08/27/25 20:57	8/26/25	
Pyrene	64 U	380	64	1	08/27/25 20:57	8/26/25	
2,3,4,6-Tetrachlorophenol	140 U	380	140	1	08/27/25 20:57	8/26/25	
2,4,5-Trichlorophenol	94 U	380	94	1	08/27/25 20:57	8/26/25	
2,4,6-Trichlorophenol	85 U	380	85	1	08/27/25 20:57	8/26/25	
2,4-Dichlorophenol	73 U	380	73	1	08/27/25 20:57	8/26/25	
2,4-Dimethylphenol	68 U	380	68	1	08/27/25 20:57	8/26/25	
2,4-Dinitrophenol	650 U	2000	650	1	08/27/25 20:57	8/26/25	
2,4-Dinitrotoluene	150 U	380	150	1	08/27/25 20:57	8/26/25	
2,6-Dinitrotoluene	83 U	380	83	1	08/27/25 20:57	8/26/25	
2-Chloronaphthalene	76 U	380	76	1	08/27/25 20:57	8/26/25	
2-Chlorophenol	64 U	380	64	1	08/27/25 20:57	8/26/25	
2-Methylphenol	79 U	380	79	1	08/27/25 20:57	8/26/25	
2-Nitroaniline	90 U	2000	90	1	08/27/25 20:57	8/26/25	
2-Nitrophenol	88 U	380	88	1	08/27/25 20:57	8/26/25	
3,3'-Dichlorobenzidine	140 U	380	140	1	08/27/25 20:57	8/26/25	
3- and 4-Methylphenol Coelution	73 U	380	73	1	08/27/25 20:57	8/26/25	
3-Nitroaniline	77 U	2000	77	1	08/27/25 20:57	8/26/25	
4,6-Dinitro-2-methylphenol	220 U	2000	220	1	08/27/25 20:57	8/26/25	
4-Bromophenyl Phenyl Ether	100 U	380	100	1	08/27/25 20:57	8/26/25	
4-Chloro-3-methylphenol	77 U	380	77	1	08/27/25 20:57	8/26/25	
4-Chloroaniline	140 U	380	140	1	08/27/25 20:57	8/26/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Collected: 08/13/25 12:55
Date Received: 08/20/25 09:30

Sample Name: 6029 SB02 (3-4)
Lab Code: R2510175-002

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	81 U	380	81	1	08/27/25 20:57	8/26/25	
4-Nitroaniline	82 U	2000	82	1	08/27/25 20:57	8/26/25	
4-Nitrophenol	200 U	2000	200	1	08/27/25 20:57	8/26/25	
Acetophenone	110 U	380	110	1	08/27/25 20:57	8/26/25	
Atrazine	120 U	380	120	1	08/27/25 20:57	8/26/25	
Benzaldehyde	92 U	2000	92	1	08/27/25 20:57	8/26/25	
Benzoic Acid	600 U	2000	600	1	08/27/25 20:57	8/26/25	
Bis(1-chloroisopropyl) Ether	78 U	380	78	1	08/27/25 20:57	8/26/25	
Bis(2-chloroethoxy)methane	93 U	380	93	1	08/27/25 20:57	8/26/25	
Bis(2-chloroethyl) Ether	75 U	380	75	1	08/27/25 20:57	8/26/25	
Bis(2-ethylhexyl) Phthalate	70 U	580	70	1	08/27/25 20:57	8/26/25	
Butyl Benzyl Phthalate	120 U	380	120	1	08/27/25 20:57	8/26/25	
Caprolactam	84 U	380	84	1	08/27/25 20:57	8/26/25	
Carbazole	62 U	380	62	1	08/27/25 20:57	8/26/25	
Di-n-butyl Phthalate	62 U	380	62	1	08/27/25 20:57	8/26/25	
Di-n-octyl Phthalate	140 U	380	140	1	08/27/25 20:57	8/26/25	
Diethyl Phthalate	68 U	380	68	1	08/27/25 20:57	8/26/25	
Dimethyl Phthalate	73 U	380	73	1	08/27/25 20:57	8/26/25	
Hexachlorobenzene	92 U	380	92	1	08/27/25 20:57	8/26/25	
Hexachlorobutadiene	140 U	380	140	1	08/27/25 20:57	8/26/25	
Hexachlorocyclopentadiene	130 U	380	130	1	08/27/25 20:57	8/26/25	
Hexachloroethane	71 U	380	71	1	08/27/25 20:57	8/26/25	
Isophorone	80 U	380	80	1	08/27/25 20:57	8/26/25	
N-Nitrosodi-n-propylamine	120 U	380	120	1	08/27/25 20:57	8/26/25	
N-Nitrosodiphenylamine	240 U	380	240	1	08/27/25 20:57	8/26/25	
Nitrobenzene	68 U	380	68	1	08/27/25 20:57	8/26/25	
Pentachlorophenol (PCP)	380 U	2000	380	1	08/27/25 20:57	8/26/25	
Phenol	77 U	380	77	1	08/27/25 20:57	8/26/25	
Pyridine	51 U	2000	51	1	08/27/25 20:57	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	64	18 - 104	08/27/25 20:57	
Nitrobenzene-d5	65	12 - 98	08/27/25 20:57	
p-Terphenyl-d14	79	26 - 134	08/27/25 20:57	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Collected: 08/13/25 13:00
Date Received: 08/20/25 09:30

Sample Name: 6029 SB03 (5-6)
Lab Code: R2510175-003

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1-Methylnaphthalene	690 U	3800	690	10	08/27/25 21:21	8/26/25	
1,2,4,5-Tetrachlorobenzene	840 U	3800	840	10	08/27/25 21:21	8/26/25	
2-Methylnaphthalene	1400 U	3800	1400	10	08/27/25 21:21	8/26/25	
Acenaphthene	710 U	3800	710	10	08/27/25 21:21	8/26/25	
Acenaphthylene	760 U	3800	760	10	08/27/25 21:21	8/26/25	
Anthracene	630 U	3800	630	10	08/27/25 21:21	8/26/25	
Benz(a)anthracene	560 U	3800	560	10	08/27/25 21:21	8/26/25	
Benzo(a)pyrene	1000 U	3800	1000	10	08/27/25 21:21	8/26/25	
Benzo(b)fluoranthene	630 U	3800	630	10	08/27/25 21:21	8/26/25	
Benzo(g,h,i)perylene	860 U	3800	860	10	08/27/25 21:21	8/26/25	
Benzo(k)fluoranthene	610 U	3800	610	10	08/27/25 21:21	8/26/25	
1,4-Dichlorobenzene	630 U	3800	630	10	08/27/25 21:21	8/26/25	
Biphenyl	1200 U	3800	1200	10	08/27/25 21:21	8/26/25	
Chrysene	560 U	3800	560	10	08/27/25 21:21	8/26/25	
1,4-Dioxane	370 U	760	370	10	08/27/25 21:21	8/26/25	
Dibenz(a,h)anthracene	820 U	3800	820	10	08/27/25 21:21	8/26/25	
Dibenzofuran	690 U	3800	690	10	08/27/25 21:21	8/26/25	
Fluoranthene	940 U	3800	940	10	08/27/25 21:21	8/26/25	
Fluorene	710 U	3800	710	10	08/27/25 21:21	8/26/25	
Indeno(1,2,3-cd)pyrene	1300 U	3800	1300	10	08/27/25 21:21	8/26/25	
Naphthalene	710 U	3800	710	10	08/27/25 21:21	8/26/25	
Phenanthrene	530 U	3800	530	10	08/27/25 21:21	8/26/25	
Pyrene	630 U	3800	630	10	08/27/25 21:21	8/26/25	
2,3,4,6-Tetrachlorophenol	1400 U	3800	1400	10	08/27/25 21:21	8/26/25	
2,4,5-Trichlorophenol	930 U	3800	930	10	08/27/25 21:21	8/26/25	
2,4,6-Trichlorophenol	840 U	3800	840	10	08/27/25 21:21	8/26/25	
2,4-Dichlorophenol	730 U	3800	730	10	08/27/25 21:21	8/26/25	
2,4-Dimethylphenol	680 U	3800	680	10	08/27/25 21:21	8/26/25	
2,4-Dinitrophenol	6400 U	19000	6400	10	08/27/25 21:21	8/26/25	
2,4-Dinitrotoluene	1500 U	3800	1500	10	08/27/25 21:21	8/26/25	
2,6-Dinitrotoluene	820 U	3800	820	10	08/27/25 21:21	8/26/25	
2-Chloronaphthalene	750 U	3800	750	10	08/27/25 21:21	8/26/25	
2-Chlorophenol	630 U	3800	630	10	08/27/25 21:21	8/26/25	
2-Methylphenol	780 U	3800	780	10	08/27/25 21:21	8/26/25	
2-Nitroaniline	890 U	19000	890	10	08/27/25 21:21	8/26/25	
2-Nitrophenol	870 U	3800	870	10	08/27/25 21:21	8/26/25	
3,3'-Dichlorobenzidine	1400 U	3800	1400	10	08/27/25 21:21	8/26/25	
3- and 4-Methylphenol Coelution	720 U	3800	720	10	08/27/25 21:21	8/26/25	
3-Nitroaniline	760 U	19000	760	10	08/27/25 21:21	8/26/25	
4,6-Dinitro-2-methylphenol	2200 U	19000	2200	10	08/27/25 21:21	8/26/25	
4-Bromophenyl Phenyl Ether	990 U	3800	990	10	08/27/25 21:21	8/26/25	
4-Chloro-3-methylphenol	760 U	3800	760	10	08/27/25 21:21	8/26/25	
4-Chloroaniline	1400 U	3800	1400	10	08/27/25 21:21	8/26/25	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Collected: 08/13/25 13:00
Date Received: 08/20/25 09:30

Sample Name: 6029 SB03 (5-6)
Lab Code: R2510175-003

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	800 U	3800	800	10	08/27/25 21:21	8/26/25	
4-Nitroaniline	810 U	19000	810	10	08/27/25 21:21	8/26/25	
4-Nitrophenol	2000 U	19000	2000	10	08/27/25 21:21	8/26/25	
Acetophenone	1100 U	3800	1100	10	08/27/25 21:21	8/26/25	
Atrazine	1200 U	3800	1200	10	08/27/25 21:21	8/26/25	
Benzaldehyde	910 U	19000	910	10	08/27/25 21:21	8/26/25	
Benzoic Acid	5900 U	19000	5900	10	08/27/25 21:21	8/26/25	
Bis(1-chloroisopropyl) Ether	770 U	3800	770	10	08/27/25 21:21	8/26/25	
Bis(2-chloroethoxy)methane	920 U	3800	920	10	08/27/25 21:21	8/26/25	
Bis(2-chloroethyl) Ether	740 U	3800	740	10	08/27/25 21:21	8/26/25	
Bis(2-ethylhexyl) Phthalate	690 U	5700	690	10	08/27/25 21:21	8/26/25	
Butyl Benzyl Phthalate	1100 U	3800	1100	10	08/27/25 21:21	8/26/25	
Caprolactam	830 U	3800	830	10	08/27/25 21:21	8/26/25	
Carbazole	610 U	3800	610	10	08/27/25 21:21	8/26/25	
Di-n-butyl Phthalate	610 U	3800	610	10	08/27/25 21:21	8/26/25	
Di-n-octyl Phthalate	1400 U	3800	1400	10	08/27/25 21:21	8/26/25	
Diethyl Phthalate	670 U	3800	670	10	08/27/25 21:21	8/26/25	
Dimethyl Phthalate	720 U	3800	720	10	08/27/25 21:21	8/26/25	
Hexachlorobenzene	900 U	3800	900	10	08/27/25 21:21	8/26/25	
Hexachlorobutadiene	1400 U	3800	1400	10	08/27/25 21:21	8/26/25	
Hexachlorocyclopentadiene	1200 U	3800	1200	10	08/27/25 21:21	8/26/25	
Hexachloroethane	710 U	3800	710	10	08/27/25 21:21	8/26/25	
Isophorone	790 U	3800	790	10	08/27/25 21:21	8/26/25	
N-Nitrosodi-n-propylamine	1200 U	3800	1200	10	08/27/25 21:21	8/26/25	
N-Nitrosodiphenylamine	2400 U	3800	2400	10	08/27/25 21:21	8/26/25	
Nitrobenzene	670 U	3800	670	10	08/27/25 21:21	8/26/25	
Pentachlorophenol (PCP)	3800 U	19000	3800	10	08/27/25 21:21	8/26/25	
Phenol	760 U	3800	760	10	08/27/25 21:21	8/26/25	
Pyridine	510 U	19000	510	10	08/27/25 21:21	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	73	18 - 104	08/27/25 21:21	
Nitrobenzene-d5	73	12 - 98	08/27/25 21:21	
p-Terphenyl-d14	92	26 - 134	08/27/25 21:21	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Collected: 08/13/25 12:50
Date Received: 08/20/25 09:30

Sample Name: 6029 SB01 (1-2)
Lab Code: R2510175-001

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	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
4,4'-DDE	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
4,4'-DDT	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
Aldrin	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
Chlordane	4.8 U	9.3	4.8	1	09/11/25 22:25	8/26/25	
Dieldrin	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
Endosulfan I	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
Endosulfan II	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
Endosulfan Sulfate	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
Endrin	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
Endrin Aldehyde	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
Endrin Ketone	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
Heptachlor	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
Heptachlor Epoxide	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
Methoxychlor	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
Toxaphene	22 U	37	22	1	09/11/25 22:25	8/26/25	
alpha-BHC	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
alpha-Chlordane	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
beta-BHC	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
delta-BHC	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
gamma-BHC (Lindane)	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	
gamma-Chlordane	0.95 U	1.9	0.95	1	09/11/25 22:25	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	80	10 - 159	09/11/25 22:25	
Tetrachloro-m-xylene	56	10 - 132	09/11/25 22:25	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Collected: 08/13/25 12:55
Date Received: 08/20/25 09:30

Sample Name: 6029 SB02 (3-4)
Lab Code: R2510175-002

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	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
4,4'-DDE	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
4,4'-DDT	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
Aldrin	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
Chlordane	5.0 U	9.7	5.0	1	09/12/25 10:51	8/26/25	
Dieldrin	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
Endosulfan I	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
Endosulfan II	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
Endosulfan Sulfate	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
Endrin	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
Endrin Aldehyde	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
Endrin Ketone	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
Heptachlor	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
Heptachlor Epoxide	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
Methoxychlor	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
Toxaphene	23 U	39	23	1	09/12/25 10:51	8/26/25	
alpha-BHC	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
alpha-Chlordane	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
beta-BHC	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
delta-BHC	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
gamma-BHC (Lindane)	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	
gamma-Chlordane	0.99 U	2.0	0.99	1	09/12/25 10:51	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	70	10 - 159	09/12/25 10:51	
Tetrachloro-m-xylene	55	10 - 132	09/12/25 10:51	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Collected: 08/13/25 13:00
Date Received: 08/20/25 09:30

Sample Name: 6029 SB03 (5-6)
Lab Code: R2510175-003

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	15	1.9	0.95	1	09/12/25 11:09	8/26/25	
4,4'-DDE	56	1.9	0.95	1	09/12/25 11:09	8/26/25	
4,4'-DDT	18 P	1.9	0.95	1	09/12/25 11:09	8/26/25	
Aldrin	0.95 U	1.9	0.95	1	09/12/25 11:09	8/26/25	
Chlordane	4.8 U	9.4	4.8	1	09/12/25 11:09	8/26/25	
Dieldrin	0.95 U	1.9	0.95	1	09/12/25 11:09	8/26/25	
Endosulfan I	0.95 U	1.9	0.95	1	09/12/25 11:09	8/26/25	
Endosulfan II	0.95 U	1.9	0.95	1	09/12/25 11:09	8/26/25	
Endosulfan Sulfate	0.95 U	1.9	0.95	1	09/12/25 11:09	8/26/25	
Endrin	0.95 U	1.9	0.95	1	09/12/25 11:09	8/26/25	
Endrin Aldehyde	0.95 U	1.9	0.95	1	09/12/25 11:09	8/26/25	
Endrin Ketone	2.4	1.9	0.95	1	09/12/25 11:09	8/26/25	
Heptachlor	0.95 U	1.9	0.95	1	09/12/25 11:09	8/26/25	
Heptachlor Epoxide	0.95 U	1.9	0.95	1	09/12/25 11:09	8/26/25	
Methoxychlor	0.95 U	1.9	0.95	1	09/12/25 11:09	8/26/25	
Toxaphene	22 U	37	22	1	09/12/25 11:09	8/26/25	
alpha-BHC	0.95 U	1.9	0.95	1	09/12/25 11:09	8/26/25	
alpha-Chlordane	8.9 P	1.9	0.95	1	09/12/25 11:09	8/26/25	
beta-BHC	0.95 U	1.9	0.95	1	09/12/25 11:09	8/26/25	
delta-BHC	0.95 U	1.9	0.95	1	09/12/25 11:09	8/26/25	
gamma-BHC (Lindane)	0.95 U	1.9	0.95	1	09/12/25 11:09	8/26/25	
gamma-Chlordane	7.8 P	1.9	0.95	1	09/12/25 11:09	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	77	10 - 159	09/12/25 11:09	
Tetrachloro-m-xylene	49	10 - 132	09/12/25 11:09	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Collected: 08/13/25 12:50
Date Received: 08/20/25 09:30

Sample Name: 6029 SB01 (1-2)
Lab Code: R2510175-001

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	20 U	37	20	1	09/03/25 23:37	8/26/25	
Aroclor 1221	30 U	75	30	1	09/03/25 23:37	8/26/25	
Aroclor 1232	22 U	37	22	1	09/03/25 23:37	8/26/25	
Aroclor 1242	20 U	37	20	1	09/03/25 23:37	8/26/25	
Aroclor 1248	21 U	37	21	1	09/03/25 23:37	8/26/25	
Aroclor 1254	20 U	37	20	1	09/03/25 23:37	8/26/25	
Aroclor 1260	20 U	37	20	1	09/03/25 23:37	8/26/25	
Aroclor 1262	20 U	37	20	1	09/03/25 23:37	8/26/25	
Aroclor 1268	20 U	37	20	1	09/03/25 23:37	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	85	10 - 138	09/03/25 23:37	
Tetrachloro-m-xylene	54	11 - 122	09/03/25 23:37	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Collected: 08/13/25 12:55
Date Received: 08/20/25 09:30

Sample Name: 6029 SB02 (3-4)
Lab Code: R2510175-002

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	20 U	39	20	1	09/03/25 23:51	8/26/25	
Aroclor 1221	31 U	78	31	1	09/03/25 23:51	8/26/25	
Aroclor 1232	23 U	39	23	1	09/03/25 23:51	8/26/25	
Aroclor 1242	20 U	39	20	1	09/03/25 23:51	8/26/25	
Aroclor 1248	22 U	39	22	1	09/03/25 23:51	8/26/25	
Aroclor 1254	20 U	39	20	1	09/03/25 23:51	8/26/25	
Aroclor 1260	20 U	39	20	1	09/03/25 23:51	8/26/25	
Aroclor 1262	20 U	39	20	1	09/03/25 23:51	8/26/25	
Aroclor 1268	20 U	39	20	1	09/03/25 23:51	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	70	10 - 138	09/03/25 23:51	
Tetrachloro-m-xylene	51	11 - 122	09/03/25 23:51	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Collected: 08/13/25 13:00
Date Received: 08/20/25 09:30

Sample Name: 6029 SB03 (5-6)
Lab Code: R2510175-003

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	20 U	37	20	1	09/04/25 00:04	8/26/25	
Aroclor 1221	30 U	76	30	1	09/04/25 00:04	8/26/25	
Aroclor 1232	22 U	37	22	1	09/04/25 00:04	8/26/25	
Aroclor 1242	20 U	37	20	1	09/04/25 00:04	8/26/25	
Aroclor 1248	21 U	37	21	1	09/04/25 00:04	8/26/25	
Aroclor 1254	20 U	37	20	1	09/04/25 00:04	8/26/25	
Aroclor 1260	92	37	20	1	09/04/25 00:04	8/26/25	
Aroclor 1262	20 U	37	20	1	09/04/25 00:04	8/26/25	
Aroclor 1268	20 U	37	20	1	09/04/25 00:04	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	69	10 - 138	09/04/25 00:04	
Tetrachloro-m-xylene	53	11 - 122	09/04/25 00:04	

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Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Collected: 08/13/25 12:50
Date Received: 08/20/25 09:30

Sample Name: 6029 SB01 (1-2)
Lab Code: R2510175-001

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	5.6 U	11	5.6	1	08/29/25 05:51	8/26/25	
2,4,5-TP	5.0 U	11	5.0	1	08/29/25 05:51	8/26/25	
2,4-D	7.3 U	11	7.3	1	08/29/25 05:51	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	45	10 - 151	08/29/25 05:51	

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Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Collected: 08/13/25 12:55
Date Received: 08/20/25 09:30

Sample Name: 6029 SB02 (3-4)
Lab Code: R2510175-002

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	5.9 U	12	5.9	1	08/29/25 06:10	8/26/25	
2,4,5-TP	5.3 U	12	5.3	1	08/29/25 06:10	8/26/25	
2,4-D	7.7 U	12	7.7	1	08/29/25 06:10	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	36	10 - 151	08/29/25 06:10	

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Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Collected: 08/13/25 13:00
Date Received: 08/20/25 09:30

Sample Name: 6029 SB03 (5-6)
Lab Code: R2510175-003

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	5.7 U	11	5.7	1	08/29/25 06:28	8/26/25	
2,4,5-TP	5.1 U	11	5.1	1	08/29/25 06:28	8/26/25	
2,4-D	7.4 U	11	7.4	1	08/29/25 06:28	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	61	10 - 151	08/29/25 06:28	



General Chemistry

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Sample Name: 6029 SB01 (1-2)
Lab Code: R2510175-001

Service Request: R2510175
Date Collected: 08/13/25 12:50
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	88.9	Percent	-	-	1	08/29/25 10:00	

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Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Sample Name: 6029 SB02 (3-4)
Lab Code: R2510175-002

Service Request: R2510175
Date Collected: 08/13/25 12:55
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	85.2	Percent	-	-	1	08/29/25 10:00	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Sample Name: 6029 SB03 (5-6)
Lab Code: R2510175-003

Service Request: R2510175
Date Collected: 08/13/25 13:00
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	87.3	Percent	-	-	1	08/29/25 10:00	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175

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
6029 SB01 (1-2)	R2510175-001	51	53	65
6029 SB02 (3-4)	R2510175-002	64	65	79
6029 SB03 (5-6)	R2510175-003	73	73	92
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: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
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	
Benzo(k)fluoranthene	54 U	330	54	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	
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	
Dibenz(a,h)anthracene	72 U	330	72	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	
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: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
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	

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QA/QC Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
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 RQ2511335-02				Duplicate Lab Control Sample RQ2511335-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
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.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
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

Printed 11/21/2025 9:55:47 AM

Superset Reference:25-0000743208 rev 00

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
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

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175

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
6029 SB01 (1-2)	R2510175-001	80	56
6029 SB02 (3-4)	R2510175-002	70	55
6029 SB03 (5-6)	R2510175-003	77	49
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.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
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: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
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: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175

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
6029 SB01 (1-2)	R2510175-001	85	54
6029 SB02 (3-4)	R2510175-002	70	51
6029 SB03 (5-6)	R2510175-003	69	53
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: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
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: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
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: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA
		10 - 151
6029 SB01 (1-2)	R2510175-001	45
6029 SB02 (3-4)	R2510175-002	36
6029 SB03 (5-6)	R2510175-003	61
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: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
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: 6029 Iroquois
Sample Matrix: Soil

Service Request: R2510175
Date Analyzed: 08/29/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:Dry

Lab Control Sample					Duplicate Lab Control Sample					
RQ2511381-02					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



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: **HN2515179**

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: HN2515179
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: HN2515179

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2515179-001	6029 Iroquois	SOIL/SOLID	10/13/25 13:35	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: HN2515179
Date Collected: 10/13/25 13:35
Date Received: 10/14/25 07:00

CLIENT ID: 6029 Iroquois	Lab ID: HN2515179-001
---------------------------------	------------------------------

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Arsenic	EPA 6020B	<0.00190	U	mg/L	0.0499	1	10/17/25 20:39	10/17/25 10:28



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

Work Order: HN2515179
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
Arsenic	<0.00190	mg/L	0.0499							U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2281436-002
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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
Arsenic	1.02	mg/L	0.0499	1		102	80-120			

The following samples were analyzed in this batch: HN2515179-001

ANALYST SUMMARY



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

Work Order: HN2515179

Sample Name: 6029 Iroquois
Laboratory Code: HN2515179-001
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						Parameter/Method Request for Analysis					
Purchase Order		Project Name	6029 Iroquois						A	TCLP Arsenic			
Work Order	Quote ID - 11631	Project Number	DETR0060						B	TCLP Arsenic			
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group						C	TCLP			
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	Hold		
1	6029 Iroquois SB-3 (0'-6') Camp	10-13-25	1335	Soil	-	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 Boson <i>Eddie Boson</i>				☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour									
Relinquished by:		Date:	Time:	Received by:		Notes:							
Edmund Boson <i>Edmund Boson</i>		10-13-25	1453	Shannon Macromine <i>Shannon Macromine</i>									
Relinquished by:		Date:	Time:	Received by (Laboratory):		QC Package: (Check Box Below)							
Ryan Montri <i>Ryan Montri</i>		10-13-25	1547	QS + Brittany <i>Brittany</i>		☐ 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	0914			☐ 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						Cooler Temp. 127 3.7C							
						Other:							

Environmental Division
Holland
Work Order Reference
HN2515179

Telephone : +1 616 399 6070



ALS Holland Sample Receiving Checklist

Received by: Bullington
 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): 3.7/3.7
 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 0914
 Water – VOA vials have zero headspace? Yes / No / No Vials
 Water – pH acceptable upon receipt? Yes / No / N/A
 pH strip lot #: _____ < 2 _____ > 12 _____ Other _____
 pH adjusted (note adjustments below)? Yes / No / N/A
 pH adjusted by: _____
 Login Notes:



right solutions.
right partner.

November 07, 2025

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

Re: **DETR0060 - 6029 Iroquois**

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

Work Order: **HN2516063**

Dear Ryan,

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

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

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

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

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

Kathy Jones-Gronda

/S/ KATHY JONES-GRONDA

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 6029 Iroquois

Work Order: HN2516063
Date Received: 28-Oct-2025

CASE NARRATIVE

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

Sample Receipt

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

Organics

EPA 8270E-FULL HN-3546-S

Run ID: 3667671

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

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: 6029 Iroquois SB03 (5-6')-R

Lab ID: HN2516063-001

Analyte	Results	Flag	MRL	Units	Method
Percent Moisture	16.8		0.1	%	EPA 3550C

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 6029 Iroquois
Workorder: HN2516063

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2516063-001	6029 Iroquois SB03 (5-6')-R	SOIL/SOLID	10/27/25 12:16	10/28/25 06:00



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	6029 IROQUOIS				A	Pesticides (U.S. EPA Method 8081B (or Method 8081))			
Work Order		Project Number	DETR0060				B	Herbicides (U.S. EPA Method 8151A (or Method 8151))			
Company Name	The Mannik and Smith Group	Bill To Company	The Mannik and Smith Group				C	SVOCs (US EPA Method 8270D (or 8270))			
Send Report To	Ryan Montri	Invoice Attn.					D				
Address	2365 Haggerty Rd South Suite 100	Address	2365 Haggerty Rd South Suite 100				E				
							F				
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188				G				
Phone	734-397-3100	Phone	734-397-3100				H				
Fax		Fax					I				
e-Mail Address	RMontri@manniksmithgroup.com	e-Mail Address					J				

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	Hold
1	6029 IROQUOIS SB03(5-6')-R	10/27/25	1216	S	NA	1	X	X	X		
2											
3											
4											
5											
6											
7											
8											
9											
10											

Sampler(s): Please Print & Sign WILEY DAVENPORT		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☒ Other: 72 hours		Results Due Date:	
Relinquished by: WILEY DAVENPORT		Date: 10/27/25	Time: 1558	Received by: <i>[Signature]</i>		Notes: Quote# HN-061825-M&S-MA Q2 to BULLHORN H 10/28/25 0600	
Relinquished by: <i>[Signature]</i>		Date: 10/28/25	Time: 1558	Received by (Laboratory): <i>[Signature]</i>		QC Package: (Check Box Below)	
Logged by (Laboratory): BH		Date: 10/28/25	Time: 0848	Checked by (Laboratory):		Cooler Temp. 127 58c	Level II: Standard QC Level III: Std QC + Raw Data Level IV: SW846 CLP-Like Other:
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035							

Level II: Standard QC	TRRP-Checklist
Level III: Std QC + Raw Data	TRRP Level IV
Level IV: SW846 CLP-Like	
Other:	

Environmental Division
Holland
Work Order Reference
HN2516063

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: Bultman H

Date/Time: 10/28/25 0600

Carrier Name: QS

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

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

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

Chain of Custody present? Yes / No

COC signed when relinquished and received? Yes / No

COC agrees with sample labels? Yes / No

Samples in proper container/bottle? Yes / No

Sample containers intact? Yes / No

Sufficient sample volume for indicated test? Yes / No

All samples received within holding time? Yes / No

Container/Temp Blank temperature in compliance? Yes / No

Temperature(s) (°C): 58/5.8

Thermometer(s): 127

Sample(s) received on ice? Yes / No

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 10/28/25 0848

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

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

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

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

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

pH adjusted by: _____

Login Notes:

REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

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

¹ - Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 6029 Iroquois

Work Order: HN2516063

Sample Name: 6029 Iroquois SB03 (5-6')-R
Laboratory Code: HN2516063-001
Sample Matrix: SOIL/SOLID

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

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AA	2302720		3631423	Nicole Maleski
EPA 8081B	EPA 3546	001-AA	2305050	Mya Harmer	3641348	Madison VandenBer
EPA 8151A	Method	001-AA	2309163	Sam Bruzan	3642247	Kathy Malmyga
EPA 8270E	EPA 3546	001-AA	2319451	Willow Julien	3667671	Sam Bruzan

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 6029 Iroquois
Matrix: SOIL/SOLID

Work Order: HN2516063
Date Collected: 10/27/25 12:16
Date Received: 10/28/25 06:00

CLIENT ID: 6029 Iroquois SB03 (5-6')-R

Lab ID: HN2516063-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<2.63	U	µg/kg	14.3	1	10/30/25 18:45	10/29/25 10:50
2,4,5-TP (Silvex)	EPA 8151A	<4.68	U	µg/kg	14.3	1	10/30/25 18:45	10/29/25 10:50
2,4-D	EPA 8151A	<7.62	U	µg/kg	28.6	1	10/30/25 18:45	10/29/25 10:50
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	42.0		%REC	10-116	1	10/30/25 18:45	10/29/25 10:50
General Chemistry Parameters								
Percent Moisture	EPA 3550C	16.8		%	0.1	1	10/28/25 11:36	NA
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<18.6	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
4,4'-DDE	EPA 8081B	<19.1	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
4,4'-DDT	EPA 8081B	<19.3	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
Aldrin	EPA 8081B	<18.9	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
alpha-BHC	EPA 8081B	<19.1	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
beta-BHC	EPA 8081B	<19.1	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
Chlordane, Technical	EPA 8081B	<28.8	U	µg/kg	72.6	1	10/29/25 23:37	10/29/25 11:36
cis-Chlordane	EPA 8081B	<19.4	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
delta-BHC	EPA 8081B	<19.0	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
Dieldrin	EPA 8081B	<20.3	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
Endosulfan I	EPA 8081B	<19.5	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
Endosulfan II	EPA 8081B	<19.2	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
Endosulfan sulfate	EPA 8081B	<17.9	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
Endrin	EPA 8081B	<23.5	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
Endrin aldehyde	EPA 8081B	<18.4	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
Endrin ketone	EPA 8081B	<17.7	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
gamma-BHC (Lindane)	EPA 8081B	<19.1	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
Heptachlor	EPA 8081B	<18.7	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
Heptachlor epoxide	EPA 8081B	<19.2	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
Methoxychlor	EPA 8081B	<19.4	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36
Toxaphene	EPA 8081B	<31.4	U	µg/kg	174	1	10/29/25 23:37	10/29/25 11:36
trans-Chlordane	EPA 8081B	<19.3	U	µg/kg	29.0	1	10/29/25 23:37	10/29/25 11:36

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 6029 Iroquois
Matrix: SOIL/SOLID

Work Order: HN2516063
Date Collected: 10/27/25 12:16
Date Received: 10/28/25 06:00

CLIENT ID: 6029 Iroquois SB03 (5-6')-R

Lab ID: HN2516063-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
<i>Surr: Decachlorobiphenyl</i>	EPA 8081B	104		%REC	53-151	1	10/29/25 23:37	10/29/25 11:36
<i>Surr: Tetrachloro-m-xylene</i>	EPA 8081B	88.8		%REC	67-127	1	10/29/25 23:37	10/29/25 11:36

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<14.9	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<21.1	U	µg/kg	916	1	11/06/25 19:40	11/05/25 12:25
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<65.7	U	µg/kg	458	1	11/06/25 19:40	11/05/25 12:25
1-Methylnaphthalene	EPA 8270E	<13.2	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	<21.5	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
2,3,4,6-Tetrachlorophenol	EPA 8270E	<67.1	U	µg/kg	183	1	11/06/25 19:40	11/05/25 12:25
2,4,5-Trichlorophenol	EPA 8270E	<54.3	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
2,4,6-Trichlorophenol	EPA 8270E	<24.4	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
2,4-Dichlorophenol	EPA 8270E	<49.3	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
2,4-Dimethylphenol	EPA 8270E	<47.1	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
2,4-Dinitrophenol	EPA 8270E	<670	U	µg/kg	916	1	11/06/25 19:40	11/05/25 12:25
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<59.5	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<23.4	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
2-Chloronaphthalene	EPA 8270E	<12.8	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
2-Chlorophenol	EPA 8270E	<60.0	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<76.6	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
2-Methylnaphthalene	EPA 8270E	<9.32	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
2-Methylphenol (o-Cresol)	EPA 8270E	<24.8	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
2-Nitroaniline	EPA 8270E	<50.9	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
2-Nitrophenol	EPA 8270E	<26.1	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
3&4-Methylphenol	EPA 8270E	<50.0	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
3,3'-Dichlorobenzidine	EPA 8270E	<42.8	U	µg/kg	458	1	11/06/25 19:40	11/05/25 12:25
3-Nitroaniline	EPA 8270E	<53.2	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<50.2	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 6029 Iroquois
Matrix: SOIL/SOLID

Work Order: HN2516063
Date Collected: 10/27/25 12:16
Date Received: 10/28/25 06:00

CLIENT ID: 6029 Iroquois SB03 (5-6')-R

Lab ID: HN2516063-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
4-Chloro-3-methylphenol	EPA 8270E	<26.1	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
4-Chloroaniline	EPA 8270E	<46.6	U	µg/kg	183	1	11/06/25 19:40	11/05/25 12:25
4-Chlorophenyl phenylether	EPA 8270E	<25.3	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
4-Nitroaniline	EPA 8270E	<142	U	µg/kg	458	1	11/06/25 19:40	11/05/25 12:25
4-Nitrophenol	EPA 8270E	<215	U	µg/kg	916	1	11/06/25 19:40	11/05/25 12:25
Acenaphthene	EPA 8270E	<13.3	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
Acenaphthylene	EPA 8270E	<15.9	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
Acetophenone	EPA 8270E	<14.4	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Anthracene	EPA 8270E	<12.9	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
Atrazine	EPA 8270E	<53.7	SU	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Benzaldehyde	EPA 8270E	<141	U	µg/kg	183	1	11/06/25 19:40	11/05/25 12:25
Benzo(a)anthracene	EPA 8270E	<15.8	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
Benzo(a)pyrene	EPA 8270E	<11.2	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
Benzo(b)fluoranthene	EPA 8270E	<13.7	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
Benzo(g,h,i)perylene	EPA 8270E	<14.1	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
Benzo(k)fluoranthene	EPA 8270E	<13.9	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
bis(2-Chloroethoxy) methane	EPA 8270E	<58.1	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
bis(2-Chloroethyl) ether	EPA 8270E	<26.0	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Butyl benzyl phthalate	EPA 8270E	<115	U	µg/kg	183	1	11/06/25 19:40	11/05/25 12:25
Caprolactam	EPA 8270E	<82.7	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Carbazole	EPA 8270E	<27.0	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Chrysene	EPA 8270E	<14.8	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	<75.8	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Dibenz(a,h) anthracene	EPA 8270E	<9.90	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Dibenzofuran	EPA 8270E	<13.5	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Diethyl phthalate	EPA 8270E	<31.2	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Dimethyl phthalate	EPA 8270E	<17.9	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Fluoranthene	EPA 8270E	<8.80	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
Fluorene	EPA 8270E	<13.3	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
Hexachlorobenzene	EPA 8270E	<26.7	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 6029 Iroquois
Matrix: SOIL/SOLID

Work Order: HN2516063
Date Collected: 10/27/25 12:16
Date Received: 10/28/25 06:00

CLIENT ID: 6029 Iroquois SB03 (5-6')-R

Lab ID: HN2516063-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Hexachlorobutadiene	EPA 8270E	<21.6	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Hexachlorocyclopentadiene	EPA 8270E	<86.9	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Hexachloroethane	EPA 8270E	<38.0	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Indeno(1,2,3-cd) pyrene	EPA 8270E	<12.8	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
Isophorone	EPA 8270E	<17.9	U	µg/kg	458	1	11/06/25 19:40	11/05/25 12:25
Methylphenol, Total	EPA 8270E	<24.8	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Naphthalene	EPA 8270E	<11.7	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
Nitrobenzene	EPA 8270E	<30.8	U	µg/kg	458	1	11/06/25 19:40	11/05/25 12:25
n-Nitrosodi-n-propylamine	EPA 8270E	<15.1	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
N-Nitrosodiphenylamine	EPA 8270E	<53.1	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Pentachlorophenol	EPA 8270E	<72.8	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Phenanthrene	EPA 8270E	<8.53	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
Phenol	EPA 8270E	<46.0	U	µg/kg	90.8	1	11/06/25 19:40	11/05/25 12:25
Pyrene	EPA 8270E	<9.15	U	µg/kg	18.3	1	11/06/25 19:40	11/05/25 12:25
Pyridine	EPA 8270E	<180	U	µg/kg	458	1	11/06/25 19:40	11/05/25 12:25
Surr: 2,4,6-Tribromophenol	EPA 8270E	62.3		%REC	48-94	1	11/06/25 19:40	11/05/25 12:25
Surr: 2-Fluorobiphenyl	EPA 8270E	65.2		%REC	50-103	1	11/06/25 19:40	11/05/25 12:25
Surr: 2-Fluorophenol	EPA 8270E	69.8		%REC	43-105	1	11/06/25 19:40	11/05/25 12:25
Surr: 4-Terphenyl-d14	EPA 8270E	65.9		%REC	55-111	1	11/06/25 19:40	11/05/25 12:25
Surr: Nitrobenzene-d5	EPA 8270E	58.7		%REC	47-100	1	11/06/25 19:40	11/05/25 12:25
Surr: Phenol-d6	EPA 8270E	66.7		%REC	49-110	1	11/06/25 19:40	11/05/25 12:25



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 6029 Iroquois
Matrix: SOIL/SOLID
QC Lot: 2309163

Work Order: HN2516063
Date Collected: NA
Date Received: NA
Run ID: 3642247

Chlorinated Herbicides by GC/ECD

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2309163-002
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 10/30/25 16:49
Prep Date: 10/29/25 10:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	30.0	µg/kg	5.00	50		60.0	10-119			
2,4,5-TP (Silvex)	29.0	µg/kg	5.00	50		58.0	10-101			
2,4-D	26.0	µg/kg	10.0	50		52.0	10-128			
Surr: DCAA	27.0	µg/kg		50		54.0	10-116			

MB	CLIENT ID: Method Blank	Lab ID: QC-MRG2-2309163001
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 10/30/25 16:36
Prep Date: 10/29/25 10:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	<0.920	µg/kg	5.00	0		NC	0-0			U
2,4,5-TP (Silvex)	<1.64	µg/kg	5.00	0		NC	0-0			U
2,4-D	<2.67	µg/kg	10.0	0		NC	0-0			U
Surr: DCAA	30.0	µg/kg		50		60.0	10-116			

The following samples were analyzed in this batch: HN2516063-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 6029 Iroquois
Matrix: SOIL/SOLID
QC Lot: 2302720

Work Order: HN2516063
Date Collected: NA
Date Received: NA
Run ID: 3631423

General Chemistry Parameters

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

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	<0.1	%	0.1	0		NC	0-0			U

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

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

The following samples were analyzed in this batch: HN2516063-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 6029 Iroquois
Matrix: SOIL/SOLID
QC Lot: 2305050

Work Order: HN2516063
Date Collected: NA
Date Received: NA
Run ID: 3641348

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2305050-001
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Method: EPA 8081B

Dilution: 1

Analysis Date: 10/29/25 23:02

Prep Date: 10/29/25 11:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	<6.39	µg/kg	10.0	0		NC	0-0			U
4,4'-DDE	<6.59	µg/kg	10.0	0		NC	0-0			U
4,4'-DDT	<6.65	µg/kg	10.0	0		NC	0-0			U
Aldrin	<6.50	µg/kg	10.0	0		NC	0-0			U
alpha-BHC	<6.58	µg/kg	10.0	0		NC	0-0			U
beta-BHC	<6.57	µg/kg	10.0	0		NC	0-0			U
Chlordane, Technical	<9.92	µg/kg	25.0	0		NC	0-0			U
cis-Chlordane	<6.68	µg/kg	10.0	0		NC	0-0			U
delta-BHC	<6.55	µg/kg	10.0	0		NC	0-0			U
Dieldrin	<6.99	µg/kg	10.0	0		NC	0-0			U
Endosulfan I	<6.72	µg/kg	10.0	0		NC	0-0			U
Endosulfan II	<6.62	µg/kg	10.0	0		NC	0-0			U
Endosulfan sulfate	<6.15	µg/kg	10.0	0		NC	0-0			U
Endrin	<8.09	µg/kg	10.0	0		NC	0-0			U
Endrin aldehyde	<6.34	µg/kg	10.0	0		NC	0-0			U
Endrin ketone	<6.08	µg/kg	10.0	0		NC	0-0			U
gamma-BHC (Lindane)	<6.56	µg/kg	10.0	0		NC	0-0			U
Heptachlor	<6.45	µg/kg	10.0	0		NC	0-0			U
Heptachlor epoxide	<6.62	µg/kg	10.0	0		NC	0-0			U
Methoxychlor	<6.69	µg/kg	10.0	0		NC	0-0			U
Toxaphene	<10.8	µg/kg	60.0	0		NC	0-0			U
trans-Chlordane	<6.64	µg/kg	10.0	0		NC	0-0			U
Surr: Decachlorobiphenyl	35.8	µg/kg		33.33		107	53-151			
Surr: Tetrachloro-m-xylene	28.7	µg/kg		33.33		86.2	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2305050-002
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Method: EPA 8081B

Dilution: 1

Analysis Date: 10/29/25 23:14

Prep Date: 10/29/25 11:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	27.5	µg/kg	10.0	33.33		82.6	55-141			
4,4'-DDE	29.8	µg/kg	10.0	33.33		89.5	55-143			
4,4'-DDT	34.7	µg/kg	10.0	33.33		104	50-144			
Aldrin	30.6	µg/kg	10.0	33.33		91.7	57-141			
alpha-BHC	30.4	µg/kg	10.0	33.33		91.2	58-144			
beta-BHC	30.4	µg/kg	10.0	33.33		91.2	55-147			
cis-Chlordane	30.0	µg/kg	10.0	33.33		90.2	58-142			
delta-BHC	24.8	µg/kg	10.0	33.33		74.4	59-142			
Dieldrin	30.7	µg/kg	10.0	33.33		92.1	59-142			
Endosulfan I	29.2	µg/kg	10.0	33.33		87.8	57-145			
Endosulfan II	29.2	µg/kg	10.0	33.33		87.8	58-138			
Endosulfan sulfate	28.3	µg/kg	10.0	33.33		85.0	54-136			
Endrin	34.8	µg/kg	10.0	33.33		104	45-150			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 6029 Iroquois
Matrix: SOIL/SOLID
QC Lot: 2305050

Work Order: HN2516063
Date Collected: NA
Date Received: NA
Run ID: 3641348

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2305050-002			
Method: EPA 8081B		Dilution: 1		Analysis Date: 10/29/25 23:14		Prep Date: 10/29/25 11:37			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Endrin aldehyde	36.8	µg/kg	10.0	33.33		111	41-147		
Endrin ketone	27.6	µg/kg	10.0	33.33		82.7	54-146		
gamma-BHC (Lindane)	30.6	µg/kg	10.0	33.33		91.9	58-145		
Heptachlor	31.8	µg/kg	10.0	33.33		95.3	51-145		
Heptachlor epoxide	30.7	µg/kg	10.0	33.33		92.1	59-143		
Methoxychlor	33.4	µg/kg	10.0	33.33		100	43-144		
trans-Chlordane	30.0	µg/kg	10.0	33.33		90.0	56-145		
Surr: Decachlorobiphenyl	29.8	µg/kg		33.33		89.3	51-151		
Surr: Tetrachloro-m-xylene	25.8	µg/kg		33.33		77.4	67-127		

The following samples were analyzed in this batch: HN2516063-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 6029 Iroquois
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516063
Date Collected: NA
Date Received: NA
Run ID: 3667671

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2319451-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 12:42

Prep Date: 11/05/25 12:26

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



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 6029 Iroquois
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516063
Date Collected: NA
Date Received: NA
Run ID: 3667671

MB	CLIENT ID: Method Blank	Lab ID: QC-2319451-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 12:42

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Butyl benzyl phthalate	<41.7	µg/kg	67.0	0		NC	0-0			U
Caprolactam	<30.1	µg/kg	33.0	0		NC	0-0			U
Carbazole	<9.82	µg/kg	33.0	0		NC	0-0			U
Chrysene	<5.39	µg/kg	6.67	0		NC	0-0			U
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	<27.6	µg/kg	33.0	0		NC	0-0			U
Dibenz(a,h) anthracene	<3.60	µg/kg	33.0	0		NC	0-0			U
Dibenzofuran	<4.90	µg/kg	33.0	0		NC	0-0			U
Diethyl phthalate	<11.3	µg/kg	33.0	0		NC	0-0			U
Dimethyl phthalate	<6.50	µg/kg	33.0	0		NC	0-0			U
Fluoranthene	<3.20	µg/kg	6.67	0		NC	0-0			U
Fluorene	<4.84	µg/kg	6.67	0		NC	0-0			U
Hexachlorobenzene	<9.70	µg/kg	33.0	0		NC	0-0			U
Hexachlorobutadiene	<7.85	µg/kg	33.0	0		NC	0-0			U
Hexachlorocyclopentadiene	<31.6	µg/kg	33.0	0		NC	0-0			U
Hexachloroethane	<13.8	µg/kg	33.0	0		NC	0-0			U
Indeno(1,2,3-cd) pyrene	<4.64	µg/kg	6.67	0		NC	0-0			U
Isophorone	<6.51	µg/kg	167	0		NC	0-0			U
Methylphenol, Total	<9.01	µg/kg	67.0	0		NC	0-0			U
Naphthalene	<4.26	µg/kg	6.67	0		NC	0-0			U
Nitrobenzene	<11.2	µg/kg	167	0		NC	0-0			U
n-Nitrosodi-n-propylamine	<5.50	µg/kg	33.0	0		NC	0-0			U
N-Nitrosodiphenylamine	<19.3	µg/kg	33.0	0		NC	0-0			U
Pentachlorophenol	<26.5	µg/kg	33.0	0		NC	0-0			U
Phenanthrene	<3.10	µg/kg	6.67	0		NC	0-0			U
Phenol	<16.7	µg/kg	33.0	0		NC	0-0			U
Pyrene	<3.33	µg/kg	6.67	0		NC	0-0			U
Pyridine	<65.6	µg/kg	167	0		NC	0-0			U
Surr: 2,4,6-Tribromophenol	2410	µg/kg		3333		72.4	48-94			
Surr: 2-Fluorobiphenyl	2480	µg/kg		3333		74.4	50-103			
Surr: 2-Fluorophenol	2600	µg/kg		3333		77.9	43-105			
Surr: 4-Terphenyl-d14	2530	µg/kg		3333		76.0	55-111			
Surr: Nitrobenzene-d5	2160	µg/kg		3333		64.7	47-100			
Surr: Phenol-d6	2500	µg/kg		3333		74.9	49-110			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2319451-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 13:03

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	981	µg/kg	33.0	1333		73.6	57-101			
1,2,4,5-Tetrachlorobenzene	971	µg/kg	333	1333		72.8	54-98			
1-Methylnaphthalene	971	µg/kg	6.67	1333		72.8	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	948	µg/kg	33.0	1333		71.1	50-101			
2,3,4,6-Tetrachlorophenol	1070	µg/kg	67.0	1333		80.1	48-103			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 6029 Iroquois
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516063
Date Collected: NA
Date Received: NA
Run ID: 3667671

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2319451-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 13:03

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1010	µg/kg	33.0	1333		75.9	54-98			
2,4,6-Trichlorophenol	988	µg/kg	33.0	1333		74.1	56-97			
2,4-Dichlorophenol	929	µg/kg	33.0	1333		69.7	54-99			
2,4-Dimethylphenol	1010	µg/kg	33.0	1333		76.0	47-102			
2,4-Dinitrophenol	850	µg/kg	333	1333		63.8	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1020	µg/kg	33.0	1333		76.8	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1010	µg/kg	33.0	1333		75.4	62-103			
2-Chloronaphthalene	957	µg/kg	6.67	1333		71.8	57-101			
2-Chlorophenol	973	µg/kg	33.0	1333		73.0	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	967	µg/kg	33.0	1333		72.5	42-104			
2-Methylnaphthalene	955	µg/kg	6.67	1333		71.6	55-102			
2-Methylphenol (o-Cresol)	994	µg/kg	33.0	1333		74.6	54-103			
2-Nitroaniline	963	µg/kg	33.0	1333		72.2	57-103			
2-Nitrophenol	976	µg/kg	33.0	1333		73.2	52-102			
3&4-Methylphenol	960	µg/kg	33.0	1333		72.0	56-103			
3,3'-Dichlorobenzidine	773	µg/kg	167	1333		58.0	41-91			
3-Nitroaniline	737	µg/kg	33.0	1333		55.3	35-107			
4-Bromophenyl phenyl ether (BDE-3)	987	µg/kg	33.0	1333		74.0	63-104			
4-Chloro-3-methylphenol	986	µg/kg	33.0	1333		74.0	57-103			
4-Chloroaniline	1000	µg/kg	67.0	1333		75.0	32-99			
4-Chlorophenyl phenylether	1010	µg/kg	33.0	1333		75.7	62-100			
4-Nitroaniline	689	µg/kg	167	1333		51.7	19-124			
4-Nitrophenol	1030	µg/kg	333	1333		77.0	44-106			
Acenaphthene	972	µg/kg	6.67	1333		72.9	60-101			
Acenaphthylene	999	µg/kg	6.67	1333		75.0	59-101			
Acetophenone	948	µg/kg	33.0	1333		71.1	54-102			
Anthracene	997	µg/kg	6.67	1333		74.8	63-96			
Atrazine	1890	µg/kg	33.0	1333		142	60-110			S
Benzaldehyde	371	µg/kg	67.0	1333		27.8	10-143			
Benzo(a)anthracene	1030	µg/kg	6.67	1333		77.3	66-102			
Benzo(a)pyrene	1040	µg/kg	6.67	1333		78.3	66-105			
Benzo(b)fluoranthene	1030	µg/kg	6.67	1333		77.5	67-105			
Benzo(g,h,i)perylene	1030	µg/kg	6.67	1333		77.2	59-110			
Benzo(k)fluoranthene	1040	µg/kg	6.67	1333		78.0	68-106			
bis(2-Chloroethoxy)methane	948	µg/kg	33.0	1333		71.1	54-102			
bis(2-Chloroethyl) ether	953	µg/kg	33.0	1333		71.5	51-101			
Butyl benzyl phthalate	1010	µg/kg	67.0	1333		75.5	59-107			
Caprolactam	921	µg/kg	33.0	1333		69.1	49-103			
Carbazole	989	µg/kg	33.0	1333		74.2	63-103			
Chrysene	1000	µg/kg	6.67	1333		75.2	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1030	µg/kg	33.0	1333		77.6	63-101			
Dibenz(a,h) anthracene	1040	µg/kg	33.0	1333		78.2	61-109			
Dibenzofuran	1000	µg/kg	33.0	1333		75.0	61-101			
Diethyl phthalate	1010	µg/kg	33.0	1333		75.7	63-105			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 6029 Iroquois
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516063
Date Collected: NA
Date Received: NA
Run ID: 3667671

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2319451-002			
Method: EPA 8270E		Dilution: 1		Analysis Date: 11/06/25 13:03		Prep Date: 11/05/25 12:26			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Dimethyl phthalate	1000	µg/kg	33.0	1333		75.0	64-104		
Fluoranthene	1010	µg/kg	6.67	1333		75.7	66-105		
Fluorene	1000	µg/kg	6.67	1333		75.1	62-101		
Hexachlorobenzene	989	µg/kg	33.0	1333		74.2	61-104		
Hexachlorobutadiene	972	µg/kg	33.0	1333		72.9	52-99		
Hexachlorocyclopentadiene	800	µg/kg	33.0	1333		60.0	39-106		
Hexachloroethane	981	µg/kg	33.0	1333		73.6	59-99		
Indeno(1,2,3-cd) pyrene	1150	µg/kg	6.67	1333		86.0	57-114		
Isophorone	942	µg/kg	167	1333		70.7	55-101		
Methylphenol, Total	1950	µg/kg	67.0	2667		73.3	54-103		
Naphthalene	974	µg/kg	6.67	1333		73.1	54-99		
Nitrobenzene	925	µg/kg	167	1333		69.4	53-100		
n-Nitrosodi-n-propylamine	955	µg/kg	33.0	1333		71.6	52-104		
N-Nitrosodiphenylamine	981	µg/kg	33.0	1333		73.6	61-104		
Pentachlorophenol	993	µg/kg	33.0	1333		74.5	35-100		
Phenanthrene	998	µg/kg	6.67	1333		74.9	64-101		
Phenol	922	µg/kg	33.0	1333		69.2	51-107		
Pyrene	1040	µg/kg	6.67	1333		77.7	62-114		
Pyridine	797	µg/kg	167	1333		59.8	40-84		
Surr: 2,4,6-Tribromophenol	2480	µg/kg		3333		74.4	48-94		
Surr: 2-Fluorobiphenyl	2320	µg/kg		3333		69.7	50-103		
Surr: 2-Fluorophenol	2330	µg/kg		3333		69.8	43-105		
Surr: 4-Terphenyl-d14	2410	µg/kg		3333		72.2	55-111		
Surr: Nitrobenzene-d5	2120	µg/kg		3333		63.7	47-100		
Surr: Phenol-d6	2300	µg/kg		3333		69.1	49-110		

The following samples were analyzed in this batch: HN2516063-001