

DRAFT

FILL MATERIAL SAMPLING REPORT

**11748 SAINT PATRICK AVENUE
DETROIT, WAYNE COUNTY, MICHIGAN 48205**



**OCTOBER 24, 2025
REVISED DECEMBER 12, 2025**

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



FILL MATERIAL SAMPLING REPORT

**11748 SAINT PATRICK AVENUE
DETROIT, WAYNE COUNTY, MICHIGAN 48205**

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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 11748 Saint Patrick 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 11748 SB01, 11748 SB02, and 11748 SB03 generally consisted of gray and brown silty clay to six feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores ranged from 0.0 to 0.2 parts per million (ppm). There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities, however, concrete, asphalt, and/or brick debris were observed in 11748 SB01 and 11748 SB03.
- Concentrations of arsenic and total chromium were detected in soil samples 11748 SB01 (1-2') and/or 11748 SB03 (5-6') in excess of their respective Part 201 drinking water protection criteria (DWPC), groundwater surface water interface protection criteria (GSIPC), and/or direct contact criteria (DCC).
- Concentrations of 4,4-DDE, 4,4-DDT, barium, chlordane, chloride, copper, lead, mercury, and zinc were detected in soil samples 11748 SB01 (1-2'), 11748 SB02 (3-4'), and 11748 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 and chromium were not in excess of 40 C.F.R. § 261.24 Title 40 - *Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste*.
- VOCs, SVOCs, and PCBs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration, therefore,

the groundwater surface water exposure pathway can be considered not applicable. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

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

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

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 11748 Saint Patrick 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. The findings of this report are valid as of the report date, subject to the limitations presented in *Appendix A, Limitations*.

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

2.0 PURPOSE AND SCOPE OF WORK

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

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

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

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

3.0 SITE ASSESSMENT METHODOLOGY

The following subsections describe the methodologies employed by MSG at the Site during sampling activities that were conducted on August 13, 2025 and October 9, 2025. Daily field activity reports prepared by MSG are presented in *Appendix B, Daily Field Reports*.

3.1 Preliminary Site Work Activities

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

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

3.2 Soil Sample Collection

The sampling plan for the Site was based on the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and modified in the field (if necessary) based on encountered conditions and professional judgment of MSG's field personnel. MSG advanced three (3) soil borings, designated 11748 SB01, 11748 SB02, and 11748 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 9, 2025, MSG mobilized to the Site to collect an additional soil sample based on request from the COD. Sample location and analyte(s) were based on the laboratory results of the initial soil investigation. MSG personnel advanced one soil boring in the immediate vicinity of the soil boring location that exhibited the highest laboratory result(s) in excess of Part 201 GRCC. Soils were continuously profiled from the ground surface to the termination depth of six feet bgs using a direct push drill rig. These soils were homogenized in a stainless-steel bowl (or equivalent) to produce a single, composite soil sample. The composite soil sample was placed into unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses.

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

3.4 Decontamination

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

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

3.5 Analytical Methods

A total of three (3) soil samples, designated 11748 SB01 (1-2'), 11748 SB02 (3-4'), and 11748 SB03 (5-6'), and one (1) composite soil sample designated 11748 St Patrick SB03 TCLP were collected as part of this investigation. These soil samples were submitted to ALS Environmental Laboratory (ALS) in Holland, Michigan for laboratory analysis of the following parameters per the requested parameters as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and individual TCLP analysis:

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

3.6 Quality Assurance/Quality Control

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

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

4.0 SUMMARY OF RESULTS

The following subsections include a discussion of the soil samples that were collected from the Site on August 13, 2025 and October 9, 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 11748 SB01, 11748 SB02, and 11748 SB03 generally consisted of gray and brown silty clay to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 0.2 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities, however, concrete, asphalt, and/or brick debris were observed in 11748 SB01 and 11748 SB03.

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

4.2 Soil Sample Analytical Results

Three (3) soil samples, designated 11748 SB01 (1-2'), 11748 SB02 (3-4'), and 11748 SB03 (5-6'), were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration (µg/kg ¹)	Maximum Detected Concentration (µg/kg)
Arsenic	7440-38-2	11748 SB01 (1-2') 11748 SB03 (5-6')	DWPC ² / 4,600 GSIPC ³ / 4,600 DCC ⁴ / 7,600	9,110
Chromium (Total)	7440-47-3	11748 SB03 (5-6')	GSIPC / 3,300	18,500

¹µg/kg – micrograms per kilogram;

²DWPC – Drinking Water Protection Criteria

³GSIPC – Groundwater Surface Water Interface Protection Criteria

⁴DCC – Direct Contact Criteria

4.3 TCLP Analytical Results

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

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

4.4 Exposure Evaluation

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

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

5.0 FINDINGS

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

- The stratigraphy encountered during soil boring advancement of 11748 SB01, 11748 SB02, and 11748 SB03 generally consisted of gray and brown silty clay to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 0.2 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil

sampling activities, however, concrete, asphalt, and/or brick debris were observed in 11748 SB01 and 11748 SB03.

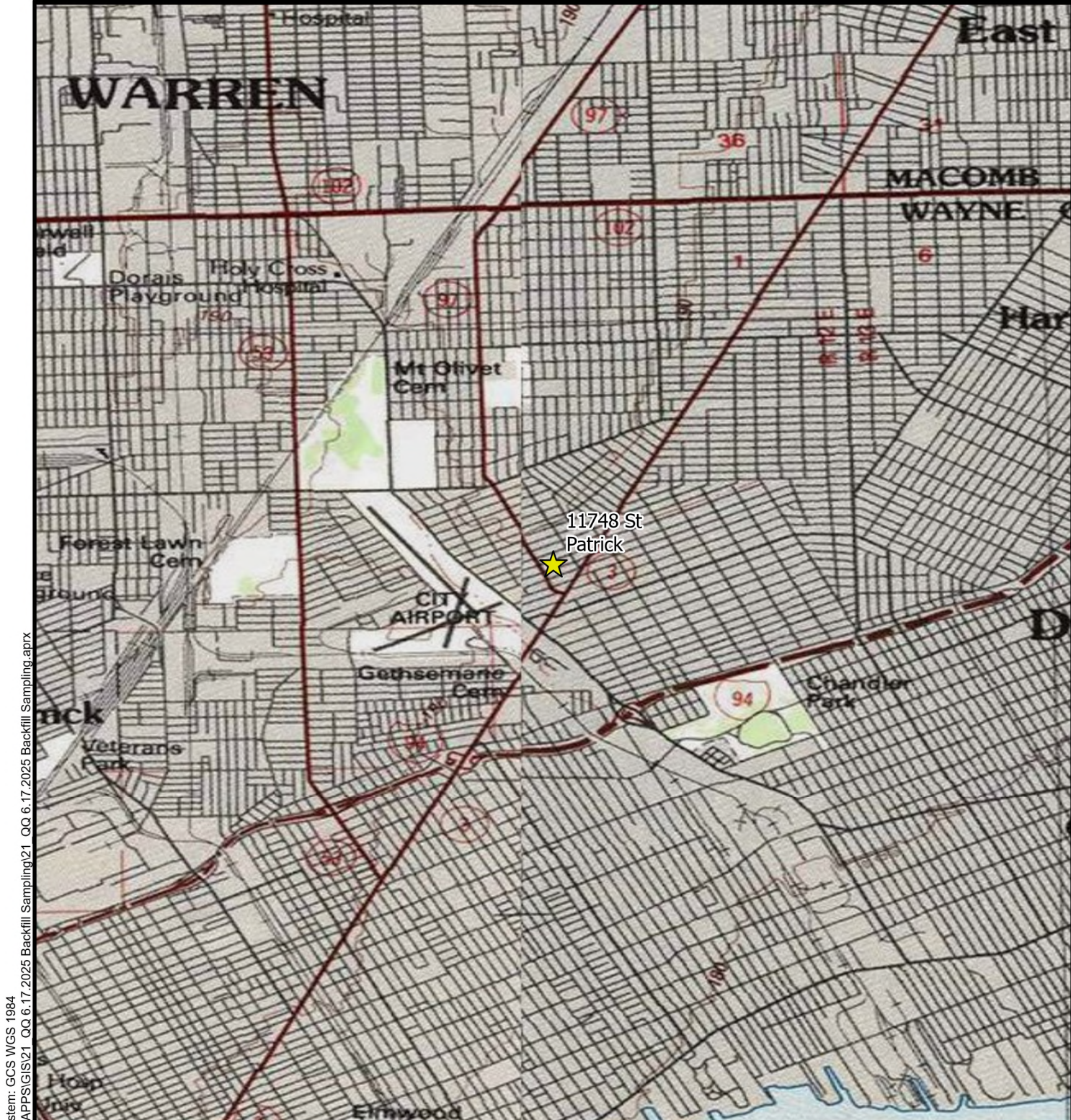
- Concentrations of arsenic and total chromium were detected in soil samples 11748 SB01 (1-2') and/or 11748 SB03 (5-6') in excess of their respective Part 201 DWPC, GSIPC, and/or DCC.
- Concentrations of 4,4-DDE, 4,4-DDT, barium, chlordane, chloride, copper, lead, mercury, and zinc were detected in soil samples 11748 SB01 (1-2'), 11748 SB02 (3-4'), and/or 11748 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 and chromium were not in excess of 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste.
- VOCs, SVOCs, and PCBs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the DW exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration, therefore, the groundwater surface water exposure pathway can be considered not applicable. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

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

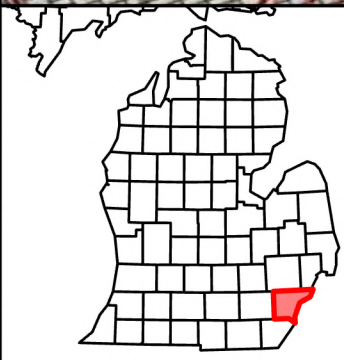
MSG warrants that no substantive information or documentation was deleted, omitted, or changed that would otherwise cause the MSG to reach a different conclusion. Furthermore, MSG understands that the COD and its agencies and authorities may rely upon the overall completeness, accuracy, and conclusions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

FIGURES





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

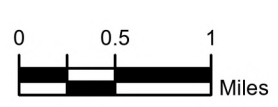
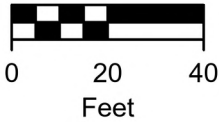


FIGURE 1
 SITE LOCATION

11748 St Patrick, Detroit, MI

DATE 9/23/2025	DRAWN BY JWW	DESIGNED BY JWW	PROJECT NO. DETR0060
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- Sample Locations
- Parcels (Current)
- Subject Property

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



FIGURE 2
Site Layout

11748 St Patrick, 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
11748 St Patrick, 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
					Arsenic	Barium (B)	Cadmium (B)	Chromium (Total)	Copper (B)	Lead (B)	Mercury (B,Z)	Selenium (B)	Silver (B)	Zinc (B)	4,4'-DDE	4,4'-DDT	alpha-Chlordane	Chlordane		Chloride
CAS Number					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	72559	50-29-3	NA	57-74-9		16887006
Statewide Default Background Levels					5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000	NA	NA	NA	NA		NA
Drinking Water Protection Criteria (DWPC)					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	NA	NLL		5.00E+06
Groundwater Surface Water Interface Protection Criteria (GSIPC)					4,600	(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27	(G)	NLL	NLL	NA	NLL		(X)
Soil Volatilization to Indoor Air Inhalation (SVIIC)					NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV	NLV	NLV	NA	1.10E+07		NLV
Soil Volatilization to Indoor Air Pathway (SVIAP)					NA	NA	NA	--	NA	NA	22 (M)	NA	NA	NA	NA	--	NA	13,000		--
Infinite Source Volatile Soil Inhalation Criteria (VSIC)					NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NA	1.20E+06		NLV
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)					NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NA	1.20E+06		NLV
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)					NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NA	1.20E+06		NLV
Particulate Soil Inhalation Criteria (PSIC)					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	3.20E+07	3.20E+07	NA	3.1E+07		ID
Direct Contact Criteria (DCC)					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	45,000	57,000	NA	31,000		5.0E+5 (F)
Soil Saturation Concentration Screening Levels (C _{sat})					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA
Recommended Interim Action Screening Level (RIASL)					NA	NA	NA	NA	NA	NA	2.7E-02	NA	NA	NA	NA	--	NA	NA		--
SAMPLE ID	DEPTH	SAMPLE DATE																		
11748 SB01	1-2	8/13/2025	ND	ND	8,920	74,500	<1,390	12,900	13,700	9,620	<20	<3,470	<3,470	36,500	3.0	<2.0	<2.0	<9.6	ND	28,600
11748 SB02	3-4	8/13/2025	ND	ND	5,800	66,600	<1,530	16,900	23,100	8,750	38.2	<3,820	<3,820	49,400	<6.2	<6.2	<6.2	<30	ND	38,400
11748 SB03	5-6	8/13/2025	ND	ND	9,110	69,600	<1,480	18,500	21,200	58,900	33.2	<3,690	<3,690	80,900	100	83	8.7	8.7	ND	<12,800

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
11748 St Patrick, Detroit, Michigan

40 C.F.R. § 261.24 Code of Federal Regulations Title 40 - Protection of Environment Chapter I - Environmental Protection Agency Subchapter I - Solid Wastes Part 261- Identification and Listing of Hazardous Waste Subpart C - Characteristics of Hazardous Waste <i>Units: mg/L</i>		TCLP Metals	
		Arsenic	Chromium
Maximum Concentration of Contaminants for the Toxicity Characteristic		5.00	5.00
SAMPLE ID	SAMPLE DATE		
11748 St Patrick SB03 TCLP	10/9/2025	<0.00190	<0.00610

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

APPENDIX A

LIMITATIONS



LIMITATIONS

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

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

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

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

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

APPENDIX B

DAILY FIELD REPORTS





DAILY FIELD REPORT

Client: City of Detroit Demolition Department

Project: Sampling and Analysis of Fill Material

Report No.: 1

Job No.: DETR0060

Date: 08/13/2025	Day: Wednesday	Temp: 70 ° F	(AM)	N/A	(PM)
MSG Personnel: SRK, BM		Cloud Cover: 90%	(AM)	N/A	(PM)
		Precip.: N/A	(AM)	N/A	(PM)
Personnel: MSG					
MSG Hours On-Site: ~ 1 hours					
Contractors Information					
Contractor: MSG		No. Men and Type: 2; Operator/Geologist		Equipment Type: Geoprobe 7822DT	
Summary of Work Performed:					
- Advanced three (3) onsite soil borings to a maximum depth of 6 feet below ground surface (bgs) - Collected soil samples from each soil boring (from the interval with the greatest potential to be impacted based on field indicators).					
Field Notes:					
0830 – SRK and BM onsite (11748 St Patrick Avenue) 0832 – Unloaded equipment and marked boring locations 0851 – Began drilling SB01 0854 – Finished drilling SB01 0856 – Began drilling SB02 0858 – Finished drilling SB02 0859 – Sampled 11748 SB01 (1-2') 0901 – Began drilling SB03 0903 – Finished drilling SB03 0909 – Sampled 11748 SB02 (3-4') 0919 – Sampled 11748 SB03 (5-6') 0925 – Packed up equipment 0930 – 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.: 2
Job No.: DETR0060

Date: <u>10/9/2025</u>	Day: <u>Thursday</u>	Temp: <u>50 ° F</u> (AM) <u>N/A</u> (PM)	
MSG Personnel: <u>SRK, JF</u>		Cloud Cover: <u>0%</u> (AM) <u>N/A</u> (PM)	
		Precip.: <u>N/A</u> (AM) <u>N/A</u> (PM)	
Personnel: <u>MSG</u>			
MSG Hours On-Site: <u>~ 1 hours</u>			

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

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

Field Notes:
1132 – MSG (SRK, JF) onsite (11748 St Patrick) 1134 – Attempted to locate previous boring locations. Marked out new boring location. 1142 – Began drilling SB03 TCLP 1144 – Finished drilling SB03 TCLP 1152 – Sampled 11748 St Patrick SB03 TCLP 1200 – Collected GPS points 1210 – Packed up equipment 1214 – MSG off site

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

APPENDIX C

INVESTIGATION PHOTOGRAPHS





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

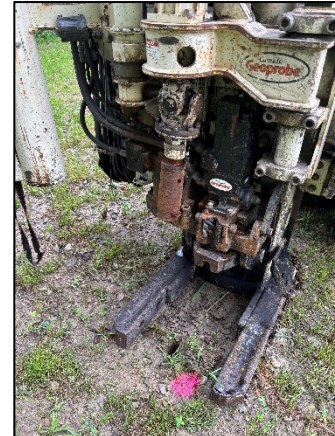


Photo 2: Viewing 11748 SB01 Drilling, Facing East.



Photo 3: Viewing 11748 SB01 Soils, Facing Southeast.

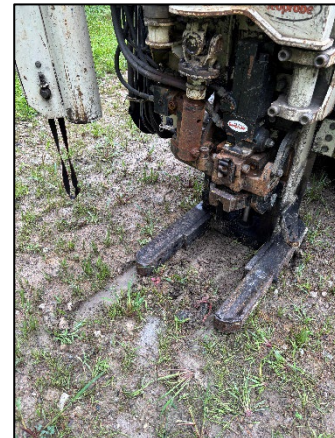


Photo 4: Viewing 11748 SB02 Drilling, Facing East.



Photo 5: Viewing 11748 SB02 Soils, Facing Southeast.



Photo 6: Viewing 11748 SB03 Drilling, Facing East.



Photo 7: Viewing 11748 SB03 Soils, Facing Southeast.



Photo 8: View of Site at the time of TCLP soil boring activities



Photo 9: View of TCLP soil boring location



Photo 10: View of soil recovery at the time of TCLP sampling

APPENDIX D

SOIL BORING LOGS





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

BORING ID: SB01

PAGE 1 OF 1

CLIENT <u>City of Detroit</u>	PROJECT NAME <u>11748 St Patrick</u>
PROJECT NUMBER <u>DETR0060</u>	PROJECT LOCATION <u>11748 St Patrick Ave, Detroit, Michigan</u>
DATE STARTED <u>8/13/25</u> COMPLETED <u>8/13/25</u>	BORING DIAMETER: <u>3.25 inches</u>
DRILLING CONTRACTOR <u>MSG</u>	SURVEY COORDINATES: <u>N/A</u>
DRILLING METHOD <u>Direct Push</u>	GROUND SURFACE ELEV.: <u>N/A</u>
LOGGED BY <u>SRK</u> CHECKED BY <u>PDH</u>	GROUND WATER ENCOUNTERED DURING DRILLING: <u>Not Encountered</u>
NOTES	WATER LEVEL AFTER DRILLING: <u>N/A</u>

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 8/20/25 11:44 - W:\PROJECTS\PROJECTS A-EDETR0060\ADMIN\23_QQ 7.25.2025 BACKFILL SAMPLING (48 SITES)\11748 ST PATRICK\BORING LOGS\DETR0060_11748.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Brown and Gray Silty CLAY, some gravel, little sand	0.0		
						0.0		Collected soil sample 11748 SB01 (1-2) at 8:59
					Becomes moist at 3 feet bgs	0.0		
					Some concrete and asphalt debris at 4 feet bgs	0.1		
5						0.0		
						0.0		
					Bottom of borehole at 6.0 feet.	0.0		



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

BORING ID: SB02

PAGE 1 OF 1

CLIENT <u>City of Detroit</u>	PROJECT NAME <u>11748 St Patrick</u>
PROJECT NUMBER <u>DETR0060</u>	PROJECT LOCATION <u>11748 St Patrick Ave, Detroit, Michigan</u>
DATE STARTED <u>8/13/25</u> COMPLETED <u>8/13/25</u>	BORING DIAMETER: <u>3.25 inches</u>
DRILLING CONTRACTOR <u>MSG</u>	SURVEY COORDINATES: <u>N/A</u>
DRILLING METHOD <u>Direct Push</u>	GROUND SURFACE ELEV.: <u>N/A</u>
LOGGED BY <u>SRK</u> CHECKED BY <u>PDH</u>	GROUND WATER ENCOUNTERED DURING DRILLING: <u>Not Encountered</u>
NOTES	WATER LEVEL AFTER DRILLING: <u>N/A</u>

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 8/20/25 11:44 - W:\PROJECTS\PROJECTS A-EDETR0060\ADMIN\23_QQ 7.25 2025 BACKFILL SAMPLING (48 SITES)\11748 ST PATRICK\BORING LOGS\DETR0060_11748.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Brown and Gray Silty CLAY, some gravel, little sand, moist	0.0		
						0.0		
						0.0		
	MC 1	5.0				0.0	X	Collected soil sample 11748 SB02 (3-4) at 9:09
						0.0		
5					Becomes dry at 5 feet bgs	0.0		
				6.0		0.0		
					Bottom of borehole at 6.0 feet.			

APPENDIX E
LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

CERTIFICATE OF ANALYSIS

Work Order

HN2511427

Client

The Mannik & Smith Group, Inc.

Project

11748_St Patrick

Project Date

August 14, 2025

Reporting Contact

Ryan Montri



right solutions.
right partner.

September 11, 2025

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

Work Order: **HN2511427**

Re: **11748_St Patrick**

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: 11748_St Patrick

Work Order: HN2511427
Date Received: 14-Aug-2025

CASE NARRATIVE

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

Sample Receipt

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

Inorganics

EPA 9056A-S (High)

Run ID: 3408572

The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Chloride, Sulfate

Metals

EPA 6020B-3050B-S

Run ID: 3414301

The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Cu, Pb batch 2167686

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, Ti, Zn batch 2167686

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, Ti, Zn batch 2167686

The MS recovery was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Sb, As, Cr batch 2167686

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): Cu, Pb batch 2167686

HN2511427-001: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511427-001: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511427-001: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511427-002: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511427-002: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

Run ID: 3414301

HN2511427-002: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511427-003: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511427-003: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511427-003: Cadmium - 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: 11748 SB01 (1-2)	Lab ID: HN2511427-001
-----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	8.92		3.47	mg/kg	EPA 6020B
Barium	74.5		3.47	mg/kg	EPA 6020B
Chloride	28.6		11.2	mg/kg	EPA 9056A
Chromium	12.9		3.47	mg/kg	EPA 6020B
Copper	13.7		3.47	mg/kg	EPA 6020B
Lead	9.62		3.47	mg/kg	EPA 6020B
Percent Moisture	14.0		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	36.5		6.94	mg/kg	EPA 6020B

CLIENT ID: 11748 SB02 (3-4)	Lab ID: HN2511427-002
-----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	5.80		3.82	mg/kg	EPA 6020B
Barium	66.6		3.82	mg/kg	EPA 6020B
Chloride	38.4		12.2	mg/kg	EPA 9056A
Chromium	16.9		3.82	mg/kg	EPA 6020B
Copper	23.1		3.82	mg/kg	EPA 6020B
Lead	8.75		3.82	mg/kg	EPA 6020B
Mercury	0.0382		0.0224	mg/kg	EPA 7471B
Percent Moisture	18.3		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	49.4		7.65	mg/kg	EPA 6020B

CLIENT ID: 11748 SB03 (5-6)	Lab ID: HN2511427-003
-----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	9.11		3.69	mg/kg	EPA 6020B
Barium	69.6		3.69	mg/kg	EPA 6020B
Chromium	18.5		3.69	mg/kg	EPA 6020B
Copper	21.2		3.69	mg/kg	EPA 6020B
Lead	58.9		3.69	mg/kg	EPA 6020B
Mercury	0.0332		0.0205	mg/kg	EPA 7471B
Percent Moisture	21.9		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8151A

SAMPLE DETECTION SUMMARY

This form includes only detections above the limits as presented.

For a full listing of sample results, continue to the Sample Results section of this Report.



CLIENT ID: 11748 SB03 (5-6)

Lab ID: HN2511427-003

Analyte	Results	Flag	MRL	Units	Method
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	80.9		7.38	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 11748_St Patrick
Workorder: HN2511427

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511427-001	11748 SB01 (1-2)	SOIL/SOLID	08/13/25 08:59	08/14/25 08:00
HN2511427-002	11748 SB02 (3-4)	SOIL/SOLID	08/13/25 09:09	08/14/25 08:00
HN2511427-003	11748 SB03 (5-6)	SOIL/SOLID	08/13/25 09:19	08/14/25 08:00



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

ALS Project Manager:							Work Order #:													
Customer Information		Project Information					Parameter/Method Request for Analysis													
Purchase Order		Project Name	11748_ St Patrick				A	VOCs (U.S. EPA Method 8260C (or Method 8260))												
Work Order		Project Number	DETR0060				B	SVOCs (U.S. EPA Method 8270D (or Method 8270))												
Company Name	The Mannik and Smith Group	Bill To Company	The Mannik and Smith Group				C	PCBs (U.S. EPA Method 8082)												
Send Report To	Ryan Montri	Invoice Attn.					D	Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)												
Address	2365 Haggerty Rd South Suite 100	Address	2365 Haggerty Rd South Suite 100				E	Chorides (U.S. EPA Method 9056A)												
							F	Pesticides (U.S. EPA Method 8081B (or Method 8081))												
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188				G	Herbicides (U.S. EPA Method 8151A (or Method 8151))												
Phone	734-397-3100	Phone	734-397-3100				H													
Fax		Fax					I													
e-Mail Address	RMontri@manniksmithgroup.com	e-Mail Address:					J													
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	11748 SB01 (1-2)	8/13/25	8:59	Soil	7	3	X	X	X	X	X	X	X							
2	11748 SB02 (3-4)	8/13/25	9:09	Soil	7	3	↓	↓	↓	↓	↓	↓	↓							
3	11748 SB03 (5-6)	8/13/25	9:19	Soil	7	3	↓	↓	↓	↓	↓	↓	↓							
4																				
5																				
6																				
7																				
8																				
9																				
10																				
Sampler(s): Please Print & Sign Shannon Kaczmarek		Shipment Method:		Required Turnaround Time:			☐ STD 10 Wk Days			☒ 5 Wk Days			☐ 2 Wk Days			☐ 24 Hour			Results Due Date:	
Relinquished by: Shannon Kaczmarek		Date: 8/13/25	Time: 1500	Received by:			Notes: Quote# HN-061825-M&S-MA													
Relinquished by:		Date: 8/13/25	Time: 1700	Received by (Laboratory):			Cooler Temp.		QC Package: (Check Box Below)											
Logged by (Laboratory): BC		Date: 8/14/25	Time: 04:55	Checked by (Laboratory):			4.6°C IR6		☐ Level II: Standard QC			☐ TRRP-Checklist								
									☐ Level III: Std QC + Raw Data			☐ TRRP Level IV								
									☐ Level IV: SW846 CLP-Like											
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035																		Other: _____		

Environmental Division
Holland
Work Order Reference
HN2511427

Telephone : +1 616 399 6070

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

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

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

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ALS Holland Sample Receiving Checklist

Received by: BC

Date/Time: 8/14/25 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): 4.6°C

Thermometer(s): IR6

Sample(s) received on ice? Yes / No

Matrix/Matrices: XBC Soil

Cooler(s)/Kit(s): 1

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

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

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

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

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

pH adjusted by: _____

Login Notes:

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: 11748_St Patrick

Work Order: HN2511427

Sample Name: 11748 SB01 (1-2) **Date Collected:** 08/13/25
Laboratory Code: HN2511427-001 **Date Received:** 08/14/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2164278		3406747	Nicole Maleski
EPA 6020B	EPA 3050B	001-AC	2167686	Weston Kotecki	3414301	Stephanie Pierson
EPA 7471B	Method	001-AC	2170111	Maxx Richey	3420366	Maxx Richey
EPA 8081B		001-AD			3484478	Bill Carey
EPA 8082A		001-AD			3484478	Bill Carey
EPA 8151A		001-AD			3484478	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2160747	Jonathan Vazquez	3424725	Nathan Jenkins
EPA 8270E		001-AD			3484478	Bill Carey
EPA 9056A	EPA 9056A	001-AC	2165419	Katrina Grassel	3408572	Sage Hansen

Sample Name: 11748 SB02 (3-4) **Date Collected:** 08/13/25
Laboratory Code: HN2511427-002 **Date Received:** 08/14/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2164278		3406747	Nicole Maleski
EPA 6020B	EPA 3050B	002-AC	2167686	Weston Kotecki	3414301	Stephanie Pierson
EPA 7471B	Method	002-AC	2170111	Maxx Richey	3420366	Maxx Richey
EPA 8081B		002-AD			3484478	Bill Carey
EPA 8082A		002-AD			3484478	Bill Carey
EPA 8151A		002-AD			3484478	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2160747	Jonathan Vazquez	3424725	Nathan Jenkins
EPA 8270E		002-AD			3484478	Bill Carey
EPA 9056A	EPA 9056A	002-AC	2165419	Katrina Grassel	3408572	Sage Hansen

Sample Name: 11748 SB03 (5-6) **Date Collected:** 08/13/25
Laboratory Code: HN2511427-003 **Date Received:** 08/14/25
Sample Matrix: SOIL/SOLID

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

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 11748_St Patrick

Work Order: HN2511427

Sample Name: 11748 SB03 (5-6)
Laboratory Code: HN2511427-003
Sample Matrix: SOIL/SOLID

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

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3050B Method	003-AC	2167686	Weston Kotecki	3414301	Stephanie Pierson
EPA 7471B		003-AC	2170111	Maxx Richey	3420366	Maxx Richey
EPA 8081B		003-AD			3484478	Bill Carey
EPA 8082A		003-AD			3484478	Bill Carey
EPA 8151A	EPA 5035A	003-AD			3484478	Bill Carey
EPA 8260D		003-AA	2160747	Jonathan Vazquez	3424725	Nathan Jenkins
EPA 8270E		003-AD			3484478	Bill Carey
EPA 9056A	EPA 9056A	003-AC	2165419	Katrina Grassel	3408572	Sage Hansen

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11748_St Patrick
Matrix: SOIL/SOLID

Work Order: HN2511427
Date Collected: 08/13/25 08:59
Date Received: 08/14/25 08:00

CLIENT ID: 11748 SB01 (1-2)	Lab ID: HN2511427-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	14.0		%	0.1	1	08/16/25 14:40	NA
Chloride	EPA 9056A	28.6		mg/kg	11.2	1	08/17/25 16:19	08/17/25 14:43
Metals								
Arsenic	EPA 6020B	8.92		mg/kg	3.47	10	08/19/25 23:59	08/19/25 09:59
Barium	EPA 6020B	74.5		mg/kg	3.47	10	08/19/25 23:59	08/19/25 09:59
Cadmium	EPA 6020B	ND		mg/kg	1.39	10	08/19/25 23:59	08/19/25 09:59
Chromium	EPA 6020B	12.9		mg/kg	3.47	10	08/19/25 23:59	08/19/25 09:59
Copper	EPA 6020B	13.7		mg/kg	3.47	10	08/19/25 23:59	08/19/25 09:59
Lead	EPA 6020B	9.62		mg/kg	3.47	10	08/19/25 23:59	08/19/25 09:59
Selenium	EPA 6020B	ND		mg/kg	3.47	10	08/19/25 23:59	08/19/25 09:59
Silver	EPA 6020B	ND		mg/kg	3.47	10	08/19/25 23:59	08/19/25 09:59
Zinc	EPA 6020B	36.5		mg/kg	6.94	10	08/19/25 23:59	08/19/25 09:59
Mercury	EPA 7471B	ND		mg/kg	0.0200	1	08/21/25 09:28	08/21/25 08:15
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/11/25 10:41	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/11/25 10:41	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/11/25 10:41	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/11/25 10:41	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	137	1	08/21/25 21:05	08/14/25 14:59
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	137	1	08/21/25 21:05	08/14/25 14:59
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	137	1	08/21/25 21:05	08/14/25 14:59

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11748_St Patrick
Matrix: SOIL/SOLID

Work Order: HN2511427
Date Collected: 08/13/25 08:59
Date Received: 08/14/25 08:00

CLIENT ID: 11748 SB01 (1-2) **Lab ID: HN2511427-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	137	1	08/21/25 21:05	08/14/25 14:59
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	137	1	08/21/25 21:05	08/14/25 14:59
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	82.0	1	08/21/25 21:05	08/14/25 14:59
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	273	1	08/21/25 21:05	08/14/25 14:59
2-Hexanone	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Acetone	EPA 8260D	ND		µg/kg	137	1	08/21/25 21:05	08/14/25 14:59
Benzene	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Bromochloromethane	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Bromodichloromethane	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Bromoform	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Carbon disulfide	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Carbon tetrachloride	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Chlorobenzene	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Chlorodibromomethane	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	137	1	08/21/25 21:05	08/14/25 14:59
Chloroform	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	82.0	1	08/21/25 21:05	08/14/25 14:59
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Cyclohexane	EPA 8260D	ND		µg/kg	137	1	08/21/25 21:05	08/14/25 14:59
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	137	1	08/21/25 21:05	08/14/25 14:59
Ethylbenzene	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Isopropylbenzene	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11748_St Patrick
Matrix: SOIL/SOLID

Work Order: HN2511427
Date Collected: 08/13/25 08:59
Date Received: 08/14/25 08:00

CLIENT ID: 11748 SB01 (1-2) **Lab ID: HN2511427-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	82.0	1	08/21/25 21:05	08/14/25 14:59
Methyl acetate	EPA 8260D	ND		µg/kg	342	1	08/21/25 21:05	08/14/25 14:59
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	137	1	08/21/25 21:05	08/14/25 14:59
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	137	1	08/21/25 21:05	08/14/25 14:59
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Methylcyclohexane	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	342	1	08/21/25 21:05	08/14/25 14:59
o-Xylene	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Styrene	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Toluene	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Total Xylene	EPA 8260D	ND		µg/kg	123	1	08/21/25 21:05	08/14/25 14:59
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	41.0	1	08/21/25 21:05	08/14/25 14:59
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	99.6		%REC	80-120	1	08/21/25 21:05	08/14/25 14:59
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	103		%REC	80-120	1	08/21/25 21:05	08/14/25 14:59
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	91.8		%REC	80-120	1	08/21/25 21:05	08/14/25 14:59
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	97.8		%REC	80-120	1	08/21/25 21:05	08/14/25 14:59

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11748_St Patrick
Matrix: SOIL/SOLID

Work Order: HN2511427
Date Collected: 08/13/25 09:09
Date Received: 08/14/25 08:00

CLIENT ID: 11748 SB02 (3-4)	Lab ID: HN2511427-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	18.3		%	0.1	1	08/16/25 14:40	NA
Chloride	EPA 9056A	38.4		mg/kg	12.2	1	08/17/25 16:29	08/17/25 14:43
Metals								
Arsenic	EPA 6020B	5.80		mg/kg	3.82	10	08/20/25 00:04	08/19/25 09:59
Barium	EPA 6020B	66.6		mg/kg	3.82	10	08/20/25 00:04	08/19/25 09:59
Cadmium	EPA 6020B	ND		mg/kg	1.53	10	08/20/25 00:04	08/19/25 09:59
Chromium	EPA 6020B	16.9		mg/kg	3.82	10	08/20/25 00:04	08/19/25 09:59
Copper	EPA 6020B	23.1		mg/kg	3.82	10	08/20/25 00:04	08/19/25 09:59
Lead	EPA 6020B	8.75		mg/kg	3.82	10	08/20/25 00:04	08/19/25 09:59
Selenium	EPA 6020B	ND		mg/kg	3.82	10	08/20/25 00:04	08/19/25 09:59
Silver	EPA 6020B	ND		mg/kg	3.82	10	08/20/25 00:04	08/19/25 09:59
Zinc	EPA 6020B	49.4		mg/kg	7.65	10	08/20/25 00:04	08/19/25 09:59
Mercury	EPA 7471B	0.0382		mg/kg	0.0224	1	08/21/25 09:30	08/21/25 08:15
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/11/25 10:41	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/11/25 10:41	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/11/25 10:41	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/11/25 10:41	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	148	1	08/21/25 21:22	08/14/25 14:59
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	148	1	08/21/25 21:22	08/14/25 14:59
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	148	1	08/21/25 21:22	08/14/25 14:59

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11748_St Patrick
Matrix: SOIL/SOLID

Work Order: HN2511427
Date Collected: 08/13/25 09:09
Date Received: 08/14/25 08:00

CLIENT ID: 11748 SB02 (3-4) **Lab ID: HN2511427-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	148	1	08/21/25 21:22	08/14/25 14:59
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	148	1	08/21/25 21:22	08/14/25 14:59
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	88.5	1	08/21/25 21:22	08/14/25 14:59
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	295	1	08/21/25 21:22	08/14/25 14:59
2-Hexanone	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Acetone	EPA 8260D	ND		µg/kg	148	1	08/21/25 21:22	08/14/25 14:59
Benzene	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Bromochloromethane	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Bromodichloromethane	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Bromoform	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Carbon disulfide	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Carbon tetrachloride	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Chlorobenzene	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Chlorodibromomethane	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	148	1	08/21/25 21:22	08/14/25 14:59
Chloroform	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	88.5	1	08/21/25 21:22	08/14/25 14:59
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Cyclohexane	EPA 8260D	ND		µg/kg	148	1	08/21/25 21:22	08/14/25 14:59
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	148	1	08/21/25 21:22	08/14/25 14:59
Ethylbenzene	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Isopropylbenzene	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11748_St Patrick
Matrix: SOIL/SOLID

Work Order: HN2511427
Date Collected: 08/13/25 09:09
Date Received: 08/14/25 08:00

CLIENT ID: 11748 SB02 (3-4)	Lab ID: HN2511427-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	88.5	1	08/21/25 21:22	08/14/25 14:59
Methyl acetate	EPA 8260D	ND		µg/kg	369	1	08/21/25 21:22	08/14/25 14:59
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	148	1	08/21/25 21:22	08/14/25 14:59
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	148	1	08/21/25 21:22	08/14/25 14:59
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Methylcyclohexane	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	369	1	08/21/25 21:22	08/14/25 14:59
o-Xylene	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Styrene	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Toluene	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Total Xylene	EPA 8260D	ND		µg/kg	133	1	08/21/25 21:22	08/14/25 14:59
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	44.2	1	08/21/25 21:22	08/14/25 14:59
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	104		%REC	80-120	1	08/21/25 21:22	08/14/25 14:59
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	94.6		%REC	80-120	1	08/21/25 21:22	08/14/25 14:59
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	91.0		%REC	80-120	1	08/21/25 21:22	08/14/25 14:59
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	100.0		%REC	80-120	1	08/21/25 21:22	08/14/25 14:59

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11748_St Patrick
Matrix: SOIL/SOLID

Work Order: HN2511427
Date Collected: 08/13/25 09:19
Date Received: 08/14/25 08:00

CLIENT ID: 11748 SB03 (5-6)	Lab ID: HN2511427-003
------------------------------------	------------------------------

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	21.9		%	0.1	1	08/16/25 14:40	NA
Chloride	EPA 9056A	ND		mg/kg	12.8	1	08/17/25 16:39	08/17/25 14:43
Metals								
Arsenic	EPA 6020B	9.11		mg/kg	3.69	10	08/20/25 00:05	08/19/25 09:59
Barium	EPA 6020B	69.6		mg/kg	3.69	10	08/20/25 00:05	08/19/25 09:59
Cadmium	EPA 6020B	ND		mg/kg	1.48	10	08/20/25 00:05	08/19/25 09:59
Chromium	EPA 6020B	18.5		mg/kg	3.69	10	08/20/25 00:05	08/19/25 09:59
Copper	EPA 6020B	21.2		mg/kg	3.69	10	08/20/25 00:05	08/19/25 09:59
Lead	EPA 6020B	58.9		mg/kg	3.69	10	08/20/25 00:05	08/19/25 09:59
Selenium	EPA 6020B	ND		mg/kg	3.69	10	08/20/25 00:05	08/19/25 09:59
Silver	EPA 6020B	ND		mg/kg	3.69	10	08/20/25 00:05	08/19/25 09:59
Zinc	EPA 6020B	80.9		mg/kg	7.38	10	08/20/25 00:05	08/19/25 09:59
Mercury	EPA 7471B	0.0332		mg/kg	0.0205	1	08/21/25 09:32	08/21/25 08:15
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/11/25 10:41	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/11/25 10:41	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/11/25 10:41	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/11/25 10:41	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	158	1	08/21/25 21:38	08/14/25 14:59
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	158	1	08/21/25 21:38	08/14/25 14:59
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	158	1	08/21/25 21:38	08/14/25 14:59

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11748_St Patrick
Matrix: SOIL/SOLID

Work Order: HN2511427
Date Collected: 08/13/25 09:19
Date Received: 08/14/25 08:00

CLIENT ID: 11748 SB03 (5-6) **Lab ID: HN2511427-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	158	1	08/21/25 21:38	08/14/25 14:59
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	158	1	08/21/25 21:38	08/14/25 14:59
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	94.8	1	08/21/25 21:38	08/14/25 14:59
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	316	1	08/21/25 21:38	08/14/25 14:59
2-Hexanone	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Acetone	EPA 8260D	ND		µg/kg	158	1	08/21/25 21:38	08/14/25 14:59
Benzene	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Bromochloromethane	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Bromodichloromethane	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Bromoform	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Carbon disulfide	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Carbon tetrachloride	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Chlorobenzene	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Chlorodibromomethane	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	158	1	08/21/25 21:38	08/14/25 14:59
Chloroform	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	94.8	1	08/21/25 21:38	08/14/25 14:59
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Cyclohexane	EPA 8260D	ND		µg/kg	158	1	08/21/25 21:38	08/14/25 14:59
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	158	1	08/21/25 21:38	08/14/25 14:59
Ethylbenzene	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Isopropylbenzene	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11748_St Patrick
Matrix: SOIL/SOLID

Work Order: HN2511427
Date Collected: 08/13/25 09:19
Date Received: 08/14/25 08:00

CLIENT ID: 11748 SB03 (5-6)

Lab ID: HN2511427-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	94.8	1	08/21/25 21:38	08/14/25 14:59
Methyl acetate	EPA 8260D	ND		µg/kg	395	1	08/21/25 21:38	08/14/25 14:59
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	158	1	08/21/25 21:38	08/14/25 14:59
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	158	1	08/21/25 21:38	08/14/25 14:59
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Methylcyclohexane	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	395	1	08/21/25 21:38	08/14/25 14:59
o-Xylene	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Styrene	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Toluene	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Total Xylene	EPA 8260D	ND		µg/kg	142	1	08/21/25 21:38	08/14/25 14:59
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	47.4	1	08/21/25 21:38	08/14/25 14:59
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	104		%REC	80-120	1	08/21/25 21:38	08/14/25 14:59
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	97.9		%REC	80-120	1	08/21/25 21:38	08/14/25 14:59
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	92.8		%REC	80-120	1	08/21/25 21:38	08/14/25 14:59
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	99.2		%REC	80-120	1	08/21/25 21:38	08/14/25 14:59



November 19, 2025

Service Request No:R2510164

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

Laboratory Results for: 11748_St Patrick

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 **R2510164**.

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

ADDRESS

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

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+1 585 288 5380

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com



Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Received: 08/20/2025

CASE NARRATIVE

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

Sample Receipt:

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

Semivolatiles by GC/MS:

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

Method 8270E, 891252: 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, 09/09/2025: The control limits were exceeded for analytes in the Continuing Calibration Verification (CCV). The QC failure was most likely due to the composition of the sample(s) immediately preceding the failing CCV. In order to protect the integrity of the instrument, no further corrective action was taken. Results should be considered estimated.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by 

Date 11/19/2025



SAMPLE DETECTION SUMMARY

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

CLIENT ID: 11748 SB03 (5-6)	Lab ID: R2510164-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	4.7	J	3.1	6.2	ug/Kg	8081B
4,4'-DDE	100		3.1	6.2	ug/Kg	8081B
4,4'-DDT	83		3.1	6.2	ug/Kg	8081B
alpha-Chlordane	8.7		3.1	6.2	ug/Kg	8081B
gamma-Chlordane	5.9	J	3.1	6.2	ug/Kg	8081B
Total Solids	78.1				Percent	ALS SOP

CLIENT ID: 11748 SB01 (1-2)	Lab ID: R2510164-001
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDE	3.0		0.98	2.0	ug/Kg	8081B
Total Solids	86.0				Percent	ALS SOP

CLIENT ID: 11748 SB02 (3-4)	Lab ID: R2510164-002
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	81.7				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: 11748_St Patrick

Service Request:R2510164

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2510164-001	11748 SB01 (1-2)	8/13/2025	0859
R2510164-002	11748 SB02 (3-4)	8/13/2025	0909
R2510164-003	11748 SB03 (5-6)	8/13/2025	0919

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: HN2511427

Subcontract To: Rochester - Environmental TEL: +1 585 288 5380 1565 Jefferson Road, Building 300, Suite 360 FAX: Rochester New York 14623	Due Date: 08/25/2025 Analysis Report Format: ALS Standard – Level II Electronic Data Deliverable:
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Customer Information		Project Information		Parameter/Method Request for Analysis						
Purchase Order		Project Name	11748_St Patrick	A	EPA 8081B-3546-S (INT SUB)					
Work Order	HN2511427			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
HN2511427-001	11748 SB01 (1-2)	Soil/Solid	08/13/2025 08:59	001-AD	x	x	x	x						
HN2511427-002	11748 SB02 (3-4)	Soil/Solid	08/13/2025 09:09	002-AD	x	x	x	x						
HN2511427-003	11748 SB03 (5-6)	Soil/Solid	08/13/2025 09:19	003-AD	x	x	x	x						

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

R2510164
5

ALS Environmental - Holland
 11748_St Patrick



Cooler Receipt and Preservation Check Form

R2510164

5

ALS Environmental - Holland
11748 St Patrick

Project/Client _____ Folder Number _____

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

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

5a	Did VOA vials have sig* bubbles?	Y N <u>(NA)</u>
5b	Sig* bubbles: Alk? Y N <u>(NA)</u> Sulfide? Y N <u>(NA)</u>	
6	Where did the bottles originate?	ALS/ROC <u>(CLIENT)</u>
7	Soil VOA received as: Bulk Encore 5035set	<u>(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: S.M.O. by RM on 8/20 at 12:16
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y NCooler Breakdown/Preservation Check**: Date: 8/20/25 Time: 15:43 by: MM

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

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

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).Bottle lot numbers: 062325-152

Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: MM

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



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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

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

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REPORT QUALIFIERS AND DEFINITIONS

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

Rochester Lab ID # for State Accreditations¹



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

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

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

ALS Laboratory Group

Acronyms

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

Client: ALS Environmental - US
Project: 11748_St Patrick

Service Request: R2510164

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: 11748_St Patrick/

Service Request: R2510164

Sample Name: 11748 SB01 (1-2)
Lab Code: R2510164-001
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: 11748 SB02 (3-4)
Lab Code: R2510164-002
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: 11748 SB03 (5-6)
Lab Code: R2510164-003
Sample Matrix: Soil

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

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



PREPARATION METHODS

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

INORGANIC

Water/Liquid Matrix

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

Solid/Soil/Non-Aqueous Matrix

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

ORGANIC

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

Regarding "Bulk/5035A":

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



Sample Results

ALS Environmental—Rochester Laboratory

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

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

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: 08/13/25 08:59
Date Received: 08/20/25 09:30

Sample Name: 11748 SB01 (1-2)
Lab Code: R2510164-001

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1-Methylnaphthalene	350 U	1900	350	5	08/26/25 15:33	8/25/25	
1,2,4,5-Tetrachlorobenzene	430 U	1900	430	5	08/26/25 15:33	8/25/25	
2-Methylnaphthalene	670 U	1900	670	5	08/26/25 15:33	8/25/25	
Acenaphthene	360 U	1900	360	5	08/26/25 15:33	8/25/25	
Acenaphthylene	390 U	1900	390	5	08/26/25 15:33	8/25/25	
Anthracene	320 U	1900	320	5	08/26/25 15:33	8/25/25	
Benz(a)anthracene	290 U	1900	290	5	08/26/25 15:33	8/25/25	
Benzo(a)pyrene	510 U	1900	510	5	08/26/25 15:33	8/25/25	
Benzo(b)fluoranthene	320 U	1900	320	5	08/26/25 15:33	8/25/25	
Benzo(g,h,i)perylene	440 U	1900	440	5	08/26/25 15:33	8/25/25	
Benzo(k)fluoranthene	310 U	1900	310	5	08/26/25 15:33	8/25/25	
1,4-Dichlorobenzene	320 U	1900	320	5	08/26/25 15:33	8/25/25	
Biphenyl	560 U	1900	560	5	08/26/25 15:33	8/25/25	
Chrysene	280 U	1900	280	5	08/26/25 15:33	8/25/25	
1,4-Dioxane	190 U	390	190	5	08/26/25 15:33	8/25/25	
Dibenz(a,h)anthracene	420 U	1900	420	5	08/26/25 15:33	8/25/25	
Dibenzofuran	350 U	1900	350	5	08/26/25 15:33	8/25/25	
Fluoranthene	480 U	1900	480	5	08/26/25 15:33	8/25/25	
Fluorene	360 U	1900	360	5	08/26/25 15:33	8/25/25	
Indeno(1,2,3-cd)pyrene	620 U	1900	620	5	08/26/25 15:33	8/25/25	
Naphthalene	360 U	1900	360	5	08/26/25 15:33	8/25/25	
Phenanthrene	270 U	1900	270	5	08/26/25 15:33	8/25/25	
Pyrene	320 U	1900	320	5	08/26/25 15:33	8/25/25	
2,3,4,6-Tetrachlorophenol	670 U	1900	670	5	08/26/25 15:33	8/25/25	
2,4,5-Trichlorophenol	470 U	1900	470	5	08/26/25 15:33	8/25/25	
2,4,6-Trichlorophenol	430 U	1900	430	5	08/26/25 15:33	8/25/25	
2,4-Dichlorophenol	370 U	1900	370	5	08/26/25 15:33	8/25/25	
2,4-Dimethylphenol	350 U	1900	350	5	08/26/25 15:33	8/25/25	
2,4-Dinitrophenol	3300 U	9800	3300	5	08/26/25 15:33	8/25/25	
2,4-Dinitrotoluene	730 U	1900	730	5	08/26/25 15:33	8/25/25	
2,6-Dinitrotoluene	420 U	1900	420	5	08/26/25 15:33	8/25/25	
2-Chloronaphthalene	380 U	1900	380	5	08/26/25 15:33	8/25/25	
2-Chlorophenol	320 U	1900	320	5	08/26/25 15:33	8/25/25	
2-Methylphenol	400 U	1900	400	5	08/26/25 15:33	8/25/25	
2-Nitroaniline	450 U	9800	450	5	08/26/25 15:33	8/25/25	
2-Nitrophenol	450 U	1900	450	5	08/26/25 15:33	8/25/25	
3,3'-Dichlorobenzidine	700 U	1900	700	5	08/26/25 15:33	8/25/25	
3- and 4-Methylphenol Coelution	370 U	1900	370	5	08/26/25 15:33	8/25/25	
3-Nitroaniline	390 U	9800	390	5	08/26/25 15:33	8/25/25	
4,6-Dinitro-2-methylphenol	1100 U	9800	1100	5	08/26/25 15:33	8/25/25	
4-Bromophenyl Phenyl Ether	500 U	1900	500	5	08/26/25 15:33	8/25/25	
4-Chloro-3-methylphenol	390 U	1900	390	5	08/26/25 15:33	8/25/25	
4-Chloroaniline	700 U	1900	700	5	08/26/25 15:33	8/25/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: 08/13/25 08:59
Date Received: 08/20/25 09:30

Sample Name: 11748 SB01 (1-2)
Lab Code: R2510164-001

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	410 U	1900	410	5	08/26/25 15:33	8/25/25	
4-Nitroaniline	410 U	9800	410	5	08/26/25 15:33	8/25/25	
4-Nitrophenol	990 U	9800	990	5	08/26/25 15:33	8/25/25	
Acetophenone	550 U	1900	550	5	08/26/25 15:33	8/25/25	
Atrazine	570 U	1900	570	5	08/26/25 15:33	8/25/25	
Benzaldehyde	460 U	9800	460	5	08/26/25 15:33	8/25/25	
Benzoic Acid	3000 U	9800	3000	5	08/26/25 15:33	8/25/25	
Bis(1-chloroisopropyl) Ether	390 U	1900	390	5	08/26/25 15:33	8/25/25	
Bis(2-chloroethoxy)methane	470 U	1900	470	5	08/26/25 15:33	8/25/25	
Bis(2-chloroethyl) Ether	380 U	1900	380	5	08/26/25 15:33	8/25/25	
Bis(2-ethylhexyl) Phthalate	350 U	2900	350	5	08/26/25 15:33	8/25/25	
Butyl Benzyl Phthalate	560 U	1900	560	5	08/26/25 15:33	8/25/25	
Caprolactam	420 U	1900	420	5	08/26/25 15:33	8/25/25	
Carbazole	310 U	1900	310	5	08/26/25 15:33	8/25/25	
Di-n-butyl Phthalate	310 U	1900	310	5	08/26/25 15:33	8/25/25	
Di-n-octyl Phthalate	670 U	1900	670	5	08/26/25 15:33	8/25/25	
Diethyl Phthalate	340 U	1900	340	5	08/26/25 15:33	8/25/25	
Dimethyl Phthalate	370 U	1900	370	5	08/26/25 15:33	8/25/25	
Hexachlorobenzene	460 U	1900	460	5	08/26/25 15:33	8/25/25	
Hexachlorobutadiene	670 U	1900	670	5	08/26/25 15:33	8/25/25	
Hexachlorocyclopentadiene	610 U	1900	610	5	08/26/25 15:33	8/25/25	
Hexachloroethane	360 U	1900	360	5	08/26/25 15:33	8/25/25	
Isophorone	400 U	1900	400	5	08/26/25 15:33	8/25/25	
N-Nitrosodi-n-propylamine	590 U	1900	590	5	08/26/25 15:33	8/25/25	
N-Nitrosodiphenylamine	1200 U	1900	1200	5	08/26/25 15:33	8/25/25	
Nitrobenzene	340 U	1900	340	5	08/26/25 15:33	8/25/25	
Pentachlorophenol (PCP)	1900 U	9800	1900	5	08/26/25 15:33	8/25/25	
Phenol	390 U	1900	390	5	08/26/25 15:33	8/25/25	
Pyridine	260 U	9800	260	5	08/26/25 15:33	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	63	18 - 104	08/26/25 15:33	
Nitrobenzene-d5	63	12 - 98	08/26/25 15:33	
p-Terphenyl-d14	78	26 - 134	08/26/25 15:33	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: 08/13/25 09:09
Date Received: 08/20/25 09:30

Sample Name: 11748 SB02 (3-4)
Lab Code: R2510164-002

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-Methylnaphthalene	230 U	1200	230	1	08/26/25 15:57	8/25/25	
1,2,4,5-Tetrachlorobenzene	270 U	1200	270	1	08/26/25 15:57	8/25/25	
2-Methylnaphthalene	430 U	1200	430	1	08/26/25 15:57	8/25/25	
Acenaphthene	230 U	1200	230	1	08/26/25 15:57	8/25/25	
Acenaphthylene	250 U	1200	250	1	08/26/25 15:57	8/25/25	
Anthracene	210 U	1200	210	1	08/26/25 15:57	8/25/25	
Benz(a)anthracene	180 U	1200	180	1	08/26/25 15:57	8/25/25	
Benzo(a)pyrene	320 U	1200	320	1	08/26/25 15:57	8/25/25	
Benzo(b)fluoranthene	210 U	1200	210	1	08/26/25 15:57	8/25/25	
Benzo(g,h,i)perylene	280 U	1200	280	1	08/26/25 15:57	8/25/25	
1,4-Dichlorobenzene	210 U	1200	210	1	08/26/25 15:57	8/25/25	
Benzo(k)fluoranthene	200 U	1200	200	1	08/26/25 15:57	8/25/25	
Biphenyl	360 U	1200	360	1	08/26/25 15:57	8/25/25	
Chrysene	180 U	1200	180	1	08/26/25 15:57	8/25/25	
1,4-Dioxane	120 U	250	120	1	08/26/25 15:57	8/25/25	
Dibenz(a,h)anthracene	270 U	1200	270	1	08/26/25 15:57	8/25/25	
Dibenzofuran	220 U	1200	220	1	08/26/25 15:57	8/25/25	
Fluoranthene	310 U	1200	310	1	08/26/25 15:57	8/25/25	
Fluorene	230 U	1200	230	1	08/26/25 15:57	8/25/25	
Indeno(1,2,3-cd)pyrene	390 U	1200	390	1	08/26/25 15:57	8/25/25	
Naphthalene	230 U	1200	230	1	08/26/25 15:57	8/25/25	
Phenanthrene	180 U	1200	180	1	08/26/25 15:57	8/25/25	
Pyrene	210 U	1200	210	1	08/26/25 15:57	8/25/25	
2,3,4,6-Tetrachlorophenol	420 U	1200	420	1	08/26/25 15:57	8/25/25	
2,4,5-Trichlorophenol	300 U	1200	300	1	08/26/25 15:57	8/25/25	
2,4,6-Trichlorophenol	270 U	1200	270	1	08/26/25 15:57	8/25/25	
2,4-Dichlorophenol	240 U	1200	240	1	08/26/25 15:57	8/25/25	
2,4-Dimethylphenol	220 U	1200	220	1	08/26/25 15:57	8/25/25	
2,4-Dinitrophenol	2100 U	6200	2100	1	08/26/25 15:57	8/25/25	
2,4-Dinitrotoluene	470 U	1200	470	1	08/26/25 15:57	8/25/25	
2,6-Dinitrotoluene	270 U	1200	270	1	08/26/25 15:57	8/25/25	
2-Chloronaphthalene	250 U	1200	250	1	08/26/25 15:57	8/25/25	
2-Chlorophenol	210 U	1200	210	1	08/26/25 15:57	8/25/25	
2-Methylphenol	250 U	1200	250	1	08/26/25 15:57	8/25/25	
2-Nitroaniline	290 U	6200	290	1	08/26/25 15:57	8/25/25	
2-Nitrophenol	280 U	1200	280	1	08/26/25 15:57	8/25/25	
3,3'-Dichlorobenzidine	440 U	1200	440	1	08/26/25 15:57	8/25/25	
3- and 4-Methylphenol Coelution	240 U	1200	240	1	08/26/25 15:57	8/25/25	
3-Nitroaniline	250 U	6200	250	1	08/26/25 15:57	8/25/25	
4,6-Dinitro-2-methylphenol	680 U	6200	680	1	08/26/25 15:57	8/25/25	
4-Bromophenyl Phenyl Ether	320 U	1200	320	1	08/26/25 15:57	8/25/25	
4-Chloro-3-methylphenol	250 U	1200	250	1	08/26/25 15:57	8/25/25	
4-Chloroaniline	440 U	1200	440	1	08/26/25 15:57	8/25/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: 08/13/25 09:09
Date Received: 08/20/25 09:30

Sample Name: 11748 SB02 (3-4)
Lab Code: R2510164-002

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	260 U	1200	260	1	08/26/25 15:57	8/25/25	
4-Nitroaniline	260 U	6200	260	1	08/26/25 15:57	8/25/25	
4-Nitrophenol	630 U	6200	630	1	08/26/25 15:57	8/25/25	
Acetophenone	350 U	1200	350	1	08/26/25 15:57	8/25/25	
Atrazine	360 U	1200	360	1	08/26/25 15:57	8/25/25	
Benzaldehyde	300 U	6200	300	1	08/26/25 15:57	8/25/25	
Benzoic Acid	1900 U	6200	1900	1	08/26/25 15:57	8/25/25	
Bis(1-chloroisopropyl) Ether	250 U	1200	250	1	08/26/25 15:57	8/25/25	
Bis(2-chloroethoxy)methane	300 U	1200	300	1	08/26/25 15:57	8/25/25	
Bis(2-chloroethyl) Ether	240 U	1200	240	1	08/26/25 15:57	8/25/25	
Bis(2-ethylhexyl) Phthalate	220 U	1800	220	1	08/26/25 15:57	8/25/25	
Butyl Benzyl Phthalate	360 U	1200	360	1	08/26/25 15:57	8/25/25	
Caprolactam	270 U	1200	270	1	08/26/25 15:57	8/25/25	
Carbazole	200 U	1200	200	1	08/26/25 15:57	8/25/25	
Di-n-butyl Phthalate	200 U	1200	200	1	08/26/25 15:57	8/25/25	
Di-n-octyl Phthalate	420 U	1200	420	1	08/26/25 15:57	8/25/25	
Diethyl Phthalate	220 U	1200	220	1	08/26/25 15:57	8/25/25	
Dimethyl Phthalate	230 U	1200	230	1	08/26/25 15:57	8/25/25	
Hexachlorobenzene	290 U	1200	290	1	08/26/25 15:57	8/25/25	
Hexachlorobutadiene	430 U	1200	430	1	08/26/25 15:57	8/25/25	
Hexachlorocyclopentadiene	390 U	1200	390	1	08/26/25 15:57	8/25/25	
Hexachloroethane	230 U	1200	230	1	08/26/25 15:57	8/25/25	
Isophorone	260 U	1200	260	1	08/26/25 15:57	8/25/25	
N-Nitrosodi-n-propylamine	370 U	1200	370	1	08/26/25 15:57	8/25/25	
N-Nitrosodiphenylamine	760 U	1200	760	1	08/26/25 15:57	8/25/25	
Nitrobenzene	220 U	1200	220	1	08/26/25 15:57	8/25/25	
Pentachlorophenol (PCP)	1200 U	6200	1200	1	08/26/25 15:57	8/25/25	
Phenol	250 U	1200	250	1	08/26/25 15:57	8/25/25	
Pyridine	170 U	6200	170	1	08/26/25 15:57	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	69	18 - 104	08/26/25 15:57	
Nitrobenzene-d5	65	12 - 98	08/26/25 15:57	
p-Terphenyl-d14	95	26 - 134	08/26/25 15:57	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: 08/13/25 09:19
Date Received: 08/20/25 09:30

Sample Name: 11748 SB03 (5-6)
Lab Code: R2510164-003

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	230 U	1200	230	1	08/26/25 16:21	8/25/25	
1,2,4,5-Tetrachlorobenzene	270 U	1200	270	1	08/26/25 16:21	8/25/25	
2-Methylnaphthalene	430 U	1200	430	1	08/26/25 16:21	8/25/25	
Acenaphthene	230 U	1200	230	1	08/26/25 16:21	8/25/25	
Acenaphthylene	250 U	1200	250	1	08/26/25 16:21	8/25/25	
Anthracene	210 U	1200	210	1	08/26/25 16:21	8/25/25	
Benz(a)anthracene	180 U	1200	180	1	08/26/25 16:21	8/25/25	
Benzo(a)pyrene	330 U	1200	330	1	08/26/25 16:21	8/25/25	
Benzo(b)fluoranthene	210 U	1200	210	1	08/26/25 16:21	8/25/25	
Benzo(g,h,i)perylene	280 U	1200	280	1	08/26/25 16:21	8/25/25	
Benzo(k)fluoranthene	200 U	1200	200	1	08/26/25 16:21	8/25/25	
1,4-Dichlorobenzene	210 U	1200	210	1	08/26/25 16:21	8/25/25	
Biphenyl	360 U	1200	360	1	08/26/25 16:21	8/25/25	
Chrysene	180 U	1200	180	1	08/26/25 16:21	8/25/25	
Dibenz(a,h)anthracene	270 U	1200	270	1	08/26/25 16:21	8/25/25	
1,4-Dioxane	120 U	250	120	1	08/26/25 16:21	8/25/25	
Dibenzofuran	230 U	1200	230	1	08/26/25 16:21	8/25/25	
Fluoranthene	310 U	1200	310	1	08/26/25 16:21	8/25/25	
Fluorene	230 U	1200	230	1	08/26/25 16:21	8/25/25	
Indeno(1,2,3-cd)pyrene	390 U	1200	390	1	08/26/25 16:21	8/25/25	
Naphthalene	230 U	1200	230	1	08/26/25 16:21	8/25/25	
Phenanthrene	180 U	1200	180	1	08/26/25 16:21	8/25/25	
Pyrene	210 U	1200	210	1	08/26/25 16:21	8/25/25	
2,3,4,6-Tetrachlorophenol	430 U	1200	430	1	08/26/25 16:21	8/25/25	
2,4,5-Trichlorophenol	300 U	1200	300	1	08/26/25 16:21	8/25/25	
2,4,6-Trichlorophenol	270 U	1200	270	1	08/26/25 16:21	8/25/25	
2,4-Dichlorophenol	240 U	1200	240	1	08/26/25 16:21	8/25/25	
2,4-Dimethylphenol	220 U	1200	220	1	08/26/25 16:21	8/25/25	
2,4-Dinitrophenol	2100 U	6300	2100	1	08/26/25 16:21	8/25/25	
2,4-Dinitrotoluene	470 U	1200	470	1	08/26/25 16:21	8/25/25	
2,6-Dinitrotoluene	270 U	1200	270	1	08/26/25 16:21	8/25/25	
2-Chloronaphthalene	250 U	1200	250	1	08/26/25 16:21	8/25/25	
2-Chlorophenol	210 U	1200	210	1	08/26/25 16:21	8/25/25	
2-Methylphenol	260 U	1200	260	1	08/26/25 16:21	8/25/25	
2-Nitroaniline	290 U	6300	290	1	08/26/25 16:21	8/25/25	
2-Nitrophenol	290 U	1200	290	1	08/26/25 16:21	8/25/25	
3,3'-Dichlorobenzidine	450 U	1200	450	1	08/26/25 16:21	8/25/25	
3- and 4-Methylphenol Coelution	240 U	1200	240	1	08/26/25 16:21	8/25/25	
3-Nitroaniline	250 U	6300	250	1	08/26/25 16:21	8/25/25	
4,6-Dinitro-2-methylphenol	690 U	6300	690	1	08/26/25 16:21	8/25/25	
4-Bromophenyl Phenyl Ether	320 U	1200	320	1	08/26/25 16:21	8/25/25	
4-Chloro-3-methylphenol	250 U	1200	250	1	08/26/25 16:21	8/25/25	
4-Chloroaniline	450 U	1200	450	1	08/26/25 16:21	8/25/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: 08/13/25 09:19
Date Received: 08/20/25 09:30

Sample Name: 11748 SB03 (5-6)
Lab Code: R2510164-003

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	260 U	1200	260	1	08/26/25 16:21	8/25/25	
4-Nitroaniline	270 U	6300	270	1	08/26/25 16:21	8/25/25	
4-Nitrophenol	630 U	6300	630	1	08/26/25 16:21	8/25/25	
Acetophenone	350 U	1200	350	1	08/26/25 16:21	8/25/25	
Atrazine	370 U	1200	370	1	08/26/25 16:21	8/25/25	
Benzaldehyde	300 U	6300	300	1	08/26/25 16:21	8/25/25	
Benzoic Acid	2000 U	6300	2000	1	08/26/25 16:21	8/25/25	
Bis(1-chloroisopropyl) Ether	250 U	1200	250	1	08/26/25 16:21	8/25/25	
Bis(2-chloroethoxy)methane	300 U	1200	300	1	08/26/25 16:21	8/25/25	
Bis(2-chloroethyl) Ether	240 U	1200	240	1	08/26/25 16:21	8/25/25	
Bis(2-ethylhexyl) Phthalate	230 U	1800	230	1	08/26/25 16:21	8/25/25	
Butyl Benzyl Phthalate	360 U	1200	360	1	08/26/25 16:21	8/25/25	
Caprolactam	270 U	1200	270	1	08/26/25 16:21	8/25/25	
Carbazole	200 U	1200	200	1	08/26/25 16:21	8/25/25	
Di-n-butyl Phthalate	200 U	1200	200	1	08/26/25 16:21	8/25/25	
Di-n-octyl Phthalate	430 U	1200	430	1	08/26/25 16:21	8/25/25	
Diethyl Phthalate	220 U	1200	220	1	08/26/25 16:21	8/25/25	
Dimethyl Phthalate	240 U	1200	240	1	08/26/25 16:21	8/25/25	
Hexachlorobenzene	300 U	1200	300	1	08/26/25 16:21	8/25/25	
Hexachlorobutadiene	430 U	1200	430	1	08/26/25 16:21	8/25/25	
Hexachlorocyclopentadiene	390 U	1200	390	1	08/26/25 16:21	8/25/25	
Hexachloroethane	230 U	1200	230	1	08/26/25 16:21	8/25/25	
Isophorone	260 U	1200	260	1	08/26/25 16:21	8/25/25	
N-Nitrosodi-n-propylamine	380 U	1200	380	1	08/26/25 16:21	8/25/25	
N-Nitrosodiphenylamine	760 U	1200	760	1	08/26/25 16:21	8/25/25	
Nitrobenzene	220 U	1200	220	1	08/26/25 16:21	8/25/25	
Pentachlorophenol (PCP)	1300 U	6300	1300	1	08/26/25 16:21	8/25/25	
Phenol	250 U	1200	250	1	08/26/25 16:21	8/25/25	
Pyridine	170 U	6300	170	1	08/26/25 16:21	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	60	18 - 104	08/26/25 16:21	
Nitrobenzene-d5	59	12 - 98	08/26/25 16:21	
p-Terphenyl-d14	94	26 - 134	08/26/25 16:21	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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

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Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: 08/13/25 08:59
Date Received: 08/20/25 09:30

Sample Name: 11748 SB01 (1-2)
Lab Code: R2510164-001

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	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
4,4'-DDE	3.0	2.0	0.98	1	09/09/25 01:09	8/25/25	
4,4'-DDT	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
Aldrin	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
Chlordane	4.9 U	9.6	4.9	1	09/09/25 01:09	8/25/25	
Dieldrin	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
Endosulfan I	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
Endosulfan II	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
Endosulfan Sulfate	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
Endrin	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
Endrin Aldehyde	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
Endrin Ketone	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
Heptachlor	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
Heptachlor Epoxide	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
Methoxychlor	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
Toxaphene	23 U	38	23	1	09/09/25 01:09	8/25/25	
alpha-BHC	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
alpha-Chlordane	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
beta-BHC	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
delta-BHC	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
gamma-BHC (Lindane)	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	
gamma-Chlordane	0.98 U	2.0	0.98	1	09/09/25 01:09	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	74	10 - 159	09/09/25 01:09	
Tetrachloro-m-xylene	57	10 - 132	09/09/25 01:09	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: 08/13/25 09:09
Date Received: 08/20/25 09:30

Sample Name: 11748 SB02 (3-4)
Lab Code: R2510164-002

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
4,4'-DDE	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
4,4'-DDT	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
Aldrin	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
Chlordane	16 U	30	16	1	09/09/25 01:26	8/25/25	
Dieldrin	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
Endosulfan I	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
Endosulfan II	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
Endosulfan Sulfate	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
Endrin	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
Endrin Aldehyde	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
Endrin Ketone	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
Heptachlor	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
Heptachlor Epoxide	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
Methoxychlor	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
Toxaphene	70 U	120	70	1	09/09/25 01:26	8/25/25	
alpha-BHC	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
alpha-Chlordane	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
beta-BHC	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
delta-BHC	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
gamma-BHC (Lindane)	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	
gamma-Chlordane	3.1 U	6.2	3.1	1	09/09/25 01:26	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 159	09/09/25 01:26	
Tetrachloro-m-xylene	49	10 - 132	09/09/25 01:26	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: 08/13/25 09:19
Date Received: 08/20/25 09:30

Sample Name: 11748 SB03 (5-6)
Lab Code: R2510164-003

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	4.7 J	6.2	3.1	1	09/09/25 12:16	8/25/25	
4,4'-DDE	100	6.2	3.1	1	09/09/25 12:16	8/25/25	
4,4'-DDT	83	6.2	3.1	1	09/09/25 12:16	8/25/25	
Aldrin	3.1 U	6.2	3.1	1	09/09/25 12:16	8/25/25	
Chlordane	16 U	30	16	1	09/09/25 12:16	8/25/25	
Dieldrin	3.1 U	6.2	3.1	1	09/09/25 12:16	8/25/25	
Endosulfan I	3.1 U	6.2	3.1	1	09/09/25 12:16	8/25/25	
Endosulfan II	3.1 U	6.2	3.1	1	09/09/25 12:16	8/25/25	
Endosulfan Sulfate	3.1 U	6.2	3.1	1	09/09/25 12:16	8/25/25	
Endrin	3.1 U	6.2	3.1	1	09/09/25 12:16	8/25/25	
Endrin Aldehyde	3.1 U	6.2	3.1	1	09/09/25 12:16	8/25/25	
Endrin Ketone	3.1 U	6.2	3.1	1	09/09/25 12:16	8/25/25	
Heptachlor	3.1 U	6.2	3.1	1	09/09/25 12:16	8/25/25	
Heptachlor Epoxide	3.1 U	6.2	3.1	1	09/09/25 12:16	8/25/25	
Methoxychlor	3.1 U	6.2	3.1	1	09/09/25 12:16	8/25/25	
Toxaphene	70 U	120	70	1	09/09/25 12:16	8/25/25	
alpha-BHC	3.1 U	6.2	3.1	1	09/09/25 12:16	8/25/25	
alpha-Chlordane	8.7	6.2	3.1	1	09/09/25 12:16	8/25/25	
beta-BHC	3.1 U	6.2	3.1	1	09/09/25 12:16	8/25/25	
delta-BHC	3.1 U	6.2	3.1	1	09/09/25 12:16	8/25/25	
gamma-BHC (Lindane)	3.1 U	6.2	3.1	1	09/09/25 12:16	8/25/25	
gamma-Chlordane	5.9 J	6.2	3.1	1	09/09/25 12:16	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	80	10 - 159	09/09/25 12:16	
Tetrachloro-m-xylene	61	10 - 132	09/09/25 12:16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: 08/13/25 08:59
Date Received: 08/20/25 09:30

Sample Name: 11748 SB01 (1-2)
Lab Code: R2510164-001

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	20 U	38	20	1	08/29/25 23:06	8/25/25	
Aroclor 1221	31 U	78	31	1	08/29/25 23:06	8/25/25	
Aroclor 1232	23 U	38	23	1	08/29/25 23:06	8/25/25	
Aroclor 1242	20 U	38	20	1	08/29/25 23:06	8/25/25	
Aroclor 1248	21 U	38	21	1	08/29/25 23:06	8/25/25	
Aroclor 1254	20 U	38	20	1	08/29/25 23:06	8/25/25	
Aroclor 1260	20 U	38	20	1	08/29/25 23:06	8/25/25	
Aroclor 1262	20 U	38	20	1	08/29/25 23:06	8/25/25	
Aroclor 1268	20 U	38	20	1	08/29/25 23:06	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	72	10 - 138	08/29/25 23:06	
Tetrachloro-m-xylene	53	11 - 122	08/29/25 23:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: 08/13/25 09:09
Date Received: 08/20/25 09:30

Sample Name: 11748 SB02 (3-4)
Lab Code: R2510164-002

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	62 U	120	62	1	08/29/25 23:20	8/25/25	
Aroclor 1221	95 U	240	95	1	08/29/25 23:20	8/25/25	
Aroclor 1232	70 U	120	70	1	08/29/25 23:20	8/25/25	
Aroclor 1242	62 U	120	62	1	08/29/25 23:20	8/25/25	
Aroclor 1248	66 U	120	66	1	08/29/25 23:20	8/25/25	
Aroclor 1254	62 U	120	62	1	08/29/25 23:20	8/25/25	
Aroclor 1260	62 U	120	62	1	08/29/25 23:20	8/25/25	
Aroclor 1262	62 U	120	62	1	08/29/25 23:20	8/25/25	
Aroclor 1268	62 U	120	62	1	08/29/25 23:20	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	73	10 - 138	08/29/25 23:20	
Tetrachloro-m-xylene	47	11 - 122	08/29/25 23:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: 08/13/25 09:19
Date Received: 08/20/25 09:30

Sample Name: 11748 SB03 (5-6)
Lab Code: R2510164-003

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	63 U	120	63	1	08/29/25 23:33	8/25/25	
Aroclor 1221	96 U	250	96	1	08/29/25 23:33	8/25/25	
Aroclor 1232	70 U	120	70	1	08/29/25 23:33	8/25/25	
Aroclor 1242	63 U	120	63	1	08/29/25 23:33	8/25/25	
Aroclor 1248	66 U	120	66	1	08/29/25 23:33	8/25/25	
Aroclor 1254	63 U	120	63	1	08/29/25 23:33	8/25/25	
Aroclor 1260	63 U	120	63	1	08/29/25 23:33	8/25/25	
Aroclor 1262	63 U	120	63	1	08/29/25 23:33	8/25/25	
Aroclor 1268	63 U	120	63	1	08/29/25 23:33	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	85	10 - 138	08/29/25 23:33	
Tetrachloro-m-xylene	50	11 - 122	08/29/25 23:33	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: 08/13/25 08:59
Date Received: 08/20/25 09:30

Sample Name: 11748 SB01 (1-2)
Lab Code: R2510164-001

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	5.8 U	12	5.8	1	08/29/25 00:03	8/26/25	
2,4,5-TP	5.3 U	12	5.3	1	08/29/25 00:03	8/26/25	
2,4-D	7.6 U	12	7.6	1	08/29/25 00:03	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	35	10 - 151	08/29/25 00:03	

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Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: 08/13/25 09:09
Date Received: 08/20/25 09:30

Sample Name: 11748 SB02 (3-4)
Lab Code: R2510164-002

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	6.1 U	12	6.1	1	08/29/25 00:21	8/26/25	
2,4,5-TP	5.5 U	12	5.5	1	08/29/25 00:21	8/26/25	
2,4-D	7.9 U	12	7.9	1	08/29/25 00:21	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	43	10 - 151	08/29/25 00:21	

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Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: 08/13/25 09:19
Date Received: 08/20/25 09:30

Sample Name: 11748 SB03 (5-6)
Lab Code: R2510164-003

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	6.4 U	13	6.4	1	08/29/25 00:40	8/26/25	
2,4,5-TP	5.8 U	13	5.8	1	08/29/25 00:40	8/26/25	
2,4-D	8.3 U	13	8.3	1	08/29/25 00:40	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	72	10 - 151	08/29/25 00:40	



General Chemistry

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Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Sample Name: 11748 SB01 (1-2)
Lab Code: R2510164-001

Service Request: R2510164
Date Collected: 08/13/25 08:59
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	86.0	Percent	-	-	1	08/29/25 10:00	

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Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Sample Name: 11748 SB02 (3-4)
Lab Code: R2510164-002

Service Request: R2510164
Date Collected: 08/13/25 09:09
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	81.7	Percent	-	-	1	08/29/25 10:00	

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Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Sample Name: 11748 SB03 (5-6)
Lab Code: R2510164-003

Service Request: R2510164
Date Collected: 08/13/25 09:19
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	78.1	Percent	-	-	1	08/29/25 10:00	



QC Summary Forms

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Semivolatile Organic Compounds by GC/MS

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QA/QC Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164

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
11748 SB01 (1-2)	R2510164-001	63	63	78
11748 SB02 (3-4)	R2510164-002	69	65	95
11748 SB03 (5-6)	R2510164-003	60	59	94
Method Blank	RQ2511248-01	60	58	92
Lab Control Sample	RQ2511248-02	57	50	81
Duplicate Lab Control Sample	RQ2511248-03	71	61	104

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Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511248-01

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-Methylnaphthalene	61 U	330	61	1	08/26/25 13:09	8/25/25	
1,2,4,5-Tetrachlorobenzene	74 U	330	74	1	08/26/25 13:09	8/25/25	
2-Methylnaphthalene	120 U	330	120	1	08/26/25 13:09	8/25/25	
Acenaphthene	63 U	330	63	1	08/26/25 13:09	8/25/25	
Acenaphthylene	67 U	330	67	1	08/26/25 13:09	8/25/25	
Anthracene	55 U	330	55	1	08/26/25 13:09	8/25/25	
Benz(a)anthracene	49 U	330	49	1	08/26/25 13:09	8/25/25	
Benzo(a)pyrene	88 U	330	88	1	08/26/25 13:09	8/25/25	
Benzo(b)fluoranthene	55 U	330	55	1	08/26/25 13:09	8/25/25	
Benzo(g,h,i)perylene	76 U	330	76	1	08/26/25 13:09	8/25/25	
Benzo(k)fluoranthene	54 U	330	54	1	08/26/25 13:09	8/25/25	
1,4-Dichlorobenzene	55 U	330	55	1	08/26/25 13:09	8/25/25	
Biphenyl	98 U	330	98	1	08/26/25 13:09	8/25/25	
Chrysene	49 U	330	49	1	08/26/25 13:09	8/25/25	
1,4-Dioxane	32 U	67	32	1	08/26/25 13:09	8/25/25	
Dibenz(a,h)anthracene	72 U	330	72	1	08/26/25 13:09	8/25/25	
Dibenzofuran	60 U	330	60	1	08/26/25 13:09	8/25/25	
Fluoranthene	83 U	330	83	1	08/26/25 13:09	8/25/25	
Fluorene	62 U	330	62	1	08/26/25 13:09	8/25/25	
Indeno(1,2,3-cd)pyrene	110 U	330	110	1	08/26/25 13:09	8/25/25	
Naphthalene	62 U	330	62	1	08/26/25 13:09	8/25/25	
Phenanthrene	47 U	330	47	1	08/26/25 13:09	8/25/25	
Pyrene	55 U	330	55	1	08/26/25 13:09	8/25/25	
2,3,4,6-Tetrachlorophenol	120 U	330	120	1	08/26/25 13:09	8/25/25	
2,4,5-Trichlorophenol	82 U	330	82	1	08/26/25 13:09	8/25/25	
2,4,6-Trichlorophenol	74 U	330	74	1	08/26/25 13:09	8/25/25	
2,4-Dichlorophenol	64 U	330	64	1	08/26/25 13:09	8/25/25	
2,4-Dimethylphenol	59 U	330	59	1	08/26/25 13:09	8/25/25	
2,4-Dinitrophenol	560 U	1700	560	1	08/26/25 13:09	8/25/25	
2,4-Dinitrotoluene	130 U	330	130	1	08/26/25 13:09	8/25/25	
2,6-Dinitrotoluene	72 U	330	72	1	08/26/25 13:09	8/25/25	
2-Chloronaphthalene	66 U	330	66	1	08/26/25 13:09	8/25/25	
2-Chlorophenol	55 U	330	55	1	08/26/25 13:09	8/25/25	
2-Methylphenol	69 U	330	69	1	08/26/25 13:09	8/25/25	
2-Nitroaniline	78 U	1700	78	1	08/26/25 13:09	8/25/25	
2-Nitrophenol	77 U	330	77	1	08/26/25 13:09	8/25/25	
3,3'-Dichlorobenzidine	120 U	330	120	1	08/26/25 13:09	8/25/25	
3- and 4-Methylphenol Coelution	63 U	330	63	1	08/26/25 13:09	8/25/25	
3-Nitroaniline	67 U	1700	67	1	08/26/25 13:09	8/25/25	
4,6-Dinitro-2-methylphenol	190 U	1700	190	1	08/26/25 13:09	8/25/25	
4-Bromophenyl Phenyl Ether	87 U	330	87	1	08/26/25 13:09	8/25/25	
4-Chloro-3-methylphenol	67 U	330	67	1	08/26/25 13:09	8/25/25	
4-Chloroaniline	120 U	330	120	1	08/26/25 13:09	8/25/25	

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Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511248-01

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	08/26/25 13:09	8/25/25	
4-Nitroaniline	71 U	1700	71	1	08/26/25 13:09	8/25/25	
4-Nitrophenol	170 U	1700	170	1	08/26/25 13:09	8/25/25	
Acetophenone	95 U	330	95	1	08/26/25 13:09	8/25/25	
Atrazine	98 U	330	98	1	08/26/25 13:09	8/25/25	
Benzaldehyde	80 U	1700	80	1	08/26/25 13:09	8/25/25	
Benzoic Acid	520 U	1700	520	1	08/26/25 13:09	8/25/25	
Bis(1-chloroisopropyl) Ether	68 U	330	68	1	08/26/25 13:09	8/25/25	
Bis(2-chloroethoxy)methane	81 U	330	81	1	08/26/25 13:09	8/25/25	
Bis(2-chloroethyl) Ether	65 U	330	65	1	08/26/25 13:09	8/25/25	
Bis(2-ethylhexyl) Phthalate	61 U	500	61	1	08/26/25 13:09	8/25/25	
Butyl Benzyl Phthalate	96 U	330	96	1	08/26/25 13:09	8/25/25	
Caprolactam	73 U	330	73	1	08/26/25 13:09	8/25/25	
Carbazole	54 U	330	54	1	08/26/25 13:09	8/25/25	
Di-n-butyl Phthalate	54 U	330	54	1	08/26/25 13:09	8/25/25	
Di-n-octyl Phthalate	120 U	330	120	1	08/26/25 13:09	8/25/25	
Diethyl Phthalate	59 U	330	59	1	08/26/25 13:09	8/25/25	
Dimethyl Phthalate	63 U	330	63	1	08/26/25 13:09	8/25/25	
Hexachlorobenzene	79 U	330	79	1	08/26/25 13:09	8/25/25	
Hexachlorobutadiene	120 U	330	120	1	08/26/25 13:09	8/25/25	
Hexachlorocyclopentadiene	110 U	330	110	1	08/26/25 13:09	8/25/25	
Hexachloroethane	62 U	330	62	1	08/26/25 13:09	8/25/25	
Isophorone	69 U	330	69	1	08/26/25 13:09	8/25/25	
N-Nitrosodi-n-propylamine	110 U	330	110	1	08/26/25 13:09	8/25/25	
N-Nitrosodiphenylamine	210 U	330	210	1	08/26/25 13:09	8/25/25	
Nitrobenzene	59 U	330	59	1	08/26/25 13:09	8/25/25	
Pentachlorophenol (PCP)	330 U	1700	330	1	08/26/25 13:09	8/25/25	
Phenol	67 U	330	67	1	08/26/25 13:09	8/25/25	
Pyridine	45 U	1700	45	1	08/26/25 13:09	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	60	18 - 104	08/26/25 13:09	
Nitrobenzene-d5	58	12 - 98	08/26/25 13:09	
p-Terphenyl-d14	92	26 - 134	08/26/25 13:09	

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QA/QC Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Analyzed: 08/26/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511248-02					Duplicate Lab Control Sample RQ2511248-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	8270E	1710	3320	51	2040	3310	62	29-100	18	30
1,2,4,5-Tetrachlorobenzene	8270E	1740	3320	52	2130	3310	64	20-126	20	30
2-Methylnaphthalene	8270E	1620	3320	49	1950	3310	59	29-99	18	30
Acenaphthene	8270E	1970	3320	59	2430	3310	73	41-110	21	30
Acenaphthylene	8270E	2180	3320	66	2700	3310	81	44-122	21	30
Anthracene	8270E	2250	3320	68	2840	3310	86	41-123	23	30
Benz(a)anthracene	8270E	2330	3320	70	3020	3310	91	44-116	26	30
Benzo(a)pyrene	8270E	2640	3320	79	3380	3310	102	56-146	25	30
Benzo(b)fluoranthene	8270E	2200	3320	66	2840	3310	86	47-120	25	30
Benzo(g,h,i)perylene	8270E	2210	3320	67	2850	3310	86	41-129	25	30
Benzo(k)fluoranthene	8270E	2350	3320	71	3020	3310	91	49-124	25	30
1,4-Dichlorobenzene	8270E	1620	3320	49	1990	3310	60	16-83	20	30
Biphenyl	8270E	1810	3320	54	2190	3310	66	24-112	19	30
Chrysene	8270E	2350	3320	71	3060	3310	92	44-119	26	30
1,4-Dioxane	8270E	955	3320	29	1220	3310	37	10-58	24	30
Dibenz(a,h)anthracene	8270E	2340	3320	71	3030	3310	92	18-146	25	30
Dibenzofuran	8270E	2050	3320	62	2550	3310	77	43-113	22	30
Fluoranthene	8270E	2360	3320	71	2930	3310	89	39-128	22	30
Fluorene	8270E	2120	3320	64	2620	3310	79	40-117	21	30
Indeno(1,2,3-cd)pyrene	8270E	2450	3320	74	3180	3310	96	43-129	26	30
Naphthalene	8270E	1620	3320	49	1950	3310	59	31-93	18	30
Phenanthrene	8270E	2080	3320	63	2600	3310	79	39-120	22	30
Pyrene	8270E	2340	3320	70	2980	3310	90	45-125	24	30
2,3,4,6-Tetrachlorophenol	8270E	2490	3320	75	3230	3310	98	42-117	26	30
2,4,5-Trichlorophenol	8270E	2230	3320	67	2790	3310	84	40-114	23	30
2,4,6-Trichlorophenol	8270E	2070	3320	62	2620	3310	79	33-108	23	30
2,4-Dichlorophenol	8270E	1890	3320	57	2270	3310	69	30-103	18	30
2,4-Dimethylphenol	8270E	1860	3320	56	2260	3310	68	32-100	19	30
2,4-Dinitrophenol	8270E	1660 J	3320	50	2200	3310	66	10-97	28	30
2,4-Dinitrotoluene	8270E	2390	3320	72	3010	3310	91	53-120	23	30
2,6-Dinitrotoluene	8270E	2350	3320	71	2890	3310	87	48-119	21	30
2-Chloronaphthalene	8270E	1920	3320	58	2370	3310	72	33-103	21	30
2-Chlorophenol	8270E	1820	3320	55	2230	3310	67	26-90	20	30

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QA/QC Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Analyzed: 08/26/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511248-02					Duplicate Lab Control Sample RQ2511248-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2-Methylphenol	8270E	2020	3320	61	2460	3310	74	33-99	20	30
2-Nitroaniline	8270E	2200	3320	66	2720	3310	82	41-119	22	30
2-Nitrophenol	8270E	1720	3320	52	2110	3310	64	24-98	20	30
3- and 4-Methylphenol Coelution	8270E	2100	3320	63	2580	3310	78	32-100	20	30
3-Nitroaniline	8270E	1890	3320	57	2400	3310	72	29-105	24	30
4,6-Dinitro-2-methylphenol	8270E	2280	3320	69	2890	3310	87	20-105	23	30
4-Bromophenyl Phenyl Ether	8270E	2290	3320	69	2860	3310	86	37-116	22	30
4-Chloro-3-methylphenol	8270E	2070	3320	62	2480	3310	75	40-116	18	30
4-Chloroaniline	8270E	1760	3320	53	2260	3310	68	10-87	25	30
4-Chlorophenyl Phenyl Ether	8270E	2090	3320	63	2590	3310	78	42-111	21	30
4-Nitroaniline	8270E	1900	3320	57	2390	3310	72	43-120	22	30
4-Nitrophenol	8270E	1840	3320	55	2340	3310	71	34-116	24	30
Acetophenone	8270E	1750	3320	53	2110	3310	64	23-87	18	30
Benzoic Acid	8270E	1760	3320	53	2300	3310	70	10-126	27	30
Bis(1-chloroisopropyl) Ether	8270E	1910	3320	58	2330	3310	70	22-99	20	30
Bis(2-chloroethoxy)methane	8270E	1920	3320	58	2290	3310	69	38-119	18	30
Bis(2-chloroethyl) Ether	8270E	1760	3320	53	2160	3310	65	23-94	21	30
Bis(2-ethylhexyl) Phthalate	8270E	2530	3320	76	3190	3310	96	38-139	23	30
Butyl Benzyl Phthalate	8270E	2480	3320	75	3140	3310	95	40-134	24	30
Caprolactam	8270E	1970	3320	59	2310	3310	70	21-128	16	30
Carbazole	8270E	2310	3320	70	2860	3310	86	42-131	21	30
Di-n-butyl Phthalate	8270E	2570	3320	77	3210	3310	97	42-141	22	30
Di-n-octyl Phthalate	8270E	2570	3320	77	3300	3310	100	38-143	25	30
Diethyl Phthalate	8270E	2260	3320	68	2810	3310	85	43-118	22	30
Dimethyl Phthalate	8270E	2260	3320	68	2810	3310	85	40-118	21	30
Hexachlorobenzene	8270E	2260	3320	68	2790	3310	84	35-122	21	30
Hexachlorobutadiene	8270E	1620	3320	49	1970	3310	60	28-96	20	30
Hexachlorocyclopentadiene	8270E	1860	3320	56	2330	3310	71	10-111	23	30
Hexachloroethane	8270E	1650	3320	50	2060	3310	62	18-85	22	30
Isophorone	8270E	1940	3320	58	2320	3310	70	39-104	18	30
N-Nitrosodi-n-propylamine	8270E	1890	3320	57	2330	3310	70	30-98	21	30
N-Nitrosodiphenylamine	8270E	2490	3320	75	3060	3310	92	43-130	21	30
Nitrobenzene	8270E	1730	3320	52	2090	3310	63	31-99	19	30

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Superset Reference:25-0000743178 rev 00

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QA/QC Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Analyzed: 08/26/25

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

Units:ug/Kg
Basis:Dry

Analyte Name	Analytical Method	Result	Lab Control Sample		Duplicate Lab Control Sample		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount			
Pentachlorophenol (PCP)	8270E	2000	3320	60	2550	3310	36-138	24	30
Phenol	8270E	1900	3320	57	2330	3310	31-100	20	30
Pyridine	8270E	2750	6640	41	3520	6620	12-80	24	30



Semivolatile Organic Compounds by GC

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QA/QC Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164

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
11748 SB01 (1-2)	R2510164-001	74	57
11748 SB02 (3-4)	R2510164-002	78	49
11748 SB03 (5-6)	R2510164-003	80	61
Method Blank	RQ2511247-01	78	34
Lab Control Sample	RQ2511247-02	81	46
Duplicate Lab Control Sample	RQ2511247-03	78	42

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511247-01

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	09/08/25 21:38	8/25/25	
4,4'-DDE	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
4,4'-DDT	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Aldrin	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Chlordane	4.2 U	8.3	4.2	1	09/08/25 21:38	8/25/25	
Dieldrin	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Endosulfan I	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Endosulfan II	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Endosulfan Sulfate	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Endrin	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Endrin Aldehyde	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Endrin Ketone	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Heptachlor	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Heptachlor Epoxide	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Methoxychlor	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Toxaphene	19 U	33	19	1	09/08/25 21:38	8/25/25	
alpha-BHC	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
alpha-Chlordane	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
beta-BHC	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
delta-BHC	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
gamma-BHC (Lindane)	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
gamma-Chlordane	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 159	09/08/25 21:38	
Tetrachloro-m-xylene	34	10 - 132	09/08/25 21:38	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Analyzed: 09/08/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511247-02					Duplicate Lab Control Sample RQ2511247-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	5.27	6.62	80	5.47	6.61	83	48-121	4	30
4,4'-DDE	8081B	4.82	6.62	73	4.99	6.61	75	51-119	3	30
4,4'-DDT	8081B	5.80	6.62	88	5.66	6.61	86	51-126	2	30
Aldrin	8081B	4.02	6.62	61	4.07	6.61	62	45-109	1	30
Dieldrin	8081B	4.72	6.62	71	4.98	6.61	75	56-111	5	30
Endosulfan I	8081B	4.13	6.62	62	4.48	6.61	68	54-109	8	30
Endosulfan II	8081B	4.83	6.62	73	4.93	6.61	75	50-116	2	30
Endosulfan Sulfate	8081B	4.97	6.62	75	5.05	6.61	76	55-115	2	30
Endrin	8081B	4.91	6.62	74	5.11	6.61	77	49-124	4	30
Endrin Aldehyde	8081B	4.36	6.62	66	4.99	6.61	75	21-139	14	30
Endrin Ketone	8081B	5.56	6.62	84	5.56	6.61	84	50-124	<1	30
Heptachlor	8081B	4.20	6.62	64	4.26	6.61	64	43-115	1	30
Heptachlor Epoxide	8081B	4.60	6.62	69	4.94	6.61	75	53-113	7	30
Methoxychlor	8081B	6.09	6.62	92	6.42	6.61	97	47-141	5	30
alpha-BHC	8081B	3.91	6.62	59	3.86	6.61	58	44-109	1	30
alpha-Chlordane	8081B	4.64	6.62	70	4.76	6.61	72	52-114	3	30
beta-BHC	8081B	4.80	6.62	73	4.83	6.61	73	49-119	<1	30
delta-BHC	8081B	4.83	6.62	73	5.07	6.61	77	49-113	5	30
gamma-BHC (Lindane)	8081B	3.96	6.62	60	3.98	6.61	60	43-112	<1	30
gamma-Chlordane	8081B	4.75	6.62	72	4.87	6.61	74	51-117	2	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164

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
11748 SB01 (1-2)	R2510164-001	72	53
11748 SB02 (3-4)	R2510164-002	73	47
11748 SB03 (5-6)	R2510164-003	85	50
Method Blank	RQ2511247-01	70	32
Lab Control Sample	RQ2511247-04	79	44
Duplicate Lab Control Sample	RQ2511247-05	78	43

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511247-01

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	17 U	33	17	1	08/29/25 21:32	8/25/25	
Aroclor 1221	26 U	67	26	1	08/29/25 21:32	8/25/25	
Aroclor 1232	19 U	33	19	1	08/29/25 21:32	8/25/25	
Aroclor 1242	17 U	33	17	1	08/29/25 21:32	8/25/25	
Aroclor 1248	18 U	33	18	1	08/29/25 21:32	8/25/25	
Aroclor 1254	17 U	33	17	1	08/29/25 21:32	8/25/25	
Aroclor 1260	17 U	33	17	1	08/29/25 21:32	8/25/25	
Aroclor 1262	17 U	33	17	1	08/29/25 21:32	8/25/25	
Aroclor 1268	17 U	33	17	1	08/29/25 21:32	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	70	10 - 138	08/29/25 21:32	
Tetrachloro-m-xylene	32	11 - 122	08/29/25 21:32	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Analyzed: 08/29/25

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

Units:ug/Kg
Basis:Dry

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2511247-04			RQ2511247-05				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	109	165	66	110	167	66	34-141	<1	30
Aroclor 1260	8082A	138	165	83	133	167	80	30-158	3	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA
		10 - 151
11748 SB01 (1-2)	R2510164-001	35
11748 SB02 (3-4)	R2510164-002	43
11748 SB03 (5-6)	R2510164-003	72
Method Blank	RQ2511320-01	60
Lab Control Sample	RQ2511320-02	55
Duplicate Lab Control Sample	RQ2511320-03	61

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511320-01

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

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

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 11748_St Patrick
Sample Matrix: Soil

Service Request: R2510164
Date Analyzed: 08/28/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:Dry

Lab Control Sample					Duplicate Lab Control Sample					
RQ2511320-02					RQ2511320-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2,4,5-T	8151A	15.5	24.9	62	17.6	24.9	71	19-127	13	30
2,4,5-TP	8151A	13.3	24.9	53	15.6	24.9	63	18-122	16	30
2,4-D	8151A	12.0	24.9	48	13.9	24.9	56	31-119	15	30

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 11748_St Patrick
Matrix: Soil

Service Request: R2510164
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: RQ2511320-02

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	5.0	15.5	14.9	4		1	08/28/25 19:47
2,4,5-TP	4.5	13.3	13.6	2		1	08/28/25 19:47
2,4-D	6.5	12.0	13.8	14		1	08/28/25 19:47

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 11748_St Patrick
Matrix: Soil

Service Request: R2510164

Date Collected: NA

Date Received:

Sample Name: Duplicate Lab Control Sample

Lab Code: RQ2511320-03

Units: ug/Kg

Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A

Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	5.0	17.6	17.7	<1		1	08/28/25 20:05
2,4,5-TP	4.5	15.6	15.8	1		1	08/28/25 20:05
2,4-D	6.5	13.9	16.3	16		1	08/28/25 20:05



right solutions.
right partner.

October 20, 2025

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

Re: **DETR0060**

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

Work Order: **HN2515068**

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: HN2515068
Date Received: 10-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 10-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: HN2515068

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2515068-001	11748 St Patrick SB03 TCLP	SOIL/SOLID	10/09/25 11:52	10/10/25 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: HN2515068
Date Collected: 10/09/25 11:52
Date Received: 10/10/25 07:00

CLIENT ID: 11748 St Patrick SB03 TCLP

Lab ID: HN2515068-001

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 00:31	10/16/25 10:34
Chromium	EPA 6020B	<0.00610	U	mg/L	0.0499	1	10/17/25 00:31	10/16/25 10:34

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2278706

Work Order: HN2515068
Date Collected: NA
Date Received: NA
Run ID: 3595179

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2278706-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 00:06
Prep Date: 10/16/25 10:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	<0.00190	mg/L	0.0499							U
Chromium	<0.00610	mg/L	0.0499							U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2278706-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 00:08
Prep Date: 10/16/25 10:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	1.05	mg/L	0.0499	1		105	80-120			
Chromium	1.01	mg/L	0.0499	1		101	80-120			

The following samples were analyzed in this batch: HN2515068-001

ANALYST SUMMARY



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

Work Order: HN2515068

Sample Name: 11748 St Patrick SB03 TCLP
Laboratory Code: HN2515068-001
Sample Matrix: SOIL/SOLID

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

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AD	2278706	Chloe Patrick	3595179	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	11748 St. Patrick				A	TCLP Arsenic				
Work Order	Quote ID - 11631	Project Number	DETR0060				B	TCLP Chromium				
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group				C					
Send Report To	Ryan Montri	Invoice Attn.					D					
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road				E					
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188				F					
Phone	734-397-3100	Phone	734-397-3100				G					
Fax		Fax					H					
e-Mail Address	rmontri@mannaiksmithgroup.com	e-Mail Address					I					
								J				
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	J	Hold
1	11748 St Patrick SRO3 TCLP	10/9/25	11:52	Soil		2	X	X				
2												
3												
4												
5												
6												
7												
8												
9												
10												

Sampler(s): Please Print & Sign <i>Shannon Kaczmarek</i>		Shipment Method:	Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Results Due Date:
Relinquished by: <i>Shannon Kaczmarek</i>	Date: 10/9/25	Time: 1600	Received by: <i>[Signature]</i>	Notes: Q5 to Brillion H 0700	
Relinquished by: <i>[Signature]</i>	Date: 10/9/25	Time: 1700	Received by (Laboratory): <i>[Signature]</i>	QC Package (Check Box Below)	
Logged by (Laboratory): <i>BH</i>	Date: 10/10/25	Time: 1500	Checked by (Laboratory):	Cooler Temp. 127 1.9c	Level II: Standard QC
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035				Level III: Std QC + Raw Data	
				Level IV: SW846 CLP-Like	
				Other:	

Environmental Division
Holland
Work Order Reference
HN2515068

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: Buttany H

Date/Time: 10/10/25 0700

Carrier Name: Q5

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

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

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

Chain of Custody present? Yes / No

COC signed when relinquished and received? Yes / No

COC agrees with sample labels? Yes / No

Samples in proper container/bottle? Yes / No

Sample containers intact? Yes / No

Sufficient sample volume for indicated test? Yes / No

All samples received within holding time? Yes / No

Container/Temp Blank temperature in compliance? Yes / No

Temperature(s) (°C): 1.9/1.9

Thermometer(s): 187

Sample(s) received on ice? Yes / No

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 10/10/25 1500

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: