

DRAFT

FILL MATERIAL SAMPLING REPORT

5242 BEWICK STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48213



NOVEMBER 19, 2025
REVISED DECEMBER 12, 2025

PREPARED FOR:

THE CITY OF DETROIT DEMOLITION DEPARTMENT

1301 THIRD STREET, SUITE 606

DETROIT, MICHIGAN 48226



FILL MATERIAL SAMPLING REPORT

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DETROIT, WAYNE COUNTY, MICHIGAN 48213

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EXECUTIVE SUMMARY

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to perform sampling and analysis of fill materials at the property commonly addressed as 5242 Bewick Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location, as referenced to nearby roads and major geographic features, is shown on Figure 1, *Site Location Map*. Figure 2, *Site Layout*, depicts the current layout of the Site.

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

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

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

- The stratigraphy encountered during soil boring advancement of 5242 SB01, 5242 SB02, and 5242 SB03 generally consisted of stratified gray and brown silty clay and clayey silt 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 1.1 parts per million (ppm). There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, brick and concrete debris was observed in 5242 SB01 and 5242 SB03.
- Concentrations of arsenic and chromium (Total) were detected in soil samples 5242 SB01 (1-2'), 5242 SB02 (5-6'), and/or 5242 SB03 (3-4') in excess of their respective Part 201 drinking water protection criteria (DWPC) and/or groundwater surface water interface protection criteria (GSIPC).
- Concentrations of tetrachloroethylene were detected in soil sample 5242 SB02 (5-6') in excess of its respective soil volatilization to indoor air pathway (SVIAP) and recommended interim action screening levels (RIASL).
- Concentrations of 1,2,4-trimethylbenzene, 4,4-DDD, 4,4-DDE, 4,4-DDT, barium, chloride, copper, fluoranthene, lead, mercury, tetrachloroethylene, and zinc were detected in the soil sample 5242 SB01 (1-2'), 5242 SB02 (5-6'), 5242 SB03 (3-4'), and/or 5242 Bewick SB03 (3-4')-R at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- Toxicity Characteristic Leaching Procedure (TCLP) laboratory analytical results revealed that concentrations of arsenic, chromium, and pesticides 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*.
- PCBs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable.

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

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

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

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 5242 Bewick Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location as referenced to nearby roads and major geographic features is presented as *Figure 1, Site Location Map*. *Figure 2, Site Layout*, depicts the current layout of the Site.

The purpose of this work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths. The scope of work for this investigation was performed in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. This report presents the findings of this investigation. Soil samples were collected by MSG on August 14, 2025, October 13, 2025, and October 27, 2025. The findings of this report are valid as of the report date, subject to the limitations presented in *Appendix A, Limitations*.

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

2.0 PURPOSE AND SCOPE OF WORK

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

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

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

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

3.0 SITE ASSESSMENT METHODOLOGY

The following subsections describe the methodologies employed by MSG at the Site during sampling activities that were conducted on August 14, 2025, October 13, 2025, and October 27, 2025. Daily field activity reports prepared by MSG are presented in *Appendix B, Daily Field Reports*.

3.1 Preliminary Site Work Activities

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

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

3.2 Soil Sample Collection

The sampling plan for the Site was based on the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and modified in the field (if necessary) based on encountered conditions and professional judgment of MSG's field personnel. MSG advanced three (3) initial soil borings, designated 5242 SB01, 5242 SB02, and 5242 SB03, using a direct push drill rig at the locations depicted on Figure 2. Photographs collected during completion of this work are provided in *Appendix C, Investigation Photographs*.

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

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

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

3.3 Toxicity Characteristic Leaching Procedure (TCLP) Soil Sample Collection

On October 13, 2025, MSG mobilized to the Site to collect an additional soil sample based on request from the COD. Sample location and analyte(s) were based on the laboratory results of the initial soil investigation. MSG personnel advanced one soil boring in the immediate vicinity of the soil boring location that exhibited the highest laboratory result(s) in excess of Part 201 GRCC. Soils were continuously profiled from the ground surface to the termination depth of six feet bgs utilizing a direct push drill rig. These soils were homogenized in a stainless-steel bowl (or equivalent) to produce a single, composite soil sample. The composite soil sample was placed into unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses.

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

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

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

3.4 Decontamination

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

3.5 Analytical Methods

Five (5) soil samples, designated 5242 SB01 (1-2'), 5242 SB02 (5-6'), 5242 SB03 (3-4'), 5242 Bewick SB03 (3-4')-R, and 5242 Bewick, were collected as part of this investigation. These soil samples were submitted to ALS Environmental Laboratory (ALS) in Holland, Michigan for laboratory analysis of the following parameters per the requested parameters as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and individual TCLP analysis:

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

3.6 Quality Assurance/Quality Control

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

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

4.0 SUMMARY OF RESULTS

The following subsections include a discussion of the soil samples that were collected from the Site on August 14, 2025, October 13, 2025, and October 27, 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 5242 SB01, 5242 SB02, and 5242 SB03 generally consisted of stratified gray and brown silty clay and clayey silt to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 1.1 parts ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination

observed during soil sampling activities, however, brick and concrete were observed in 5242 SB01 and 5242 SB03.

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

4.2 Soil Sample Analytical Results

Four (4) soil samples, designated 5242 SB01 (1-2'), 5242 SB02 (5-6'), 5242 SB03 (3-4'), and 5242 Bewick SB03 (3-4')-R were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and/or pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration ($\mu\text{g}/\text{kg}^1$)	Maximum Detected Concentration ($\mu\text{g}/\text{kg}$)
Arsenic	7440-38-2	5242 SB01 (1-2') 5242 SB03 (3-4')	DWPC ² / 4,600 GSIPC ³ / 4,600	6,640
Chromium (Total)	7440-47-3	5242 SB01 (1-2') 5242 SB02 (5-6')	GSIPC / 3,300	25,600

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

²DWPC – Drinking Water Protection Criteria

³GSIPC – Groundwater Surface Water Interface Protection Criteria

4.3 TCLP Analytical Results

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

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

4.4 Exposure Evaluation

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

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

5.0 FINDINGS

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

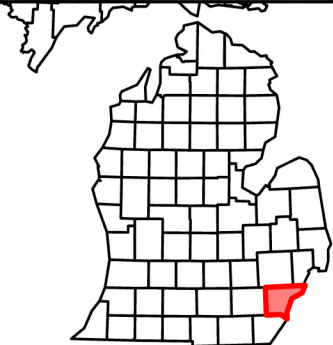
- The stratigraphy encountered during soil boring advancement of 5242 SB01, 5242 SB02, and 5242 SB03 generally consisted of stratified gray and brown silty clay and clayey silt to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 1.1 parts ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, brick and concrete were observed in 5242 SB01 and 5242 SB03.
- Concentrations of arsenic and chromium (Total) were detected in soil samples 5242 SB01 (1-2'), 5242 SB02 (5-6'), and/or 5242 SB03 (3-4') in excess of their respective Part 201 DWPC and/or GSIPC.
- Concentrations of tetrachloroethylene were detected in soil sample 5242 SB02 (5-6') in excess of its respective soil volatilization to indoor air pathway (SVIAP) and recommended interim action screening levels (RIASL).
- Concentrations of 1,2,4-trimethylbenzene, 4,4-DDD, 4,4-DDE, 4,4-DDT, barium, chloride, copper, fluoranthene, lead, mercury, tetrachloroethylene, and zinc were detected in the soil sample 5242 SB01 (1-2'), 5242 SB02 (5-6'), 5242 SB03 (3-4'), and/or 5242 Bewick SB03 (3-4')-R at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- TCLP laboratory analytical results revealed that concentrations of arsenic, chromium, and pesticides 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*.
- PCBs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the DW exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Since the building on site has been razed, the SVIAP is not currently complete; however, consideration may need to be given to this pathway if future construction is planned.

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

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

FIGURES





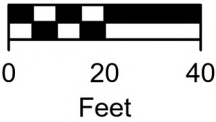
★ Site Location



FIGURE 1
SITE LOCATION

5242 Bewick, 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

5242 Bewick, 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
5242 Bewick, 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		
	Tetrachloroethylene	1,2,4-Trimethylbenzene	Fluoranthene	Arsenic	Barium (B)	Cadmium (B)	Chromium (Total)	Copper (B)	Lead (B)	Mercury (B,Z)	Selenium (B)	Silver (B)	Zinc (B)	4,4'-DDD	4,4'-DDE	4,4'-DDT		Chloride		
CAS Number	127-18-4	95-63-6	206-44-0	7440-38-2	7440-39-3	7440-43-9	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7782-49-2	7440-22-4	7440-66-6	72548	72559	50-29-3	16887006			
Statewide Default Background Levels	NA	NA	NA	5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000	NA	NA	NA	NA			
Drinking Water Protection Criteria (DWPC)	100	2,100	7.3E+05	4,600	1.3E+06	6,000	30,000	5.8E+06	7.0E+05	1,700	4,000	4,500	2.4E+06	NLL	NLL	NLL	5.00E+06			
Groundwater Surface Water Interface Protection Criteria (GSIPC)	1,200 (X)	570	5,500	4,600	(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27	(G)	NLL	NLL	NLL	(X)			
Soil Volatilization to Indoor Air Inhalation (SVIIC)	11,000	4.3E+6 (C)	1.0E+09 (D)	NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV	NLV	NLV	NLV	NLV			
Soil Volatilization to Indoor Air Pathway (SVIAP)	6.2 (M) (EE)	150 (JT)	NA	NA	NA	NA	--	NA	NA	22 (M)	NA	NA	NA	NLV	NA	--	--			
Infinite Source Volatile Soil Inhalation Criteria (VSIC)	1.7E+05	2.1E+07	7.4E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV	NLV			
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)	4.8E+05	5.0E+08	7.4E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV	NLV			
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)	1.1E+06	5.0E+08	7.4E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV	NLV			
Particulate Soil Inhalation Criteria (PSIC)	2.7E+09	8.2E+10	9.3E+09	7.2E+05	3.3E+08	1.7E+06	2.6E+05	1.3E+08	1.0E+08	2.0E+07	1.3E+08	6.7E+06	ID	4.4E+07	3.20E+07	3.20E+07	ID			
Direct Contact Criteria (DCC)	2.0E+05 (C)	3.2E+07 (C)	4.6E+07	7,600	3.7E+07	5.5E+05	2.5E+06	2.0E+07	4.0E+05	1.6E+05	2.6E+06	2.5E+06	1.7E+08	95,000	45,000	57,000	5.0E+5 (F)			
Soil Saturation Concentration Screening Levels (C _{sat})	88,000	1.1E+05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Recommended Interim Action Screening Level (RIASL)	6.2 (M)	150	NA	NA	NA	NA	NA	NA	NA	2.7E-02	NA	NA	NA	NA	NA	--	--			
SAMPLE ID	DEPTH (ft)	SAMPLE DATE																		
5245 SB01	1-2	8/14/2025	<33.2	<33.2	<1,100	5,940	72,900	<1,290	18,700	17,000	22,000	111	<3,220	<3,220	60,300	<5.7	44	7.1	ND	50,600
5242 SB02	5-6	8/14/2025	50.8	42.9	<5,600	5,330	50,900	<1,320	25,600	15,800	34,000	46	<3,300	<3,300	73,200	<5.8	22	<5.8	ND	59,300
5242 SB03	3-4	8/14/2025	<35.4	<35.4	<5,700	6,640	59,800	<1,300	17,700	15,800	19,200	21.6	<3,250	<3,250	54,100	6.8	28	7.6	ND	66,500
5242 Bewick SB03 - R	3-4	10/27/2025	NS	NS	15.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<184	<189	<191	NS	NS

Notes:
Bold indicates concentration above laboratory reporting limits.
Exceeds DWPC
Exceeds GSIPC
Exceeds Applicable Soil Vapor Inhalation screening level
Exceeds Two or More DWPC, GSIPC, and/or Applicable Soil Vapor Inhalation screening levels
Exceeds PSIC, DCC, and/or Csat, likely exceeds others
ND = Not Detected above laboratory reporting limits
NS = Not Sampled or Not Analyzed
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

Table 2
TCLP Analytical Detection Summary

Detroit Backfill Sampling
5242 Bewick, 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		TCLP Pesticides						
		Arsenic	Chromium	Chlordane, Technical	Endrin	Lindane	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
Maximum Concentration of Contaminants for the Toxicity Characteristic		5.00	5.00	-	0.002	0.4	0.008	0.008	10.0	0.5
SAMPLE ID	SAMPLE DATE									
5242 Bewick	10/13/2025	<0.00190	<0.00610	NS	NS	NS	NS	NS	NS	NS
5242 Bewick SB03 (3-4')-R	10/27/2025	NS	NS	0.0000338	0.00000846	0.00000827	0.00000756	0.00000789	0.00000983	0.000109

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

APPENDIX A

LIMITATIONS



LIMITATIONS

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

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

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

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

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

APPENDIX B

DAILY FIELD REPORTS





DAILY FIELD REPORT

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

Report No.: 1
Job No.: DETR0060

Date: <u>08/14/2025</u>	Day: <u>Thursday</u>	Temp: <u>77° F</u> (AM) <u>N/A</u> (PM)
MSG Personnel: <u>WRD, ZRG, JDF</u>	Cloud Cover: <u>0%</u> (AM) <u>N/A</u> (PM)	Precip.: <u>None</u> (AM) <u>N/A</u> (PM)
Personnel: <u>MSG</u>		
MSG Hours On-Site: <u>0.75 hours</u>		

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

Summary of Work Performed:
- Advanced three (3) onsite soil borings to a maximum depth of 6 feet below ground surface (bgs) - Collected soil samples from each soil boring (from the interval with the greatest potential to be impacted based on field indicators).

Field Notes:
1034 – ZRG & WRD onsite (5242 Bewick St) 1035 – Unloaded equipment and checked boring locations 1038 – Began drilling SB01 1044 – Finished drilling SB01 1045 – Began drilling SB02 1051 – Finished drilling SB02 1052 – Began drilling SB03 1057 – Finished drilling SB03 1105 – Sampled 5242 SB01 (1-2') 1110 – Sampled 5242 SB02 (5-6') 1115 – Sampled 5242 SB03 (3-4') 1117 – Packed up equipment 1119 – MSG off site

Supporting Documentation					
Photograph Taken	Yes ☐	No ☒	Samples Collected	Yes ☒	No ☐
Photo Log Attached	Yes ☐	No ☒	COC Attached	Yes ☒	No ☐
			Boring/MW Logs	Yes ☒	No ☐
			Field Note Book Taken	Yes ☐	No ☒

Problem Identification and Corrective Measures	
<u>N/A</u>	
Resolved?	Yes ☐ No ☐

**DAILY FIELD REPORT**

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

Report No.: 2
Job No.: DETR0060

Date: 10/13/2025	Day: Monday	Temp: N/A (AM) 70 ° F (PM)
MSG Personnel: SRK, JF, EB	Cloud Cover: N/A (AM) 0% (PM)	Precip.: N/A (AM) N/A (PM)
Personnel: MSG		
MSG Hours On-Site: ~ 1 hours		
Contractors Information		
Contractor: MSG	No. Men and Type: 3; Operator/Geologist	Equipment Type: Geoprobe 7822DT
Summary of Work Performed:		
- Advanced one (1) onsite soil borings to a maximum depth of 6 feet below ground surface (bgs) - Collected TCLP of fill material from soil boring (composite sample of from zero to 6 feet bgs).		
Field Notes:		
1410 – MSG (SRK, JF) onsite (5242 Bewick) 1412 – Attempted to locate previous boring locations. Marked out new boring location. 1419 – Began drilling SB02 TCLP 1421 – Finished drilling SB02 TCLP 1427 – Sampled 5242 Bewick SB02 TCLP 1435 – Collected GPS points 1435 – EB onsite 1445 – EB gave SRK soil samples and COCs 1450 – Packed up equipment 1500 – MSG off site		

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

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

Date: 10/27/2025	Day: Monday	Temp: 56 ° F	(AM)	N/A	(PM)
MSG Personnel: WRD, BSM		Cloud Cover: 0%	(AM)	N/A	(PM)
		Precip.: N/A	(AM)	N/A	(PM)
Personnel: MSG					
MSG Hours On-Site: ~ 0.5 hours					
Contractors Information					
Contractor: MSG		No. Men and Type: 2; Operator/Geologist		Equipment Type: Geoprobe 7822DT	
Summary of Work Performed:					
- Advanced one (1) onsite soil borings to a maximum depth of 4 feet below ground surface (bgs) - Collected soil sample from soil boring (from the interval 3-4' to analyze for Pesticides, Herbicides, & SVOCs).					
Field Notes:					
1302 – MSG (WRD, BSM) onsite (5242 Bewick) 1308 – Attempted to locate previous boring locations. Marked out new boring location. 1311 – Began drilling SB03 (3-4')-R 1315 – Finished drilling SB03 (3-4')-R 1317– Sampled 5242 Bewick SB03 (3-4')-R 1324 – Packed up equipment 1332 – MSG off site					

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

APPENDIX C

INVESTIGATION PHOTOGRAPHS





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



Photo 2: View of TCLP soil boring location



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



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



Photo 5: View of soil recovery at the time of TCLP sampling



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



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



Photo 8: Viewing soil recovery at the time of supplemental soil sampling activities



Photo 9: Viewing soil boring location at the time of supplemental soil sampling activities

APPENDIX D

SOIL BORING LOGS





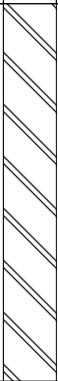
The Mannik & Smith Group, Inc.
2365 Haggerty Road South, Canton, MI 48188
ph: (734) 397-3100 fax: (734) 397-3131
www.manniksmithgroup.com

BOREHOLE NUMBER SB01

Sheet 1 of 1

CLIENT City of Detroit
PROJECT NUMBER DETR0060.BFS22
DATE STARTED 08-14-2025 **COMPLETED** 08-14-2025
DRILLING CONTRACTOR MSG
DRILLING METHOD Direct Push
EQUIPMENT Geoprobe 7822DT **Operator** JDF

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 5242 Bewick, Detroit, MI
POSITION
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
LOGGED BY WRD **CHECKED BY** PDH
REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
5	ES	67		Repeating layers of [Brown & Gray Mottled CLAY] & [Brown Clayey SILT, trace Brick & Concrete] transitioning back and forth about every 1", 0-6 ft bgs	0.8 0.8 0.8 0.8 0.5 0.2	Collected soil sample 5242 SB01 (1-2) at 11:05
6.0				Terminated at 6.00 ft.		
10						
15						
20						

LEGEND:

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



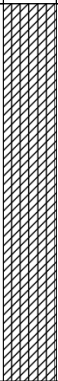
The Mannik & Smith Group, Inc.
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ph: (734) 397-3100 fax: (734) 397-3131
www.manniksmithgroup.com

BOREHOLE NUMBER SB02

Sheet 1 of 1

CLIENT City of Detroit
PROJECT NUMBER DETR0060.BFS22
DATE STARTED 08-14-2025 **COMPLETED** 08-14-2025
DRILLING CONTRACTOR MSG
DRILLING METHOD Direct Push
EQUIPMENT Geoprobe 7822DT **Operator** JDF

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 5242 Bewick, Detroit, MI
POSITION
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
LOGGED BY WRD **CHECKED BY** PDH
REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
5	ES	67		Gray Silty CLAY, some gravel and trace Brick Debris; dry	0.5 0.5 0.9 1.1 1.1 1.1	Collected soil sample 5242 SB02 (5-6) at 11:10
6.0				Terminated at 6.00 ft.		
10						
15						
20						

LEGEND:

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



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

BOREHOLE NUMBER SB03

Sheet 1 of 1

CLIENT City of Detroit
PROJECT NUMBER DETR0060.BFS22
DATE STARTED 08-14-2025 **COMPLETED** 08-14-2025
DRILLING CONTRACTOR MSG
DRILLING METHOD Direct Push
EQUIPMENT Geoprobe 7822DT **Operator** JDF

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 5242 Bewick, Detroit, MI
POSITION
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
LOGGED BY WRD **CHECKED BY** PDH
REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
				Brown & Gray Mottled CLAY; dry	0.0	
					0.4	
				2.5	0.6	
	ES	67		Gray CLAY, trace coarse Sand; moist	0.8	Collected soil sample 5242 SB03 (3-4) at 11:15
5					0.5	
					0.3	
				6.0		
				Terminated at 6.00 ft.		
10						
20						

LEGEND:

▽ AT TIME OF DRILLING

▼ AT END OF DRILLING

▽ AFTER DRILLING

APPENDIX E
LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

CERTIFICATE OF ANALYSIS

Work Order

HN2511553

Client

The Mannik & Smith Group, Inc.

Project

5242 Bewick

Project Date

August 15, 2025

Reporting Contact

Ryan Montri



right solutions.
right partner.

September 09, 2025

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

Work Order: **HN2511553**

Re: **5242 Bewick**

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: 5242 Bewick

Work Order: HN2511553
Date Received: 15-Aug-2025

CASE NARRATIVE

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

Sample Receipt

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

Metals

EPA 6020B-3050B-S

Run ID: 3418166

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

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

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

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

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

HN2511553-003: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511553-003: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511553-003: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

Run ID: 3418159

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

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

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

HN2511553-001: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511553-001: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511553-001: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

Run ID: 3418159

HN2511553-002: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes.

Cd, Se, Ag

HN2511553-002: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd,

Se, Ag

HN2511553-002: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes.

Cd, Se, Ag

Inorganics

EPA 9056A-S (High)

Run ID: 3416753

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

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

Organics

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

Run ID: 3438666

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

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

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: 5242 SB01 (1-2)	Lab ID: HN2511553-001
-----------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	5.94		3.22	mg/kg	EPA 6020B
Barium	72.9		3.22	mg/kg	EPA 6020B
Chloride	50.6		11.8	mg/kg	EPA 9056A
Chromium	18.7		3.22	mg/kg	EPA 6020B
Copper	17.0		3.22	mg/kg	EPA 6020B
Lead	22.0		3.22	mg/kg	EPA 6020B
Mercury	0.111		0.0200	mg/kg	EPA 7471B
Percent Moisture	14.0		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	60.3		6.44	mg/kg	EPA 6020B

CLIENT ID: 5242 SB02 (5-6)	Lab ID: HN2511553-002
-----------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
1,2,4-Trimethylbenzene	42.9		36.7	µg/kg	EPA 8260D
Arsenic	5.33		3.30	mg/kg	EPA 6020B
Barium	50.9		3.30	mg/kg	EPA 6020B
Chloride	59.3	S	11.8	mg/kg	EPA 9056A
Chromium	25.6		3.30	mg/kg	EPA 6020B
Copper	15.8		3.30	mg/kg	EPA 6020B
Lead	34.0		3.30	mg/kg	EPA 6020B
Mercury	0.0460		0.0200	mg/kg	EPA 7471B
Percent Moisture	15.1		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Tetrachloroethylene (Perchloroethylene)	50.8		36.7	µg/kg	EPA 8260D
Zinc	73.2		6.61	mg/kg	EPA 6020B

CLIENT ID: 5242 SB03 (3-4)	Lab ID: HN2511553-003
-----------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	6.64		3.25	mg/kg	EPA 6020B
Barium	59.8		3.25	mg/kg	EPA 6020B
Chloride	66.5		11.8	mg/kg	EPA 9056A
Chromium	17.7	S	3.25	mg/kg	EPA 6020B
Copper	15.8		3.25	mg/kg	EPA 6020B
Lead	19.2	S	3.25	mg/kg	EPA 6020B
Mercury	0.0216		0.0209	mg/kg	EPA 7471B

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: 5242 SB03 (3-4)			Lab ID: HN2511553-003		
Analyte	Results	Flag	MRL	Units	Method
Percent Moisture	15.1		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	54.1		6.49	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 5242 Bewick
Workorder: HN2511553

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511553-001	5242 SB01 (1-2)	SOIL/SOLID	08/14/25 11:05	08/15/25 08:00
HN2511553-002	5242 SB02 (5-6)	SOIL/SOLID	08/14/25 11:10	08/15/25 08:00
HN2511553-003	5242 SB03 (3-4)	SOIL/SOLID	08/14/25 11:15	08/15/25 08:00



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information					Parameter/Method Request for Analysis										
Purchase Order		Project Name	5242 Bewick					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)									
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188					F Pesticides (U.S. EPA Method 8081B (or Method 8081))									
Phone	734-397-3100	Phone	734-397-3100					G Herbicides (U.S. EPA Method 8151A (or Method 8151))									
Fax		Fax						H									
e-Mail Address	RMontri@manniksmithgroup.com	e-Mail Address						I									
								J									

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	5242 SB01 (1 - 2)	8/14/25	1105	Soil	MGTH	3	X	X	X	X	X	X	X				
2	5242 SB02 (5 - 6)	1	1110	Soil	1	3	X	X	X	X	X	X	X				
3	5242 SB03 (3 - 4)	1	1115	Soil	1	3	X	X	X	X	X	X	X				
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Environmental Division
Holland
Work Order Reference
HN2511553

Telephone : +1 616 399 6070

Sampler(s): Please Print & Sign WILEY DAVENPORT		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Results Due Date:	
Relinquished by: WILEY	Date: 8/14/25	Time: 1420	Received by: Mark		Notes: Quote# HN-061825-M&S-MA		
Relinquished by: [Signature]	Date: 8/14/25	Time: 1700	Received by (Laboratory): [Signature]		Cooler Temp. 2.1°C		
Logged by (Laboratory): BC	Date: 8/15/25	Time: 12:45	Checked by (Laboratory): [Signature]		QC Package: (Check Box Below)		
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035					☐ Level II: Standard QC		TRRP-Checklist
					☐ Level III: Std QC + Raw Data		TRRP Level IV
					☐ Level IV: SW846 CLP-Like		
					Other: _____		

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Please click the link below for detailed Terms & Conditions:
<https://www.alsglobal.com/ALSGroupUSACorpTC>
ALS copyright © 2024. All rights reserved.



ALS Holland Sample Receiving Checklist

Received by: BC

Date/Time: 8/15/25 08:00

Carrier Name: QS

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

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

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

Chain of Custody present? Yes / No

COC signed when relinquished and received? Yes / No

COC agrees with sample labels? Yes / No

Samples in proper container/bottle? Yes / No

Sample containers intact? Yes / No

Sufficient sample volume for indicated test? Yes / No

All samples received within holding time? Yes / No

Container/Temp Blank temperature in compliance? Yes / No

Temperature(s) (°C): 2.1°C

Thermometer(s): TP6

Sample(s) received on ice? Yes / No

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 8/15/25 12:50

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: 5242 Bewick

Work Order: HN2511553

Sample Name: 5242 SB01 (1-2) **Date Collected:** 08/14/25
Laboratory Code: HN2511553-001 **Date Received:** 08/15/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2172988		3420581	Everett Chudy
EPA 6020B	EPA 3050B	001-AC	2170128	Weston Kotecki	3418159	Hunter Johnson
EPA 7471B	Method	001-AC	2172932	Maxx Richey	3422787	Denise Coffey
EPA 8081B		001-AD			3475767	Bill Carey
EPA 8082A		001-AD			3475767	Bill Carey
EPA 8151A		001-AD			3475767	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2162930	Jonathan Vazquez	3438666	Nathan Jenkins
EPA 8270E		001-AD			3475767	Bill Carey
EPA 9056A	EPA 9056A	001-AC	2166599	Quoc Nguyen	3412595	Riley Miller

Sample Name: 5242 SB02 (5-6) **Date Collected:** 08/14/25
Laboratory Code: HN2511553-002 **Date Received:** 08/15/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2172988		3420581	Everett Chudy
EPA 6020B	EPA 3050B	002-AC	2170128	Weston Kotecki	3418159	Hunter Johnson
EPA 7471B	Method	002-AC	2172932	Maxx Richey	3422787	Denise Coffey
EPA 8081B		002-AD			3475767	Bill Carey
EPA 8082A		002-AD			3475767	Bill Carey
EPA 8151A		002-AD			3475767	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2162930	Jonathan Vazquez	3438666	Nathan Jenkins
EPA 8270E		002-AD			3475767	Bill Carey
EPA 9056A	EPA 9056A	002-AC	2167783	Quoc Nguyen	3416753	Riley Miller

Sample Name: 5242 SB03 (3-4) **Date Collected:** 08/14/25
Laboratory Code: HN2511553-003 **Date Received:** 08/15/25
Sample Matrix: SOIL/SOLID

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

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 5242 Bewick

Work Order: HN2511553

Sample Name: 5242 SB03 (3-4)
Laboratory Code: HN2511553-003
Sample Matrix: SOIL/SOLID

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

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3050B Method	003-AC	2170135	Weston Kotecki	3418166	Hunter Johnson
EPA 7471B		003-AC	2172932	Maxx Richey	3422787	Denise Coffey
EPA 8081B		003-AD			3475767	Bill Carey
EPA 8082A		003-AD			3475767	Bill Carey
EPA 8151A	EPA 5035A	003-AD			3475767	Bill Carey
EPA 8260D		003-AA	2162930	Jonathan Vazquez	3438666	Nathan Jenkins
EPA 8270E		003-AD			3475767	Bill Carey
EPA 9056A	EPA 9056A	003-AC	2167783	Quoc Nguyen	3416753	Riley Miller

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Bewick
Matrix: SOIL/SOLID

Work Order: HN2511553
Date Collected: 08/14/25 11:05
Date Received: 08/15/25 08:00

CLIENT ID: 5242 SB01 (1-2)	Lab ID: HN2511553-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	14.0		%	0.1	1	08/21/25 14:45	NA
Chloride	EPA 9056A	50.6		mg/kg	11.8	1	08/18/25 23:14	08/18/25 15:49
Metals								
Arsenic	EPA 6020B	5.94		mg/kg	3.22	10	08/20/25 22:12	08/20/25 10:10
Barium	EPA 6020B	72.9		mg/kg	3.22	10	08/20/25 22:12	08/20/25 10:10
Cadmium	EPA 6020B	ND		mg/kg	1.29	10	08/20/25 22:12	08/20/25 10:10
Chromium	EPA 6020B	18.7		mg/kg	3.22	10	08/20/25 22:12	08/20/25 10:10
Copper	EPA 6020B	17.0		mg/kg	3.22	10	08/20/25 22:12	08/20/25 10:10
Lead	EPA 6020B	22.0		mg/kg	3.22	10	08/20/25 22:12	08/20/25 10:10
Selenium	EPA 6020B	ND		mg/kg	3.22	10	08/20/25 22:12	08/20/25 10:10
Silver	EPA 6020B	ND		mg/kg	3.22	10	08/20/25 22:12	08/20/25 10:10
Zinc	EPA 6020B	60.3		mg/kg	6.44	10	08/20/25 22:12	08/20/25 10:10
Mercury	EPA 7471B	0.111		mg/kg	0.0200	1	08/22/25 09:35	08/21/25 15:34
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/09/25 08:22	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/09/25 08:22	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/09/25 08:22	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/09/25 08:22	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	111	1	08/26/25 16:11	08/15/25 15:57
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	111	1	08/26/25 16:11	08/15/25 15:57
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	111	1	08/26/25 16:11	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Bewick
Matrix: SOIL/SOLID

Work Order: HN2511553
Date Collected: 08/14/25 11:05
Date Received: 08/15/25 08:00

CLIENT ID: 5242 SB01 (1-2) **Lab ID: HN2511553-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	111	1	08/26/25 16:11	08/15/25 15:57
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	111	1	08/26/25 16:11	08/15/25 15:57
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	66.5	1	08/26/25 16:11	08/15/25 15:57
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	222	1	08/26/25 16:11	08/15/25 15:57
2-Hexanone	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Acetone	EPA 8260D	ND		µg/kg	111	1	08/26/25 16:11	08/15/25 15:57
Benzene	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Bromochloromethane	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Bromodichloromethane	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Bromoform	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Carbon disulfide	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Carbon tetrachloride	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Chlorobenzene	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Chlorodibromomethane	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	111	1	08/26/25 16:11	08/15/25 15:57
Chloroform	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	66.5	1	08/26/25 16:11	08/15/25 15:57
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Cyclohexane	EPA 8260D	ND		µg/kg	111	1	08/26/25 16:11	08/15/25 15:57
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	111	1	08/26/25 16:11	08/15/25 15:57
Ethylbenzene	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Isopropylbenzene	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Bewick
Matrix: SOIL/SOLID

Work Order: HN2511553
Date Collected: 08/14/25 11:05
Date Received: 08/15/25 08:00

CLIENT ID: 5242 SB01 (1-2) **Lab ID: HN2511553-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	66.5	1	08/26/25 16:11	08/15/25 15:57
Methyl acetate	EPA 8260D	ND		µg/kg	277	1	08/26/25 16:11	08/15/25 15:57
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	111	1	08/26/25 16:11	08/15/25 15:57
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	111	1	08/26/25 16:11	08/15/25 15:57
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Methylcyclohexane	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	277	1	08/26/25 16:11	08/15/25 15:57
o-Xylene	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Styrene	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Toluene	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Total Xylene	EPA 8260D	ND		µg/kg	99.8	1	08/26/25 16:11	08/15/25 15:57
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	33.2	1	08/26/25 16:11	08/15/25 15:57
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	99.2		%REC	80-120	1	08/26/25 16:11	08/15/25 15:57
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	98.5		%REC	80-120	1	08/26/25 16:11	08/15/25 15:57
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	92.7		%REC	72-120	1	08/26/25 16:11	08/15/25 15:57
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	99.0		%REC	80-120	1	08/26/25 16:11	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Bewick
Matrix: SOIL/SOLID

Work Order: HN2511553
Date Collected: 08/14/25 11:10
Date Received: 08/15/25 08:00

CLIENT ID: 5242 SB02 (5-6)	Lab ID: HN2511553-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	15.1		%	0.1	1	08/21/25 14:45	NA
Chloride	EPA 9056A	59.3	S	mg/kg	11.8	1	08/19/25 16:32	08/19/25 13:22
Metals								
Arsenic	EPA 6020B	5.33		mg/kg	3.30	10	08/20/25 22:14	08/20/25 10:10
Barium	EPA 6020B	50.9		mg/kg	3.30	10	08/20/25 22:14	08/20/25 10:10
Cadmium	EPA 6020B	ND		mg/kg	1.32	10	08/20/25 22:14	08/20/25 10:10
Chromium	EPA 6020B	25.6		mg/kg	3.30	10	08/20/25 22:14	08/20/25 10:10
Copper	EPA 6020B	15.8		mg/kg	3.30	10	08/20/25 22:14	08/20/25 10:10
Lead	EPA 6020B	34.0		mg/kg	3.30	10	08/20/25 22:14	08/20/25 10:10
Selenium	EPA 6020B	ND		mg/kg	3.30	10	08/20/25 22:14	08/20/25 10:10
Silver	EPA 6020B	ND		mg/kg	3.30	10	08/20/25 22:14	08/20/25 10:10
Zinc	EPA 6020B	73.2		mg/kg	6.61	10	08/20/25 22:14	08/20/25 10:10
Mercury	EPA 7471B	0.0460		mg/kg	0.0200	1	08/22/25 09:36	08/21/25 15:34
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/09/25 08:22	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/09/25 08:22	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/09/25 08:22	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/09/25 08:22	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	122	1	08/26/25 16:27	08/15/25 15:57
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	122	1	08/26/25 16:27	08/15/25 15:57
1,2,4-Trimethylbenzene	EPA 8260D	42.9		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	122	1	08/26/25 16:27	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Bewick
Matrix: SOIL/SOLID

Work Order: HN2511553
Date Collected: 08/14/25 11:10
Date Received: 08/15/25 08:00

CLIENT ID: 5242 SB02 (5-6) **Lab ID: HN2511553-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	122	1	08/26/25 16:27	08/15/25 15:57
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	122	1	08/26/25 16:27	08/15/25 15:57
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	73.5	1	08/26/25 16:27	08/15/25 15:57
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	245	1	08/26/25 16:27	08/15/25 15:57
2-Hexanone	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Acetone	EPA 8260D	ND		µg/kg	122	1	08/26/25 16:27	08/15/25 15:57
Benzene	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Bromochloromethane	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Bromodichloromethane	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Bromoform	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Carbon disulfide	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Carbon tetrachloride	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Chlorobenzene	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Chlorodibromomethane	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	122	1	08/26/25 16:27	08/15/25 15:57
Chloroform	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	73.5	1	08/26/25 16:27	08/15/25 15:57
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Cyclohexane	EPA 8260D	ND		µg/kg	122	1	08/26/25 16:27	08/15/25 15:57
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	122	1	08/26/25 16:27	08/15/25 15:57
Ethylbenzene	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Isopropylbenzene	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Bewick
Matrix: SOIL/SOLID

Work Order: HN2511553
Date Collected: 08/14/25 11:10
Date Received: 08/15/25 08:00

CLIENT ID: 5242 SB02 (5-6)	Lab ID: HN2511553-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	73.5	1	08/26/25 16:27	08/15/25 15:57
Methyl acetate	EPA 8260D	ND		µg/kg	306	1	08/26/25 16:27	08/15/25 15:57
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	122	1	08/26/25 16:27	08/15/25 15:57
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	122	1	08/26/25 16:27	08/15/25 15:57
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Methylcyclohexane	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	306	1	08/26/25 16:27	08/15/25 15:57
o-Xylene	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Styrene	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	50.8		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Toluene	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Total Xylene	EPA 8260D	ND		µg/kg	110	1	08/26/25 16:27	08/15/25 15:57
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	36.7	1	08/26/25 16:27	08/15/25 15:57
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	08/26/25 16:27	08/15/25 15:57
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	100		%REC	80-120	1	08/26/25 16:27	08/15/25 15:57
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	86.9		%REC	72-120	1	08/26/25 16:27	08/15/25 15:57
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	08/26/25 16:27	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Bewick
Matrix: SOIL/SOLID

Work Order: HN2511553
Date Collected: 08/14/25 11:15
Date Received: 08/15/25 08:00

CLIENT ID: 5242 SB03 (3-4) **Lab ID: HN2511553-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	15.1		%	0.1	1	08/21/25 14:45	NA
Chloride	EPA 9056A	66.5		mg/kg	11.8	1	08/19/25 16:56	08/19/25 13:22
Metals								
Arsenic	EPA 6020B	6.64		mg/kg	3.25	10	08/20/25 22:23	08/20/25 10:26
Barium	EPA 6020B	59.8		mg/kg	3.25	10	08/20/25 22:23	08/20/25 10:26
Cadmium	EPA 6020B	ND		mg/kg	1.30	10	08/20/25 22:23	08/20/25 10:26
Chromium	EPA 6020B	17.7	S	mg/kg	3.25	10	08/20/25 22:23	08/20/25 10:26
Copper	EPA 6020B	15.8		mg/kg	3.25	10	08/20/25 22:23	08/20/25 10:26
Lead	EPA 6020B	19.2	S	mg/kg	3.25	10	08/20/25 22:23	08/20/25 10:26
Selenium	EPA 6020B	ND		mg/kg	3.25	10	08/20/25 22:23	08/20/25 10:26
Silver	EPA 6020B	ND		mg/kg	3.25	10	08/20/25 22:23	08/20/25 10:26
Zinc	EPA 6020B	54.1		mg/kg	6.49	10	08/20/25 22:23	08/20/25 10:26
Mercury	EPA 7471B	0.0216		mg/kg	0.0209	1	08/22/25 09:38	08/21/25 15:34
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/09/25 08:22	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/09/25 08:22	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/09/25 08:22	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/09/25 08:22	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	118	1	08/26/25 16:42	08/15/25 15:57
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	118	1	08/26/25 16:42	08/15/25 15:57
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	118	1	08/26/25 16:42	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Bewick
Matrix: SOIL/SOLID

Work Order: HN2511553
Date Collected: 08/14/25 11:15
Date Received: 08/15/25 08:00

CLIENT ID: 5242 SB03 (3-4) **Lab ID: HN2511553-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	118	1	08/26/25 16:42	08/15/25 15:57
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	118	1	08/26/25 16:42	08/15/25 15:57
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	70.8	1	08/26/25 16:42	08/15/25 15:57
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	236	1	08/26/25 16:42	08/15/25 15:57
2-Hexanone	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Acetone	EPA 8260D	ND		µg/kg	118	1	08/26/25 16:42	08/15/25 15:57
Benzene	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Bromochloromethane	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Bromodichloromethane	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Bromoform	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Carbon disulfide	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Carbon tetrachloride	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Chlorobenzene	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Chlorodibromomethane	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	118	1	08/26/25 16:42	08/15/25 15:57
Chloroform	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	70.8	1	08/26/25 16:42	08/15/25 15:57
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Cyclohexane	EPA 8260D	ND		µg/kg	118	1	08/26/25 16:42	08/15/25 15:57
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	118	1	08/26/25 16:42	08/15/25 15:57
Ethylbenzene	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Isopropylbenzene	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Bewick
Matrix: SOIL/SOLID

Work Order: HN2511553
Date Collected: 08/14/25 11:15
Date Received: 08/15/25 08:00

CLIENT ID: 5242 SB03 (3-4)	Lab ID: HN2511553-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	70.8	1	08/26/25 16:42	08/15/25 15:57
Methyl acetate	EPA 8260D	ND		µg/kg	295	1	08/26/25 16:42	08/15/25 15:57
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	118	1	08/26/25 16:42	08/15/25 15:57
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	118	1	08/26/25 16:42	08/15/25 15:57
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Methylcyclohexane	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	295	1	08/26/25 16:42	08/15/25 15:57
o-Xylene	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Styrene	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Toluene	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Total Xylene	EPA 8260D	ND		µg/kg	106	1	08/26/25 16:42	08/15/25 15:57
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	35.4	1	08/26/25 16:42	08/15/25 15:57
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	105		%REC	80-120	1	08/26/25 16:42	08/15/25 15:57
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	104		%REC	80-120	1	08/26/25 16:42	08/15/25 15:57
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	90.5		%REC	72-120	1	08/26/25 16:42	08/15/25 15:57
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	08/26/25 16:42	08/15/25 15:57



November 21, 2025

Service Request No:R2510174

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

Laboratory Results for: 5242 Bewick

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 **R2510174**.

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

ADDRESS

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

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Received: 08/20/2025

CASE NARRATIVE

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

Sample Receipt:

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

Semivolatiles by GC/MS:

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

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

Semivolatile GC:

Method 8081B, 09/04/2025: The control limits were exceeded for analytes in the Continuing Calibration Verification (CCV). The QC failure was most likely due to the composition of the sample(s) immediately preceding the failing CCV. In order to protect the integrity of the instrument, no further corrective action was taken. Results should be considered estimated.

Method 8151A, 09/04/2025: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by 

Date 11/21/2025

SAMPLE DETECTION SUMMARY

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

CLIENT ID: 5242 SB01 (1-2)	Lab ID: R2510174-001
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	3.9	J	2.9	5.7	ug/Kg	8081B
4,4'-DDE	44		2.9	5.7	ug/Kg	8081B
4,4'-DDT	7.1		2.9	5.7	ug/Kg	8081B
Fluoranthene	300	J	290	1100	ug/Kg	8270E
Phenanthrene	160	J	160	1100	ug/Kg	8270E
Pyrene	260	J	190	1100	ug/Kg	8270E
Total Solids	86.0				Percent	ALS SOP

CLIENT ID: 5242 SB02 (3-4)	Lab ID: R2510174-002
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	4.3	J	2.9	5.8	ug/Kg	8081B
4,4'-DDE	22		2.9	5.8	ug/Kg	8081B
4,4'-DDT	5.3	J	2.9	5.8	ug/Kg	8081B
Total Solids	84.9				Percent	ALS SOP

CLIENT ID: 5242 SB03 (5-6)	Lab ID: R2510174-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	6.8		3.0	5.9	ug/Kg	8081B
4,4'-DDE	28		3.0	5.9	ug/Kg	8081B
4,4'-DDT	7.6		3.0	5.9	ug/Kg	8081B
Total Solids	84.9				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: 5242 Bewick

Service Request:R2510174

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2510174-001	5242 SB01 (1-2)	8/14/2025	1105
R2510174-002	5242 SB02 (3-4)	8/14/2025	1110
R2510174-003	5242 SB03 (5-6)	8/14/2025	1115

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: HN2511553

Subcontract To:

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

Due Date: 08/26/2025

Analysis Report Format: ALS Standard – Level II

Electronic Data Deliverable:

Customer Information		Project Information		Parameter/Method Request for Analysis						
Purchase Order		Project Name	5242 Bewick	A	EPA 8081B-3546-S (INT SUB)					
Work Order	HN2511553			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
HN2511553-001	5242 SB01 (1-2)	Soil/Solid	08/14/2025 11:05	001-AD	x	x	x	x						
HN2511553-002	5242 SB02 (5-6)	Soil/Solid	08/14/2025 11:10	002-AD	x	x	x	x						
HN2511553-003	5242 SB03 (3-4)	Soil/Solid	08/14/2025 11:15	003-AD	x	x	x	x						

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

R2510174 **5**

ALS Environmental - Holland
6242 Bewick



Cooler Receipt and Preservation Check Form

R2510174

ALS Environmental - Holland
6242 Bowick



5

Project/Client _____ Folder Number _____

Cooler received on 8/20/25 by: RM

COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

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

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

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

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

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

Cooler Breakdown/Preservation Check**: Date: 8/20/25 Time: 16:20 by: MM

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

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

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

Bottle lot numbers: 00086513

Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: MM

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



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com



REPORT QUALIFIERS AND DEFINITIONS

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

Rochester Lab ID # for State Accreditations¹



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

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

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

ALS Laboratory Group

Acronyms

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

Client: ALS Environmental - US
Project: 5242 Bewick

Service Request: R2510174

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: 5242 Bewick/

Service Request: R2510174

Sample Name: 5242 SB01 (1-2)
Lab Code: R2510174-001
Sample Matrix: Soil

Date Collected: 08/14/25
Date Received: 08/20/25

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

Sample Name: 5242 SB02 (3-4)
Lab Code: R2510174-002
Sample Matrix: Soil

Date Collected: 08/14/25
Date Received: 08/20/25

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

Sample Name: 5242 SB03 (5-6)
Lab Code: R2510174-003
Sample Matrix: Soil

Date Collected: 08/14/25
Date Received: 08/20/25

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



PREPARATION METHODS

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

INORGANIC

Water/Liquid Matrix

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

Solid/Soil/Non-Aqueous Matrix

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

ORGANIC

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

Regarding "Bulk/5035A":

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



Sample Results

ALS Environmental—Rochester Laboratory

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: 08/14/25 11:05
Date Received: 08/20/25 09:30

Sample Name: 5242 SB01 (1-2)
Lab Code: R2510174-001

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	250 U	1100	250	1	08/28/25 17:36	8/27/25	
1-Methylnaphthalene	210 U	1100	210	1	08/28/25 17:36	8/27/25	
2-Methylnaphthalene	400 U	1100	400	1	08/28/25 17:36	8/27/25	
Acenaphthene	220 U	1100	220	1	08/28/25 17:36	8/27/25	
Acenaphthylene	230 U	1100	230	1	08/28/25 17:36	8/27/25	
Anthracene	190 U	1100	190	1	08/28/25 17:36	8/27/25	
Benz(a)anthracene	170 U	1100	170	1	08/28/25 17:36	8/27/25	
Benzo(a)pyrene	300 U	1100	300	1	08/28/25 17:36	8/27/25	
Benzo(b)fluoranthene	190 U	1100	190	1	08/28/25 17:36	8/27/25	
Benzo(g,h,i)perylene	260 U	1100	260	1	08/28/25 17:36	8/27/25	
1,4-Dichlorobenzene	190 U	1100	190	1	08/28/25 17:36	8/27/25	
Benzo(k)fluoranthene	190 U	1100	190	1	08/28/25 17:36	8/27/25	
Biphenyl	340 U	1100	340	1	08/28/25 17:36	8/27/25	
Chrysene	170 U	1100	170	1	08/28/25 17:36	8/27/25	
1,4-Dioxane	110 U	230	110	1	08/28/25 17:36	8/27/25	
Dibenz(a,h)anthracene	250 U	1100	250	1	08/28/25 17:36	8/27/25	
Dibenzofuran	210 U	1100	210	1	08/28/25 17:36	8/27/25	
Fluoranthene	300 J	1100	290	1	08/28/25 17:36	8/27/25	
Fluorene	220 U	1100	220	1	08/28/25 17:36	8/27/25	
Indeno(1,2,3-cd)pyrene	370 U	1100	370	1	08/28/25 17:36	8/27/25	
Naphthalene	220 U	1100	220	1	08/28/25 17:36	8/27/25	
Phenanthrene	160 J	1100	160	1	08/28/25 17:36	8/27/25	
Pyrene	260 J	1100	190	1	08/28/25 17:36	8/27/25	
2,3,4,6-Tetrachlorophenol	400 U	1100	400	1	08/28/25 17:36	8/27/25	
2,4,5-Trichlorophenol	280 U	1100	280	1	08/28/25 17:36	8/27/25	
2,4,6-Trichlorophenol	260 U	1100	260	1	08/28/25 17:36	8/27/25	
2,4-Dichlorophenol	220 U	1100	220	1	08/28/25 17:36	8/27/25	
2,4-Dimethylphenol	210 U	1100	210	1	08/28/25 17:36	8/27/25	
2,4-Dinitrophenol	2000 U	5800	2000	1	08/28/25 17:36	8/27/25	
2,4-Dinitrotoluene	440 U	1100	440	1	08/28/25 17:36	8/27/25	
2,6-Dinitrotoluene	250 U	1100	250	1	08/28/25 17:36	8/27/25	
2-Chloronaphthalene	230 U	1100	230	1	08/28/25 17:36	8/27/25	
2-Chlorophenol	190 U	1100	190	1	08/28/25 17:36	8/27/25	
2-Methylphenol	240 U	1100	240	1	08/28/25 17:36	8/27/25	
2-Nitroaniline	270 U	5800	270	1	08/28/25 17:36	8/27/25	
2-Nitrophenol	270 U	1100	270	1	08/28/25 17:36	8/27/25	
3,3'-Dichlorobenzidine	420 U	1100	420	1	08/28/25 17:36	8/27/25	
3- and 4-Methylphenol Coelution	220 U	1100	220	1	08/28/25 17:36	8/27/25	
3-Nitroaniline	230 U	5800	230	1	08/28/25 17:36	8/27/25	
4,6-Dinitro-2-methylphenol	640 U	5800	640	1	08/28/25 17:36	8/27/25	
4-Bromophenyl Phenyl Ether	300 U	1100	300	1	08/28/25 17:36	8/27/25	
4-Chloro-3-methylphenol	230 U	1100	230	1	08/28/25 17:36	8/27/25	
4-Chloroaniline	420 U	1100	420	1	08/28/25 17:36	8/27/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: 08/14/25 11:05
Date Received: 08/20/25 09:30

Sample Name: 5242 SB01 (1-2)
Lab Code: R2510174-001

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	250 U	1100	250	1	08/28/25 17:36	8/27/25	
4-Nitroaniline	250 U	5800	250	1	08/28/25 17:36	8/27/25	
4-Nitrophenol	590 U	5800	590	1	08/28/25 17:36	8/27/25	
Acetophenone	330 U	1100	330	1	08/28/25 17:36	8/27/25	
Atrazine	340 U	1100	340	1	08/28/25 17:36	8/27/25	
Benzaldehyde	280 U	5800	280	1	08/28/25 17:36	8/27/25	
Benzoic Acid	1800 U	5800	1800	1	08/28/25 17:36	8/27/25	
Bis(1-chloroisopropyl) Ether	240 U	1100	240	1	08/28/25 17:36	8/27/25	
Bis(2-chloroethoxy)methane	280 U	1100	280	1	08/28/25 17:36	8/27/25	
Bis(2-chloroethyl) Ether	230 U	1100	230	1	08/28/25 17:36	8/27/25	
Bis(2-ethylhexyl) Phthalate	210 U	1700	210	1	08/28/25 17:36	8/27/25	
Butyl Benzyl Phthalate	330 U	1100	330	1	08/28/25 17:36	8/27/25	
Caprolactam	250 U	1100	250	1	08/28/25 17:36	8/27/25	
Carbazole	190 U	1100	190	1	08/28/25 17:36	8/27/25	
Di-n-butyl Phthalate	190 U	1100	190	1	08/28/25 17:36	8/27/25	
Di-n-octyl Phthalate	400 U	1100	400	1	08/28/25 17:36	8/27/25	
Diethyl Phthalate	200 U	1100	200	1	08/28/25 17:36	8/27/25	
Dimethyl Phthalate	220 U	1100	220	1	08/28/25 17:36	8/27/25	
Hexachlorobenzene	280 U	1100	280	1	08/28/25 17:36	8/27/25	
Hexachlorobutadiene	400 U	1100	400	1	08/28/25 17:36	8/27/25	
Hexachlorocyclopentadiene	360 U	1100	360	1	08/28/25 17:36	8/27/25	
Hexachloroethane	220 U	1100	220	1	08/28/25 17:36	8/27/25	
Isophorone	240 U	1100	240	1	08/28/25 17:36	8/27/25	
N-Nitrosodi-n-propylamine	350 U	1100	350	1	08/28/25 17:36	8/27/25	
N-Nitrosodiphenylamine	710 U	1100	710	1	08/28/25 17:36	8/27/25	
Nitrobenzene	210 U	1100	210	1	08/28/25 17:36	8/27/25	
Pentachlorophenol (PCP)	1200 U	5800	1200	1	08/28/25 17:36	8/27/25	
Phenol	230 U	1100	230	1	08/28/25 17:36	8/27/25	
Pyridine	160 U	5800	160	1	08/28/25 17:36	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	77	18 - 104	08/28/25 17:36	
Nitrobenzene-d5	74	12 - 98	08/28/25 17:36	
p-Terphenyl-d14	94	26 - 134	08/28/25 17:36	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: 08/14/25 11:10
Date Received: 08/20/25 09:30

Sample Name: 5242 SB02 (3-4)
Lab Code: R2510174-002

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	1100 U	5600	1100	5	08/28/25 18:00	8/27/25	
1,2,4,5-Tetrachlorobenzene	1300 U	5600	1300	5	08/28/25 18:00	8/27/25	
2-Methylnaphthalene	2000 U	5600	2000	5	08/28/25 18:00	8/27/25	
Acenaphthene	1100 U	5600	1100	5	08/28/25 18:00	8/27/25	
Acenaphthylene	1200 U	5600	1200	5	08/28/25 18:00	8/27/25	
Anthracene	930 U	5600	930	5	08/28/25 18:00	8/27/25	
Benz(a)anthracene	830 U	5600	830	5	08/28/25 18:00	8/27/25	
Benzo(a)pyrene	1500 U	5600	1500	5	08/28/25 18:00	8/27/25	
Benzo(b)fluoranthene	930 U	5600	930	5	08/28/25 18:00	8/27/25	
Benzo(g,h,i)perylene	1300 U	5600	1300	5	08/28/25 18:00	8/27/25	
Benzo(k)fluoranthene	900 U	5600	900	5	08/28/25 18:00	8/27/25	
1,4-Dichlorobenzene	930 U	5600	930	5	08/28/25 18:00	8/27/25	
Biphenyl	1700 U	5600	1700	5	08/28/25 18:00	8/27/25	
Chrysene	820 U	5600	820	5	08/28/25 18:00	8/27/25	
1,4-Dioxane	540 U	1100	540	5	08/28/25 18:00	8/27/25	
Dibenz(a,h)anthracene	1300 U	5600	1300	5	08/28/25 18:00	8/27/25	
Dibenzofuran	1100 U	5600	1100	5	08/28/25 18:00	8/27/25	
Fluoranthene	1400 U	5600	1400	5	08/28/25 18:00	8/27/25	
Fluorene	1100 U	5600	1100	5	08/28/25 18:00	8/27/25	
Indeno(1,2,3-cd)pyrene	1800 U	5600	1800	5	08/28/25 18:00	8/27/25	
Naphthalene	1100 U	5600	1100	5	08/28/25 18:00	8/27/25	
Phenanthrene	790 U	5600	790	5	08/28/25 18:00	8/27/25	
Pyrene	930 U	5600	930	5	08/28/25 18:00	8/27/25	
2,3,4,6-Tetrachlorophenol	2000 U	5600	2000	5	08/28/25 18:00	8/27/25	
2,4,5-Trichlorophenol	1400 U	5600	1400	5	08/28/25 18:00	8/27/25	
2,4,6-Trichlorophenol	1300 U	5600	1300	5	08/28/25 18:00	8/27/25	
2,4-Dichlorophenol	1100 U	5600	1100	5	08/28/25 18:00	8/27/25	
2,4-Dimethylphenol	1000 U	5600	1000	5	08/28/25 18:00	8/27/25	
2,4-Dinitrophenol	9500 U	29000	9500	5	08/28/25 18:00	8/27/25	
2,4-Dinitrotoluene	2200 U	5600	2200	5	08/28/25 18:00	8/27/25	
2,6-Dinitrotoluene	1300 U	5600	1300	5	08/28/25 18:00	8/27/25	
2-Chloronaphthalene	1200 U	5600	1200	5	08/28/25 18:00	8/27/25	
2-Chlorophenol	930 U	5600	930	5	08/28/25 18:00	8/27/25	
2-Methylphenol	1200 U	5600	1200	5	08/28/25 18:00	8/27/25	
2-Nitroaniline	1400 U	29000	1400	5	08/28/25 18:00	8/27/25	
2-Nitrophenol	1300 U	5600	1300	5	08/28/25 18:00	8/27/25	
3,3'-Dichlorobenzidine	2100 U	5600	2100	5	08/28/25 18:00	8/27/25	
3- and 4-Methylphenol Coelution	1100 U	5600	1100	5	08/28/25 18:00	8/27/25	
3-Nitroaniline	1200 U	29000	1200	5	08/28/25 18:00	8/27/25	
4,6-Dinitro-2-methylphenol	3200 U	29000	3200	5	08/28/25 18:00	8/27/25	
4-Bromophenyl Phenyl Ether	1500 U	5600	1500	5	08/28/25 18:00	8/27/25	
4-Chloro-3-methylphenol	1200 U	5600	1200	5	08/28/25 18:00	8/27/25	
4-Chloroaniline	2100 U	5600	2100	5	08/28/25 18:00	8/27/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: 08/14/25 11:10
Date Received: 08/20/25 09:30

Sample Name: 5242 SB02 (3-4)
Lab Code: R2510174-002

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	1200 U	5600	1200	5	08/28/25 18:00	8/27/25	
4-Nitroaniline	1200 U	29000	1200	5	08/28/25 18:00	8/27/25	
4-Nitrophenol	2900 U	29000	2900	5	08/28/25 18:00	8/27/25	
Acetophenone	1600 U	5600	1600	5	08/28/25 18:00	8/27/25	
Atrazine	1700 U	5600	1700	5	08/28/25 18:00	8/27/25	
Benzaldehyde	1400 U	29000	1400	5	08/28/25 18:00	8/27/25	
Benzoic Acid	8800 U	29000	8800	5	08/28/25 18:00	8/27/25	
Bis(1-chloroisopropyl) Ether	1200 U	5600	1200	5	08/28/25 18:00	8/27/25	
Bis(2-chloroethoxy)methane	1400 U	5600	1400	5	08/28/25 18:00	8/27/25	
Bis(2-chloroethyl) Ether	1100 U	5600	1100	5	08/28/25 18:00	8/27/25	
Bis(2-ethylhexyl) Phthalate	1100 U	8400	1100	5	08/28/25 18:00	8/27/25	
Butyl Benzyl Phthalate	1700 U	5600	1700	5	08/28/25 18:00	8/27/25	
Caprolactam	1300 U	5600	1300	5	08/28/25 18:00	8/27/25	
Carbazole	900 U	5600	900	5	08/28/25 18:00	8/27/25	
Di-n-butyl Phthalate	900 U	5600	900	5	08/28/25 18:00	8/27/25	
Di-n-octyl Phthalate	2000 U	5600	2000	5	08/28/25 18:00	8/27/25	
Diethyl Phthalate	990 U	5600	990	5	08/28/25 18:00	8/27/25	
Dimethyl Phthalate	1100 U	5600	1100	5	08/28/25 18:00	8/27/25	
Hexachlorobenzene	1400 U	5600	1400	5	08/28/25 18:00	8/27/25	
Hexachlorobutadiene	2000 U	5600	2000	5	08/28/25 18:00	8/27/25	
Hexachlorocyclopentadiene	1800 U	5600	1800	5	08/28/25 18:00	8/27/25	
Hexachloroethane	1100 U	5600	1100	5	08/28/25 18:00	8/27/25	
Isophorone	1200 U	5600	1200	5	08/28/25 18:00	8/27/25	
N-Nitrosodi-n-propylamine	1700 U	5600	1700	5	08/28/25 18:00	8/27/25	
N-Nitrosodiphenylamine	3500 U	5600	3500	5	08/28/25 18:00	8/27/25	
Nitrobenzene	990 U	5600	990	5	08/28/25 18:00	8/27/25	
Pentachlorophenol (PCP)	5600 U	29000	5600	5	08/28/25 18:00	8/27/25	
Phenol	1200 U	5600	1200	5	08/28/25 18:00	8/27/25	
Pyridine	750 U	29000	750	5	08/28/25 18:00	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	78	18 - 104	08/28/25 18:00	
Nitrobenzene-d5	74	12 - 98	08/28/25 18:00	
p-Terphenyl-d14	100	26 - 134	08/28/25 18:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: 08/14/25 11:15
Date Received: 08/20/25 09:30

Sample Name: 5242 SB03 (5-6)
Lab Code: R2510174-003

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1300 U	5700	1300	5	08/28/25 18:23	8/27/25	
1-Methylnaphthalene	1100 U	5700	1100	5	08/28/25 18:23	8/27/25	
2-Methylnaphthalene	2100 U	5700	2100	5	08/28/25 18:23	8/27/25	
Acenaphthene	1100 U	5700	1100	5	08/28/25 18:23	8/27/25	
Acenaphthylene	1200 U	5700	1200	5	08/28/25 18:23	8/27/25	
Anthracene	950 U	5700	950	5	08/28/25 18:23	8/27/25	
Benz(a)anthracene	850 U	5700	850	5	08/28/25 18:23	8/27/25	
Benzo(a)pyrene	1600 U	5700	1600	5	08/28/25 18:23	8/27/25	
Benzo(b)fluoranthene	950 U	5700	950	5	08/28/25 18:23	8/27/25	
Benzo(g,h,i)perylene	1400 U	5700	1400	5	08/28/25 18:23	8/27/25	
Benzo(k)fluoranthene	920 U	5700	920	5	08/28/25 18:23	8/27/25	
1,4-Dichlorobenzene	950 U	5700	950	5	08/28/25 18:23	8/27/25	
Biphenyl	1700 U	5700	1700	5	08/28/25 18:23	8/27/25	
Chrysene	840 U	5700	840	5	08/28/25 18:23	8/27/25	
Dibenz(a,h)anthracene	1300 U	5700	1300	5	08/28/25 18:23	8/27/25	
1,4-Dioxane	560 U	1200	560	5	08/28/25 18:23	8/27/25	
Dibenzofuran	1100 U	5700	1100	5	08/28/25 18:23	8/27/25	
Fluoranthene	1500 U	5700	1500	5	08/28/25 18:23	8/27/25	
Fluorene	1100 U	5700	1100	5	08/28/25 18:23	8/27/25	
Indeno(1,2,3-cd)pyrene	1900 U	5700	1900	5	08/28/25 18:23	8/27/25	
Naphthalene	1100 U	5700	1100	5	08/28/25 18:23	8/27/25	
Phenanthrene	810 U	5700	810	5	08/28/25 18:23	8/27/25	
Pyrene	950 U	5700	950	5	08/28/25 18:23	8/27/25	
2,3,4,6-Tetrachlorophenol	2000 U	5700	2000	5	08/28/25 18:23	8/27/25	
2,4,5-Trichlorophenol	1400 U	5700	1400	5	08/28/25 18:23	8/27/25	
2,4,6-Trichlorophenol	1300 U	5700	1300	5	08/28/25 18:23	8/27/25	
2,4-Dichlorophenol	1100 U	5700	1100	5	08/28/25 18:23	8/27/25	
2,4-Dimethylphenol	1100 U	5700	1100	5	08/28/25 18:23	8/27/25	
2,4-Dinitrophenol	9700 U	29000	9700	5	08/28/25 18:23	8/27/25	
2,4-Dinitrotoluene	2200 U	5700	2200	5	08/28/25 18:23	8/27/25	
2,6-Dinitrotoluene	1300 U	5700	1300	5	08/28/25 18:23	8/27/25	
2-Chloronaphthalene	1200 U	5700	1200	5	08/28/25 18:23	8/27/25	
2-Chlorophenol	950 U	5700	950	5	08/28/25 18:23	8/27/25	
2-Methylphenol	1200 U	5700	1200	5	08/28/25 18:23	8/27/25	
2-Nitroaniline	1400 U	29000	1400	5	08/28/25 18:23	8/27/25	
2-Nitrophenol	1400 U	5700	1400	5	08/28/25 18:23	8/27/25	
3,3'-Dichlorobenzidine	2100 U	5700	2100	5	08/28/25 18:23	8/27/25	
3- and 4-Methylphenol Coelution	1100 U	5700	1100	5	08/28/25 18:23	8/27/25	
3-Nitroaniline	1200 U	29000	1200	5	08/28/25 18:23	8/27/25	
4,6-Dinitro-2-methylphenol	3300 U	29000	3300	5	08/28/25 18:23	8/27/25	
4-Bromophenyl Phenyl Ether	1500 U	5700	1500	5	08/28/25 18:23	8/27/25	
4-Chloro-3-methylphenol	1200 U	5700	1200	5	08/28/25 18:23	8/27/25	
4-Chloroaniline	2100 U	5700	2100	5	08/28/25 18:23	8/27/25	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: 08/14/25 11:15
Date Received: 08/20/25 09:30

Sample Name: 5242 SB03 (5-6)
Lab Code: R2510174-003

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	1300 U	5700	1300	5	08/28/25 18:23	8/27/25	
4-Nitroaniline	1300 U	29000	1300	5	08/28/25 18:23	8/27/25	
4-Nitrophenol	3000 U	29000	3000	5	08/28/25 18:23	8/27/25	
Acetophenone	1700 U	5700	1700	5	08/28/25 18:23	8/27/25	
Atrazine	1700 U	5700	1700	5	08/28/25 18:23	8/27/25	
Benzaldehyde	1400 U	29000	1400	5	08/28/25 18:23	8/27/25	
Benzoic Acid	9000 U	29000	9000	5	08/28/25 18:23	8/27/25	
Bis(1-chloroisopropyl) Ether	1200 U	5700	1200	5	08/28/25 18:23	8/27/25	
Bis(2-chloroethoxy)methane	1400 U	5700	1400	5	08/28/25 18:23	8/27/25	
Bis(2-chloroethyl) Ether	1200 U	5700	1200	5	08/28/25 18:23	8/27/25	
Bis(2-ethylhexyl) Phthalate	1100 U	8600	1100	5	08/28/25 18:23	8/27/25	
Butyl Benzyl Phthalate	1700 U	5700	1700	5	08/28/25 18:23	8/27/25	
Caprolactam	1300 U	5700	1300	5	08/28/25 18:23	8/27/25	
Carbazole	920 U	5700	920	5	08/28/25 18:23	8/27/25	
Di-n-butyl Phthalate	920 U	5700	920	5	08/28/25 18:23	8/27/25	
Di-n-octyl Phthalate	2000 U	5700	2000	5	08/28/25 18:23	8/27/25	
Diethyl Phthalate	1100 U	5700	1100	5	08/28/25 18:23	8/27/25	
Dimethyl Phthalate	1100 U	5700	1100	5	08/28/25 18:23	8/27/25	
Hexachlorobenzene	1400 U	5700	1400	5	08/28/25 18:23	8/27/25	
Hexachlorobutadiene	2100 U	5700	2100	5	08/28/25 18:23	8/27/25	
Hexachlorocyclopentadiene	1900 U	5700	1900	5	08/28/25 18:23	8/27/25	
Hexachloroethane	1100 U	5700	1100	5	08/28/25 18:23	8/27/25	
Isophorone	1200 U	5700	1200	5	08/28/25 18:23	8/27/25	
N-Nitrosodi-n-propylamine	1800 U	5700	1800	5	08/28/25 18:23	8/27/25	
N-Nitrosodiphenylamine	3600 U	5700	3600	5	08/28/25 18:23	8/27/25	
Nitrobenzene	1100 U	5700	1100	5	08/28/25 18:23	8/27/25	
Pentachlorophenol (PCP)	5700 U	29000	5700	5	08/28/25 18:23	8/27/25	
Phenol	1200 U	5700	1200	5	08/28/25 18:23	8/27/25	
Pyridine	770 U	29000	770	5	08/28/25 18:23	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	79	18 - 104	08/28/25 18:23	
Nitrobenzene-d5	75	12 - 98	08/28/25 18:23	
p-Terphenyl-d14	97	26 - 134	08/28/25 18:23	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: 08/14/25 11:05
Date Received: 08/20/25 09:30

Sample Name: 5242 SB01 (1-2)
Lab Code: R2510174-001

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	3.9 J	5.7	2.9	1	09/04/25 11:53	8/27/25	
4,4'-DDE	44	5.7	2.9	1	09/04/25 11:53	8/27/25	
4,4'-DDT	7.1	5.7	2.9	1	09/04/25 11:53	8/27/25	
Aldrin	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
Chlordane	15 U	28	15	1	09/04/25 11:53	8/27/25	
Dieldrin	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
Endosulfan I	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
Endosulfan II	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
Endosulfan Sulfate	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
Endrin	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
Endrin Aldehyde	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
Endrin Ketone	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
Heptachlor	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
Heptachlor Epoxide	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
Methoxychlor	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
Toxaphene	64 U	110	64	1	09/04/25 11:53	8/27/25	
alpha-BHC	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
alpha-Chlordane	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
beta-BHC	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
delta-BHC	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
gamma-BHC (Lindane)	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	
gamma-Chlordane	2.9 U	5.7	2.9	1	09/04/25 11:53	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 159	09/04/25 11:53	
Tetrachloro-m-xylene	59	10 - 132	09/04/25 11:53	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: 08/14/25 11:10
Date Received: 08/20/25 09:30

Sample Name: 5242 SB02 (3-4)
Lab Code: R2510174-002

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	4.3 J	5.8	2.9	1	09/04/25 12:10	8/27/25	
4,4'-DDE	22	5.8	2.9	1	09/04/25 12:10	8/27/25	
4,4'-DDT	5.3 J	5.8	2.9	1	09/04/25 12:10	8/27/25	
Aldrin	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
Chlordane	15 U	28	15	1	09/04/25 12:10	8/27/25	
Dieldrin	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
Endosulfan I	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
Endosulfan II	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
Endosulfan Sulfate	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
Endrin	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
Endrin Aldehyde	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
Endrin Ketone	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
Heptachlor	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
Heptachlor Epoxide	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
Methoxychlor	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
Toxaphene	65 U	110	65	1	09/04/25 12:10	8/27/25	
alpha-BHC	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
alpha-Chlordane	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
beta-BHC	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
delta-BHC	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
gamma-BHC (Lindane)	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	
gamma-Chlordane	2.9 U	5.8	2.9	1	09/04/25 12:10	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	76	10 - 159	09/04/25 12:10	
Tetrachloro-m-xylene	65	10 - 132	09/04/25 12:10	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: 08/14/25 11:15
Date Received: 08/20/25 09:30

Sample Name: 5242 SB03 (5-6)
Lab Code: R2510174-003

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	6.8	5.9	3.0	1	09/04/25 12:27	8/27/25	
4,4'-DDE	28	5.9	3.0	1	09/04/25 12:27	8/27/25	
4,4'-DDT	7.6	5.9	3.0	1	09/04/25 12:27	8/27/25	
Aldrin	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
Chlordane	15 U	29	15	1	09/04/25 12:27	8/27/25	
Dieldrin	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
Endosulfan I	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
Endosulfan II	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
Endosulfan Sulfate	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
Endrin	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
Endrin Aldehyde	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
Endrin Ketone	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
Heptachlor	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
Heptachlor Epoxide	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
Methoxychlor	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
Toxaphene	66 U	110	66	1	09/04/25 12:27	8/27/25	
alpha-BHC	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
alpha-Chlordane	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
beta-BHC	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
delta-BHC	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
gamma-BHC (Lindane)	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	
gamma-Chlordane	3.0 U	5.9	3.0	1	09/04/25 12:27	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	70	10 - 159	09/04/25 12:27	
Tetrachloro-m-xylene	66	10 - 132	09/04/25 12:27	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: 08/14/25 11:05
Date Received: 08/20/25 09:30

Sample Name: 5242 SB01 (1-2)
Lab Code: R2510174-001

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	58 U	110	58	1	08/29/25 04:02	8/27/25	
Aroclor 1221	88 U	220	88	1	08/29/25 04:02	8/27/25	
Aroclor 1232	64 U	110	64	1	08/29/25 04:02	8/27/25	
Aroclor 1242	58 U	110	58	1	08/29/25 04:02	8/27/25	
Aroclor 1248	61 U	110	61	1	08/29/25 04:02	8/27/25	
Aroclor 1254	58 U	110	58	1	08/29/25 04:02	8/27/25	
Aroclor 1260	58 U	110	58	1	08/29/25 04:02	8/27/25	
Aroclor 1262	58 U	110	58	1	08/29/25 04:02	8/27/25	
Aroclor 1268	58 U	110	58	1	08/29/25 04:02	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	75	10 - 138	08/29/25 04:02	
Tetrachloro-m-xylene	58	11 - 122	08/29/25 04:02	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: 08/14/25 11:10
Date Received: 08/20/25 09:30

Sample Name: 5242 SB02 (3-4)
Lab Code: R2510174-002

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	58 U	110	58	1	08/29/25 04:29	8/27/25	
Aroclor 1221	89 U	230	89	1	08/29/25 04:29	8/27/25	
Aroclor 1232	65 U	110	65	1	08/29/25 04:29	8/27/25	
Aroclor 1242	58 U	110	58	1	08/29/25 04:29	8/27/25	
Aroclor 1248	62 U	110	62	1	08/29/25 04:29	8/27/25	
Aroclor 1254	58 U	110	58	1	08/29/25 04:29	8/27/25	
Aroclor 1260	58 U	110	58	1	08/29/25 04:29	8/27/25	
Aroclor 1262	58 U	110	58	1	08/29/25 04:29	8/27/25	
Aroclor 1268	58 U	110	58	1	08/29/25 04:29	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	85	10 - 138	08/29/25 04:29	
Tetrachloro-m-xylene	62	11 - 122	08/29/25 04:29	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: 08/14/25 11:15
Date Received: 08/20/25 09:30

Sample Name: 5242 SB03 (5-6)
Lab Code: R2510174-003

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	59 U	110	59	1	08/29/25 04:42	8/27/25	
Aroclor 1221	91 U	230	91	1	08/29/25 04:42	8/27/25	
Aroclor 1232	66 U	110	66	1	08/29/25 04:42	8/27/25	
Aroclor 1242	59 U	110	59	1	08/29/25 04:42	8/27/25	
Aroclor 1248	63 U	110	63	1	08/29/25 04:42	8/27/25	
Aroclor 1254	59 U	110	59	1	08/29/25 04:42	8/27/25	
Aroclor 1260	59 U	110	59	1	08/29/25 04:42	8/27/25	
Aroclor 1262	59 U	110	59	1	08/29/25 04:42	8/27/25	
Aroclor 1268	59 U	110	59	1	08/29/25 04:42	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	81	10 - 138	08/29/25 04:42	
Tetrachloro-m-xylene	57	11 - 122	08/29/25 04:42	

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Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: 08/14/25 11:05
Date Received: 08/20/25 09:30

Sample Name: 5242 SB01 (1-2)
Lab Code: R2510174-001

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	11	5.8	1	09/04/25 06:03	8/28/25	
2,4,5-TP	5.2 U	11	5.2	1	09/04/25 06:03	8/28/25	
2,4-D	7.5 U	11	7.5	1	09/04/25 06:03	8/28/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	58	10 - 151	09/04/25 06:03	

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Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: 08/14/25 11:10
Date Received: 08/20/25 09:30

Sample Name: 5242 SB02 (3-4)
Lab Code: R2510174-002

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	5.9 U	12	5.9	1	09/04/25 06:21	8/28/25	
2,4,5-TP	5.3 U	12	5.3	1	09/04/25 06:21	8/28/25	
2,4-D	7.7 U	12	7.7	1	09/04/25 06:21	8/28/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	55	10 - 151	09/04/25 06:21	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: 08/14/25 11:15
Date Received: 08/20/25 09:30

Sample Name: 5242 SB03 (5-6)
Lab Code: R2510174-003

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	6.0 U	12	6.0	1	09/04/25 06:40	8/28/25	
2,4,5-TP	5.4 U	12	5.4	1	09/04/25 06:40	8/28/25	
2,4-D	7.8 U	12	7.8	1	09/04/25 06:40	8/28/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	60	10 - 151	09/04/25 06:40	



General Chemistry

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Sample Name: 5242 SB01 (1-2)
Lab Code: R2510174-001

Service Request: R2510174
Date Collected: 08/14/25 11:05
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

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

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Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil
Sample Name: 5242 SB02 (3-4)
Lab Code: R2510174-002

Service Request: R2510174
Date Collected: 08/14/25 11:10
Date Received: 08/20/25 09:30
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	84.9	Percent	-	-	1	08/29/25 10:00	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Sample Name: 5242 SB03 (5-6)
Lab Code: R2510174-003

Service Request: R2510174
Date Collected: 08/14/25 11:15
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	84.9	Percent	-	-	1	08/29/25 10:00	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174

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
5242 SB01 (1-2)	R2510174-001	77	74	94
5242 SB02 (3-4)	R2510174-002	78	74	100
5242 SB03 (5-6)	R2510174-003	79	75	97
Method Blank	RQ2511422-01	83	83	115
Lab Control Sample	RQ2511422-02	64	58	83
Duplicate Lab Control Sample	RQ2511422-03	76	66	101

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Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511422-01

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

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

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511422-01

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

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

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

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Analyzed: 08/28/25

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

Units:ug/Kg
Basis:Dry

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Analyzed: 08/28/25

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

Units:ug/Kg
Basis:Dry

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

Printed 11/21/2025 9:52:10 AM

Superset Reference:25-0000743562 rev 00

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Analyzed: 08/28/25

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

Units:ug/Kg
Basis:Dry

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



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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

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

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174

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
5242 SB01 (1-2)	R2510174-001	67	59
5242 SB02 (3-4)	R2510174-002	76	65
5242 SB03 (5-6)	R2510174-003	70	66
Method Blank	RQ2511421-01	82	58
Lab Control Sample	RQ2511421-02	85	67
Duplicate Lab Control Sample	RQ2511421-03	83	56

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511421-01

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
4,4'-DDE	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
4,4'-DDT	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Aldrin	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Chlordane	4.2 U	8.3	4.2	1	08/29/25 19:03	8/27/25	
Dieldrin	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endosulfan I	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endosulfan II	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endosulfan Sulfate	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endrin	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endrin Aldehyde	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endrin Ketone	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Heptachlor	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Heptachlor Epoxide	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Methoxychlor	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Toxaphene	19 U	33	19	1	08/29/25 19:03	8/27/25	
alpha-BHC	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
alpha-Chlordane	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
beta-BHC	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
delta-BHC	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
gamma-BHC (Lindane)	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
gamma-Chlordane	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Analyzed: 08/29/25

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

Units:ug/Kg
Basis:Dry

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174

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
5242 SB01 (1-2)	R2510174-001	75	58
5242 SB02 (3-4)	R2510174-002	85	62
5242 SB03 (5-6)	R2510174-003	81	57
Method Blank	RQ2511421-01	79	53
Lab Control Sample	RQ2511421-04	88	64
Duplicate Lab Control Sample	RQ2511421-05	80	56

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511421-01

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	17 U	32	17	1	08/29/25 01:06	8/27/25	
Aroclor 1221	26 U	66	26	1	08/29/25 01:06	8/27/25	
Aroclor 1232	19 U	32	19	1	08/29/25 01:06	8/27/25	
Aroclor 1242	17 U	32	17	1	08/29/25 01:06	8/27/25	
Aroclor 1248	18 U	32	18	1	08/29/25 01:06	8/27/25	
Aroclor 1254	17 U	32	17	1	08/29/25 01:06	8/27/25	
Aroclor 1260	17 U	32	17	1	08/29/25 01:06	8/27/25	
Aroclor 1262	17 U	32	17	1	08/29/25 01:06	8/27/25	
Aroclor 1268	17 U	32	17	1	08/29/25 01:06	8/27/25	

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Analyzed: 08/29/25

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

Units:ug/Kg
Basis:Dry

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA
		10 - 151
5242 SB01 (1-2)	R2510174-001	58
5242 SB02 (3-4)	R2510174-002	55
5242 SB03 (5-6)	R2510174-003	60
Method Blank	RQ2511578-01	54
Lab Control Sample	RQ2511578-02	51
Duplicate Lab Control Sample	RQ2511578-03	52

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511578-01

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	5.0 U	9.9	5.0	1	09/04/25 04:31	8/28/25	
2,4,5-TP	4.5 U	9.9	4.5	1	09/04/25 04:31	8/28/25	
2,4-D	6.5 U	9.9	6.5	1	09/04/25 04:31	8/28/25	

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 5242 Bewick
Sample Matrix: Soil

Service Request: R2510174
Date Analyzed: 09/04/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ2511578-02

Duplicate Lab Control Sample
RQ2511578-03

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



right solutions.
right partner.

October 22, 2025

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

Re: **DETR0060**

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

Work Order: **HN2515188**

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: HN2515188
Date Received: 14-Oct-2025

CASE NARRATIVE

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

Sample Receipt

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

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Workorder: HN2515188

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2515188-001	5242 Bewick	SOIL/SOLID	10/13/25 14:27	10/14/25 07:00

REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

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

¹ - Scope available upon request

Analytical Report



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

Work Order: HN2515188
Date Collected: 10/13/25 14:27
Date Received: 10/14/25 07:00

CLIENT ID: 5242 Bewick **Lab ID: HN2515188-001**

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 21:03	10/17/25 10:29
Chromium	EPA 6020B	<0.00610	U	mg/L	0.0499	1	10/17/25 21:03	10/17/25 10:29

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2281437

Work Order: HN2515188
Date Collected: NA
Date Received: NA
Run ID: 3599113

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2281437-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 21:00
Prep Date: 10/17/25 10:30

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-2281437-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 21:01
Prep Date: 10/17/25 10:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	1.03	mg/L	0.0499	1		103	80-120			
Chromium	0.986	mg/L	0.0499	1		98.6	80-120			

MS	CLIENT ID: 5242 Bewick	Lab ID: QC-2281437-004
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 21:05
Prep Date: 10/17/25 10:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	1.02	mg/L	0.0499	1	0.00232	102	75-125			
Chromium	0.978	mg/L	0.0499	1	<0.00610	97.7	75-125			

MSD	CLIENT ID: 5242 Bewick	Lab ID: QC-2281437-005
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 21:07
Prep Date: 10/17/25 10:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	1.07	mg/L	0.0499	1	0.00232	106	75-125	4.56	20	
Chromium	1.04	mg/L	0.0499	1	<0.00610	104	75-125	6.44	20	

The following samples were analyzed in this batch: HN2515188-001

ANALYST SUMMARY



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

Work Order: HN2515188

Sample Name: 5242 Bewick
Laboratory Code: HN2515188-001
Sample Matrix: SOIL/SOLID

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

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AD	2281437	Chloe Patrick	3599113	Hunter Johnson



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information					Parameter/Method Request for Analysis					
Purchase Order		Project Name	5242 Bewick			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	Environmental Division Holland Work Order Reference HN2515188  Telephone : + 1 616 399 6070					
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188			F						
Phone	734-397-3100	Phone	734-397-3100			G						
Fax		Fax				H						
e-Mail Address	rmontri@manniksmithgroup.com	e-Mail Address				I						
						J						
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	Hold
1		10/13/25	14:27	Soil		2	X	X				
2												
3												
4												
5												
6												
7												
8												
9												
10												
Sampler(s): Please Print & Sign <i>Shannon Kacemonek</i>		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour			Results Due Date:					
Relinquished by: <i>[Signature]</i>	Date: 10/13/25	Time: 1547	Received by: <i>[Signature]</i>			Notes:						
Relinquished by: QS	Date: 10/14/25	Time: 0700	Received by (Laboratory): Brettag H 10/14/25 0700			Cooler Temp. 197 37C		QC Package: (Check Box Below)				
Logged by (Laboratory): BH	Date: 10/14/25	Time: 0945	Checked by (Laboratory):					Level II: Standard QC		TRRP-Checklist		
								Level III: Std QC + Raw Data		TRRP Level IV		
								Level IV: SW846 CLP-Like				
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035								Other:				

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

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

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

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ALS Holland Sample Receiving Checklist

Received by: Bullington H
 Date/Time: 10/14/25 0700
 Carrier Name: QS
 Shipping container/cooler in good condition? Yes / No / Not Present
 Custody seals intact on shipping container/cooler? Yes / No / Not Present
 Custody seals intact on sample bottles? Yes / No / Not Present
 Chain of Custody present? Yes / No
 COC signed when relinquished and received? Yes / No
 COC agrees with sample labels? Yes / No
 Samples in proper container/bottle? Yes / No
 Sample containers intact? Yes / No
 Sufficient sample volume for indicated test? Yes / No
 All samples received within holding time? Yes / No
 Container/Temp Blank temperature in compliance? Yes / No
 Temperature(s) (°C): 3.7 13.7 c
 Thermometer(s): IR7
 Sample(s) received on ice? Yes / No
 Matrix/Matrices: Soil
 Cooler(s)/Kit(s): 1
 Date/Time sample(s) sent to storage: 10/14/25 0945
 Water – VOA vials have zero headspace? Yes / No / No Vials
 Water – pH acceptable upon receipt? Yes / No / N/A
 pH strip lot #: _____ < 2 _____ > 12 _____ Other _____
 pH adjusted (note adjustments below)? Yes / No / N/A
 pH adjusted by: _____
 Login Notes: _____



right solutions.
right partner.

November 14, 2025

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

Re: **DETR0060 - 5242 Bewick**

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

Work Order: **HN2516061**

Revision: **1**

Dear Ryan,

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

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

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

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

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

Kathy Jones-Gronda

/S/ KATHY JONES-GRONDA

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick

Work Order: HN2516061
Date Received: 28-Oct-2025

CASE NARRATIVE

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

Sample Receipt

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

WorkOrder: HN2516061

This amended analytical report includes the additional analysis requested and supersedes the report dated 11/7/25. Please reference this version for all future use.

Organics

EPA 8270E-FULL HN-3546-S

Run ID: 3667671

The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: Atrazine
HN2516061-001: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

EPA 8081B-3546-S (High)

Run ID: 3641348

HN2516061-001: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

SAMPLE DETECTION SUMMARY

This form includes only detections above the limits as presented.

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



CLIENT ID: 5242 Bewick SB03 (3-4')-R			Lab ID: HN2516061-001		
Analyte	Results	Flag	MRL	Units	Method
Fluoranthene	218		218	µg/kg	EPA 8270E
Percent Moisture	15.9		0.1	%	EPA 3550C

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Workorder: HN2516061

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2516061-001	5242 Bewick SB03 (3-4')-R	SOIL/SOLID	10/27/25 13:17	10/28/25 06:00



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information			Project Information					ALS Project Manager:					Work Order #:				
Parameter/Method Request for Analysis			Project Information					Customer Information									
Purchase Order		Project Name	SZ42 BEWICK					A	Pesticides (U.S. EPA Method 8081B (or Method 8081))								
Work Order		Project Number	DETR0060					B	Herbicides (U.S. EPA Method 8151A (or Method 8151))								
Company Name	The Mannik and Smith Group		Bill To Company	The Mannik and Smith Group					C	SVO C ₃ (US EPA METHOD 8270D (or 8270))							
Send Report To	Ryan Montri		Invoice Attn.						D								
Address	2365 Haggerty Rd South Suite 100		Address	2365 Haggerty Rd South Suite 100					E								
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@manna-smithgroup.com		e-Mail Address						I								
								J									
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E						
1	SZ42 BEWICK SBO3 (3-4') - R	10/27/25	1317	S	NA	1	X	X	X								
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
Sampler(s): Please Print & Sign			Shipment Method:			Required Turnaround Time:			Other: 72 hours			Results Due Date:					
WILEY DAVENPORT						☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour											
Relinquished by:		Date:	Time:	Received by:		Notes:		Quote# HN-061825-M&S-MA									
WILEY DAVENPORT		10/27/25	1558	[Signature]		QS to Bullseye		10/28/25 0600									
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler Temp.		QC Package: (Check Box Below)									
[Signature]		10/27/25	1558	QS		127 5.8c		☐ Level II: Standard QC ☐ TRRP-Checklist									
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):				☐ Level III: Std QC + Raw Data ☐ TRRP Level IV									
BH		10/28/25	0839					☐ 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
HN2516061

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: Bullough

Date/Time: 10/28/25 0600

Carrier Name: QS

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

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

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

Chain of Custody present? Yes / No

COC signed when relinquished and received? Yes / No

COC agrees with sample labels? Yes / No

Samples in proper container/bottle? Yes / No

Sample containers intact? Yes / No

Sufficient sample volume for indicated test? Yes / No

All samples received within holding time? Yes / No

Container/Temp Blank temperature in compliance? Yes / No

Temperature(s) (°C): 5.8/5.8C

Thermometer(s): 1137

Sample(s) received on ice? Yes / No

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 10/28/25 0839

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

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

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

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

pH adjusted by: _____

Login Notes:

REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

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

¹ - Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick

Work Order: HN2516061

Sample Name: 5242 Bewick SB03 (3-4')-R
Laboratory Code: HN2516061-001
Sample Matrix: SOIL/SOLID

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

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AA	2302720		3631423	Nicole Maleski
EPA 8081B	EPA 3546	001-AA	2305050	Mya Harmer	3641348	Madison VandenBer
EPA 8081B	EPA 3511	001-AC	2331169	Mac Peterson	3682784	Sam Bruzan
EPA 8151A	Method	001-AA	2309163	Sam Bruzan	3642247	Kathy Malmyga
EPA 8270E	EPA 3546	001-AA	2319451	Willow Julien	3667671	Sam Bruzan

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID

Work Order: HN2516061
Date Collected: 10/27/25 13:17
Date Received: 10/28/25 06:00

CLIENT ID: 5242 Bewick SB03 (3-4')-R

Lab ID: HN2516061-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<2.64	U	µg/kg	14.3	1	10/30/25 18:06	10/29/25 10:50
2,4,5-TP (Silvex)	EPA 8151A	<4.70	U	µg/kg	14.3	1	10/30/25 18:06	10/29/25 10:50
2,4-D	EPA 8151A	<7.65	U	µg/kg	28.7	1	10/30/25 18:06	10/29/25 10:50
Surr: DCAA	EPA 8151A	50.0		%REC	10-116	1	10/30/25 18:06	10/29/25 10:50
General Chemistry Parameters								
Percent Moisture	EPA 3550C	15.9		%	0.1	1	10/28/25 11:36	NA
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<184	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
4,4'-DDE	EPA 8081B	<189	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
4,4'-DDT	EPA 8081B	<191	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
Aldrin	EPA 8081B	<187	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
alpha-BHC	EPA 8081B	<189	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
beta-BHC	EPA 8081B	<189	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
Chlordane, Technical	EPA 8081B	<285	U	µg/kg	719	10	10/30/25 02:06	10/29/25 11:36
cis-Chlordane	EPA 8081B	<192	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
delta-BHC	EPA 8081B	<188	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
Dieldrin	EPA 8081B	<201	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
Endosulfan I	EPA 8081B	<193	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
Endosulfan II	EPA 8081B	<190	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
Endosulfan sulfate	EPA 8081B	<177	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
Endrin	EPA 8081B	<233	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
Endrin aldehyde	EPA 8081B	<182	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
Endrin ketone	EPA 8081B	<175	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
gamma-BHC (Lindane)	EPA 8081B	<189	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
Heptachlor	EPA 8081B	<186	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
Heptachlor epoxide	EPA 8081B	<190	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
Methoxychlor	EPA 8081B	<192	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36
Toxaphene	EPA 8081B	<311	U	µg/kg	1730	10	10/30/25 02:06	10/29/25 11:36
trans-Chlordane	EPA 8081B	<191	U	µg/kg	288	10	10/30/25 02:06	10/29/25 11:36

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID

Work Order: HN2516061
Date Collected: 10/27/25 13:17
Date Received: 10/28/25 06:00

CLIENT ID: 5242 Bewick SB03 (3-4')-R

Lab ID: HN2516061-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
<i>Surr: Decachlorobiphenyl</i>	EPA 8081B	100		%REC	53-151	10	10/30/25 02:06	10/29/25 11:36
<i>Surr: Tetrachloro-m-xylene</i>	EPA 8081B	83.0		%REC	67-127	10	10/30/25 02:06	10/29/25 11:36

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<177	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<251	U	µg/kg	10900	10	11/06/25 20:44	11/05/25 12:25
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<781	U	µg/kg	5450	10	11/06/25 20:44	11/05/25 12:25
1-Methylnaphthalene	EPA 8270E	<157	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	<255	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
2,3,4,6-Tetrachlorophenol	EPA 8270E	<798	U	µg/kg	2180	10	11/06/25 20:44	11/05/25 12:25
2,4,5-Trichlorophenol	EPA 8270E	<645	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
2,4,6-Trichlorophenol	EPA 8270E	<290	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
2,4-Dichlorophenol	EPA 8270E	<586	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
2,4-Dimethylphenol	EPA 8270E	<560	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
2,4-Dinitrophenol	EPA 8270E	<7960	U	µg/kg	10900	10	11/06/25 20:44	11/05/25 12:25
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<707	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<278	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
2-Chloronaphthalene	EPA 8270E	<152	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
2-Chlorophenol	EPA 8270E	<713	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<910	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
2-Methylnaphthalene	EPA 8270E	<111	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
2-Methylphenol (o-Cresol)	EPA 8270E	<294	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
2-Nitroaniline	EPA 8270E	<605	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
2-Nitrophenol	EPA 8270E	<310	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
3&4-Methylphenol	EPA 8270E	<594	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
3,3'-Dichlorobenzidine	EPA 8270E	<508	U	µg/kg	5450	10	11/06/25 20:44	11/05/25 12:25
3-Nitroaniline	EPA 8270E	<632	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<597	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID

Work Order: HN2516061
Date Collected: 10/27/25 13:17
Date Received: 10/28/25 06:00

CLIENT ID: 5242 Bewick SB03 (3-4')-R

Lab ID: HN2516061-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
4-Chloro-3-methylphenol	EPA 8270E	<310	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
4-Chloroaniline	EPA 8270E	<554	U	µg/kg	2180	10	11/06/25 20:44	11/05/25 12:25
4-Chlorophenyl phenylether	EPA 8270E	<301	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
4-Nitroaniline	EPA 8270E	<1690	U	µg/kg	5450	10	11/06/25 20:44	11/05/25 12:25
4-Nitrophenol	EPA 8270E	<2550	U	µg/kg	10900	10	11/06/25 20:44	11/05/25 12:25
Acenaphthene	EPA 8270E	<157	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
Acenaphthylene	EPA 8270E	<189	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
Acetophenone	EPA 8270E	<171	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Anthracene	EPA 8270E	<154	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
Atrazine	EPA 8270E	<638	SU	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Benzaldehyde	EPA 8270E	<1670	U	µg/kg	2180	10	11/06/25 20:44	11/05/25 12:25
Benzo(a)anthracene	EPA 8270E	<188	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
Benzo(a)pyrene	EPA 8270E	<134	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
Benzo(b)fluoranthene	EPA 8270E	<162	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
Benzo(g,h,i)perylene	EPA 8270E	<167	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
Benzo(k)fluoranthene	EPA 8270E	<165	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
bis(2-Chloroethoxy) methane	EPA 8270E	<690	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
bis(2-Chloroethyl) ether	EPA 8270E	<308	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Butyl benzyl phthalate	EPA 8270E	<1360	U	µg/kg	2180	10	11/06/25 20:44	11/05/25 12:25
Caprolactam	EPA 8270E	<983	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Carbazole	EPA 8270E	<321	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Chrysene	EPA 8270E	<176	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	<901	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Dibenz(a,h) anthracene	EPA 8270E	<118	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Dibenzofuran	EPA 8270E	<160	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Diethyl phthalate	EPA 8270E	<371	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Dimethyl phthalate	EPA 8270E	<212	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Fluoranthene	EPA 8270E	218		µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
Fluorene	EPA 8270E	<158	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
Hexachlorobenzene	EPA 8270E	<317	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID

Work Order: HN2516061
Date Collected: 10/27/25 13:17
Date Received: 10/28/25 06:00

CLIENT ID: 5242 Bewick SB03 (3-4')-R

Lab ID: HN2516061-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Hexachlorobutadiene	EPA 8270E	<257	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Hexachlorocyclopentadiene	EPA 8270E	<1030	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Hexachloroethane	EPA 8270E	<451	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Indeno(1,2,3-cd) pyrene	EPA 8270E	<152	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
Isophorone	EPA 8270E	<213	U	µg/kg	5450	10	11/06/25 20:44	11/05/25 12:25
Methylphenol, Total	EPA 8270E	<294	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Naphthalene	EPA 8270E	<139	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
Nitrobenzene	EPA 8270E	<366	U	µg/kg	5450	10	11/06/25 20:44	11/05/25 12:25
n-Nitrosodi-n-propylamine	EPA 8270E	<180	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
N-Nitrosodiphenylamine	EPA 8270E	<631	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Pentachlorophenol	EPA 8270E	<865	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Phenanthrene	EPA 8270E	<101	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
Phenol	EPA 8270E	<547	U	µg/kg	1080	10	11/06/25 20:44	11/05/25 12:25
Pyrene	EPA 8270E	<109	U	µg/kg	218	10	11/06/25 20:44	11/05/25 12:25
Pyridine	EPA 8270E	<2140	U	µg/kg	5450	10	11/06/25 20:44	11/05/25 12:25
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	54.0		%REC	48-94	10	11/06/25 20:44	11/05/25 12:25
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	60.4		%REC	50-103	10	11/06/25 20:44	11/05/25 12:25
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	59.2		%REC	43-105	10	11/06/25 20:44	11/05/25 12:25
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	64.8		%REC	55-111	10	11/06/25 20:44	11/05/25 12:25
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	50.2		%REC	47-100	10	11/06/25 20:44	11/05/25 12:25
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	51.6		%REC	49-110	10	11/06/25 20:44	11/05/25 12:25

TCLP Organochlorine Pesticides by GC/ECD

Chlordane, Technical	EPA 8081B	<0.0338	U	µg/L	0.497	1	11/13/25 05:07	11/12/25 09:25
Endrin	EPA 8081B	<0.00846	U	µg/L	0.00994	1	11/13/25 05:07	11/12/25 09:25
gamma-BHC (Lindane)	EPA 8081B	<0.00827	U	µg/L	0.00994	1	11/13/25 05:07	11/12/25 09:25
Heptachlor	EPA 8081B	<0.00756	U	µg/L	0.00994	1	11/13/25 05:07	11/12/25 09:25
Heptachlor epoxide	EPA 8081B	<0.00789	U	µg/L	0.00994	1	11/13/25 05:07	11/12/25 09:25
Methoxychlor	EPA 8081B	<0.00983	U	µg/L	0.00994	1	11/13/25 05:07	11/12/25 09:25
Toxaphene	EPA 8081B	<0.109	U	µg/L	1.99	1	11/13/25 05:07	11/12/25 09:25
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	101		%REC	42-148	1	11/13/25 05:07	11/12/25 09:25
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	73.9		%REC	57-141	1	11/13/25 05:07	11/12/25 09:25



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID
QC Lot: 2309163

Work Order: HN2516061
Date Collected: NA
Date Received: NA
Run ID: 3642247

Chlorinated Herbicides by GC/ECD

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

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

MS	CLIENT ID: Batch QC	Lab ID: QC-2309163-005
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 10/30/25 17:02
Prep Date: 10/29/25 10:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	74.5	µg/kg	14.5	124.22	<2.29	60.0	10-119			
2,4,5-TP (Silvex)	72.0	µg/kg	14.5	124.22	<4.07	58.0	10-101			
2,4-D	72.0	µg/kg	29.0	124.22	<6.63	58.0	10-128			
Surr: DCAA	77.0	µg/kg		124.22		62.0	10-116			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2309163-006
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 10/30/25 17:15
Prep Date: 10/29/25 10:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	67.3	µg/kg	14.6	124.69	<2.29	54.0	10-119	10.2	30	
2,4,5-TP (Silvex)	64.8	µg/kg	14.6	124.69	<4.09	52.0	10-101	10.5	30	
2,4-D	67.3	µg/kg	29.1	124.69	<6.66	54.0	10-128	6.77	30	
Surr: DCAA	67.3	µg/kg		124.69		54.0	10-116	13.4	30	

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

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

The following samples were analyzed in this batch: HN2516061-001

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID
QC Lot: 2302720

Work Order: HN2516061
Date Collected: NA
Date Received: NA
Run ID: 3631423

General Chemistry Parameters

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

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

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

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

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

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	37.5	%	0.1	0	37.7	NC	0-0	0.559	10	

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

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	38.5	%	0.1	0	39.5	NC	0-0	2.51	10	

The following samples were analyzed in this batch: HN2516061-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID
QC Lot: 2305050

Work Order: HN2516061
Date Collected: NA
Date Received: NA
Run ID: 3641348

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2305050-001
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 10/29/25 23:02**Prep Date:** 10/29/25 11:37

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2305050-002
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 10/29/25 23:14**Prep Date:** 10/29/25 11:37

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID
QC Lot: 2305050

Work Order: HN2516061
Date Collected: NA
Date Received: NA
Run ID: 3641348

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2305050-002			
Method: EPA 8081B		Dilution: 1		Analysis Date: 10/29/25 23:14		Prep Date: 10/29/25 11:37			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Endrin aldehyde	36.8	µg/kg	10.0	33.33		111	41-147		
Endrin ketone	27.6	µg/kg	10.0	33.33		82.7	54-146		
gamma-BHC (Lindane)	30.6	µg/kg	10.0	33.33		91.9	58-145		
Heptachlor	31.8	µg/kg	10.0	33.33		95.3	51-145		
Heptachlor epoxide	30.7	µg/kg	10.0	33.33		92.1	59-143		
Methoxychlor	33.4	µg/kg	10.0	33.33		100	43-144		
trans-Chlordane	30.0	µg/kg	10.0	33.33		90.0	56-145		
Surr: Decachlorobiphenyl	29.8	µg/kg		33.33		89.3	51-151		
Surr: Tetrachloro-m-xylene	25.8	µg/kg		33.33		77.4	67-127		
The following samples were analyzed in this batch: HN2516061-001									



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516061
Date Collected: NA
Date Received: NA
Run ID: 3667671

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2319451-001
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 11/06/25 12:42**Prep Date:** 11/05/25 12:26

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516061
Date Collected: NA
Date Received: NA
Run ID: 3667671

MB	CLIENT ID: Method Blank	Lab ID: QC-2319451-001
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 11/06/25 12:42**Prep Date:** 11/05/25 12:26

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2319451-002
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 11/06/25 13:03**Prep Date:** 11/05/25 12:26

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516061
Date Collected: NA
Date Received: NA
Run ID: 3667671

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

Dilution: 1

Analysis Date: 11/06/25 13:03

Prep Date: 11/05/25 12:26

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



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516061
Date Collected: NA
Date Received: NA
Run ID: 3667671

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2319451-002
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 11/06/25 13:03**Prep Date:** 11/05/25 12:26

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

MS	CLIENT ID: Batch QC	Lab ID: QC-2319451-005
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 11/06/25 14:06**Prep Date:** 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	995	µg/kg	34.4	1308.5	<5.41	75.7	57-101			
1,2,4,5-Tetrachlorobenzene	1010	µg/kg	347	1308.5	<7.69	76.8	54-98			
1-Methylnaphthalene	1020	µg/kg	6.94	1308.5	<4.80	77.7	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	967	µg/kg	34.4	1308.5	<7.81	73.9	50-101			
2,3,4,6-Tetrachlorophenol	1050	µg/kg	69.4	1308.5	<24.4	80.1	48-103			
2,4,5-Trichlorophenol	1030	µg/kg	34.4	1308.5	<19.8	79.0	54-98			
2,4,6-Trichlorophenol	1110	µg/kg	34.4	1308.5	<8.87	84.9	56-97			
2,4-Dichlorophenol	971	µg/kg	34.4	1308.5	<17.9	74.2	54-99			
2,4-Dimethylphenol	1020	µg/kg	34.4	1308.5	<17.1	77.9	47-102			
2,4-Dinitrophenol	382	µg/kg	347	1308.5	<244	29.2	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1060	µg/kg	34.4	1308.5	<21.6	81.3	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1050	µg/kg	34.4	1308.5	<8.51	80.1	62-103			
2-Chloronaphthalene	1020	µg/kg	6.94	1308.5	<4.66	77.9	57-101			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516061
Date Collected: NA
Date Received: NA
Run ID: 3667671

MS	CLIENT ID: Batch QC	Lab ID: QC-2319451-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 14:06

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2-Chlorophenol	971	µg/kg	34.4	1308.5	<21.8	74.2	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	917	µg/kg	34.4	1308.5	<27.8	70.1	42-104			
2-Methylnaphthalene	974	µg/kg	6.94	1308.5	<3.39	74.4	55-102			
2-Methylphenol (o-Cresol)	995	µg/kg	34.4	1308.5	<9.01	76.1	54-103			
2-Nitroaniline	1010	µg/kg	34.4	1308.5	<18.5	77.2	57-103			
2-Nitrophenol	1020	µg/kg	34.4	1308.5	<9.50	77.6	52-102			
3&4-Methylphenol	978	µg/kg	34.4	1308.5	<18.2	74.8	56-103			
3,3'-Dichlorobenzidine	861	µg/kg	174	1308.5	<15.6	65.8	41-91			
3-Nitroaniline	739	µg/kg	34.4	1308.5	<19.4	56.5	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1020	µg/kg	34.4	1308.5	<18.3	78.3	63-104			
4-Chloro-3-methylphenol	1000	µg/kg	34.4	1308.5	<9.50	76.6	57-103			
4-Chloroaniline	1010	µg/kg	69.4	1308.5	<16.9	76.9	32-99			
4-Chlorophenyl phenylether	1050	µg/kg	34.4	1308.5	<9.21	80.5	62-100			
4-Nitroaniline	589	µg/kg	174	1308.5	<51.7	45.0	19-124			
4-Nitrophenol	1090	µg/kg	347	1308.5	<78.1	83.0	44-106			
Acenaphthene	1020	µg/kg	6.94	1308.5	<4.82	77.8	60-101			
Acenaphthylene	1030	µg/kg	6.94	1308.5	<5.78	79.0	59-101			
Acetophenone	946	µg/kg	34.4	1308.5	<5.22	72.3	54-102			
Anthracene	1030	µg/kg	6.94	1308.5	<4.70	78.9	63-96			
Atrazine	<19.5	µg/kg	34.4	1308.5	<19.5	0.00	60-110			SU
Benzaldehyde	350	µg/kg	69.4	1308.5	<51.2	26.8	10-143			
Benzo(a)anthracene	1050	µg/kg	6.94	1308.5	<5.76	80.2	66-102			
Benzo(a)pyrene	1080	µg/kg	6.94	1308.5	<4.09	82.9	66-105			
Benzo(b)fluoranthene	1090	µg/kg	6.94	1308.5	<4.97	83.1	67-105			
Benzo(g,h,i)perylene	1070	µg/kg	6.94	1308.5	<5.11	82.0	59-110			
Benzo(k)fluoranthene	1080	µg/kg	6.94	1308.5	<5.05	82.2	68-106			
bis(2-Chloroethoxy)methane	967	µg/kg	34.4	1308.5	<21.1	73.9	54-102			
bis(2-Chloroethyl) ether	965	µg/kg	34.4	1308.5	<9.44	73.7	51-101			
Butyl benzyl phthalate	1050	µg/kg	69.4	1308.5	<41.7	80.3	59-107			
Caprolactam	973	µg/kg	34.4	1308.5	<30.1	74.4	49-103			
Carbazole	1020	µg/kg	34.4	1308.5	<9.82	78.1	63-103			
Chrysene	1050	µg/kg	6.94	1308.5	<5.69	80.6	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1070	µg/kg	34.4	1308.5	32.5	79.7	63-101			
Dibenz(a,h) anthracene	1070	µg/kg	34.4	1308.5	<3.60	82.1	61-109			
Dibenzofuran	1040	µg/kg	34.4	1308.5	<4.90	79.5	61-101			
Diethyl phthalate	1030	µg/kg	34.4	1308.5	<11.3	78.7	63-105			
Dimethyl phthalate	1030	µg/kg	34.4	1308.5	<6.50	78.8	64-104			
Fluoranthene	1050	µg/kg	6.94	1308.5	<3.20	80.2	66-105			
Fluorene	1040	µg/kg	6.94	1308.5	<4.84	79.6	62-101			
Hexachlorobenzene	1020	µg/kg	34.4	1308.5	<9.70	77.8	61-104			
Hexachlorobutadiene	987	µg/kg	34.4	1308.5	<7.85	75.4	52-99			
Hexachlorocyclopentadiene	887	µg/kg	34.4	1308.5	<32.6	67.8	39-106			
Hexachloroethane	969	µg/kg	34.4	1308.5	<13.8	74.1	59-99			
Indeno(1,2,3-cd) pyrene	1180	µg/kg	6.94	1308.5	<4.64	90.5	57-114			



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516061
Date Collected: NA
Date Received: NA
Run ID: 3667671

MS		CLIENT ID: Batch QC				Lab ID: QC-2319451-005			
Method: EPA 8270E		Dilution: 1				Analysis Date: 11/06/25 14:06			
						Prep Date: 11/05/25 12:26			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Isophorone	965	µg/kg	174	1308.5	<6.51	73.8	55-101		
Methylphenol, Total	1970	µg/kg	67.0	2618	<9.01	75.4	54-103		
Naphthalene	995	µg/kg	6.94	1308.5	<4.26	76.0	54-99		
Nitrobenzene	961	µg/kg	174	1308.5	<11.2	73.5	53-100		
n-Nitrosodi-n-propylamine	963	µg/kg	34.4	1308.5	<5.50	73.6	52-104		
N-Nitrosodiphenylamine	1030	µg/kg	34.4	1308.5	<19.3	78.5	61-104		
Pentachlorophenol	1090	µg/kg	34.4	1308.5	<26.5	83.1	35-100		
Phenanthrene	1020	µg/kg	6.94	1308.5	<3.10	77.9	64-101		
Phenol	934	µg/kg	34.4	1308.5	<16.7	71.4	51-107		
Pyrene	1090	µg/kg	6.94	1308.5	<3.33	83.0	52-114		
Pyridine	834	µg/kg	174	1308.5	<65.6	63.8	40-84		
Surr: 2,4,6-Tribromophenol	2570	µg/kg		3271.7		78.6	48-94		
Surr: 2-Fluorobiphenyl	2420	µg/kg		3271.7		74.1	50-103		
Surr: 2-Fluorophenol	2380	µg/kg		3271.7		72.7	43-105		
Surr: 4-Terphenyl-d14	2490	µg/kg		3271.7		76.1	55-111		
Surr: Nitrobenzene-d5	2180	µg/kg		3271.7		66.7	47-100		
Surr: Phenol-d6	2360	µg/kg		3271.7		72.2	49-110		

MSD		CLIENT ID: Batch QC				Lab ID: QC-2319451-006			
Method: EPA 8270E		Dilution: 1				Analysis Date: 11/06/25 14:27			
						Prep Date: 11/05/25 12:26			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
1,1'-Biphenyl (BZ-0)	1020	µg/kg	34.5	1312.7	<5.41	77.2	57-101	2.21	30
1,2,4,5-Tetrachlorobenzene	1010	µg/kg	348	1312.7	<7.69	77.0	54-98	0.580	30
1-Methylnaphthalene	1030	µg/kg	6.96	1312.7	<4.80	78.1	56-100	0.898	30
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	962	µg/kg	34.5	1312.7	<7.81	73.3	50-101	0.428	30
2,3,4,6-Tetrachlorophenol	1040	µg/kg	69.6	1312.7	<24.4	79.4	48-103	0.495	30
2,4,5-Trichlorophenol	1060	µg/kg	34.5	1312.7	<19.8	80.6	54-98	2.26	30
2,4,6-Trichlorophenol	1060	µg/kg	34.5	1312.7	<8.87	80.9	56-97	4.51	30
2,4-Dichlorophenol	973	µg/kg	34.5	1312.7	<17.9	74.1	54-99	0.185	30
2,4-Dimethylphenol	1020	µg/kg	34.5	1312.7	<17.1	77.7	47-102	0.0626	30
2,4-Dinitrophenol	<244	µg/kg	348	1312.7	<244	26.4	10-100	NC	U
2,4-Dinitrotoluene (2,4-DNT)	1060	µg/kg	34.5	1312.7	<21.6	81.0	62-105	0.112	30
2,6-Dinitrotoluene (2,6-DNT)	1050	µg/kg	34.5	1312.7	<8.51	80.1	62-103	0.320	30
2-Chloronaphthalene	1010	µg/kg	6.96	1312.7	<4.66	76.9	57-101	0.972	30
2-Chlorophenol	966	µg/kg	34.5	1312.7	<21.8	73.6	52-102	0.560	30
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	844	µg/kg	34.5	1312.7	<27.8	64.3	42-104	8.32	30
2-Methylnaphthalene	1010	µg/kg	6.96	1312.7	<3.39	76.6	55-102	3.23	30
2-Methylphenol (o-Cresol)	1000	µg/kg	34.5	1312.7	<9.01	76.3	54-103	0.582	30
2-Nitroaniline	1000	µg/kg	34.5	1312.7	<18.5	76.4	57-103	0.657	30
2-Nitrophenol	1030	µg/kg	34.5	1312.7	<9.50	78.7	52-102	1.66	30
3&4-Methylphenol	999	µg/kg	34.5	1312.7	<18.2	76.1	56-103	2.04	30
3,3'-Dichlorobenzidine	846	µg/kg	174	1312.7	<15.6	64.5	41-91	1.75	30

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516061
Date Collected: NA
Date Received: NA
Run ID: 3667671

MSD	CLIENT ID: Batch QC	Lab ID: QC-2319451-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 14:27

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
3-Nitroaniline	690	µg/kg	34.5	1312.7	<19.4	52.6	35-107	6.92	30	
4-Bromophenyl phenyl ether (BDE-3)	1020	µg/kg	34.5	1312.7	<18.3	77.8	63-104	0.321	30	
4-Chloro-3-methylphenol	1020	µg/kg	34.5	1312.7	<9.50	77.5	57-103	1.49	30	
4-Chloroaniline	1030	µg/kg	69.6	1312.7	<16.9	78.2	32-99	1.93	30	
4-Chlorophenyl phenylether	1060	µg/kg	34.5	1312.7	<9.21	80.4	62-100	0.258	30	
4-Nitroaniline	571	µg/kg	174	1312.7	<51.7	43.5	19-124	3.19	30	
4-Nitrophenol	1100	µg/kg	348	1312.7	<78.1	83.5	44-106	0.981	30	
Acenaphthene	1010	µg/kg	6.96	1312.7	<4.82	77.3	60-101	0.390	30	
Acenaphthylene	1050	µg/kg	6.96	1312.7	<5.78	80.1	59-101	1.64	30	
Acetophenone	980	µg/kg	34.5	1312.7	<5.22	74.7	54-102	3.52	30	
Anthracene	1060	µg/kg	6.96	1312.7	<4.70	81.0	63-96	2.95	30	
Atrazine	<19.5	µg/kg	34.5	1312.7	<19.5	0.00	60-110			SU
Benzaldehyde	320	µg/kg	69.6	1312.7	<51.2	24.4	10-143	9.07	30	
Benzo(a)anthracene	1050	µg/kg	6.96	1312.7	<5.76	79.9	66-102	0.0551	30	
Benzo(a)pyrene	1100	µg/kg	6.96	1312.7	<4.09	84.2	66-105	1.88	30	
Benzo(b)fluoranthene	1070	µg/kg	6.96	1312.7	<4.97	81.9	67-105	1.20	30	
Benzo(g,h,i)perylene	1080	µg/kg	6.96	1312.7	<5.11	82.0	59-110	0.259	30	
Benzo(k)fluoranthene	1120	µg/kg	6.96	1312.7	<5.05	85.4	68-106	4.14	30	
bis(2-Chloroethoxy)methane	962	µg/kg	34.5	1312.7	<21.1	73.3	54-102	0.428	30	
bis(2-Chloroethyl) ether	993	µg/kg	34.5	1312.7	<9.44	75.6	51-101	2.87	30	
Butyl benzyl phthalate	1050	µg/kg	69.6	1312.7	<41.7	79.7	59-107	0.368	30	
Caprolactam	1010	µg/kg	34.5	1312.7	<30.1	76.6	49-103	3.24	30	
Carbazole	1030	µg/kg	34.5	1312.7	<9.82	78.4	63-103	0.703	30	
Chrysene	1070	µg/kg	6.96	1312.7	<5.69	81.2	66-105	1.06	30	
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1090	µg/kg	34.5	1312.7	32.5	80.7	63-101	1.47	30	
Dibenz(a,h) anthracene	1080	µg/kg	34.5	1312.7	<3.60	82.4	61-109	0.685	30	
Dibenzofuran	1040	µg/kg	34.5	1312.7	<4.90	79.4	61-101	0.194	30	
Diethyl phthalate	1050	µg/kg	34.5	1312.7	<11.3	80.2	63-105	2.15	30	
Dimethyl phthalate	1050	µg/kg	34.5	1312.7	<6.50	80.3	64-104	2.14	30	
Fluoranthene	1060	µg/kg	6.96	1312.7	<3.20	81.1	66-105	1.50	30	
Fluorene	1040	µg/kg	6.96	1312.7	<4.84	79.2	62-101	0.184	30	
Hexachlorobenzene	1000	µg/kg	34.5	1312.7	<9.70	76.2	61-104	1.82	30	
Hexachlorobutadiene	970	µg/kg	34.5	1312.7	<7.85	73.9	52-99	1.76	30	
Hexachlorocyclopentadiene	850	µg/kg	34.5	1312.7	<32.6	64.7	39-106	4.36	30	
Hexachloroethane	959	µg/kg	34.5	1312.7	<13.8	73.1	59-99	1.04	30	
Indeno(1,2,3-cd) pyrene	1200	µg/kg	6.96	1312.7	<4.64	91.2	57-114	1.09	30	
Isophorone	989	µg/kg	174	1312.7	<6.51	75.3	55-101	2.40	30	
Methylphenol, Total	2000	µg/kg	67.0	2626.3	<9.01	76.1	54-103	1.31	30	
Naphthalene	967	µg/kg	6.96	1312.7	<4.26	73.7	54-99	2.82	30	
Nitrobenzene	945	µg/kg	174	1312.7	<11.2	72.0	53-100	1.74	30	
n-Nitrosodi-n-propylamine	1010	µg/kg	34.5	1312.7	<5.50	77.3	52-104	5.22	30	
N-Nitrosodiphenylamine	1020	µg/kg	34.5	1312.7	<19.3	77.5	61-104	0.963	30	
Pentachlorophenol	1040	µg/kg	34.5	1312.7	<26.5	79.4	35-100	4.30	30	
Phenanthrene	1010	µg/kg	6.96	1312.7	<3.10	76.7	64-101	1.17	30	
Phenol	999	µg/kg	34.5	1312.7	<16.7	76.1	51-107	6.69	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516061
Date Collected: NA
Date Received: NA
Run ID: 3667671

MSD	CLIENT ID: Batch QC	Lab ID: QC-2319451-006
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Method: EPA 8270E **Dilution:** 1 **Analysis Date:** 11/06/25 14:27

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Pyrene	1070	µg/kg	6.96	1312.7	<3.33	81.8	52-114	1.14	30	
Pyridine	809	µg/kg	174	1312.7	<65.6	61.6	40-84	3.11	30	
Surr: 2,4,6-Tribromophenol	2520	µg/kg		3282.2		76.8	48-94	2.05	30	
Surr: 2-Fluorobiphenyl	2370	µg/kg		3282.2		72.2	50-103	2.17	30	
Surr: 2-Fluorophenol	2330	µg/kg		3282.2		71.0	43-105	2.05	30	
Surr: 4-Terphenyl-d14	2520	µg/kg		3282.2		76.9	55-111	1.34	30	
Surr: Nitrobenzene-d5	2160	µg/kg		3282.2		65.8	47-100	1.10	30	
Surr: Phenol-d6	2380	µg/kg		3282.2		72.6	49-110	0.872	30	

The following samples were analyzed in this batch: HN2516061-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 5242 Bewick
Matrix: SOIL/SOLID
QC Lot: 2331169

Work Order: HN2516061
Date Collected: NA
Date Received: NA
Run ID: 3682784

TCLP Organochlorine Pesticides by GC/ECD

MB **CLIENT ID:** Method Blank **Lab ID:** QC-MRG2-2331169001

Method: EPA 8081B

Dilution: 1

Analysis Date: 11/13/25 04:21

Prep Date: 11/12/25 09:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlordane, Technical	<0.0340	µg/L	0.500	0		NC	0-0			U
Endrin	<0.00851	µg/L	0.0100	0		NC	0-0			U
gamma-BHC (Lindane)	<0.00832	µg/L	0.0100	0		NC	0-0			U
Heptachlor	<0.00760	µg/L	0.0100	0		NC	0-0			U
Heptachlor epoxide	<0.00796	µg/L	0.0100	0		NC	0-0			U
Methoxychlor	<0.00989	µg/L	0.0100	0		NC	0-0			U
Toxaphene	<0.110	µg/L	2.00	0		NC	0-0			U
Surr: Decachlorobiphenyl	0.311	µg/L		0.25		124	0.42-148			
Surr: Tetrachloro-m-xylene	0.146	µg/L		0.25		58.5	57-141			

LCS **CLIENT ID:** Laboratory Control Sample **Lab ID:** QC-MRG2-2331169002

Method: EPA 8081B

Dilution: 1

Analysis Date: 11/13/25 04:33

Prep Date: 11/12/25 09:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Endrin	0.217	µg/L	0.0100	0.2		108	43-176			
gamma-BHC (Lindane)	0.216	µg/L	0.0100	0.2		108	63-158			
Heptachlor	0.184	µg/L	0.0100	0.2		92.1	47-166			
Heptachlor epoxide	0.221	µg/L	0.0100	0.2		111	63-164			
Methoxychlor	0.201	µg/L	0.0100	0.2		100	36-176			
Surr: Decachlorobiphenyl	0.305	µg/L		0.25		122	42-148			
Surr: Tetrachloro-m-xylene	0.189	µg/L		0.25		75.7	57-141			

DLCS **CLIENT ID:** Laboratory Control Sample Duplicate **Lab ID:** QC-MRG2-2331169003

Method: EPA 8081B

Dilution: 1

Analysis Date: 11/13/25 04:44

Prep Date: 11/12/25 09:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Endrin	0.216	µg/L	0.0100	0.2		108	43-176	0.0924	20	
gamma-BHC (Lindane)	0.213	µg/L	0.0100	0.2		107	63-158	1.21	20	
Heptachlor	0.183	µg/L	0.0100	0.2		91.7	47-166	0.435	20	
Heptachlor epoxide	0.219	µg/L	0.0100	0.2		109	63-164	1.18	20	
Methoxychlor	0.201	µg/L	0.0100	0.2		101	36-176	0.298	20	
Surr: Decachlorobiphenyl	0.299	µg/L		0.25		120	42-148	2.18	30	
Surr: Tetrachloro-m-xylene	0.191	µg/L		0.25		76.2	57-141	0.737	30	

The following samples were analyzed in this batch: HN2516061-001