

DRAFT

FILL MATERIAL SAMPLING REPORT

11050 PROMENADE AVENUE
DETROIT, WAYNE COUNTY, MICHIGAN 48213



OCTOBER 24, 2025
REVISED DECEMBER 12, 2025

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



FILL MATERIAL SAMPLING REPORT

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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 11050 Promenade Avenue, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location, as referenced to nearby roads and major geographic features, is shown on Figure 1, *Site Location Map*. Figure 2, *Site Layout*, depicts the current layout of the Site.

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

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

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

- The stratigraphy encountered during soil boring advancement of 11050 SB01, 11050 SB02, and 11050 SB03 generally consisted of four feet of tan sand with trace gravel underlain by gray and brown silty clay to six feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores ranged from 0.0 to 15.8 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.
- Concentrations of arsenic and chromium (Total) were detected in soil sample 11050 SB03 (5-6') in excess of their respective Part 201 drinking water protection criteria (DWPC), groundwater surface water interface protection criteria (GSIPC), and/or direct contact criteria (DCC).
- Concentrations of barium, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, pyrene, and zinc were detected in soil samples 11050 SB01 (1-2'), 11050 SB02 (3-4'), and/or 11050 SB03 (5-6') at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- Toxicity Characteristic Leaching Procedure (TCLP) laboratory analytical results revealed that concentrations of arsenic and chromium were not in excess of 40 C.F.R. § 261.24 Title 40 - *Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste*.
- VOCs, PCBs, pesticides, herbicides and chloride were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure

pathway can be considered not applicable. Given that the site is residential, exceedances of DCC may merit further consideration.

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

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

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 11050 Promenade Avenue, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location as referenced to nearby roads and major geographic features is presented as *Figure 1, Site Location Map*. *Figure 2, Site Layout*, depicts the current layout of the Site.

The purpose of this work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths. The scope of work for this investigation was performed in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. This report presents the findings of this investigation. Soil samples were collected by MSG on September 4, 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); semi-volatile organic compounds (SVOCs); polychlorinated biphenyls (PCBs); arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc (10 Michigan metals); chloride; herbicides; and pesticides. 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 September 4, 2025 and October 13, 2025. Daily field activity reports prepared by MSG are presented in *Appendix B, Daily Field Reports*.

3.1 Preliminary Site Work Activities

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

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

3.2 Soil Sample Collection

The sampling plan for the Site was based on the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and modified in the field (if necessary) based on encountered conditions and professional judgment of MSG's field personnel. MSG advanced three (3) soil borings, designated 11050 SB01, 11050 SB02, and 11050 SB03, using a direct push drill rig at the locations depicted on Figure 2. Photographs collected during completion of this work are provided in *Appendix C, Investigation Photographs*.

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

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

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

3.3 Toxicity Characteristic Leaching Procedure (TCLP) Soil Sample Collection

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

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

3.4 Decontamination

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

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

3.5 Analytical Methods

A total of three (3) soil samples designated 11050 SB01 (1-2'), 11050 SB02 (3-4'), and 11050 SB03 (5-6'), and one (1) composite soil sample designated 11050 SB03 TCLP were collected as part of this investigation. These soil samples were submitted to ALS Environmental Laboratory (ALS) in Holland, Michigan for laboratory analysis of the following parameters per the requested parameters as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and individual TCLP analysis:

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

3.6 Quality Assurance/Quality Control

Quality assurance and quality control (QA/QC) was achieved in the field by using MSG's standard operating procedures (SOPs) for sample collection, sample screening, sample preservation, and chain-of-custody protocols to ensure sample integrity. Per the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, duplicate soil samples and field 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 September 4, 2025 and October 13, 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 11050 SB01, 11050 SB02, and 11050 SB03 generally consisted of four feet of tan sand with trace gravel underlain by gray and brown silty clay to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 15.8 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities.

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

4.2 Soil Sample Analytical Results

Three (3) soil samples, designated 11050 SB01 (1-2'), 11050 SB02 (3-4'), and 11050 SB03 (5-6'), were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration ($\mu\text{g}/\text{kg}^1$)	Maximum Detected Concentration ($\mu\text{g}/\text{kg}$)
Arsenic	7440-38-2	11050 SB03 (5-6')	GSIPC ² / 4,600 DWPC ³ / 4,600 DCC ⁴ / 7,600	8,490
Chromium (Total)	7440-47-3	11050 SB03 (5-6')	GSIPC / 3,300	21,000

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

²GSIPC – Groundwater Surface Water Interface Protection Criteria

³DWPC – Drinking Water Protection Criteria

⁴DCC – Direct Contact Criteria

4.3 TCLP Analytical Results

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

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

4.4 Exposure Evaluation

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

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

5.0 FINDINGS

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

- The stratigraphy encountered during soil boring advancement of 11050 SB01, 11050 SB02, and 11050 SB03 generally consisted of four feet of tan sand with trace gravel underlain by gray and brown silty clay to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 15.8 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities.
- Concentrations of arsenic and chromium (Total) were detected in soil sample 11050 SB03 (5-6') in excess of their respective Part 201 DWPC, GSIPC, and/or DCC.

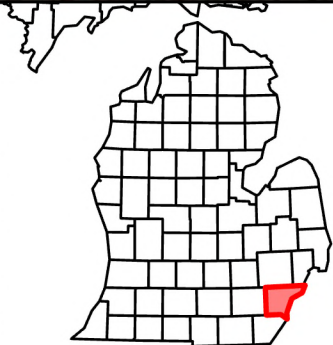
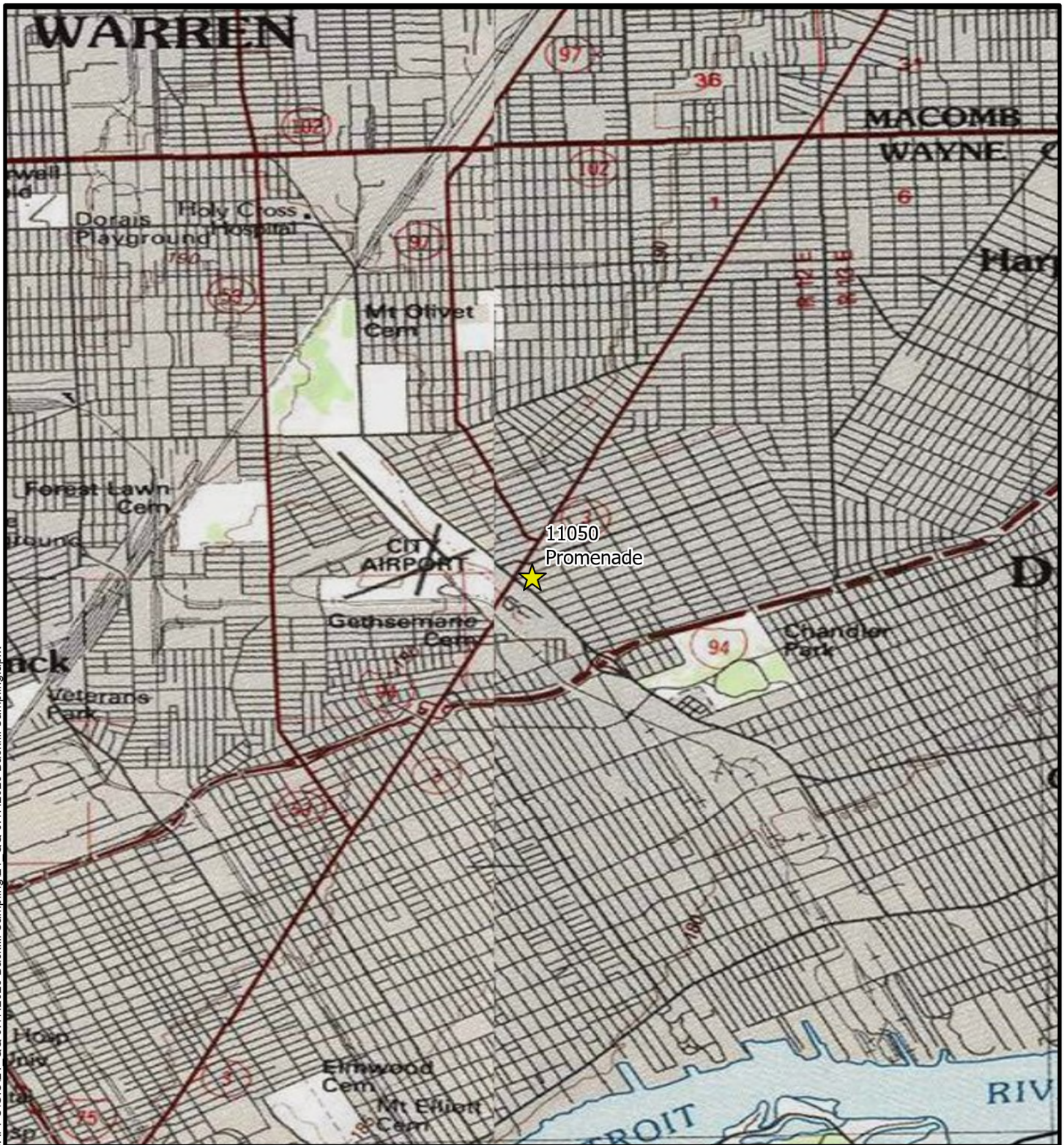
- Concentrations of barium, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, pyrene, and zinc were detected in soil samples 11050 SB01 (1-2'), 11050 SB02 (3-4'), and/or 11050 SB03 (5-6') at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- TCLP laboratory analytical results revealed that concentrations of arsenic and chromium were not in excess of 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste.
- VOCs, PCBs, pesticides, herbicides, and chloride were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the DW exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Given that the site is residential, exceedances of DCC may merit further consideration.

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

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

FIGURES





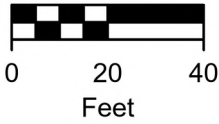
★ Site Location



FIGURE 1
SITE LOCATION

11050 Promenade, 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

11050 Promenade, 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
11050 Promenade, 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
				Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(a)pyrene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Pyrene	Arsenic	Barium (B)	Cadmium (B)	Chromium (Total)	Copper (B)	Lead (B)	Mercury (B,Z)	Selenium (B)	Silver (B)	Zinc (B)			Chloride
CAS Number				56-55-3	205-99-2	50-32-8	206-44-0	193-39-5	129-00-0	7440-38-2	7440-39-3	7440-43-9	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7782-49-2	7440-22-4	7440-66-6			16887006
Statewide Default Background Levels				NA	NA	NA	NA	NA	NA	5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000			NA
Calculated Soil Background Levels																						5.00E+06
Drinking Water Protection Criteria (DWPC)				NLL	NLL	NLL	7.3E+05	NLL	4.8E+05	4,600	1.3E+06	6,000	30,000	5.8E+06	7.0E+05	1,700	4,000	4,500	2.4E+06			(X)
Groundwater Surface Water Interface Protection Criteria (GSIPC)				NLL	NLL	NLL	5,500	NLL	ID	4,600	(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27	(G)			NLV
Soil Volatilization to Indoor Air Inhalation (SVIIC)				NLV	ID	NLV	1.0E+09 (D)	NLV	1.0E+09 (D)	NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV			--
Soil Volatilization to Indoor Air Pathway (SVIAP)				1.6E+05 (MM)	NA	NA	NA	NA	2.5E+07	NA	NA	NA	--	NA	NA	22 (M)	NA	NA	NA			NLV
Infinite Source Volatile Soil Inhalation Criteria (VSIC)				NLV	ID	NLV	7.4E+08	NLV	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV			NLV
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)				NLV	ID	NLV	7.4E+08	NLV	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV			NLV
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)				NLV	ID	NLV	7.4E+08	NLV	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV			ID
Particulate Soil Inhalation Criteria (PSIC)				ID	ID	1.5E+06	9.3E+09	ID	6.7E+09	7.2E+05	3.3E+08	1.7E+06	2.6E+05	1.3E+08	1.0E+08	2.0E+07	1.3E+08	6.7E+06	ID			5.0E+5 (F)
Direct Contact Criteria (DCC)				20,000	20,000	2,000	4.6E+07	20,000	2.9E+07	7,600	3.7E+07	5.5E+05	2.5E+06	2.0E+07	4.0E+05	1.6E+05	2.6E+06	2.5E+06	1.7E+08			NA
Soil Saturation Concentration Screening Levels (C _{sat})				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			--
Recommended Interim Action Screening Level (RIASL)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7E-02	NA	NA	NA			NA
SAMPLE ID	DEPTH	SAMPLE DATE																				
11050 SB01	1-2	9/4/2025	ND	<6.67	7.32	<6.67	<6.67	<6.67	<6.67	<3,180	8,510	<1,270	4,360	4,960	3,420	<20	<3,180	<3,180	18,900	ND	ND	ND
11050 SB02	3-4	9/4/2025	ND	9.14	14.8	11.9	18.3	10.5	13.4	<3,280	7,940	<1,310	3,560	4,970	<3,280	<20	<3,280	<3,280	17,800	ND	ND	ND
11050 SB03	5-6	9/4/2025	ND	<20.9	<20.9	<20.9	<20.9	<20.9	<20.9	8,490	65,100	<1,290	21,000	22,000	9,880	31.1	<3,240	<3,240	69,300	ND	ND	ND

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

Table 2
TCLP Analytical Detection Summary

Detroit Backfill Sampling
11050 Promenade, Detroit, Michigan

40 C.F.R. § 261.24 Code of Federal Regulations Title 40 - Protection of Environment Chapter I - Environmental Protection Agency Subchapter I - Solid Wastes Part 261- Identification and Listing of Hazardous Waste Subpart C - Characteristics of Hazardous Waste <i>Units: mg/L</i>		TCLP Metals	
		Arsenic	Chromium
Maximum Concentration of Contaminants for the Toxicity Characteristic		5.00	5.00
SAMPLE ID	SAMPLE DATE		
11050 SB03 TCLP	10/13/2025	<0.00190	<0.00610

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

APPENDIX A

LIMITATIONS



LIMITATIONS

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

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

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

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

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

APPENDIX B

DAILY FIELD REPORTS





DAILY FIELD REPORT

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

Report No.: 1
Job No.: DETR0060

Date: <u>09/04/2025</u>	Day: <u>Thursday</u>	Temp: <u>50 ° F</u> (AM) <u>60 ° F</u> (PM)
MSG Personnel: <u>SRK, BM</u>	Cloud Cover: <u>60%</u> (AM) <u>60%</u> (PM)	Precip.: <u>N/A</u> (AM) <u>N/A</u> (PM)
Personnel: <u>MSG</u>		
MSG Hours On-Site: <u>~ 1 hours</u>		

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

Summary of Work Performed:
- Advanced 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:
1100 – SRK onsite (11050 Promenade Avenue) 1102 – Marked out boring locations. 1105 – BM onsite 1110 – Unloaded and prepared equipment. 1122 – Began drilling SB01 1124 – Finished drilling SB01 1127 – Began drilling SB02 1130 – Finished drilling SB02 1132 – Sampled 11050 SB01 (1-2') 1132 – Began drilling SB03 1135 – Finished drilling SB03 1145 – Sampled 11050 SB02 (3-4') 1157 – Sampled 11050 SB03 (5-6') 1200 – Packed up equipment 1210 – MSG off site

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

**DAILY FIELD REPORT****Client:** City of Detroit Demolition Department**Project:** Sampling and Analysis of Fill Material**Report No.:** 2**Job No.:** DETR0060

Date: 10/13/2025	Day: Monday	Temp: 60 ° F	(AM)	N/A	(PM)
MSG Personnel: SRK, JF		Cloud Cover: 0%	(AM)	N/A	(PM)
		Precip.: N/A	(AM)	N/A	(PM)
Personnel: MSG					
MSG Hours On-Site: ~ 0.5 hours					
Contractors Information					
Contractor: MSG		No. Men and Type: 2; Operator/Geologist		Equipment Type: Geoprobe 7822DT	
Summary of Work Performed:					
- Advanced one (1) onsite soil borings to a maximum depth of 6 feet below ground surface (bgs) - Collected TCLP of fill material from soil boring (composite sample of from zero to 6 feet bgs).					
Field Notes:					
1048 – MSG (SRK, JF) onsite (11050 Promenade) 1050 – Attempted to locate previous boring locations. Marked out new boring location. 1100 – Began drilling SB03 TCLP 1102 – Finished drilling SB03 TCLP 1104 – Sampled 11050 Promenade SB03 TCLP 1115 – Collected GPS points 1120 – Packed up equipment 1125 – 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 ☒
				Field Note Book Taken	Yes ☒
Problem Identification and Corrective Measures					
N/A					
Resolved? Yes ☐ No ☐					

APPENDIX C

INVESTIGATION PHOTOGRAPHS





Photo 1: Viewing Site Pre-Drilling, Facing Southeast.

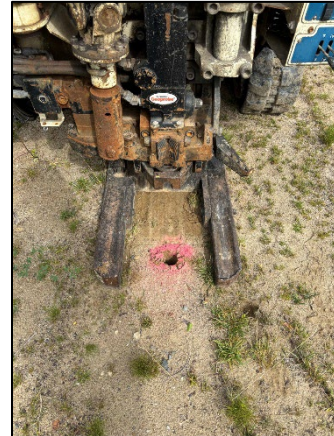


Photo 2: Viewing 11050 SB01 Drilling, Facing Southeast.



Photo 3: Viewing 11050 SB01 Soils, Facing Southeast.

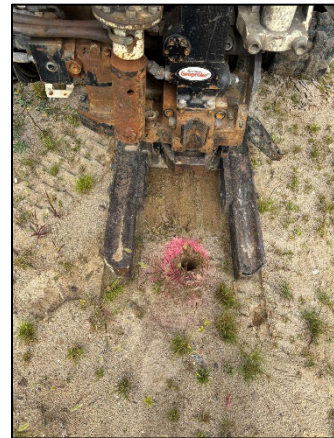


Photo 4: Viewing 11050 SB02 Drilling, Facing Southeast.



Photo 5: Viewing 11050 SB02 Soils, Facing Southeast.



Photo 6: Viewing 11050 SB03 Drilling, Facing Southeast.



Photo 7: Viewing 11050 SB03 Soils, Facing Southeast.



Photo 8: Viewing Site Post-Drilling, Facing Southeast.

APPENDIX D

SOIL BORING LOGS





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

BORING ID: SB01

PAGE 1 OF 1

CLIENT <u>City of Detroit</u>	PROJECT NAME <u>11050 Promenade</u>
PROJECT NUMBER <u>DETR0060</u>	PROJECT LOCATION <u>11050 Promenade Ave, Detroit, Michigan</u>
DATE STARTED <u>9/4/25</u> COMPLETED <u>9/4/25</u>	BORING DIAMETER: <u>3.25 inches</u>
DRILLING CONTRACTOR <u>MSG</u>	SURVEY COORDINATES: <u>N/A</u>
DRILLING METHOD <u>Direct Push</u>	GROUND SURFACE ELEV.: <u>N/A</u>
LOGGED BY <u>SRK</u> CHECKED BY <u>PDH</u>	GROUND WATER ENCOUNTERED DURING DRILLING: <u>Not Encountered</u>
NOTES	WATER LEVEL AFTER DRILLING: <u>N/A</u>

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 9/9/25 08:24 - W:\PROJECTS\PROJECTS A-EIDETRO060ADMIN\24 QQ 7.25.2025 BACKFILL SAMPLING (8 SITES)\11050 PROMENADE\BORING LOGS\DETR0060_11050.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Tan SAND, trace gravel, moist Becomes dry at 0.5 feet bgs	15.8		Collected soil sample 11050 SB01 (1-2) at 11:32
					Becomes moist at 3 feet bgs	1.5		
						0.3		
						0.0		
						0.0		
5					Gray and Brown Silty CLAY, trace gravel	0.0		
						0.0		
					Bottom of borehole at 6.0 feet.	0.0		



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

BORING ID: SB02

PAGE 1 OF 1

CLIENT	City of Detroit	PROJECT NAME	11050 Promenade
PROJECT NUMBER	DETR0060	PROJECT LOCATION	11050 Promenade Ave, Detroit, Michigan
DATE STARTED	9/4/25	COMPLETED	9/4/25
DRILLING CONTRACTOR	MSG	BORING DIAMETER:	3.25 inches
DRILLING METHOD	Direct Push	SURVEY COORDINATES:	N/A
LOGGED BY	SRK	CHECKED BY	PDH
NOTES	GROUND WATER ENCOUNTERED DURING DRILLING: Not Encountered		
		WATER LEVEL AFTER DRILLING: N/A	

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 9/9/25 08:24 - W:\PROJECTS\PROJECTS A-EIDETRO060\ADMIN\24 QQ 7.25.2025 BACKFILL SAMPLING (8 SITES)\11050 PROMENADE\BORING LOGS\DETR0060_11050.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Tan SAND, trace gravel, moist Becomes dry at 0.5 feet bgs	6.4		
						1.9		
					Becomes moist at 2.5 feet bgs	0.3		
					Becomes wet at 3.5 feet bgs	0.0		
					Gray and Brown Silty CLAY, trace gravel, moist	0.0		
5						0.0		
						0.0		
					Bottom of borehole at 6.0 feet.	0.0		



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

BORING ID: SB03

PAGE 1 OF 1

CLIENT	City of Detroit	PROJECT NAME	11050 Promenade
PROJECT NUMBER	DETR0060	PROJECT LOCATION	11050 Promenade Ave, Detroit, Michigan
DATE STARTED	9/4/25	COMPLETED	9/4/25
DRILLING CONTRACTOR	MSG	BORING DIAMETER:	3.25 inches
DRILLING METHOD	Direct Push	SURVEY COORDINATES:	N/A
LOGGED BY	SRK	CHECKED BY	PDH
NOTES	GROUND WATER ENCOUNTERED DURING DRILLING: Not Encountered		
		WATER LEVEL AFTER DRILLING: N/A	

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 9/9/25 08:24 - W:\PROJECTS\PROJECTS A-EIDETRO060\ADMIN\24 QQ 7.25.2025 BACKFILL SAMPLING (8 SITES)\11050 PROMENADE\BORING LOGS\DETR0060_11050.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Dark Brown Sandy CLAY, some gravel, dry	0.0		
				2.0		0.1		
					Brown Silty CLAY, some gravel, little sand, dry	0.0		
	MC 1	4.5				0.0		
5					Becomes moist at 5 feet bgs	0.0		
				6.0		0.0		
					Bottom of borehole at 6.0 feet.	0.0		
								Collected soil sample 11050 SB03 (5-6) at 11:57

APPENDIX E
LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

September 24, 2025

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

Re: **11050_Promenade**

Date Received: **09/03/2025**

Work Order: **HN2512786**

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/ **BRIAN GRZAN** on behalf of PM listed above

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade

Work Order: HN2512786
Date Received: 05-Sep-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 05-Sep-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 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: 11050 SB01 (1-2)	Lab ID: HN2512786-001
------------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Barium	8.51		3.18	mg/kg	EPA 6020B
Benzo(b)fluoranthene	7.32		6.67	µg/kg	EPA 8270E
Chromium	4.36		3.18	mg/kg	EPA 6020B
Copper	4.96		3.18	mg/kg	EPA 6020B
Lead	3.42		3.18	mg/kg	EPA 6020B
Percent Moisture	2.6		0.1	%	EPA 3550C
Zinc	18.9		6.35	mg/kg	EPA 6020B

CLIENT ID: 11050 SB02 (3-4)	Lab ID: HN2512786-002
------------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Barium	7.94		3.28	mg/kg	EPA 6020B
Benzo(a)anthracene	9.14	S	7.03	µg/kg	EPA 8270E
Benzo(a)pyrene	11.9	S	7.03	µg/kg	EPA 8270E
Benzo(b)fluoranthene	14.8		7.03	µg/kg	EPA 8270E
Chromium	3.56		3.28	mg/kg	EPA 6020B
Copper	4.97		3.28	mg/kg	EPA 6020B
Fluoranthene	18.3		7.03	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	10.5		7.03	µg/kg	EPA 8270E
Percent Moisture	5.6		0.1	%	EPA 3550C
Pyrene	13.4		7.03	µg/kg	EPA 8270E
Zinc	17.8		6.56	mg/kg	EPA 6020B

CLIENT ID: 11050 SB03 (5-6)	Lab ID: HN2512786-003
------------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	8.49		3.24	mg/kg	EPA 6020B
Barium	65.1		3.24	mg/kg	EPA 6020B
Chromium	21.0		3.24	mg/kg	EPA 6020B
Copper	22.0		3.24	mg/kg	EPA 6020B
Lead	9.88		3.24	mg/kg	EPA 6020B
Mercury	0.0311		0.0208	mg/kg	EPA 7471B
Percent Moisture	15.5		0.1	%	EPA 3550C
Zinc	69.3		6.47	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Workorder: HN2512786

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2512786-001	11050 SB01 (1-2)	SOIL/SOLID	09/04/25 11:32	09/05/25 08:00
HN2512786-002	11050 SB02 (3-4)	SOIL/SOLID	09/04/25 11:45	09/05/25 08:00
HN2512786-003	11050 SB03 (5-6)	SOIL/SOLID	09/04/25 11:57	09/05/25 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	11050_Promenade				A	VOCs (U.S. EPA Method 8260C (or Method 8260))													
Work Order		Project Number	DETR0060				B	SVOCs (U.S. EPA Method 8270D (or Method 8270))													
Company Name	The Mannik and Smith Group		Bill To Company	The Mannik and Smith Group				C	PCBs (U.S. EPA Method 8082)												
Send Report To	Ryan Montri		Invoice Attn					D	Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)												
Address	2365 Haggerty Rd South Suite 100		Address	2365 Haggerty Rd South Suite 100				E	Chorides (U.S. EPA Method 9056A)												
								F	Pesticides (U.S. EPA Method 8081B (or Method 8081))												
City/State/Zip	Canton, MI 48188		City/State/Zip	Canton, MI 48188				G	Herbicides (U.S. EPA Method 8151A (or Method 8151))												
Phone	734-397-3100		Phone	734-397-3100				H													
Fax			Fax					I													
e-Mail Address	RMontri@mannaiksmithgroup.com		e-Mail Address					J													

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	11050 SB01 (1-2)	9/4/25	1132	Soil	7	3	X	X	X	X	X	X	X				
2	11050 SB02 (3-4)		1145	Soil	7	3	X	X	X	X	X	X	X				
3	11050 SB03 (5-6)		1157	Soil	7	3	X	X	X	X	X	X	X				
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign <i>Shannon Maczunas</i>			Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour			Other _____					
Relinquished by: <i>Shannon Maczunas</i>		Date: 9/5/25	Time: 2:18	Received by: <i>Colin</i>		Notes: Quote# HN-061825-M&S-MA				Telephone : +1 616 399 6070			
Relinquished by: <i>[Signature]</i>		Date: 9/4/25	Time: 1700	Received by (Laboratory): QS		Cooler Temp. 20		QC Package: (Check Box Below)					
Logged by (Laboratory): <i>[Signature]</i>		Date: 9-5-25	Time: 2000	Checked by (Laboratory): <i>[Signature]</i>				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>
ALS copyright © 2024. All rights reserved.



ALS Holland Sample Receiving Checklist

Received by: _____

Date/Time: _____

Carrier Name: _____

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): _____

Thermometer(s): _____

Sample(s) received on ice?

Yes / No

Matrix/Matrices: _____

Cooler(s)/Kit(s): _____

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

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: 11050_Promenade

Work Order: HN2512786

Sample Name: 11050 SB01 (1-2) **Date Collected:** 09/04/25
Laboratory Code: HN2512786-001 **Date Received:** 09/05/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AA	2201631		3466958	Jacob Foley
EPA 6020B	EPA 3050B	001-AA	2209268	Weston Kotecki	3482195	Denise Coffey
EPA 7471B	Method	001-AA	2211818	Maxx Richey	3488236	Maxx Richey
EPA 8081B	EPA 3546	001-AA	2217472	Rachel Plantinga	3499942	Madison VandenBer
EPA 8082A	EPA 3546	001-AA	2215627	Rachel Plantinga	3500780	Nathaniel Dietlin
EPA 8151A	Method	001-AA	2222066	Willow Julien	3505092	Kathy Malmyga
EPA 8260D	EPA 5035A	001-AB	2202316	Jonathan Vazquez	3484265	John Garvale
EPA 8270E	EPA 3546	001-AA	2217295	Sam Bruzan	3523216	Sam Bruzan
EPA 9056A	EPA 9056A	001-AA	2202102	Quoc Nguyen	3468479	Quoc Nguyen

Sample Name: 11050 SB02 (3-4) **Date Collected:** 09/04/25
Laboratory Code: HN2512786-002 **Date Received:** 09/05/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AA	2201631		3466958	Jacob Foley
EPA 6020B	EPA 3050B	002-AA	2209268	Weston Kotecki	3482195	Denise Coffey
EPA 7471B	Method	002-AA	2211818	Maxx Richey	3488236	Maxx Richey
EPA 8081B	EPA 3546	002-AA	2217472	Rachel Plantinga	3499942	Madison VandenBer
EPA 8082A	EPA 3546	002-AA	2215627	Rachel Plantinga	3500780	Nathaniel Dietlin
EPA 8151A	Method	002-AA	2222066	Willow Julien	3505092	Kathy Malmyga
EPA 8260D	EPA 5035A	002-AB	2202316	Jonathan Vazquez	3484265	John Garvale
EPA 8270E	EPA 3546	002-AA	2217295	Sam Bruzan	3523216	Sam Bruzan
EPA 9056A	EPA 9056A	002-AA	2202102	Quoc Nguyen	3468479	Quoc Nguyen

Sample Name: 11050 SB03 (5-6) **Date Collected:** 09/04/25
Laboratory Code: HN2512786-003 **Date Received:** 09/05/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AA	2201631		3466958	Jacob Foley

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade

Work Order: HN2512786

Sample Name: 11050 SB03 (5-6)
Laboratory Code: HN2512786-003
Sample Matrix: SOIL/SOLID

Date Collected: 09/04/25
Date Received: 09/05/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3050B	003-AA	2209268	Weston Kotecki	3482195	Denise Coffey
EPA 7471B	Method	003-AA	2211818	Maxx Richey	3488236	Maxx Richey
EPA 8081B	EPA 3546	003-AA	2217472	Rachel Plantinga	3499942	Madison VandenBer
EPA 8082A	EPA 3546	003-AA	2215627	Rachel Plantinga	3500780	Nathaniel Dietlin
EPA 8151A	Method	003-AA	2222066	Willow Julien	3505092	Kathy Malmyga
EPA 8260D	EPA 5035A	003-AB	2202316	Jonathan Vazquez	3484189	Ali Cook
EPA 8270E	EPA 3546	003-AA	2217295	Sam Bruzan	3523216	Sam Bruzan
EPA 9056A	EPA 9056A	003-AA	2202102	Quoc Nguyen	3468479	Quoc Nguyen

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:32
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB01 (1-2) **Lab ID: HN2512786-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	2.6		%	0.1	1	09/05/25 13:36	NA
Chloride	EPA 9056A	ND		mg/kg	10.2	1	09/05/25 20:22	09/05/25 13:54
Metals								
Arsenic	EPA 6020B	ND		mg/kg	3.18	10	09/10/25 16:56	09/10/25 11:27
Barium	EPA 6020B	8.51		mg/kg	3.18	10	09/10/25 16:56	09/10/25 11:27
Cadmium	EPA 6020B	ND		mg/kg	1.27	10	09/10/25 16:56	09/10/25 11:27
Chromium	EPA 6020B	4.36		mg/kg	3.18	10	09/10/25 16:56	09/10/25 11:27
Copper	EPA 6020B	4.96		mg/kg	3.18	10	09/10/25 16:56	09/10/25 11:27
Lead	EPA 6020B	3.42		mg/kg	3.18	10	09/10/25 16:56	09/10/25 11:27
Selenium	EPA 6020B	ND		mg/kg	3.18	10	09/10/25 16:56	09/10/25 11:27
Silver	EPA 6020B	ND		mg/kg	3.18	10	09/10/25 16:56	09/10/25 11:27
Zinc	EPA 6020B	18.9		mg/kg	6.35	10	09/10/25 16:56	09/10/25 11:27
Mercury	EPA 7471B	ND		mg/kg	0.0200	1	09/12/25 09:58	09/12/25 08:10
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
4,4'-DDE	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
4,4'-DDT	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
Aldrin	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
alpha-BHC	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
beta-BHC	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
Chlordane, Technical	EPA 8081B	ND		µg/kg	39.4	1	09/16/25 12:21	09/15/25 11:32
cis-Chlordane	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
delta-BHC	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
Dieldrin	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
Endosulfan I	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
Endosulfan II	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
Endosulfan sulfate	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
Endrin	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
Endrin aldehyde	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
Endrin ketone	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
gamma-BHC (Lindane)	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:32
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB01 (1-2)	Lab ID: HN2512786-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Heptachlor	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
Heptachlor epoxide	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
Methoxychlor	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
Toxaphene	EPA 8081B	ND		µg/kg	94.5	1	09/16/25 12:21	09/15/25 11:32
trans-Chlordane	EPA 8081B	ND		µg/kg	15.8	1	09/16/25 12:21	09/15/25 11:32
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	132		%REC	53-151	1	09/16/25 12:21	09/15/25 11:32
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	94.4		%REC	67-127	1	09/16/25 12:21	09/15/25 11:32

Semivolatile Organic Compounds by GC

Aroclor 1016	EPA 8082A	ND		µg/kg	65.3	1	09/16/25 07:24	09/12/25 14:42
Aroclor 1221	EPA 8082A	ND		µg/kg	65.3	1	09/16/25 07:24	09/12/25 14:42
Aroclor 1232	EPA 8082A	ND		µg/kg	65.3	1	09/16/25 07:24	09/12/25 14:42
Aroclor 1242	EPA 8082A	ND		µg/kg	65.3	1	09/16/25 07:24	09/12/25 14:42
Aroclor 1248	EPA 8082A	ND		µg/kg	65.3	1	09/16/25 07:24	09/12/25 14:42
Aroclor 1254	EPA 8082A	ND		µg/kg	65.3	1	09/16/25 07:24	09/12/25 14:42
Aroclor 1260	EPA 8082A	ND		µg/kg	65.3	1	09/16/25 07:24	09/12/25 14:42
Aroclor 1262	EPA 8082A	ND		µg/kg	65.3	1	09/16/25 07:24	09/12/25 14:42
Aroclor 1268	EPA 8082A	ND		µg/kg	65.3	1	09/16/25 07:24	09/12/25 14:42
Total PCB	EPA 8082A	ND		µg/kg	65.3	1	09/16/25 07:24	09/12/25 14:42
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	93.1		%REC	54-146	1	09/16/25 07:24	09/12/25 14:42
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	80.7		%REC	58-140	1	09/16/25 07:24	09/12/25 14:42
2,4,5-T	EPA 8151A	ND		µg/kg	5.02	1	09/19/25 08:59	09/16/25 15:38
2,4,5-TP (Silvex)	EPA 8151A	ND		µg/kg	5.02	1	09/19/25 08:59	09/16/25 15:38
2,4-D	EPA 8151A	ND		µg/kg	10.0	1	09/19/25 08:59	09/16/25 15:38
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	50.0		%REC	10-116	1	09/19/25 08:59	09/16/25 15:38

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
1,2,4,5-Tetrachlorobenzene	EPA 8270E	ND		µg/kg	333	1	09/22/25 21:03	09/15/25 10:34
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	ND		µg/kg	167	1	09/22/25 21:03	09/15/25 10:34
1-Methylnaphthalene	EPA 8270E	ND		µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:32
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB01 (1-2) **Lab ID: HN2512786-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,3,4,6-Tetrachlorophenol	EPA 8270E	ND		µg/kg	67.0	1	09/22/25 21:03	09/15/25 10:34
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
2,4-Dichlorophenol	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
2,4-Dimethylphenol	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
2,4-Dinitrophenol	EPA 8270E	ND		µg/kg	333	1	09/22/25 21:03	09/15/25 10:34
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
2-Chloronaphthalene	EPA 8270E	ND		µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
2-Chlorophenol	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
2-Methylnaphthalene	EPA 8270E	ND		µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
2-Nitroaniline	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
2-Nitrophenol	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
3&4-Methylphenol	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
3,3'-Dichlorobenzidine	EPA 8270E	ND		µg/kg	167	1	09/22/25 21:03	09/15/25 10:34
3-Nitroaniline	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
4-Chloro-3-methylphenol	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
4-Chloroaniline	EPA 8270E	ND		µg/kg	67.0	1	09/22/25 21:03	09/15/25 10:34
4-Chlorophenyl phenylether	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
4-Nitroaniline	EPA 8270E	ND		µg/kg	167	1	09/22/25 21:03	09/15/25 10:34
4-Nitrophenol	EPA 8270E	ND		µg/kg	333	1	09/22/25 21:03	09/15/25 10:34
Acenaphthene	EPA 8270E	ND		µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
Acenaphthylene	EPA 8270E	ND		µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
Acetophenone	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Anthracene	EPA 8270E	ND		µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
Atrazine	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Benzaldehyde	EPA 8270E	ND		µg/kg	67.0	1	09/22/25 21:03	09/15/25 10:34

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:32
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB01 (1-2)	Lab ID: HN2512786-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Benzo(a)anthracene	EPA 8270E	ND	S	µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
Benzo(a)pyrene	EPA 8270E	ND	S	µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
Benzo(b)fluoranthene	EPA 8270E	7.32		µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
Benzo(g,h,i)perylene	EPA 8270E	ND		µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
Benzo(k)fluoranthene	EPA 8270E	ND	S	µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
bis(2-Chloroethoxy) methane	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
bis(2-Chloroethyl) ether	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Butyl benzyl phthalate	EPA 8270E	ND		µg/kg	67.0	1	09/22/25 21:03	09/15/25 10:34
Caprolactam	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Carbazole	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Chrysene	EPA 8270E	ND		µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Dibenz(a,h) anthracene	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Dibenzofuran	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Diethyl phthalate	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Dimethyl phthalate	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Di-n-butyl phthalate	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Di-n-octyl phthalate	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Fluoranthene	EPA 8270E	ND		µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
Fluorene	EPA 8270E	ND		µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
Hexachlorobenzene	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Hexachlorobutadiene	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Hexachlorocyclopentadiene	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Hexachloroethane	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Indeno(1,2,3-cd) pyrene	EPA 8270E	ND		µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
Isophorone	EPA 8270E	ND		µg/kg	167	1	09/22/25 21:03	09/15/25 10:34
Methylphenol, Total	EPA 8270E	ND		µg/kg	67.0	1	09/22/25 21:03	09/15/25 10:34
Naphthalene	EPA 8270E	ND		µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
Nitrobenzene	EPA 8270E	ND		µg/kg	167	1	09/22/25 21:03	09/15/25 10:34
n-Nitrosodi-n-propylamine	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
N-Nitrosodiphenylamine	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:32
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB01 (1-2) **Lab ID: HN2512786-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Pentachlorophenol	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Phenanthrene	EPA 8270E	ND		µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
Phenol	EPA 8270E	ND		µg/kg	33.0	1	09/22/25 21:03	09/15/25 10:34
Pyrene	EPA 8270E	ND		µg/kg	6.67	1	09/22/25 21:03	09/15/25 10:34
Pyridine	EPA 8270E	ND		µg/kg	167	1	09/22/25 21:03	09/15/25 10:34
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	71.3		%REC	48-94	1	09/22/25 21:03	09/15/25 10:34
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	75.4		%REC	50-103	1	09/22/25 21:03	09/15/25 10:34
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	77.7		%REC	43-105	1	09/22/25 21:03	09/15/25 10:34
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	82.6		%REC	55-111	1	09/22/25 21:03	09/15/25 10:34
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	70.0		%REC	47-100	1	09/22/25 21:03	09/15/25 10:34
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	80.2		%REC	49-110	1	09/22/25 21:03	09/15/25 10:34

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	106	1	09/10/25 20:55	09/05/25 15:26
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	106	1	09/10/25 20:55	09/05/25 15:26
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	106	1	09/10/25 20:55	09/05/25 15:26
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	106	1	09/10/25 20:55	09/05/25 15:26
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	106	1	09/10/25 20:55	09/05/25 15:26
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	63.6	1	09/10/25 20:55	09/05/25 15:26

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:32
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB01 (1-2)	Lab ID: HN2512786-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	212	1	09/10/25 20:55	09/05/25 15:26
2-Hexanone	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Acetone	EPA 8260D	ND		µg/kg	106	1	09/10/25 20:55	09/05/25 15:26
Benzene	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Bromochloromethane	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Bromodichloromethane	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Bromoform	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Carbon disulfide	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Carbon tetrachloride	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Chlorobenzene	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Chlorodibromomethane	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	106	1	09/10/25 20:55	09/05/25 15:26
Chloroform	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	63.6	1	09/10/25 20:55	09/05/25 15:26
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Cyclohexane	EPA 8260D	ND		µg/kg	106	1	09/10/25 20:55	09/05/25 15:26
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	106	1	09/10/25 20:55	09/05/25 15:26
Ethylbenzene	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Isopropylbenzene	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
m+p-Xylene	EPA 8260D	ND		µg/kg	63.6	1	09/10/25 20:55	09/05/25 15:26
Methyl acetate	EPA 8260D	ND		µg/kg	265	1	09/10/25 20:55	09/05/25 15:26
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	106	1	09/10/25 20:55	09/05/25 15:26
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	106	1	09/10/25 20:55	09/05/25 15:26
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Methylcyclohexane	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	265	1	09/10/25 20:55	09/05/25 15:26

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:32
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB01 (1-2) **Lab ID: HN2512786-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
o-Xylene	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Styrene	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Toluene	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Total Xylene	EPA 8260D	ND		µg/kg	95.5	1	09/10/25 20:55	09/05/25 15:26
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	31.8	1	09/10/25 20:55	09/05/25 15:26
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	94.2		%REC	80-120	1	09/10/25 20:55	09/05/25 15:26
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	99.4		%REC	80-120	1	09/10/25 20:55	09/05/25 15:26
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	89.6		%REC	72-120	1	09/10/25 20:55	09/05/25 15:26
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	104		%REC	80-120	1	09/10/25 20:55	09/05/25 15:26

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:45
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB02 (3-4) **Lab ID: HN2512786-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	5.6		%	0.1	1	09/05/25 13:36	NA
Chloride	EPA 9056A	ND		mg/kg	10.6	1	09/05/25 20:30	09/05/25 13:54
Metals								
Arsenic	EPA 6020B	ND		mg/kg	3.28	10	09/10/25 16:58	09/10/25 11:27
Barium	EPA 6020B	7.94		mg/kg	3.28	10	09/10/25 16:58	09/10/25 11:27
Cadmium	EPA 6020B	ND		mg/kg	1.31	10	09/10/25 16:58	09/10/25 11:27
Chromium	EPA 6020B	3.56		mg/kg	3.28	10	09/10/25 16:58	09/10/25 11:27
Copper	EPA 6020B	4.97		mg/kg	3.28	10	09/10/25 16:58	09/10/25 11:27
Lead	EPA 6020B	ND		mg/kg	3.28	10	09/10/25 16:58	09/10/25 11:27
Selenium	EPA 6020B	ND		mg/kg	3.28	10	09/10/25 16:58	09/10/25 11:27
Silver	EPA 6020B	ND		mg/kg	3.28	10	09/10/25 16:58	09/10/25 11:27
Zinc	EPA 6020B	17.8		mg/kg	6.56	10	09/10/25 16:58	09/10/25 11:27
Mercury	EPA 7471B	ND		mg/kg	0.0200	1	09/12/25 09:59	09/12/25 08:10
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
4,4'-DDE	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
4,4'-DDT	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
Aldrin	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
alpha-BHC	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
beta-BHC	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
Chlordane, Technical	EPA 8081B	ND		µg/kg	43.1	1	09/16/25 12:35	09/15/25 11:32
cis-Chlordane	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
delta-BHC	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
Dieldrin	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
Endosulfan I	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
Endosulfan II	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
Endosulfan sulfate	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
Endrin	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
Endrin aldehyde	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
Endrin ketone	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
gamma-BHC (Lindane)	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:45
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB02 (3-4) **Lab ID: HN2512786-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Heptachlor	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
Heptachlor epoxide	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
Methoxychlor	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
Toxaphene	EPA 8081B	ND		µg/kg	103	1	09/16/25 12:35	09/15/25 11:32
trans-Chlordane	EPA 8081B	ND		µg/kg	17.2	1	09/16/25 12:35	09/15/25 11:32
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	126		%REC	53-151	1	09/16/25 12:35	09/15/25 11:32
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	89.2		%REC	67-127	1	09/16/25 12:35	09/15/25 11:32

Semivolatile Organic Compounds by GC								
Aroclor 1016	EPA 8082A	ND		µg/kg	68.4	1	09/16/25 07:36	09/12/25 14:42
Aroclor 1221	EPA 8082A	ND		µg/kg	68.4	1	09/16/25 07:36	09/12/25 14:42
Aroclor 1232	EPA 8082A	ND		µg/kg	68.4	1	09/16/25 07:36	09/12/25 14:42
Aroclor 1242	EPA 8082A	ND		µg/kg	68.4	1	09/16/25 07:36	09/12/25 14:42
Aroclor 1248	EPA 8082A	ND		µg/kg	68.4	1	09/16/25 07:36	09/12/25 14:42
Aroclor 1254	EPA 8082A	ND		µg/kg	68.4	1	09/16/25 07:36	09/12/25 14:42
Aroclor 1260	EPA 8082A	ND		µg/kg	68.4	1	09/16/25 07:36	09/12/25 14:42
Aroclor 1262	EPA 8082A	ND		µg/kg	68.4	1	09/16/25 07:36	09/12/25 14:42
Aroclor 1268	EPA 8082A	ND		µg/kg	68.4	1	09/16/25 07:36	09/12/25 14:42
Total PCB	EPA 8082A	ND		µg/kg	68.4	1	09/16/25 07:36	09/12/25 14:42
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	123		%REC	54-146	1	09/16/25 07:36	09/12/25 14:42
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	107		%REC	58-140	1	09/16/25 07:36	09/12/25 14:42
2,4,5-T	EPA 8151A	ND		µg/kg	8.78	1	09/19/25 09:11	09/16/25 15:38
2,4,5-TP (Silvex)	EPA 8151A	ND		µg/kg	8.78	1	09/19/25 09:11	09/16/25 15:38
2,4-D	EPA 8151A	ND		µg/kg	17.6	1	09/19/25 09:11	09/16/25 15:38
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	46.0		%REC	10-116	1	09/19/25 09:11	09/16/25 15:38

Semivolatile Organic Compounds by GC-MS								
1,1'-Biphenyl (BZ-0)	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
1,2,4,5-Tetrachlorobenzene	EPA 8270E	ND		µg/kg	351	1	09/22/25 21:24	09/15/25 10:34
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	ND		µg/kg	176	1	09/22/25 21:24	09/15/25 10:34
1-Methylnaphthalene	EPA 8270E	ND		µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:45
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB02 (3-4) **Lab ID: HN2512786-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,3,4,6-Tetrachlorophenol	EPA 8270E	ND		µg/kg	70.3	1	09/22/25 21:24	09/15/25 10:34
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
2,4-Dichlorophenol	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
2,4-Dimethylphenol	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
2,4-Dinitrophenol	EPA 8270E	ND		µg/kg	351	1	09/22/25 21:24	09/15/25 10:34
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
2-Chloronaphthalene	EPA 8270E	ND		µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
2-Chlorophenol	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
2-Methylnaphthalene	EPA 8270E	ND		µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
2-Nitroaniline	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
2-Nitrophenol	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
3&4-Methylphenol	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
3,3'-Dichlorobenzidine	EPA 8270E	ND		µg/kg	176	1	09/22/25 21:24	09/15/25 10:34
3-Nitroaniline	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
4-Chloro-3-methylphenol	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
4-Chloroaniline	EPA 8270E	ND		µg/kg	70.3	1	09/22/25 21:24	09/15/25 10:34
4-Chlorophenyl phenylether	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
4-Nitroaniline	EPA 8270E	ND		µg/kg	176	1	09/22/25 21:24	09/15/25 10:34
4-Nitrophenol	EPA 8270E	ND		µg/kg	351	1	09/22/25 21:24	09/15/25 10:34
Acenaphthene	EPA 8270E	ND		µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
Acenaphthylene	EPA 8270E	ND		µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
Acetophenone	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Anthracene	EPA 8270E	ND		µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
Atrazine	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Benzaldehyde	EPA 8270E	ND		µg/kg	70.3	1	09/22/25 21:24	09/15/25 10:34

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:45
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB02 (3-4) **Lab ID: HN2512786-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Benzo(a)anthracene	EPA 8270E	9.14	S	µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
Benzo(a)pyrene	EPA 8270E	11.9	S	µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
Benzo(b)fluoranthene	EPA 8270E	14.8		µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
Benzo(g,h,i)perylene	EPA 8270E	ND		µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
Benzo(k)fluoranthene	EPA 8270E	ND	S	µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
bis(2-Chloroethoxy) methane	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
bis(2-Chloroethyl) ether	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Butyl benzyl phthalate	EPA 8270E	ND		µg/kg	70.3	1	09/22/25 21:24	09/15/25 10:34
Caprolactam	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Carbazole	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Chrysene	EPA 8270E	ND		µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Dibenz(a,h) anthracene	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Dibenzofuran	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Diethyl phthalate	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Dimethyl phthalate	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Di-n-butyl phthalate	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Di-n-octyl phthalate	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Fluoranthene	EPA 8270E	18.3		µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
Fluorene	EPA 8270E	ND		µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
Hexachlorobenzene	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Hexachlorobutadiene	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Hexachlorocyclopentadiene	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Hexachloroethane	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Indeno(1,2,3-cd) pyrene	EPA 8270E	10.5		µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
Isophorone	EPA 8270E	ND		µg/kg	176	1	09/22/25 21:24	09/15/25 10:34
Methylphenol, Total	EPA 8270E	ND		µg/kg	67.0	1	09/22/25 21:24	09/15/25 10:34
Naphthalene	EPA 8270E	ND		µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
Nitrobenzene	EPA 8270E	ND		µg/kg	176	1	09/22/25 21:24	09/15/25 10:34
n-Nitrosodi-n-propylamine	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
N-Nitrosodiphenylamine	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:45
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB02 (3-4) **Lab ID: HN2512786-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Pentachlorophenol	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Phenanthrene	EPA 8270E	ND		µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
Phenol	EPA 8270E	ND		µg/kg	34.8	1	09/22/25 21:24	09/15/25 10:34
Pyrene	EPA 8270E	13.4		µg/kg	7.03	1	09/22/25 21:24	09/15/25 10:34
Pyridine	EPA 8270E	ND		µg/kg	176	1	09/22/25 21:24	09/15/25 10:34
Surr: 2,4,6-Tribromophenol	EPA 8270E	56.0		%REC	48-94	1	09/22/25 21:24	09/15/25 10:34
Surr: 2-Fluorobiphenyl	EPA 8270E	64.8		%REC	50-103	1	09/22/25 21:24	09/15/25 10:34
Surr: 2-Fluorophenol	EPA 8270E	59.3		%REC	43-105	1	09/22/25 21:24	09/15/25 10:34
Surr: 4-Terphenyl-d14	EPA 8270E	72.2		%REC	55-111	1	09/22/25 21:24	09/15/25 10:34
Surr: Nitrobenzene-d5	EPA 8270E	61.5		%REC	47-100	1	09/22/25 21:24	09/15/25 10:34
Surr: Phenol-d6	EPA 8270E	63.9		%REC	49-110	1	09/22/25 21:24	09/15/25 10:34

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	114	1	09/10/25 21:14	09/05/25 15:26
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	114	1	09/10/25 21:14	09/05/25 15:26
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	114	1	09/10/25 21:14	09/05/25 15:26
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	114	1	09/10/25 21:14	09/05/25 15:26
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	114	1	09/10/25 21:14	09/05/25 15:26
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	68.2	1	09/10/25 21:14	09/05/25 15:26

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:45
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB02 (3-4) **Lab ID: HN2512786-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	228	1	09/10/25 21:14	09/05/25 15:26
2-Hexanone	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Acetone	EPA 8260D	ND		µg/kg	114	1	09/10/25 21:14	09/05/25 15:26
Benzene	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Bromochloromethane	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Bromodichloromethane	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Bromoform	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Carbon disulfide	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Carbon tetrachloride	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Chlorobenzene	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Chlorodibromomethane	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	114	1	09/10/25 21:14	09/05/25 15:26
Chloroform	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	68.2	1	09/10/25 21:14	09/05/25 15:26
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Cyclohexane	EPA 8260D	ND		µg/kg	114	1	09/10/25 21:14	09/05/25 15:26
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	114	1	09/10/25 21:14	09/05/25 15:26
Ethylbenzene	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Isopropylbenzene	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
m+p-Xylene	EPA 8260D	ND		µg/kg	68.2	1	09/10/25 21:14	09/05/25 15:26
Methyl acetate	EPA 8260D	ND		µg/kg	284	1	09/10/25 21:14	09/05/25 15:26
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	114	1	09/10/25 21:14	09/05/25 15:26
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	114	1	09/10/25 21:14	09/05/25 15:26
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Methylcyclohexane	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	284	1	09/10/25 21:14	09/05/25 15:26

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:45
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB02 (3-4) **Lab ID: HN2512786-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
o-Xylene	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Styrene	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Toluene	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Total Xylene	EPA 8260D	ND		µg/kg	102	1	09/10/25 21:14	09/05/25 15:26
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	34.1	1	09/10/25 21:14	09/05/25 15:26
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	95.5		%REC	80-120	1	09/10/25 21:14	09/05/25 15:26
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	100		%REC	80-120	1	09/10/25 21:14	09/05/25 15:26
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	89.7		%REC	72-120	1	09/10/25 21:14	09/05/25 15:26
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	105		%REC	80-120	1	09/10/25 21:14	09/05/25 15:26

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:57
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB03 (5-6) **Lab ID: HN2512786-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	15.5		%	0.1	1	09/05/25 13:36	NA
Chloride	EPA 9056A	ND		mg/kg	12.0	1	09/05/25 20:38	09/05/25 13:54
Metals								
Arsenic	EPA 6020B	8.49		mg/kg	3.24	10	09/10/25 16:59	09/10/25 11:27
Barium	EPA 6020B	65.1		mg/kg	3.24	10	09/10/25 16:59	09/10/25 11:27
Cadmium	EPA 6020B	ND		mg/kg	1.29	10	09/10/25 16:59	09/10/25 11:27
Chromium	EPA 6020B	21.0		mg/kg	3.24	10	09/10/25 16:59	09/10/25 11:27
Copper	EPA 6020B	22.0		mg/kg	3.24	10	09/10/25 16:59	09/10/25 11:27
Lead	EPA 6020B	9.88		mg/kg	3.24	10	09/10/25 16:59	09/10/25 11:27
Selenium	EPA 6020B	ND		mg/kg	3.24	10	09/10/25 16:59	09/10/25 11:27
Silver	EPA 6020B	ND		mg/kg	3.24	10	09/10/25 16:59	09/10/25 11:27
Zinc	EPA 6020B	69.3		mg/kg	6.47	10	09/10/25 16:59	09/10/25 11:27
Mercury	EPA 7471B	0.0311		mg/kg	0.0208	1	09/12/25 10:01	09/12/25 08:10
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
4,4'-DDE	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
4,4'-DDT	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
Aldrin	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
alpha-BHC	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
beta-BHC	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
Chlordane, Technical	EPA 8081B	ND		µg/kg	70.1	1	09/16/25 12:49	09/15/25 11:32
cis-Chlordane	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
delta-BHC	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
Dieldrin	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
Endosulfan I	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
Endosulfan II	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
Endosulfan sulfate	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
Endrin	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
Endrin aldehyde	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
Endrin ketone	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
gamma-BHC (Lindane)	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:57
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB03 (5-6) **Lab ID: HN2512786-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Heptachlor	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
Heptachlor epoxide	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
Methoxychlor	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
Toxaphene	EPA 8081B	ND		µg/kg	168	1	09/16/25 12:49	09/15/25 11:32
trans-Chlordane	EPA 8081B	ND		µg/kg	28.0	1	09/16/25 12:49	09/15/25 11:32
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	115		%REC	53-151	1	09/16/25 12:49	09/15/25 11:32
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	87.3		%REC	67-127	1	09/16/25 12:49	09/15/25 11:32

Semivolatile Organic Compounds by GC

Aroclor 1016	EPA 8082A	ND		µg/kg	164	1	09/16/25 07:47	09/12/25 14:42
Aroclor 1221	EPA 8082A	ND		µg/kg	164	1	09/16/25 07:47	09/12/25 14:42
Aroclor 1232	EPA 8082A	ND		µg/kg	164	1	09/16/25 07:47	09/12/25 14:42
Aroclor 1242	EPA 8082A	ND		µg/kg	164	1	09/16/25 07:47	09/12/25 14:42
Aroclor 1248	EPA 8082A	ND		µg/kg	164	1	09/16/25 07:47	09/12/25 14:42
Aroclor 1254	EPA 8082A	ND		µg/kg	164	1	09/16/25 07:47	09/12/25 14:42
Aroclor 1260	EPA 8082A	ND		µg/kg	164	1	09/16/25 07:47	09/12/25 14:42
Aroclor 1262	EPA 8082A	ND		µg/kg	164	1	09/16/25 07:47	09/12/25 14:42
Aroclor 1268	EPA 8082A	ND		µg/kg	164	1	09/16/25 07:47	09/12/25 14:42
Total PCB	EPA 8082A	ND		µg/kg	164	1	09/16/25 07:47	09/12/25 14:42
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	128		%REC	54-146	1	09/16/25 07:47	09/12/25 14:42
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	112		%REC	58-140	1	09/16/25 07:47	09/12/25 14:42
2,4,5-T	EPA 8151A	ND		µg/kg	5.86	1	09/19/25 10:51	09/16/25 15:38
2,4,5-TP (Silvex)	EPA 8151A	ND		µg/kg	5.86	1	09/19/25 10:51	09/16/25 15:38
2,4-D	EPA 8151A	ND		µg/kg	11.7	1	09/19/25 10:51	09/16/25 15:38
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	42.0		%REC	10-116	1	09/19/25 10:51	09/16/25 15:38

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
1,2,4,5-Tetrachlorobenzene	EPA 8270E	ND		µg/kg	1040	1	09/22/25 21:45	09/15/25 10:34
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	ND		µg/kg	522	1	09/22/25 21:45	09/15/25 10:34
1-Methylnaphthalene	EPA 8270E	ND		µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:57
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB03 (5-6) **Lab ID: HN2512786-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,3,4,6-Tetrachlorophenol	EPA 8270E	ND		µg/kg	209	1	09/22/25 21:45	09/15/25 10:34
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
2,4-Dichlorophenol	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
2,4-Dimethylphenol	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
2,4-Dinitrophenol	EPA 8270E	ND		µg/kg	1040	1	09/22/25 21:45	09/15/25 10:34
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
2-Chloronaphthalene	EPA 8270E	ND		µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
2-Chlorophenol	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
2-Methylnaphthalene	EPA 8270E	ND		µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
2-Nitroaniline	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
2-Nitrophenol	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
3&4-Methylphenol	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
3,3'-Dichlorobenzidine	EPA 8270E	ND		µg/kg	522	1	09/22/25 21:45	09/15/25 10:34
3-Nitroaniline	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
4-Chloro-3-methylphenol	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
4-Chloroaniline	EPA 8270E	ND		µg/kg	209	1	09/22/25 21:45	09/15/25 10:34
4-Chlorophenyl phenylether	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
4-Nitroaniline	EPA 8270E	ND		µg/kg	522	1	09/22/25 21:45	09/15/25 10:34
4-Nitrophenol	EPA 8270E	ND		µg/kg	1040	1	09/22/25 21:45	09/15/25 10:34
Acenaphthene	EPA 8270E	ND		µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
Acenaphthylene	EPA 8270E	ND		µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
Acetophenone	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Anthracene	EPA 8270E	ND		µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
Atrazine	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Benzaldehyde	EPA 8270E	ND		µg/kg	209	1	09/22/25 21:45	09/15/25 10:34

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:57
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB03 (5-6) **Lab ID: HN2512786-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Benzo(a)anthracene	EPA 8270E	ND	S	µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
Benzo(a)pyrene	EPA 8270E	ND	S	µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
Benzo(b)fluoranthene	EPA 8270E	ND		µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
Benzo(g,h,i)perylene	EPA 8270E	ND		µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
Benzo(k)fluoranthene	EPA 8270E	ND	S	µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
bis(2-Chloroethoxy) methane	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
bis(2-Chloroethyl) ether	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Butyl benzyl phthalate	EPA 8270E	ND		µg/kg	209	1	09/22/25 21:45	09/15/25 10:34
Caprolactam	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Carbazole	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Chrysene	EPA 8270E	ND		µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Dibenz(a,h) anthracene	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Dibenzofuran	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Diethyl phthalate	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Dimethyl phthalate	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Di-n-butyl phthalate	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Di-n-octyl phthalate	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Fluoranthene	EPA 8270E	ND		µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
Fluorene	EPA 8270E	ND		µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
Hexachlorobenzene	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Hexachlorobutadiene	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Hexachlorocyclopentadiene	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Hexachloroethane	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Indeno(1,2,3-cd) pyrene	EPA 8270E	ND		µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
Isophorone	EPA 8270E	ND		µg/kg	522	1	09/22/25 21:45	09/15/25 10:34
Methylphenol, Total	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Naphthalene	EPA 8270E	ND		µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
Nitrobenzene	EPA 8270E	ND		µg/kg	522	1	09/22/25 21:45	09/15/25 10:34
n-Nitrosodi-n-propylamine	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
N-Nitrosodiphenylamine	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:57
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB03 (5-6) **Lab ID: HN2512786-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Pentachlorophenol	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Phenanthrene	EPA 8270E	ND		µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
Phenol	EPA 8270E	ND		µg/kg	103	1	09/22/25 21:45	09/15/25 10:34
Pyrene	EPA 8270E	ND		µg/kg	20.9	1	09/22/25 21:45	09/15/25 10:34
Pyridine	EPA 8270E	ND		µg/kg	522	1	09/22/25 21:45	09/15/25 10:34
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	52.3		%REC	48-94	1	09/22/25 21:45	09/15/25 10:34
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	65.2		%REC	50-103	1	09/22/25 21:45	09/15/25 10:34
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	61.2		%REC	43-105	1	09/22/25 21:45	09/15/25 10:34
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	71.0		%REC	55-111	1	09/22/25 21:45	09/15/25 10:34
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	62.0		%REC	47-100	1	09/22/25 21:45	09/15/25 10:34
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	63.1		%REC	49-110	1	09/22/25 21:45	09/15/25 10:34

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	139	1	09/10/25 17:12	09/05/25 15:26
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	139	1	09/10/25 17:12	09/05/25 15:26
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	139	1	09/10/25 17:12	09/05/25 15:26
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	139	1	09/10/25 17:12	09/05/25 15:26
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	139	1	09/10/25 17:12	09/05/25 15:26
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	83.3	1	09/10/25 17:12	09/05/25 15:26

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:57
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB03 (5-6)	Lab ID: HN2512786-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	278	1	09/10/25 17:12	09/05/25 15:26
2-Hexanone	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Acetone	EPA 8260D	ND		µg/kg	139	1	09/10/25 17:12	09/05/25 15:26
Benzene	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Bromochloromethane	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Bromodichloromethane	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Bromoform	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Carbon disulfide	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Carbon tetrachloride	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Chlorobenzene	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Chlorodibromomethane	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	139	1	09/10/25 17:12	09/05/25 15:26
Chloroform	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	83.3	1	09/10/25 17:12	09/05/25 15:26
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Cyclohexane	EPA 8260D	ND		µg/kg	139	1	09/10/25 17:12	09/05/25 15:26
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	139	1	09/10/25 17:12	09/05/25 15:26
Ethylbenzene	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Isopropylbenzene	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
m+p-Xylene	EPA 8260D	ND		µg/kg	83.3	1	09/10/25 17:12	09/05/25 15:26
Methyl acetate	EPA 8260D	ND		µg/kg	347	1	09/10/25 17:12	09/05/25 15:26
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	139	1	09/10/25 17:12	09/05/25 15:26
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	139	1	09/10/25 17:12	09/05/25 15:26
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Methylcyclohexane	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	347	1	09/10/25 17:12	09/05/25 15:26

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID

Work Order: HN2512786
Date Collected: 09/04/25 11:57
Date Received: 09/05/25 08:00

CLIENT ID: 11050 SB03 (5-6) **Lab ID: HN2512786-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
o-Xylene	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Styrene	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Toluene	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Total Xylene	EPA 8260D	ND		µg/kg	125	1	09/10/25 17:12	09/05/25 15:26
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	41.6	1	09/10/25 17:12	09/05/25 15:26
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	09/10/25 17:12	09/05/25 15:26
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	88.0		%REC	80-120	1	09/10/25 17:12	09/05/25 15:26
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	78.4		%REC	72-120	1	09/10/25 17:12	09/05/25 15:26
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	99.0		%REC	80-120	1	09/10/25 17:12	09/05/25 15:26

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2201631

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3466958

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2201631-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 09/05/25 13:36
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	ND	%	0.1							

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2201631-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 09/05/25 13:36
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-2201631-004
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 09/05/25 13:36
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	11.6	%	0.1		10.7			8.01	10	

DUP	CLIENT ID: Batch QC	Lab ID: QC-2201631-015
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 09/05/25 13:36
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	15.7	%	0.1		16.8			6.96	10	

The following samples were analyzed in this batch: HN2512786-001, HN2512786-002, HN2512786-003



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2202102

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3468479

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2202102-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 09/05/25 17:40
Prep Date: 09/05/25 13:55

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	ND	mg/kg	10.0							

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2202102-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 09/05/25 17:48
Prep Date: 09/05/25 13:55

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	106	mg/kg	10.0	100		106	87-110			

MS	CLIENT ID: Batch QC	Lab ID: QC-2202102-004
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 09/05/25 18:04
Prep Date: 09/05/25 13:55

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	104	mg/kg	10.8	100.2	<10.8	101	87-110			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2202102-005
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 09/05/25 18:12
Prep Date: 09/05/25 13:55

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	104	mg/kg	10.7	99.8	<10.8	100	87-110	0.871	15	

The following samples were analyzed in this batch: HN2512786-001, HN2512786-002, HN2512786-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2209268

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3482195

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2209268-001
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Method: EPA 6020B**Dilution:** 1**Analysis Date:** 09/10/25 16:29**Prep Date:** 09/10/25 11:28

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	ND	mg/kg	0.250							
Barium	ND	mg/kg	0.250							
Cadmium	ND	mg/kg	0.100							
Chromium	ND	mg/kg	0.250							
Copper	ND	mg/kg	0.250							
Lead	ND	mg/kg	0.250							
Selenium	ND	mg/kg	0.250							
Silver	ND	mg/kg	0.250							
Zinc	ND	mg/kg	0.500							

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2209268-002
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Method: EPA 6020B**Dilution:** 1**Analysis Date:** 09/10/25 16:31**Prep Date:** 09/10/25 11:28

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.73	mg/kg	0.250	5		94.6	80-120			
Barium	4.89	mg/kg	0.250	5		97.8	80-120			
Cadmium	4.95	mg/kg	0.100	5		99.1	80-120			
Chromium	4.82	mg/kg	0.250	5		96.4	80-120			
Copper	4.82	mg/kg	0.250	5		96.4	80-120			
Lead	4.86	mg/kg	0.250	5		97.1	80-120			
Selenium	4.82	mg/kg	0.250	5		96.3	80-120			
Silver	4.87	mg/kg	0.250	5		97.4	80-120			
Zinc	4.69	mg/kg	0.500	5		93.8	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2209268-004
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Method: EPA 6020B**Dilution:** 10**Analysis Date:** 09/10/25 16:34**Prep Date:** 09/10/25 11:28

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	9.10	mg/kg	3.01	5.7339	<3.04	111	75-125			
Barium	15.5	mg/kg	3.01	5.7339	12.2	67.3	75-125			S
Cadmium	5.58	mg/kg	1.20	5.7339	ND	94.8	75-125			
Chromium	9.69	mg/kg	3.01	5.7339	3.73	107	75-125			
Copper	10.4	mg/kg	3.01	5.7339	5.75	86.1	75-125			
Lead	10.0	mg/kg	3.01	5.7339	7.92	43.2	75-125			S
Selenium	6.04	mg/kg	3.01	5.7339	ND	109	75-125			
Silver	5.48	mg/kg	3.01	5.7339	ND	95.2	75-125			
Zinc	27.3	mg/kg	6.01	5	28.7	NC	75-125			O

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2209268

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3482195

MSD	CLIENT ID: Batch QC	Lab ID: QC-2209268-005
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 09/10/25 16:36
Prep Date: 09/10/25 11:28

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	8.70	mg/kg	3.12	5.9453	<3.04	100	75-125	4.41	20	
Barium	16.1	mg/kg	3.12	5.9453	12.2	74.6	75-125	3.64	20	S
Cadmium	5.84	mg/kg	1.25	5.9453	ND	95.9	75-125	4.70	20	
Chromium	9.73	mg/kg	3.12	5.9453	3.73	104	75-125	0.365	20	
Copper	11.0	mg/kg	3.12	5.9453	5.75	93.3	75-125	5.66	20	
Lead	11.2	mg/kg	3.12	5.9453	7.92	61.5	75-125	11.1	20	S
Selenium	5.87	mg/kg	3.12	5.9453	ND	102	75-125	2.82	20	
Silver	5.79	mg/kg	3.12	5.9453	ND	97.1	75-125	5.55	20	
Zinc	29.0	mg/kg	6.24	5	28.7	NC	75-125	5.98	20	O

PDS	CLIENT ID: Batch QC	Lab ID: QC-2209268-007
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 09/10/25 16:39
Prep Date: 09/10/25 11:28

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	58.8	mg/kg	3.04	58.072	<3.04	96.5	75-125			
Barium	69.7	mg/kg	3.04	58.072	12.2	99.8	75-125			
Cadmium	57.5	mg/kg	1.22	58.072	ND	98.8	75-125			
Chromium	59.2	mg/kg	3.04	58.072	3.73	95.8	75-125			
Copper	60.3	mg/kg	3.04	58.072	5.75	94.4	75-125			
Lead	65.4	mg/kg	3.04	58.072	7.92	99.6	75-125			
Selenium	57.1	mg/kg	3.04	58.072	ND	98.7	75-125			
Silver	49.8	mg/kg	3.04	58.072	ND	85.8	75-125			
Zinc	83.1	mg/kg	6.09	58.072	28.7	96.0	75-125			

The following samples were analyzed in this batch: HN2512786-001, HN2512786-002, HN2512786-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2211818

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3488236

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2211818-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 09/12/25 09:17
Prep Date: 09/12/25 08:11

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	ND	mg/kg	0.0200							

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2211818-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 09/12/25 09:18
Prep Date: 09/12/25 08:11

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.179	mg/kg	0.0200	0.1665		108	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2211818-004
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 09/12/25 09:30
Prep Date: 09/12/25 08:11

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.175	mg/kg	0.0200	0.15757	0.0201	98.9	75-125			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2211818-005
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 09/12/25 09:32
Prep Date: 09/12/25 08:11

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.176	mg/kg	0.0201	0.15958	0.0201	98.1	75-125	0.365	35	

The following samples were analyzed in this batch: HN2512786-001, HN2512786-002, HN2512786-003



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2217472

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3499942

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2217472-001
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 09/16/25 08:31**Prep Date:** 09/15/25 11:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	ND	µg/kg	10.0							
4,4'-DDE	ND	µg/kg	10.0							
4,4'-DDT	ND	µg/kg	10.0							
Aldrin	ND	µg/kg	10.0							
alpha-BHC	ND	µg/kg	10.0							
beta-BHC	ND	µg/kg	10.0							
Chlordane, Technical	ND	µg/kg	25.0							
cis-Chlordane	ND	µg/kg	10.0							
delta-BHC	ND	µg/kg	10.0							
Dieldrin	ND	µg/kg	10.0							
Endosulfan I	ND	µg/kg	10.0							
Endosulfan II	ND	µg/kg	10.0							
Endosulfan sulfate	ND	µg/kg	10.0							
Endrin	ND	µg/kg	10.0							
Endrin aldehyde	ND	µg/kg	10.0							
Endrin ketone	ND	µg/kg	10.0							
gamma-BHC (Lindane)	ND	µg/kg	10.0							
Heptachlor	ND	µg/kg	10.0							
Heptachlor epoxide	ND	µg/kg	10.0							
Methoxychlor	ND	µg/kg	10.0							
Toxaphene	ND	µg/kg	60.0							
trans-Chlordane	ND	µg/kg	10.0							
Surr: Decachlorobiphenyl	45.6	µg/kg		33.33		137	53-151			
Surr: Tetrachloro-m-xylene	32.7	µg/kg		33.33		98.2	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2217472-002
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 09/16/25 08:45**Prep Date:** 09/15/25 11:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	34.8	µg/kg	10.0	33.33		104	55-141			
4,4'-DDE	34.3	µg/kg	10.0	33.33		103	55-143			
4,4'-DDT	36.2	µg/kg	10.0	33.33		109	50-144			
Aldrin	36.8	µg/kg	10.0	33.33		110	57-141			
alpha-BHC	39.8	µg/kg	10.0	33.33		119	58-144			
beta-BHC	40.3	µg/kg	10.0	33.33		121	55-147			
cis-Chlordane	36.6	µg/kg	10.0	33.33		110	58-142			
delta-BHC	39.3	µg/kg	10.0	33.33		118	59-142			
Dieldrin	39.0	µg/kg	10.0	33.33		117	59-142			
Endosulfan I	37.6	µg/kg	10.0	33.33		113	57-145			
Endosulfan II	38.4	µg/kg	10.0	33.33		115	58-138			
Endosulfan sulfate	37.2	µg/kg	10.0	33.33		112	54-136			
Endrin	36.2	µg/kg	10.0	33.33		108	45-150			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2217472

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3499942

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2217472-002
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Method: EPA 8081B

Dilution: 1

Analysis Date: 09/16/25 08:45

Prep Date: 09/15/25 11:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Endrin aldehyde	44.0	µg/kg	10.0	33.33		132	41-147			
Endrin ketone	37.2	µg/kg	10.0	33.33		111	54-146			
gamma-BHC (Lindane)	39.9	µg/kg	10.0	33.33		120	58-145			
Heptachlor	39.0	µg/kg	10.0	33.33		117	51-145			
Heptachlor epoxide	38.2	µg/kg	10.0	33.33		114	59-143			
Methoxychlor	36.1	µg/kg	10.0	33.33		108	43-144			
trans-Chlordane	37.9	µg/kg	10.0	33.33		114	56-145			
Surr: Decachlorobiphenyl	44.1	µg/kg		33.33		132	51-151			
Surr: Tetrachloro-m-xylene	31.2	µg/kg		33.33		93.6	67-127			

MS	CLIENT ID: Batch QC	Lab ID: QC-2217472-005
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Method: EPA 8081B

Dilution: 1

Analysis Date: 09/16/25 09:00

Prep Date: 09/15/25 11:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	38.5	µg/kg	10.2	32.683	ND	118	55-141			
4,4'-DDE	37.3	µg/kg	10.2	32.683	ND	114	55-143			
4,4'-DDT	40.6	µg/kg	10.2	32.683	ND	124	50-144			
Aldrin	39.7	µg/kg	10.2	32.683	ND	121	57-141			
alpha-BHC	43.3	µg/kg	10.2	32.683	ND	132	58-144			
beta-BHC	44.2	µg/kg	10.2	32.683	ND	135	55-147			
cis-Chlordane	39.6	µg/kg	10.2	32.683	ND	121	58-142			
delta-BHC	43.9	µg/kg	10.2	32.683	ND	134	59-142			
Dieldrin	42.3	µg/kg	10.2	32.683	ND	129	59-142			
Endosulfan I	41.0	µg/kg	10.2	32.683	ND	125	57-145			
Endosulfan II	41.8	µg/kg	10.2	32.683	ND	128	58-138			
Endosulfan sulfate	41.2	µg/kg	10.2	32.683	ND	126	54-135			
Endrin	41.2	µg/kg	10.2	32.683	ND	126	45-150			
Endrin aldehyde	49.0	µg/kg	10.2	32.683	ND	150	41-147			S
Endrin ketone	39.7	µg/kg	10.2	32.683	ND	122	54-146			
gamma-BHC (Lindane)	43.8	µg/kg	10.2	32.683	ND	134	58-145			
Heptachlor	43.3	µg/kg	10.2	32.683	ND	132	51-145			
Heptachlor epoxide	41.5	µg/kg	10.2	32.683	ND	127	59-143			
Methoxychlor	43.5	µg/kg	10.2	32.683	ND	133	43-144			
trans-Chlordane	41.6	µg/kg	10.2	32.683	ND	127	56-145			
Surr: Decachlorobiphenyl	46.0	µg/kg		32.683		141	53-151			
Surr: Tetrachloro-m-xylene	33.6	µg/kg		32.683		103	67-127			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2217472-006
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Method: EPA 8081B

Dilution: 1

Analysis Date: 09/16/25 09:14

Prep Date: 09/15/25 11:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	36.0	µg/kg	10.2	32.692	ND	110	55-141	6.72	20	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2217472

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3499942

MSD	CLIENT ID: Batch QC	Lab ID: QC-2217472-006
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Method: EPA 8081B

Dilution: 1

Analysis Date: 09/16/25 09:14

Prep Date: 09/15/25 11:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDE	34.5	µg/kg	10.2	32.692	ND	105	55-143	7.81	20	
4,4'-DDT	37.6	µg/kg	10.2	32.692	ND	115	50-144	7.71	20	
Aldrin	36.5	µg/kg	10.2	32.692	ND	112	57-141	8.34	20	
alpha-BHC	39.0	µg/kg	10.2	32.692	ND	119	58-144	10.2	20	
beta-BHC	40.2	µg/kg	10.2	32.692	ND	123	55-147	9.61	20	
cis-Chlordane	36.4	µg/kg	10.2	32.692	ND	111	58-142	8.62	20	
delta-BHC	39.5	µg/kg	10.2	32.692	ND	121	59-142	10.4	20	
Dieldrin	39.0	µg/kg	10.2	32.692	ND	119	59-142	8.26	20	
Endosulfan I	37.5	µg/kg	10.2	32.692	ND	115	57-145	8.89	20	
Endosulfan II	38.8	µg/kg	10.2	32.692	ND	118	58-138	7.68	20	
Endosulfan sulfate	38.0	µg/kg	10.2	32.692	ND	116	54-135	8.02	20	
Endrin	38.2	µg/kg	10.2	32.692	ND	117	45-150	7.55	20	
Endrin aldehyde	44.0	µg/kg	10.2	32.692	ND	135	41-147	10.6	20	
Endrin ketone	37.4	µg/kg	10.2	32.692	ND	114	54-146	6.16	20	
gamma-BHC (Lindane)	39.4	µg/kg	10.2	32.692	ND	121	58-145	10.6	20	
Heptachlor	39.0	µg/kg	10.2	32.692	ND	119	51-145	10.5	20	
Heptachlor epoxide	37.9	µg/kg	10.2	32.692	ND	116	59-143	8.94	20	
Methoxychlor	41.0	µg/kg	10.2	32.692	ND	125	43-144	6.01	20	
trans-Chlordane	37.6	µg/kg	10.2	32.692	ND	115	56-145	10.2	20	
Surr: Decachlorobiphenyl	43.2	µg/kg		32.692		132	53-151	6.09	30	
Surr: Tetrachloro-m-xylene	30.8	µg/kg		32.692		94.2	67-127	8.50	30	

The following samples were analyzed in this batch: HN2512786-001, HN2512786-002, HN2512786-003



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2215627

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3500780

Semivolatile Organic Compounds by GC

MB	CLIENT ID: Method Blank	Lab ID: QC-2215627-001
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 09/16/25 16:15
Prep Date: 09/12/25 14:43

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	ND	µg/kg	66.7							
Aroclor 1221	ND	µg/kg	66.7							
Aroclor 1232	ND	µg/kg	66.7							
Aroclor 1242	ND	µg/kg	66.7							
Aroclor 1248	ND	µg/kg	66.7							
Aroclor 1254	ND	µg/kg	66.7							
Aroclor 1260	ND	µg/kg	66.7							
Aroclor 1262	ND	µg/kg	66.7							
Aroclor 1268	ND	µg/kg	66.7							
Total PCB	ND	µg/kg	66.7							
Surr: Decachlorobiphenyl	51.0	µg/kg		33.3		153	54-146			S
Surr: Tetrachloro-m-xylene	38.1	µg/kg		33.3		114	58-140			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2215627-002
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 09/16/25 16:26
Prep Date: 09/12/25 14:43

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	843	µg/kg	66.7	833		101	71-135			
Aroclor 1260	791	µg/kg	66.7	833		94.9	67-135			
Surr: Decachlorobiphenyl	39.5	µg/kg		33.3		119	54-146			
Surr: Tetrachloro-m-xylene	34.8	µg/kg		33.3		105	58-140			

MS	CLIENT ID: Batch QC	Lab ID: QC-2215627-005
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 09/16/25 16:38
Prep Date: 09/12/25 14:43

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	1830	µg/kg	181	1765.9	ND	104	71-135			
Aroclor 1260	1800	µg/kg	181	1765.9	ND	102	67-135			
Surr: Decachlorobiphenyl	86.5	µg/kg		70.594		122	54-146			
Surr: Tetrachloro-m-xylene	74.6	µg/kg		70.594		106	58-140			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2215627-006
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 09/16/25 16:50
Prep Date: 09/12/25 14:43

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	1750	µg/kg	167	1623.5	ND	108	71-135	4.61	20	
Aroclor 1260	1720	µg/kg	167	1623.5	ND	106	67-135	4.60	20	
Surr: Decachlorobiphenyl	81.2	µg/kg		64.903		125	54-146	6.34	30	
Surr: Tetrachloro-m-xylene	70.4	µg/kg		64.903		108	58-140	5.83	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2215627

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3500780

The following samples were analyzed in this batch: HN2512786-001, HN2512786-002, HN2512786-003



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2222066

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3505092

Semivolatile Organic Compounds by GC

MB	CLIENT ID: Method Blank	Lab ID: QC-2222066-001
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 09/19/25 06:38
Prep Date: 09/16/25 15:39

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	ND	µg/kg	5.00							
2,4,5-TP (Silvex)	ND	µg/kg	5.00							
2,4-D	ND	µg/kg	10.0							
Surr: DCAA	22.0	µg/kg		50		44.0	10-116			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2222066-002
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 09/19/25 06:51
Prep Date: 09/16/25 15:39

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)	28.0	µg/kg	5.00	50		56.0	10-101			
2,4-D	29.0	µg/kg	10.0	50		58.0	10-128			
Surr: DCAA	30.0	µg/kg		50		60.0	10-116			

MS	CLIENT ID: Batch QC	Lab ID: QC-2222066-005
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 09/19/25 07:16
Prep Date: 09/16/25 15:39

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	25.7	µg/kg	6.35	49.46	ND	52.0	10-119			
2,4,5-TP (Silvex)	23.7	µg/kg	6.35	49.46	ND	48.0	10-101			
2,4-D	26.7	µg/kg	12.7	49.46	ND	54.0	10-128			
Surr: DCAA	28.7	µg/kg		49.46		58.0	10-116			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2222066-006
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 09/19/25 08:10
Prep Date: 09/16/25 15:39

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	24.7	µg/kg	6.35	49.455	ND	50.0	10-119	3.93	30	
2,4,5-TP (Silvex)	23.7	µg/kg	6.35	49.455	ND	48.0	10-101	0.0104	30	
2,4-D	25.7	µg/kg	12.7	49.455	ND	52.0	10-128	3.78	30	
Surr: DCAA	26.7	µg/kg		49.455		54.0	10-116	7.15	30	

The following samples were analyzed in this batch: HN2512786-001, HN2512786-002, HN2512786-003



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2217295

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3523216

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2217295-001
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 09/22/25 17:30**Prep Date:** 09/15/25 10:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	ND	µg/kg	33.0							
1,2,4,5-Tetrachlorobenzene	ND	µg/kg	333							
1,4-Dioxane (1,4- Diethyleneoxide)	ND	µg/kg	167							
1-Methylnaphthalene	ND	µg/kg	6.67							
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	ND	µg/kg	33.0							
2,3,4,6-Tetrachlorophenol	ND	µg/kg	67.0							
2,4,5-Trichlorophenol	ND	µg/kg	33.0							
2,4,6-Trichlorophenol	ND	µg/kg	33.0							
2,4-Dichlorophenol	ND	µg/kg	33.0							
2,4-Dimethylphenol	ND	µg/kg	33.0							
2,4-Dinitrophenol	ND	µg/kg	333							
2,4-Dinitrotoluene (2,4-DNT)	ND	µg/kg	33.0							
2,6-Dinitrotoluene (2,6-DNT)	ND	µg/kg	33.0							
2-Chloronaphthalene	ND	µg/kg	6.67							
2-Chlorophenol	ND	µg/kg	33.0							
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	ND	µg/kg	33.0							
2-Methylnaphthalene	ND	µg/kg	6.67							
2-Methylphenol (o-Cresol)	ND	µg/kg	33.0							
2-Nitroaniline	ND	µg/kg	33.0							
2-Nitrophenol	ND	µg/kg	33.0							
3&4-Methylphenol	ND	µg/kg	33.0							
3,3'-Dichlorobenzidine	ND	µg/kg	167							
3-Nitroaniline	ND	µg/kg	33.0							
4-Bromophenyl phenyl ether (BDE-3)	ND	µg/kg	33.0							
4-Chloro-3-methylphenol	ND	µg/kg	33.0							
4-Chloroaniline	ND	µg/kg	67.0							
4-Chlorophenyl phenylether	ND	µg/kg	33.0							
4-Nitroaniline	ND	µg/kg	167							
4-Nitrophenol	ND	µg/kg	333							
Acenaphthene	ND	µg/kg	6.67							
Acenaphthylene	ND	µg/kg	6.67							
Acetophenone	ND	µg/kg	33.0							
Anthracene	ND	µg/kg	6.67							
Atrazine	ND	µg/kg	33.0							
Benzaldehyde	ND	µg/kg	67.0							
Benzo(a)anthracene	ND	µg/kg	6.67							
Benzo(a)pyrene	ND	µg/kg	6.67							
Benzo(b)fluoranthene	ND	µg/kg	6.67							
Benzo(g,h,i)perylene	ND	µg/kg	6.67							
Benzo(k)fluoranthene	ND	µg/kg	6.67							
bis(2-Chloroethoxy)methane	ND	µg/kg	33.0							
bis(2-Chloroethyl) ether	ND	µg/kg	33.0							

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2217295

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3523216

MB	CLIENT ID: Method Blank	Lab ID: QC-2217295-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 09/22/25 17:30

Prep Date: 09/15/25 10:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Butyl benzyl phthalate	ND	µg/kg	67.0							
Caprolactam	ND	µg/kg	33.0							
Carbazole	ND	µg/kg	33.0							
Chrysene	ND	µg/kg	6.67							
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	ND	µg/kg	33.0							
Dibenz(a,h) anthracene	ND	µg/kg	33.0							
Dibenzofuran	ND	µg/kg	33.0							
Diethyl phthalate	ND	µg/kg	33.0							
Dimethyl phthalate	ND	µg/kg	33.0							
Di-n-butyl phthalate	ND	µg/kg	33.0							
Di-n-octyl phthalate	ND	µg/kg	33.0							
Fluoranthene	ND	µg/kg	6.67							
Fluorene	ND	µg/kg	6.67							
Hexachlorobenzene	ND	µg/kg	33.0							
Hexachlorobutadiene	ND	µg/kg	33.0							
Hexachlorocyclopentadiene	ND	µg/kg	33.0							
Hexachloroethane	ND	µg/kg	33.0							
Indeno(1,2,3-cd) pyrene	ND	µg/kg	6.67							
Isophorone	ND	µg/kg	167							
Methylphenol, Total	ND	µg/kg	67.0							
Naphthalene	ND	µg/kg	6.67							
Nitrobenzene	ND	µg/kg	167							
n-Nitrosodi-n-propylamine	ND	µg/kg	33.0							
N-Nitrosodiphenylamine	ND	µg/kg	33.0							
Pentachlorophenol	ND	µg/kg	33.0							
Phenanthrene	ND	µg/kg	6.67							
Phenol	ND	µg/kg	33.0							
Pyrene	ND	µg/kg	6.67							
Pyridine	ND	µg/kg	167							
Surr: 2,4,6-Tribromophenol	1900	µg/kg		3333		57.0	48-94			
Surr: 2-Fluorobiphenyl	2160	µg/kg		3333		64.7	50-103			
Surr: 2-Fluorophenol	2260	µg/kg		3333		67.7	43-105			
Surr: 4-Terphenyl-d14	2290	µg/kg		3333		68.6	55-111			
Surr: Nitrobenzene-d5	2110	µg/kg		3333		63.4	47-100			
Surr: Phenol-d6	2300	µg/kg		3333		68.9	49-110			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2217295-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 09/22/25 17:51

Prep Date: 09/15/25 10:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	867	µg/kg	33.0	1333		65.1	57-101			
1,2,4,5-Tetrachlorobenzene	875	µg/kg	33.0	1333		65.7	54-98			
1-Methylnaphthalene	877	µg/kg	6.67	1333		65.8	56-100			



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2217295

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3523216

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2217295-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 09/22/25 17:51

Prep Date: 09/15/25 10:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	875	µg/kg	33.0	1333		65.6	50-101			
2,3,4,6-Tetrachlorophenol	923	µg/kg	67.0	1333		69.3	48-103			
2,4,5-Trichlorophenol	865	µg/kg	33.0	1333		64.9	54-98			
2,4,6-Trichlorophenol	851	µg/kg	33.0	1333		63.9	56-97			
2,4-Dichlorophenol	875	µg/kg	33.0	1333		65.6	54-99			
2,4-Dimethylphenol	817	µg/kg	33.0	1333		61.3	47-102			
2,4-Dinitrophenol	865	µg/kg	333	1333		64.9	10-100			
2,4-Dinitrotoluene (2,4-DNT)	929	µg/kg	33.0	1333		69.7	62-105			
2,6-Dinitrotoluene (2,6-DNT)	931	µg/kg	33.0	1333		69.9	62-103			
2-Chloronaphthalene	879	µg/kg	6.67	1333		65.9	57-101			
2-Chlorophenol	905	µg/kg	33.0	1333		67.9	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	1010	µg/kg	33.0	1333		75.7	42-104			
2-Methylnaphthalene	857	µg/kg	6.67	1333		64.3	55-102			
2-Methylphenol (o-Cresol)	851	µg/kg	33.0	1333		63.8	54-103			
2-Nitroaniline	945	µg/kg	33.0	1333		70.9	57-103			
2-Nitrophenol	1030	µg/kg	33.0	1333		77.2	52-102			
3&4-Methylphenol	893	µg/kg	33.0	1333		67.0	56-103			
3,3'-Dichlorobenzidine	700	µg/kg	167	1333		52.5	41-91			
3-Nitroaniline	828	µg/kg	33.0	1333		62.1	35-107			
4-Bromophenyl phenyl ether (BDE-3)	883	µg/kg	33.0	1333		66.3	63-104			
4-Chloro-3-methylphenol	908	µg/kg	33.0	1333		68.1	57-103			
4-Chloroaniline	877	µg/kg	67.0	1333		65.8	32-99			
4-Chlorophenyl phenylether	859	µg/kg	33.0	1333		64.5	62-100			
4-Nitroaniline	640	µg/kg	167	1333		48.0	19-124			
4-Nitrophenol	839	µg/kg	333	1333		62.9	44-106			
Acenaphthene	879	µg/kg	6.67	1333		66.0	60-101			
Acenaphthylene	868	µg/kg	6.67	1333		65.1	59-101			
Acetophenone	873	µg/kg	33.0	1333		65.5	54-102			
Anthracene	868	µg/kg	6.67	1333		65.1	63-96			
Atrazine	927	µg/kg	33.0	1333		69.6	60-110			
Benzaldehyde	594	µg/kg	67.0	1333		44.6	10-143			
Benzo(a)anthracene	845	µg/kg	6.67	1333		63.4	66-102			S
Benzo(a)pyrene	872	µg/kg	6.67	1333		65.4	66-105			S
Benzo(b)fluoranthene	897	µg/kg	6.67	1333		67.3	67-105			
Benzo(g,h,i)perylene	866	µg/kg	6.67	1333		65.0	59-110			
Benzo(k)fluoranthene	839	µg/kg	6.67	1333		63.0	68-106			S
bis(2-Chloroethoxy)methane	875	µg/kg	33.0	1333		65.6	54-102			
bis(2-Chloroethyl) ether	851	µg/kg	33.0	1333		63.9	51-101			
Butyl benzyl phthalate	871	µg/kg	67.0	1333		65.4	59-107			
Caprolactam	849	µg/kg	33.0	1333		63.7	49-103			
Carbazole	891	µg/kg	33.0	1333		66.8	63-103			
Chrysene	881	µg/kg	6.67	1333		66.1	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	926	µg/kg	33.0	1333		69.5	63-101			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2217295

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3523216

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2217295-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 09/22/25 17:51

Prep Date: 09/15/25 10:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Dibenz(a,h) anthracene	857	µg/kg	33.0	1333		64.3	61-109			
Dibenzofuran	870	µg/kg	33.0	1333		65.3	61-101			
Diethyl phthalate	907	µg/kg	33.0	1333		68.1	63-105			
Dimethyl phthalate	886	µg/kg	33.0	1333		66.5	64-104			
Di-n-butyl phthalate	920	µg/kg	33.0	1333		69.0	66-108			
Di-n-octyl phthalate	933	µg/kg	33.0	1333		70.0	53-126			
Fluoranthene	880	µg/kg	6.67	1333		66.0	66-105			
Fluorene	880	µg/kg	6.67	1333		66.0	62-101			
Hexachlorobenzene	893	µg/kg	33.0	1333		67.0	61-104			
Hexachlorobutadiene	877	µg/kg	33.0	1333		65.8	52-99			
Hexachlorocyclopentadiene	887	µg/kg	33.0	1333		66.6	39-106			
Hexachloroethane	893	µg/kg	33.0	1333		67.0	59-99			
Indeno(1,2,3-cd) pyrene	971	µg/kg	6.67	1333		72.8	57-114			
Isophorone	857	µg/kg	167	1333		64.3	55-101			
Methylphenol, Total	1740	µg/kg	67.0	2667		65.4	54-103			
Naphthalene	851	µg/kg	6.67	1333		63.8	54-99			
Nitrobenzene	916	µg/kg	167	1333		68.7	53-100			
n-Nitrosodi-n-propylamine	866	µg/kg	33.0	1333		65.0	52-104			
N-Nitrosodiphenylamine	879	µg/kg	33.0	1333		66.0	61-104			
Pentachlorophenol	799	µg/kg	33.0	1333		59.9	35-100			
Phenanthrene	927	µg/kg	6.67	1333		69.5	64-101			
Phenol	877	µg/kg	33.0	1333		65.8	51-107			
Pyrene	861	µg/kg	6.67	1333		64.6	62-114			
Pyridine	770	µg/kg	167	1333		57.8	40-84			
Surr: 2,4,6-Tribromophenol	2210	µg/kg		3333		66.3	48-94			
Surr: 2-Fluorobiphenyl	2040	µg/kg		3333		61.2	50-103			
Surr: 2-Fluorophenol	2120	µg/kg		3333		63.5	43-105			
Surr: 4-Terphenyl-d14	2110	µg/kg		3333		63.4	55-111			
Surr: Nitrobenzene-d5	2080	µg/kg		3333		62.3	47-100			
Surr: Phenol-d6	2190	µg/kg		3333		65.8	49-110			

MS	CLIENT ID: Batch QC	Lab ID: QC-2217295-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 09/22/25 18:12

Prep Date: 09/15/25 10:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	970	µg/kg	34.0	1322.8	ND	73.1	57-101			
1,2,4,5-Tetrachlorobenzene	962	µg/kg	343	1322.8	ND	72.8	54-98			
1-Methylnaphthalene	985	µg/kg	6.88	1322.8	ND	74.5	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	968	µg/kg	34.0	1322.8	ND	73.2	50-101			
2,3,4,6-Tetrachlorophenol	1030	µg/kg	68.8	1322.8	ND	78.2	48-103			
2,4,5-Trichlorophenol	985	µg/kg	34.0	1322.8	ND	74.5	54-98			
2,4,6-Trichlorophenol	973	µg/kg	34.0	1322.8	ND	73.6	56-97			
2,4-Dichlorophenol	962	µg/kg	34.0	1322.8	ND	72.8	54-99			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2217295

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3523216

MS	CLIENT ID: Batch QC	Lab ID: QC-2217295-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 09/22/25 18:12

Prep Date: 09/15/25 10:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4-Dimethylphenol	618	µg/kg	34.0	1322.8	ND	46.7	47-102			S
2,4-Dinitrophenol	439	µg/kg	343	1322.8	ND	33.2	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1090	µg/kg	34.0	1322.8	ND	82.2	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1050	µg/kg	34.0	1322.8	ND	79.3	62-103			
2-Chloronaphthalene	967	µg/kg	6.88	1322.8	ND	73.1	57-101			
2-Chlorophenol	1030	µg/kg	34.0	1322.8	ND	77.9	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	980	µg/kg	34.0	1322.8	ND	74.1	42-104			
2-Methylnaphthalene	971	µg/kg	6.88	1322.8	ND	73.4	55-102			
2-Methylphenol (o-Cresol)	932	µg/kg	34.0	1322.8	ND	70.5	54-103			
2-Nitroaniline	1080	µg/kg	34.0	1322.8	ND	81.4	57-103			
2-Nitrophenol	1170	µg/kg	34.0	1322.8	ND	88.7	52-102			
3&4-Methylphenol	973	µg/kg	34.0	1322.8	ND	73.6	56-103			
3,3'-Dichlorobenzidine	879	µg/kg	172	1322.8	ND	66.5	41-91			
3-Nitroaniline	891	µg/kg	34.0	1322.8	ND	67.4	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1010	µg/kg	34.0	1322.8	ND	76.4	63-104			
4-Chloro-3-methylphenol	996	µg/kg	34.0	1322.8	ND	75.3	57-103			
4-Chloroaniline	1320	µg/kg	68.8	1322.8	ND	99.8	32-99			S
4-Chlorophenyl phenylether	987	µg/kg	34.0	1322.8	ND	74.6	62-100			
4-Nitroaniline	532	µg/kg	172	1322.8	ND	40.2	19-124			
4-Nitrophenol	963	µg/kg	343	1322.8	ND	72.8	44-106			
Acenaphthene	988	µg/kg	6.88	1322.8	ND	74.7	60-101			
Acenaphthylene	985	µg/kg	6.88	1322.8	ND	74.5	59-101			
Acetophenone	998	µg/kg	34.0	1322.8	ND	75.4	54-102			
Anthracene	1010	µg/kg	6.88	1322.8	ND	76.5	63-96			
Atrazine	1090	µg/kg	34.0	1322.8	ND	82.6	60-110			
Benzaldehyde	443	µg/kg	68.8	1322.8	ND	33.5	10-143			
Benzo(a)anthracene	1020	µg/kg	6.88	1322.8	ND	77.0	66-102			
Benzo(a)pyrene	1030	µg/kg	6.88	1322.8	ND	77.8	66-105			
Benzo(b)fluoranthene	1030	µg/kg	6.88	1322.8	ND	78.2	67-105			
Benzo(g,h,i)perylene	1010	µg/kg	6.88	1322.8	ND	76.2	59-110			
Benzo(k)fluoranthene	1020	µg/kg	6.88	1322.8	ND	77.5	68-106			
bis(2-Chloroethoxy)methane	968	µg/kg	34.0	1322.8	ND	73.2	54-102			
bis(2-Chloroethyl) ether	992	µg/kg	34.0	1322.8	ND	75.0	51-101			
Butyl benzyl phthalate	1080	µg/kg	68.8	1322.8	ND	79.5	59-107			
Caprolactam	999	µg/kg	34.0	1322.8	ND	75.5	49-103			
Carbazole	1040	µg/kg	34.0	1322.8	ND	78.4	63-103			
Chrysene	1010	µg/kg	6.88	1322.8	ND	76.4	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1080	µg/kg	34.0	1322.8	<33.8	79.8	63-101			
Dibenz(a,h) anthracene	992	µg/kg	34.0	1322.8	ND	75.0	61-109			
Dibenzofuran	982	µg/kg	34.0	1322.8	ND	74.3	61-101			
Diethyl phthalate	1030	µg/kg	34.0	1322.8	ND	78.1	63-105			
Dimethyl phthalate	1010	µg/kg	34.0	1322.8	ND	76.7	64-104			
Di-n-butyl phthalate	1080	µg/kg	34.0	1322.8	ND	80.2	66-108			
Di-n-octyl phthalate	1170	µg/kg	34.0	1322.8	ND	88.6	53-126			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2217295

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3523216

MS	CLIENT ID: Batch QC	Lab ID: QC-2217295-005
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 09/22/25 18:12**Prep Date:** 09/15/25 10:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Fluoranthene	1030	µg/kg	6.88	1322.8	ND	78.1	66-105			
Fluorene	1020	µg/kg	6.88	1322.8	ND	77.2	62-101			
Hexachlorobenzene	1020	µg/kg	34.0	1322.8	ND	77.2	61-104			
Hexachlorobutadiene	984	µg/kg	34.0	1322.8	ND	74.4	52-99			
Hexachlorocyclopentadiene	970	µg/kg	34.0	1322.8	ND	73.4	39-106			
Hexachloroethane	1040	µg/kg	34.0	1322.8	ND	78.3	59-99			
Indeno(1,2,3-cd) pyrene	1130	µg/kg	6.88	1322.8	ND	85.8	57-114			
Isophorone	955	µg/kg	172	1322.8	ND	72.2	55-101			
Methylphenol, Total	1900	µg/kg	67.0	2646.6	ND	72.0	54-103			
Naphthalene	982	µg/kg	6.88	1322.8	ND	74.3	54-99			
Nitrobenzene	1010	µg/kg	172	1322.8	ND	76.5	53-100			
n-Nitrosodi-n-propylamine	988	µg/kg	34.0	1322.8	ND	74.7	52-104			
N-Nitrosodiphenylamine	1000	µg/kg	34.0	1322.8	ND	76.0	61-104			
Pentachlorophenol	919	µg/kg	34.0	1322.8	ND	69.5	35-100			
Phenanthrene	1010	µg/kg	6.88	1322.8	ND	76.5	64-101			
Phenol	1050	µg/kg	34.0	1322.8	ND	79.7	51-107			
Pyrene	1010	µg/kg	6.88	1322.8	ND	76.3	52-114			
Pyridine	997	µg/kg	172	1322.8	ND	75.4	40-84			
Surr: 2,4,6-Tribromophenol	2520	µg/kg		3307.5		76.1	48-94			
Surr: 2-Fluorobiphenyl	2220	µg/kg		3307.5		67.1	50-103			
Surr: 2-Fluorophenol	2370	µg/kg		3307.5		71.7	43-105			
Surr: 4-Terphenyl-d14	2440	µg/kg		3307.5		73.9	55-111			
Surr: Nitrobenzene-d5	2310	µg/kg		3307.5		69.8	47-100			
Surr: Phenol-d6	2440	µg/kg		3307.5		73.7	49-110			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2217295-006
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 09/22/25 18:33**Prep Date:** 09/15/25 10:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	2080	µg/kg	33.6	2612.4	ND	79.5	57-101	72.8	30	R
1,2,4,5-Tetrachlorobenzene	2080	µg/kg	339	2612.4	ND	79.6	54-98	73.4	30	R
1-Methylnaphthalene	2100	µg/kg	6.79	2612.4	ND	80.4	56-100	72.3	30	R
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	2050	µg/kg	33.6	2612.4	ND	78.5	50-101	71.8	30	R
2,3,4,6-Tetrachlorophenol	2310	µg/kg	67.9	2612.4	ND	88.6	48-103	76.5	30	R
2,4,5-Trichlorophenol	2130	µg/kg	33.6	2612.4	ND	81.6	54-98	73.6	30	R
2,4,6-Trichlorophenol	2100	µg/kg	33.6	2612.4	ND	80.5	56-97	73.4	30	R
2,4-Dichlorophenol	2070	µg/kg	33.6	2612.4	ND	79.1	54-99	72.9	30	R
2,4-Dimethylphenol	1430	µg/kg	33.6	2612.4	ND	54.7	47-102	79.3	30	R
2,4-Dinitrophenol	1660	µg/kg	339	2612.4	ND	63.6	10-100	116	30	R
2,4-Dinitrotoluene (2,4-DNT)	2300	µg/kg	33.6	2612.4	ND	88.0	62-105	71.5	30	R
2,6-Dinitrotoluene (2,6-DNT)	2270	µg/kg	33.6	2612.4	ND	87.0	62-103	73.8	30	R
2-Chloronaphthalene	2080	µg/kg	6.79	2612.4	ND	79.6	57-101	73.0	30	R
2-Chlorophenol	2130	µg/kg	33.6	2612.4	ND	81.7	52-102	69.8	30	R

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2217295

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3523216

MSD	CLIENT ID: Batch QC	Lab ID: QC-2217295-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 09/22/25 18:33

Prep Date: 09/15/25 10:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	2220	µg/kg	33.6	2612.4	ND	84.9	42-104	77.4	30	R
2-Methylnaphthalene	2050	µg/kg	6.79	2612.4	ND	78.6	55-102	71.6	30	R
2-Methylphenol (o-Cresol)	1980	µg/kg	33.6	2612.4	ND	76.0	54-103	72.2	30	R
2-Nitroaniline	2270	µg/kg	33.6	2612.4	ND	87.1	57-103	71.5	30	R
2-Nitrophenol	2280	µg/kg	33.6	2612.4	ND	87.4	52-102	64.2	30	R
3&4-Methylphenol	2030	µg/kg	33.6	2612.4	ND	77.8	56-103	70.4	30	R
3,3'-Dichlorobenzidine	1940	µg/kg	170	2612.4	ND	74.3	41-91	75.3	30	R
3-Nitroaniline	2000	µg/kg	33.6	2612.4	ND	76.6	35-107	76.7	30	R
4-Bromophenyl phenyl ether (BDE-3)	2140	µg/kg	33.6	2612.4	ND	81.8	63-104	71.6	30	R
4-Chloro-3-methylphenol	2150	µg/kg	33.6	2612.4	ND	82.2	57-103	73.3	30	R
4-Chloroaniline	2080	µg/kg	67.9	2612.4	ND	79.5	32-99	44.5	30	R
4-Chlorophenyl phenylether	2110	µg/kg	33.6	2612.4	ND	80.8	62-100	72.5	30	R
4-Nitroaniline	1540	µg/kg	170	2612.4	ND	58.8	19-124	97.1	30	R
4-Nitrophenol	2210	µg/kg	339	2612.4	ND	84.7	44-106	78.7	30	R
Acenaphthene	2120	µg/kg	6.79	2612.4	ND	81.1	60-101	72.8	30	R
Acenaphthylene	2090	µg/kg	6.79	2612.4	ND	80.2	59-101	72.1	30	R
Acetophenone	2060	µg/kg	33.6	2612.4	ND	79.0	54-102	69.7	30	R
Anthracene	2190	µg/kg	6.79	2612.4	ND	83.9	63-96	73.6	30	R
Atrazine	2890	µg/kg	33.6	2612.4	ND	110	60-110	90.2	30	R
Benzaldehyde	1350	µg/kg	67.9	2612.4	ND	51.7	10-143	101	30	R
Benzo(a)anthracene	2210	µg/kg	6.79	2612.4	ND	84.5	66-102	73.7	30	R
Benzo(a)pyrene	2230	µg/kg	6.79	2612.4	ND	85.4	66-105	73.7	30	R
Benzo(b)fluoranthene	2260	µg/kg	6.79	2612.4	ND	86.6	67-105	74.4	30	R
Benzo(g,h,i)perylene	2190	µg/kg	6.79	2612.4	ND	83.8	59-110	74.0	30	R
Benzo(k)fluoranthene	2160	µg/kg	6.79	2612.4	ND	82.7	68-106	71.2	30	R
bis(2-Chloroethoxy)methane	2060	µg/kg	33.6	2612.4	ND	78.8	54-102	72.0	30	R
bis(2-Chloroethyl) ether	2070	µg/kg	33.6	2612.4	ND	79.1	51-101	70.3	30	R
Butyl benzyl phthalate	2310	µg/kg	67.9	2612.4	ND	87.4	59-107	72.5	30	R
Caprolactam	2160	µg/kg	33.6	2612.4	ND	82.5	49-103	73.4	30	R
Carbazole	2240	µg/kg	33.6	2612.4	ND	85.7	63-103	73.4	30	R
Chrysene	2180	µg/kg	6.79	2612.4	ND	83.4	66-105	73.3	30	R
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	2340	µg/kg	33.6	2612.4	<33.8	88.5	63-101	73.4	30	R
Dibenz(a,h) anthracene	2170	µg/kg	33.6	2612.4	ND	83.0	61-109	74.5	30	R
Dibenzofuran	2100	µg/kg	33.6	2612.4	ND	80.2	61-101	72.3	30	R
Diethyl phthalate	2250	µg/kg	33.6	2612.4	ND	86.1	63-105	74.1	30	R
Dimethyl phthalate	2170	µg/kg	33.6	2612.4	ND	83.1	64-104	72.7	30	R
Di-n-butyl phthalate	2320	µg/kg	33.6	2612.4	ND	88.2	66-108	73.2	30	R
Di-n-octyl phthalate	2420	µg/kg	33.6	2612.4	ND	92.5	53-126	69.4	30	R
Fluoranthene	2250	µg/kg	6.79	2612.4	ND	86.0	66-105	74.0	30	R
Fluorene	2160	µg/kg	6.79	2612.4	ND	82.6	62-101	71.5	30	R
Hexachlorobenzene	2190	µg/kg	33.6	2612.4	ND	83.8	61-104	72.8	30	R
Hexachlorobutadiene	2060	µg/kg	33.6	2612.4	ND	78.7	52-99	70.5	30	R
Hexachlorocyclopentadiene	1950	µg/kg	33.6	2612.4	ND	74.6	39-106	67.0	30	R
Hexachloroethane	2110	µg/kg	33.6	2612.4	ND	80.8	59-99	68.3	30	R

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2217295

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3523216

MSD	CLIENT ID: Batch QC	Lab ID: QC-2217295-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 09/22/25 18:33

Prep Date: 09/15/25 10:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Indeno(1,2,3-cd) pyrene	2360	µg/kg	6.79	2612.4	ND	90.4	57-114	70.2	30	R
Isophorone	2040	µg/kg	170	2612.4	ND	78.0	55-101	72.3	30	R
Methylphenol, Total	4020	µg/kg	67.0	5224.8	ND	76.9	54-103	71.3	30	R
Naphthalene	2110	µg/kg	6.79	2612.4	ND	80.8	54-99	72.9	30	R
Nitrobenzene	2090	µg/kg	170	2612.4	ND	79.9	53-100	69.4	30	R
n-Nitrosodi-n-propylamine	2090	µg/kg	33.6	2612.4	ND	80.0	52-104	71.6	30	R
N-Nitrosodiphenylamine	2130	µg/kg	33.6	2612.4	ND	81.6	61-104	71.8	30	R
Pentachlorophenol	2120	µg/kg	33.6	2612.4	ND	81.1	35-100	79.0	30	R
Phenanthrene	2140	µg/kg	6.79	2612.4	ND	81.8	64-101	71.5	30	R
Phenol	2070	µg/kg	33.6	2612.4	ND	79.2	51-107	65.0	30	R
Pyrene	2220	µg/kg	6.79	2612.4	ND	85.1	52-114	75.1	30	R
Pyridine	2060	µg/kg	170	2612.4	ND	78.9	40-84	69.6	30	R
Surr: 2,4,6-Tribromophenol	2690	µg/kg		3264.8		82.4	48-94	6.65	30	
Surr: 2-Fluorobiphenyl	2360	µg/kg		3264.8		72.3	50-103	6.13	30	
Surr: 2-Fluorophenol	2430	µg/kg		3264.8		74.5	43-105	2.53	30	
Surr: 4-Terphenyl-d14	2640	µg/kg		3264.8		80.8	55-111	7.65	30	
Surr: Nitrobenzene-d5	2500	µg/kg		3264.8		76.4	47-100	7.72	30	
Surr: Phenol-d6	2520	µg/kg		3264.8		77.3	49-110	3.47	30	

The following samples were analyzed in this batch: HN2512786-001, HN2512786-002, HN2512786-003



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2202316

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3484571

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2202316-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 09/10/25 14:56

Prep Date: 09/05/25 15:27

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	µg/kg	30.0							
1,1,2,2-Tetrachloroethane	ND	µg/kg	30.0							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	µg/kg	30.0							
1,1,2-Trichloroethane	ND	µg/kg	30.0							
1,1-Dichloroethane	ND	µg/kg	30.0							
1,1-Dichloroethylene	ND	µg/kg	30.0							
1,2,3-Trichlorobenzene	ND	µg/kg	100							
1,2,3-Trichloropropane	ND	µg/kg	30.0							
1,2,4-Trichlorobenzene	ND	µg/kg	100							
1,2,4-Trimethylbenzene	ND	µg/kg	30.0							
1,2-Dibromo-3-chloropropane (DBCP)	ND	µg/kg	100							
1,2-Dibromoethane (EDB, Ethylene dibromide)	ND	µg/kg	30.0							
1,2-Dichlorobenzene (o-Dichlorobenzene)	ND	µg/kg	30.0							
1,2-Dichloroethane (Ethylene dichloride)	ND	µg/kg	100							
1,2-Dichloropropane	ND	µg/kg	30.0							
1,3,5-Trimethylbenzene	ND	µg/kg	100							
1,3-Dichlorobenzene (m-Dichlorobenzene)	ND	µg/kg	30.0							
1,3-Dichloropropene	ND	µg/kg	60.0							
1,4-Dichlorobenzene (p-Dichlorobenzene)	ND	µg/kg	30.0							
2-Butanone (Methyl ethyl ketone, MEK)	ND	µg/kg	200							
2-Hexanone	ND	µg/kg	30.0							
4-Methyl-2-pentanone (MIBK)	ND	µg/kg	30.0							
Acetone	ND	µg/kg	100							
Benzene	ND	µg/kg	30.0							
Bromochloromethane	ND	µg/kg	30.0							
Bromodichloromethane	ND	µg/kg	30.0							
Bromoform	ND	µg/kg	30.0							
Carbon disulfide	ND	µg/kg	30.0							
Carbon tetrachloride	ND	µg/kg	30.0							
Chlorobenzene	ND	µg/kg	30.0							
Chlorodibromomethane	ND	µg/kg	30.0							
Chloroethane (Ethyl chloride)	ND	µg/kg	100							
Chloroform	ND	µg/kg	30.0							
cis & trans-1,2-Dichloroethene	ND	µg/kg	60.0							
cis-1,2-Dichloroethylene	ND	µg/kg	30.0							
cis-1,3-Dichloropropene	ND	µg/kg	30.0							
Cyclohexane	ND	µg/kg	100							
Dichlorodifluoromethane (Freon-12)	ND	µg/kg	100							

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2202316

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3484571

MB	CLIENT ID: Method Blank	Lab ID: QC-2202316-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 09/10/25 14:56

Prep Date: 09/05/25 15:27

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Ethylbenzene	ND	µg/kg	30.0							
Isopropylbenzene	ND	µg/kg	30.0							
m+p-Xylene	ND	µg/kg	60.0							
Methyl acetate	ND	µg/kg	250							
Methyl bromide (Bromomethane)	ND	µg/kg	100							
Methyl chloride (Chloromethane)	ND	µg/kg	100							
Methyl tert-butyl ether (MTBE)	ND	µg/kg	30.0							
Methylcyclohexane	ND	µg/kg	30.0							
Methylene chloride (Dichloromethane)	ND	µg/kg	250							
o-Xylene	ND	µg/kg	30.0							
Styrene	ND	µg/kg	30.0							
Tetrachloroethylene (Perchloroethylene)	ND	µg/kg	30.0							
Toluene	ND	µg/kg	30.0							
Total Xylene	ND	µg/kg	90.0							
trans-1,2-Dichloroethylene	ND	µg/kg	30.0							
trans-1,3-Dichloropropylene	ND	µg/kg	30.0							
Trichloroethene (Trichloroethylene)	ND	µg/kg	30.0							
Trichlorofluoromethane	ND	µg/kg	30.0							
(Fluorotrichloromethane, Freon 11)										
Vinyl chloride (Chloroethene)	ND	µg/kg	30.0							
Surr: 1,2-Dichloroethane-d4	959	µg/kg		1000		95.9	80-120			
Surr: 4-Bromofluorobenzene	974	µg/kg		1000		97.4	80-120			
Surr: Dibromofluoromethane	908	µg/kg		1000		90.8	72-120			
Surr: Toluene-d8	1050	µg/kg		1000		105	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2202316-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 09/10/25 14:00

Prep Date: 09/05/25 15:27

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	926	µg/kg	30.0	1000		92.6	75-121			
1,1,2,2-Tetrachloroethane	860	µg/kg	30.0	1000		86.0	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1190	µg/kg	30.0	1000		119	62-129			
1,1,2-Trichloroethane	946	µg/kg	30.0	1000		94.6	80-123			
1,1-Dichloroethane	905	µg/kg	30.0	1000		90.5	74-124			
1,1-Dichloroethylene	989	µg/kg	30.0	1000		98.9	68-131			
1,2,3-Trichlorobenzene	1030	µg/kg	100	1000		103	60-135			
1,2,3-Trichloropropane	874	µg/kg	30.0	1000		87.4	77-121			
1,2,4-Trichlorobenzene	1070	µg/kg	100	1000		107	63-130			
1,2,4-Trimethylbenzene	960	µg/kg	30.0	1000		96.0	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	939	µg/kg	100	1000		93.9	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	916	µg/kg	30.0	1000		91.6	63-155			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2202316

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3484571

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2202316-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 09/10/25 14:00

Prep Date: 09/05/25 15:27

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichlorobenzene (o-Dichlorobenzene)	1030	µg/kg	30.0	1000		103	77-122			
1,2-Dichloroethane (Ethylene dichloride)	909	µg/kg	100	1000		90.9	70-130			
1,2-Dichloropropane	875	µg/kg	30.0	1000		87.5	71-130			
1,3,5-Trimethylbenzene	998	µg/kg	100	1000		99.8	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	1060	µg/kg	30.0	1000		106	78-121			
1,3-Dichloropropene	1830	µg/kg	60.0	2000		91.7	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	1030	µg/kg	30.0	1000		103	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1050	µg/kg	200	1000		105	47-164			
2-Hexanone	954	µg/kg	30.0	1000		95.4	70-137			
4-Methyl-2-pentanone (MIBK)	1270	µg/kg	30.0	1000		127	57-200			
Acetone	1000	µg/kg	100	1000		100	52-190			
Benzene	934	µg/kg	30.0	1000		93.4	78-122			
Bromochloromethane	908	µg/kg	30.0	1000		90.8	68-130			
Bromodichloromethane	962	µg/kg	30.0	1000		96.2	75-125			
Bromoform	870	µg/kg	30.0	1000		87.0	59-120			
Carbon disulfide	1190	µg/kg	30.0	1000		119	60-163			
Carbon tetrachloride	988	µg/kg	30.0	1000		98.8	69-123			
Chlorobenzene	932	µg/kg	30.0	1000		93.2	79-120			
Chlorodibromomethane	772	µg/kg	30.0	1000		77.2	57-123			
Chloroethane (Ethyl chloride)	796	µg/kg	100	1000		79.6	38-132			
Chloroform	902	µg/kg	30.0	1000		90.2	72-122			
cis & trans-1,2-Dichloroethene	1890	µg/kg	60.0	2000		94.4	72-127			
cis-1,2-Dichloroethylene	943	µg/kg	30.0	1000		94.3	74-125			
cis-1,3-Dichloropropene	989	µg/kg	30.0	1000		98.9	62-124			
Dichlorodifluoromethane (Freon-12)	776	µg/kg	100	1000		77.6	28-137			
Ethylbenzene	920	µg/kg	30.0	1000		92.0	75-121			
Isopropylbenzene	1010	µg/kg	30.0	1000		101	74-121			
m+p-Xylene	1840	µg/kg	60.0	2000		92.1	67-129			
Methyl acetate	885	µg/kg	250	1000		88.5	61-125			
Methyl bromide (Bromomethane)	890	µg/kg	100	1000		89.0	31-169			
Methyl chloride (Chloromethane)	804	µg/kg	100	1000		80.4	24-119			
Methyl tert-butyl ether (MTBE)	1010	µg/kg	30.0	1000		101	79-139			
Methylene chloride (Dichloromethane)	986	µg/kg	250	1000		98.6	62-135			
o-Xylene	903	µg/kg	30.0	1000		90.3	75-120			
Styrene	1010	µg/kg	30.0	1000		101	74-126			
Tetrachloroethylene (Perchloroethylene)	1080	µg/kg	30.0	1000		108	76-128			
Toluene	996	µg/kg	30.0	1000		99.6	76-120			
Total Xylene	2740	µg/kg	90.0	3000		91.5	67-129			
trans-1,2-Dichloroethylene	944	µg/kg	30.0	1000		94.4	72-127			
trans-1,3-Dichloropropylene	844	µg/kg	30.0	1000		84.4	66-120			
Trichloroethene (Trichloroethylene)	937	µg/kg	30.0	1000		93.7	75-122			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2202316

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3484571

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2202316-002
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Method: EPA 8260D **Dilution:** 1 **Analysis Date:** 09/10/25 14:00
Prep Date: 09/05/25 15:27

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	932	µg/kg	30.0	1000		93.2	51-115			
Vinyl chloride (Chloroethene)	844	µg/kg	30.0	1000		84.4	43-128			
Surr: 1,2-Dichloroethane-d4	967	µg/kg		1000		96.7	80-120			
Surr: 4-Bromofluorobenzene	986	µg/kg		1000		98.6	80-120			
Surr: Dibromofluoromethane	972	µg/kg		1000		97.2	72-120			
Surr: Toluene-d8	998	µg/kg		1000		99.8	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2202316-005
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Method: EPA 8260D **Dilution:** 1 **Analysis Date:** 09/10/25 22:10
Prep Date: 09/05/25 15:27

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	963	µg/kg	37.8	1019.4	ND	94.4	75-121			
1,1,2,2-Tetrachloroethane	498	µg/kg	37.8	1019.4	ND	48.8	79-125			S
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1090	µg/kg	37.8	1019.4	ND	107	62-129			
1,1,2-Trichloroethane	950	µg/kg	37.8	1019.4	ND	93.2	80-123			
1,1-Dichloroethane	924	µg/kg	37.8	1019.4	ND	90.6	74-124			
1,1-Dichloroethylene	1030	µg/kg	37.8	1019.4	ND	101	68-131			
1,2,3-Trichlorobenzene	1170	µg/kg	126	1019.4	ND	114	60-135			
1,2,3-Trichloropropane	930	µg/kg	37.8	1019.4	ND	91.2	77-121			
1,2,4-Trichlorobenzene	1160	µg/kg	126	1019.4	ND	113	63-130			
1,2,4-Trimethylbenzene	1090	µg/kg	37.8	1019.4	ND	107	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	932	µg/kg	126	1019.4	ND	91.4	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	927	µg/kg	37.8	1019.4	ND	90.9	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	1110	µg/kg	37.8	1019.4	ND	108	77-122			
1,2-Dichloroethane (Ethylene dichloride)	926	µg/kg	126	1019.4	ND	90.8	70-130			
1,2-Dichloropropane	906	µg/kg	37.8	1019.4	ND	88.9	71-130			
1,3,5-Trimethylbenzene	1130	µg/kg	126	1019.4	ND	111	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	1080	µg/kg	37.8	1019.4	ND	106	78-121			
1,3-Dichloropropene	1660	µg/kg	75.5	2038.7	ND	81.6	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	1070	µg/kg	37.8	1019.4	ND	105	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	953	µg/kg	252	1019.4	ND	93.5	47-164			
2-Hexanone	1180	µg/kg	37.8	1019.4	ND	116	70-137			
4-Methyl-2-pentanone (MIBK)	1060	µg/kg	37.8	1019.4	ND	104	57-200			
Acetone	1800	µg/kg	126	1019.4	ND	177	52-190			
Benzene	1020	µg/kg	37.8	1019.4	ND	100	78-122			
Bromochloromethane	945	µg/kg	37.8	1019.4	ND	92.7	68-130			
Bromodichloromethane	908	µg/kg	37.8	1019.4	ND	89.0	75-125			
Bromoform	828	µg/kg	37.8	1019.4	ND	81.2	59-120			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2202316

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3484571

MS	CLIENT ID: Batch QC	Lab ID: QC-2202316-005
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Method: EPA 8260D**Dilution:** 1**Analysis Date:** 09/10/25 22:10**Prep Date:** 09/05/25 15:27

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Carbon disulfide	1030	µg/kg	37.8	1019.4	ND	101	60-163			
Carbon tetrachloride	1020	µg/kg	37.8	1019.4	ND	99.8	69-123			
Chlorobenzene	964	µg/kg	37.8	1019.4	ND	94.6	79-120			
Chlorodibromomethane	718	µg/kg	37.8	1019.4	ND	70.4	57-123			
Chloroethane (Ethyl chloride)	172	µg/kg	126	1019.4	ND	16.9	38-132			S
Chloroform	928	µg/kg	37.8	1019.4	ND	91.0	72-122			
cis & trans-1,2-Dichloroethene	1900	µg/kg	75.5	2038.7	ND	93.0	72-127			
cis-1,2-Dichloroethylene	951	µg/kg	37.8	1019.4	ND	93.3	74-125			
cis-1,3-Dichloropropene	866	µg/kg	37.8	1019.4	ND	85.0	62-124			
Dichlorodifluoromethane (Freon-12)	870	µg/kg	126	1019.4	ND	85.4	28-137			
Ethylbenzene	971	µg/kg	37.8	1019.4	ND	95.3	75-121			
Isopropylbenzene	1120	µg/kg	37.8	1019.4	ND	110	74-121			
m+p-Xylene	1920	µg/kg	75.5	2038.7	ND	94.2	67-129			
Methyl acetate	1040	µg/kg	315	1019.4	ND	102	61-125			
Methyl bromide (Bromomethane)	414	µg/kg	126	1019.4	ND	40.6	31-169			
Methyl chloride (Chloromethane)	800	µg/kg	126	1019.4	ND	78.4	24-119			
Methyl tert-butyl ether (MTBE)	926	µg/kg	37.8	1019.4	ND	90.8	79-139			
Methylene chloride (Dichloromethane)	987	µg/kg	315	1019.4	ND	96.8	62-135			
o-Xylene	986	µg/kg	37.8	1019.4	ND	96.8	75-120			
Styrene	1060	µg/kg	37.8	1019.4	ND	104	74-126			
Tetrachloroethylene (Perchloroethylene)	2040	µg/kg	37.8	1019.4	ND	200	76-128			S
Toluene	1120	µg/kg	37.8	1019.4	ND	109	76-120			
Total Xylene	2910	µg/kg	113	3058.1	ND	95.0	67-129			
trans-1,2-Dichloroethylene	944	µg/kg	37.8	1019.4	ND	92.6	72-127			
trans-1,3-Dichloropropylene	798	µg/kg	37.8	1019.4	ND	78.2	66-120			
Trichloroethene (Trichloroethylene)	1430	µg/kg	37.8	1019.4	ND	140	75-122			S
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	915	µg/kg	37.8	1019.4	ND	89.8	51-115			
Vinyl chloride (Chloroethene)	778	µg/kg	37.8	1019.4	ND	76.3	43-128			
Surr: 1,2-Dichloroethane-d4	967	µg/kg		1019.4		94.9	80-120			
Surr: 4-Bromofluorobenzene	1040	µg/kg		1019.4		102	80-120			
Surr: Dibromofluoromethane	980	µg/kg		1019.4		96.2	72-120			
Surr: Toluene-d8	1040	µg/kg		1019.4		102	80-120			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2202316-006
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Method: EPA 8260D**Dilution:** 1**Analysis Date:** 09/10/25 22:29**Prep Date:** 09/05/25 15:27

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1020	µg/kg	37.8	1019.4	ND	100	75-121	6.16	30	
1,1,2,2-Tetrachloroethane	504	µg/kg	37.8	1019.4	ND	49.4	79-125	1.12	30	S
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1160	µg/kg	37.8	1019.4	ND	114	62-129	6.12	30	
1,1,2-Trichloroethane	962	µg/kg	37.8	1019.4	ND	94.4	80-123	1.23	30	
1,1-Dichloroethane	974	µg/kg	37.8	1019.4	ND	95.6	74-124	5.32	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2202316

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3484571

MSD	CLIENT ID: Batch QC	Lab ID: QC-2202316-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 09/10/25 22:29

Prep Date: 09/05/25 15:27

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1-Dichloroethylene	1070	µg/kg	37.8	1019.4	ND	105	68-131	3.98	30	
1,2,3-Trichlorobenzene	1140	µg/kg	126	1019.4	ND	112	60-135	2.48	30	
1,2,3-Trichloropropane	978	µg/kg	37.8	1019.4	ND	96.0	77-121	5.13	30	
1,2,4-Trichlorobenzene	1140	µg/kg	126	1019.4	ND	112	63-130	0.930	30	
1,2,4-Trimethylbenzene	1120	µg/kg	37.8	1019.4	ND	110	64-126	2.96	30	
1,2-Dibromo-3-chloropropane (DBCP)	913	µg/kg	126	1019.4	ND	89.6	55-135	2.04	30	
1,2-Dibromoethane (EDB, Ethylene dibromide)	952	µg/kg	37.8	1019.4	ND	93.4	63-155	2.71	30	
1,2-Dichlorobenzene (o-Dichlorobenzene)	1110	µg/kg	37.8	1019.4	ND	108	77-122	0.00	30	
1,2-Dichloroethane (Ethylene dichloride)	958	µg/kg	126	1019.4	ND	94.0	70-130	3.41	30	
1,2-Dichloropropane	948	µg/kg	37.8	1019.4	ND	93.0	71-130	4.45	30	
1,3,5-Trimethylbenzene	1150	µg/kg	126	1019.4	ND	113	66-130	1.56	30	
1,3-Dichlorobenzene (m-Dichlorobenzene)	1120	µg/kg	37.8	1019.4	ND	110	78-121	3.94	30	
1,3-Dichloropropene	1760	µg/kg	75.5	2038.7	ND	86.2	62-124	5.39	30	
1,4-Dichlorobenzene (p-Dichlorobenzene)	1120	µg/kg	37.8	1019.4	ND	110	78-122	4.61	30	
2-Butanone (Methyl ethyl ketone, MEK)	932	µg/kg	252	1019.4	ND	91.4	47-164	2.22	30	
2-Hexanone	1240	µg/kg	37.8	1019.4	ND	121	70-137	4.64	30	
4-Methyl-2-pentanone (MIBK)	1100	µg/kg	37.8	1019.4	ND	108	57-200	4.24	30	
Acetone	1800	µg/kg	126	1019.4	ND	177	52-190	0.0849	30	
Benzene	1070	µg/kg	37.8	1019.4	ND	105	78-122	4.63	30	
Bromochloromethane	946	µg/kg	37.8	1019.4	ND	92.8	68-130	0.162	30	
Bromodichloromethane	929	µg/kg	37.8	1019.4	ND	91.2	75-125	2.33	30	
Bromoform	879	µg/kg	37.8	1019.4	ND	86.2	59-120	5.97	30	
Carbon disulfide	1110	µg/kg	37.8	1019.4	ND	108	60-163	7.31	30	
Carbon tetrachloride	1090	µg/kg	37.8	1019.4	ND	107	69-123	7.38	30	
Chlorobenzene	1040	µg/kg	37.8	1019.4	ND	102	79-120	7.73	30	
Chlorodibromomethane	755	µg/kg	37.8	1019.4	ND	74.1	57-123	5.12	30	
Chloroethane (Ethyl chloride)	195	µg/kg	126	1019.4	ND	19.1	38-132	12.2	30	S
Chloroform	939	µg/kg	37.8	1019.4	ND	92.1	72-122	1.15	30	
cis & trans-1,2-Dichloroethene	1970	µg/kg	75.5	2038.7	ND	96.5	72-127	3.75	30	
cis-1,2-Dichloroethylene	976	µg/kg	37.8	1019.4	ND	95.7	74-125	2.54	30	
cis-1,3-Dichloropropene	922	µg/kg	37.8	1019.4	ND	90.4	62-124	6.16	30	
Dichlorodifluoromethane (Freon-12)	867	µg/kg	126	1019.4	ND	85.0	28-137	0.411	30	
Ethylbenzene	1030	µg/kg	37.8	1019.4	ND	101	75-121	5.51	30	
Isopropylbenzene	1150	µg/kg	37.8	1019.4	ND	113	74-121	3.32	30	
m+p-Xylene	2040	µg/kg	75.5	2038.7	ND	100	67-129	6.27	30	
Methyl acetate	1050	µg/kg	315	1019.4	ND	103	61-125	0.777	30	
Methyl bromide (Bromomethane)	433	µg/kg	126	1019.4	ND	42.5	31-169	4.57	30	
Methyl chloride (Chloromethane)	815	µg/kg	126	1019.4	ND	80.0	24-119	1.96	30	
Methyl tert-butyl ether (MTBE)	999	µg/kg	37.8	1019.4	ND	98.0	79-139	7.63	30	
Methylene chloride (Dichloromethane)	1030	µg/kg	315	1019.4	ND	101	62-135	4.64	30	
o-Xylene	1020	µg/kg	37.8	1019.4	ND	100	75-120	3.35	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 11050_Promenade
Matrix: SOIL/SOLID
QC Lot: 2202316

Work Order: HN2512786
Date Collected: NA
Date Received: NA
Run ID: 3484571

MSD	CLIENT ID: Batch QC	Lab ID: QC-2202316-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 09/10/25 22:29

Prep Date: 09/05/25 15:27

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Styrene	1150	µg/kg	37.8	1019.4	ND	113	74-126	8.36	30	
Tetrachloroethylene (Perchloroethylene)	2100	µg/kg	37.8	1019.4	ND	206	76-128	2.97	30	S
Toluene	1140	µg/kg	37.8	1019.4	ND	112	76-120	2.57	30	
Total Xylene	3060	µg/kg	113	3058.1	ND	100	67-129	5.29	30	
trans-1,2-Dichloroethylene	992	µg/kg	37.8	1019.4	ND	97.3	72-127	4.95	30	
trans-1,3-Dichloropropylene	835	µg/kg	37.8	1019.4	ND	81.9	66-120	4.56	30	
Trichloroethene (Trichloroethylene)	1520	µg/kg	37.8	1019.4	ND	149	75-122	6.18	30	S
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	1000	µg/kg	37.8	1019.4	ND	98.2	51-115	9.04	30	
Vinyl chloride (Chloroethene)	799	µg/kg	37.8	1019.4	ND	78.4	43-128	2.71	30	
Surr: 1,2-Dichloroethane-d4	963	µg/kg		1019.4		94.4	80-120	0.475	30	
Surr: 4-Bromofluorobenzene	1040	µg/kg		1019.4		102	80-120	0.686	30	
Surr: Dibromofluoromethane	940	µg/kg		1019.4		92.2	72-120	4.14	30	
Surr: Toluene-d8	1030	µg/kg		1019.4		101	80-120	0.835	30	

The following samples were analyzed in this batch: HN2512786-001, HN2512786-002, HN2512786-003



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: **HN2515197**

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: HN2515197
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: HN2515197

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2515197-001	11050 Promenade SB03 TCLP	SOIL/SOLID	10/13/25 11:04	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: HN2515197
Date Collected: 10/13/25 11:04
Date Received: 10/14/25 07:00

CLIENT ID: 11050 Promenade SB03 TCLP

Lab ID: HN2515197-001

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	10/21/25 02:14	10/19/25 08:11
Chromium	EPA 6020B	<0.00610	U	mg/L	0.0499	1	10/21/25 02:14	10/19/25 08:11

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2284412

Work Order: HN2515197
Date Collected: NA
Date Received: NA
Run ID: 3605054

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2284412-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/21/25 02:03
Prep Date: 10/19/25 08:12

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-2284412-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/21/25 02:05
Prep Date: 10/19/25 08:12

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	1.01	mg/L	0.0499	1		101	80-120			
Chromium	0.971	mg/L	0.0499	1		97.1	80-120			

The following samples were analyzed in this batch: HN2515197-001

ANALYST SUMMARY



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

Work Order: HN2515197

Sample Name: 11050 Promenade SB03 TCLP
Laboratory Code: HN2515197-001
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	2284412	Nicolee Allen	3605054	Stephanie Pierson



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis								
Purchase Order		Project Name	11050 Promenade	A	TCLP Arsenic							
Work Order	Quote ID - 11631	Project Number	DETR0060	B								
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group	C								
Send Report To	Ryan Montri	Invoice Attn.		D								
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road	E								
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188	F								
Phone	734-397-3100	Phone	734-397-3100	G								
Fax		Fax		H								
e-Mail Address	rmontri@manniksmithgroup.com	e-Mail Address		I								
				J								
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	Hold	
1	11050 Promenade S803 TCLP	10/13/25	11:04	Soil		2	X					
2												
3												
4												
5												
6												
7												
8												
9												
10												
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:				Results Due Date:				
Shannon Haczmarek				☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour								
Relinquished by:	Date:	Time:	Received by:	Notes:								
Shannon Haczmarek	10/13/25	1547	Colin									
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp.								
QS	10/14/25	0700	Boutay H	127 3.7C								
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	QC Package: (Check Box Below)								
BH	10/14/25	10:03		☐ 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: Brittany 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): 3.7/3.7

Thermometer(s): IR7

Sample(s) received on ice? (Yes) / No

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 10/14/25 10:03

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: