

DRAFT

FILL MATERIAL SAMPLING REPORT

8221 NUREMBERG STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48214



FEBRUARY 21, 2026

PREPARED FOR:

THE CITY OF DETROIT DEMOLITION DEPARTMENT

1301 THIRD STREET, SUITE 606

DETROIT, MICHIGAN 48226



FILL MATERIAL SAMPLING REPORT

8221 NUREMBERG STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48214

PREPARED BY: _____

OLIVIA MITCHELL

ENVIRONMENTAL SCIENTIST

REVIEWED BY: _____

MARK SCHULT, PhD, CPG

SENIOR PROJECT MANAGER

REVIEWED AND
APPROVED BY: _____

RYAN MONTRI, CPG

SENIOR PROJECT MANAGER

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 8221 Nuremberg Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location, as referenced to nearby roads and major geographic features, is shown on Figure 1, *Site Location Map*. Figure 2, *Site Layout*, depicts the current layout of the Site.

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

The purpose of the work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths, as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. Sample analyses associated with this work included volatile organic compounds (VOCs); 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. 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 8221 SB01, 8221 SB02, and 8221 SB03 generally consisted of tan to brown and gray silty clay and sand to six (6) feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris was observed 8221 SB03.
- Concentrations of arsenic and chromium (Total) were detected in soil samples 8221 SB01 (1-2')_20260129, 8221 SB02 (3-4')_20260129, and/or 8221 SB03 (5-6')_20260129 in excess of Part 201 groundwater surface water interface protection criteria (GSIPC), drinking water protection criteria (DWPC), and/or direct contact criteria (DCC).
- Concentrations of bis(2-ethylhexyl) phthalate, chloride, barium, copper, lead, mercury, and zinc were detected in soil samples 8221 SB01 (1-2')_20260129, 8221 SB02 (3-4')_20260129, and/or 8221 SB03 (5-6')_20260129 at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- VOCs, PCBs, pesticides, and herbicides were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

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

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

DRAFT

TABLE OF CONTENTS

Executive Summary	ES-1
--------------------------------	-------------

1.0 Introduction	1
-------------------------------	----------

2.0 Purpose and Scope of Work	1
--	----------

3.0 Site Assessment Methodology.....	1
---	----------

3.1 Preliminary Site Work Activities	1
3.2 Soil Sample Collection.....	2
3.3 Decontamination.....	2
3.4 Analytical Methods	2
3.5 Quality Assurance/Quality Control.....	3

4.0 Summary of Results	3
-------------------------------------	----------

4.1 Site Geology and Hydrogeology	3
4.2 Soil Sample Analytical Results	3
4.3 Exposure Evaluation.....	3

5.0 Findings	4
---------------------------	----------

Figures

Figure 1	Site Location Map
Figure 2	Site Layout

Table

Table 1	Soil Sample Analytical Detection Summary
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Appendices

Appendix A	Limitations
Appendix B	Daily Field Report
Appendix C	Investigation Photographs
Appendix D	Soil Boring Logs
Appendix E	Laboratory Analytical Reports and Chain of Custody Forms

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 8221 Nuremberg Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location as referenced to nearby roads and major geographic features is presented as *Figure 1, Site Location Map*. *Figure 2, Site Layout*, depicts the current layout of the Site.

The purpose of this work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths. The scope of work for this investigation was performed in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. This report presents the findings of this investigation. Soil samples were collected by MSG on January 29, 2026. 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 January 29, 2026. A daily field activity report prepared by MSG is presented in *Appendix B, Daily Field Report*.

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 8221 SB01, 8221 SB02, and 8221 SB03, using a direct push drill rig at the locations depicted on Figure 2. Photographs collected during the 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 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.

3.4 Analytical Methods

A total of three (3) soil samples designated 8221 SB01 (1-2')_20260129, 8221 SB02 (3-4')_20260129, and 8221 SB03 (5-6')_20260129, 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:

- 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.

3.5 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 January 29, 2026.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 8221 SB01, 8221 SB02, and 8221 SB03 generally consisted of tan to brown and gray silty clay and sand to six (6) feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris was observed 8221 SB03.

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

4.2 Soil Sample Analytical Results

Three (3) soil samples, designated 8221 SB01 (1-2')_20260129, 8221 SB02 (3-4')_20260129, and 8221 SB03 (5-6')_20260129, were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration (µg/kg ¹)	Maximum Detected Concentration (µg/kg)
Arsenic	7440-38-2	8221 SB01 (1-2)_20260129	GSIPC ² / 4,600	8,580
		8221 SB02 (3-4)_20260129	DWPC ³ / 4,600	
		8221 SB03 (5-6)_20260129	DCC ⁴ / 7,600	
Chromium (Total)	7440-47-3	8221 SB03 (5-6)_20260129	GSIPC / 3,300	21,200

¹µg/kg – micrograms per kilogram;

²GSIPC – Groundwater Surface Water Interface Protection Criteria

³DWPC – Drinking Water Protection Criteria

⁴DCC – Direct Contact Criteria

4.3 Exposure Evaluation

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

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

5.0 FINDINGS

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

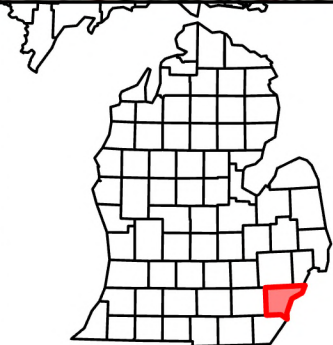
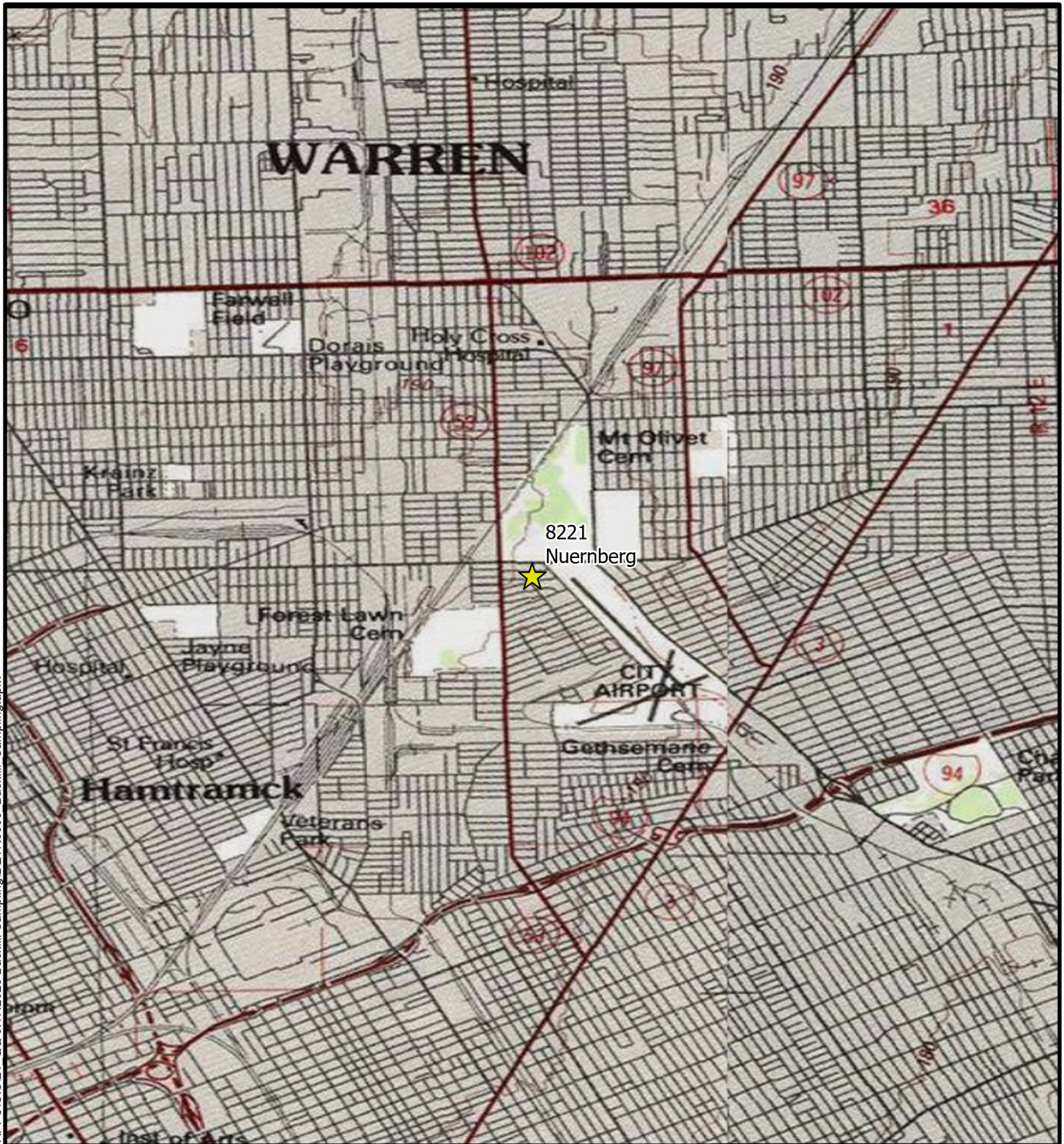
- The stratigraphy encountered during soil boring advancement of 8221 SB01, 8221 SB02, and 8221 SB03 generally consisted of tan to brown and gray silty clay and sand to six (6) feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris was observed 8221 SB03.
- Concentrations of arsenic and chromium (Total) were detected in soil samples 8221 SB01 (1-2')_20260129, 8221 SB02 (3-4')_20260129, and/or 8221 SB03 (5-6')_20260129 in excess of Part 201 GSIPC, DWPC, and/or DCC.
- Concentrations of bis(2-ethylhexyl) phthalate, chloride, barium, copper, lead, mercury, and zinc were detected in soil samples 8221 SB01 (1-2')_20260129, 8221 SB02 (3-4')_20260129, and/or 8221 SB03 (5-6')_20260129 at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- VOCs, PCBs, pesticides, and herbicides were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

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

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

FIGURES





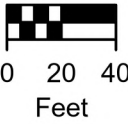
★ Site Location



FIGURE 1
SITE LOCATION

8221 Nuernberg, Detroit, MI

DATE 1/8/2026	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: SampleLocations:
GPS_Test:
All Roads:
Parcels (Current):
Wayne - 2020 - 6in - 4-band:



FIGURE 2
Site Layout

8221 Nuernberg, Detroit, MI

DATE 1/6/2026	DRAWN BY JWW	DESIGNED BY KRB	PROJECT NO. DETR0060
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TABLE



Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
8221 Nuernberg, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 and Volatilization to Indoor Air Pathway Screening Levels Revised February 26, 2024			Inorganic Anions/Ions	Metals							Semivolatile Organic Compounds (SVOCs)
			Chloride	Arsenic (B)	Barium (B)	Chromium, Total (B)	Copper (B)	Lead (B)	Mercury (B)	Zinc (B)	Bis(2-ethylhexyl) phthalate
CAS Number			16887-00-6	7440-38-2	7440-39-3	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7440-66-6	117-81-7
Units			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Statewide Default Background Levels			NC	5,800	75,000	18,000	32,000	21,000	130	47,000	NC
Drinking Water Protection Criteria (DWPC)			5.00E+06	4,600	1.30E+06	30,000	5.80E+06	7.00E+05	1,700	2.40E+06	NLL
Groundwater Surface Water Interface Protection Criteria (GSIPC)			NC	4,600	4.40E+05 ^(G)	3,300	75,000 ^(G)	6.00E+06 ^(G)	50 ^(M:1.2)	1.60E+05	NLL
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NC	NLV	NLV	NC	NLV	NLV	48,000	NC	NLV
Soil Volatilization to Indoor Air Pathway (SVIAP)			NC	NC	NC	NC	NC	NC	22 ^(M)	NC	NC
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NC	NLV	NLV	NC	NLV	NLV	52,000	NC	NLV
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NC	NLV	NLV	NC	NLV	NLV	52,000	NC	NLV
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NC	NLV	NLV	NC	NLV	NLV	52,000	NC	NLV
Particulate Soil Inhalation Criteria (PSIC)			NC	7.20E+05	3.30E+08	2.60E+05	1.30E+08	1.00E+08	2.00E+07	NC	7.00E+08
Direct Contact Criteria (DCC)			5.00E+05	7,600	3.70E+07	2.50E+06	2.00E+07	4.00E+05	1.60E+05	1.70E+08	2.80E+06
Soil Saturation Concentration Screening Levels (Csat)			NC	NA	NA	NC	NA	NA	NA	NC	1.00E+07
Sample ID	Sample Depth (ft)	Sample Date									
8221 SB01	1.0 - 2.0	01/29/2026	<3,390	8,580	22,700	9,920	17,800	8,120	<13.6	57,400	66.9
8221 SB02	3.0 - 4.0	01/29/2026	<3,400	8,290	21,400	11,500	16,300	8,210	<13.6	52,900	<51.5
8221 SB03	5.0 - 6.0	01/29/2026	19,800	8,410	82,700	21,200	16,100	12,700	25.1	49,500	<73

Notes

Only parameters with one or more detections are shown.

ug/kg = Micrograms per Kilogram.

Exceeds Generic Drinking Water Protection Criteria.

Exceeds Groundwater Surface Water Interface Protection Criteria.

Exceeds Applicable Soil Vapor Inhalation Criteria/Screening Levels.

Exceeds Two or More DWPC, GSIPC, and/or Applicable Soil Vapor Inhalation Criteria/Screening Levels.

Exceeds PSIC, DCC, and/or Csat, likely exceeds others.

Bold indicates concentration above laboratory reporting limits.

NC = No Criteria; NA = Not Applicable; NLV = Not Likely to Volatize; NLL = Not Likely to Leach.

Part 201 GSIPC Hardness specific criteria (G) calculated using a regional hardness value of the lower portion of the lower peninsula, 150 mg CaCO3/L.

Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, updated October 12, 2023.

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 with 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 REPORT



**DAILY FIELD REPORT**

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

Report No.: 1
Job No.: DETR0060

Date: 01/29/2026	Day: Thursday	Temp: 18°	(AM)	N/A	(PM)
MSG Personnel: JDF, WRD, KDW		Cloud Cover: 100%	(AM)	N/A	(PM)
		Precip.: N/A	(AM)	N/A	(PM)
Personnel: MSG					
MSG Hours On-Site: ~ 0.5 hour					

Contractors Information		
Contractor: MSG	No. Men and Type: 3; Operator/ Geologist /Helper	Equipment Type: Geoprobe 7822DT

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

Field Notes:
1020 – MSG onsite (8221 Nuernberg) 1021 – Unloaded equipment and marked out boring locations 1023 – Began drilling SB01 1026 – Finished drilling SB01 1027 – Began drilling SB02 1030 – Finished drilling SB02 1031 – Began drilling SB03 1034 – Finished drilling SB03 1036 – MSG screens soils prior to sampling 1040– Sampled 8221 SB01 (1-2')_20260129 1044– Sampled 8221 SB02 (3-4')_20260129 1048 – Sampled 8221 SB03 (5-6')_20260129 1052 – Packed up equipment 1053 – MSG off site

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

APPENDIX C

INVESTIGATION PHOTOGRAPHS





Photo 1: View of the Site pre-drilling, facing west.



Photo 2: View of drilling at 8221 SB01, facing southeast.



Photo 3: Viewing 8221 SB02 soil recovery, facing southeast.



Photo 4: View of drilling at 8221 SB03, facing southeast.



Photo 5: Viewing 8221 SB01, SB02, SB03 soil recovery, facing east.

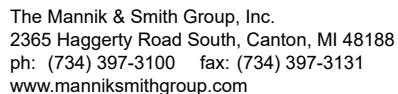


Photo 6: View of the site post-drilling, facing north.

APPENDIX D

SOIL BORING LOGS





Sheet 1 of 1

PROJECT NAME Backfill Soil Sampling

PROJECT LOCATION 8221 Neurnberg, Detroit, MI

POSITION

SURFACE ELEVATION **FINAL DEPTH** 6.0 ft

LOGGED BY WRD CHECKED BY PDH

REMARKS

LEGEND:

✓ AFTER DRILLING	Not Measured
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APPENDIX E

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

February 06, 2026

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

Re: **8221 Nuernberg**

Date Received: **01/30/2026**

Work Order: **HN2601366**

Dear Ryan,

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

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

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

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

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

Kathy Jones-Gronda

/S/ KATHY JONES-GRONDA

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg

Work Order: HN2601366
Date Received: 30-Jan-2026

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 30-Jan-2026. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

WorkOrder: HN2601366

Soil/solid results are reported on a dry-weight basis, corrected using laboratory-determined percent moisture content, unless explicitly identified otherwise.

The "Analyzed By" ID displayed is a result of task re-authorization by project management. The performing analyst's ID is preserved in the raw data. The following EPA methods are affected: 8082A, and 8260D

Organics

EPA 8270E-FULL HN-3546-S

Run ID: 3862290

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

Benzaldehyde was outside the linear calibration in the initial and continuing calibration verifications, but was non-detect in the samples.

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

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

Run ID: 3854688

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

Metals

EPA 6020B-3050B-S

Run ID: 3857383

Samples HN2601366-001 through -003: The reporting limits are elevated for Cd, Se and Ag due to the dilutions needed for high concentrations of non-target analytes.

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: 8221 SB01(1-2')_20260129	Lab ID: HN2601366-001
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Analyte	Results	Flag	MRL	Units	Method
Arsenic	8.58		3.31	mg/kg	EPA 6020B
Barium	22.7		3.31	mg/kg	EPA 6020B
Chromium	9.92		3.31	mg/kg	EPA 6020B
Copper	17.8		3.31	mg/kg	EPA 6020B
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	66.9		60.2	µg/kg	EPA 8270E
Lead	8.12		3.31	mg/kg	EPA 6020B
Percent Moisture	8.1		0.1	%	EPA 3550C
Zinc	57.4		6.63	mg/kg	EPA 6020B

CLIENT ID: 8221 SB02(3-4')_20260129	Lab ID: HN2601366-002
--	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	8.29		3.03	mg/kg	EPA 6020B
Barium	21.4		3.03	mg/kg	EPA 6020B
Chromium	11.5		3.03	mg/kg	EPA 6020B
Copper	16.3		3.03	mg/kg	EPA 6020B
Lead	8.21		3.03	mg/kg	EPA 6020B
Percent Moisture	9.2		0.1	%	EPA 3550C
Zinc	52.9		6.07	mg/kg	EPA 6020B

CLIENT ID: 8221 SB03(5-6')_20260129	Lab ID: HN2601366-003
--	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	8.41		3.70	mg/kg	EPA 6020B
Barium	82.7		3.70	mg/kg	EPA 6020B
Chloride	19.8		12.2	mg/kg	EPA 9056A
Chromium	21.2		3.70	mg/kg	EPA 6020B
Copper	16.1		3.70	mg/kg	EPA 6020B
Lead	12.7		3.70	mg/kg	EPA 6020B
Mercury	0.0251		0.0212	mg/kg	EPA 7471B
Percent Moisture	17.2		0.1	%	EPA 3550C
Zinc	49.5		7.40	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Workorder: HN2601366

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2601366-001	8221 SB01(1-2')_20260129	SOIL/SOLID	01/29/26 10:40	01/30/26 06:00
HN2601366-002	8221 SB02(3-4')_20260129	SOIL/SOLID	01/29/26 10:44	01/30/26 06:00
HN2601366-003	8221 SB03(5-6')_20260129	SOIL/SOLID	01/29/26 10:48	01/30/26 06:00



ALS Environmental

Laboratory location:

Chain of Custody Form

Page _____ of _____

Environmental Division
Holland
Work Order Reference
HN2601366

Telephone : +1 616 399 6070

Customer Information			Project Information				Parameter/Method												
Purchase Order		Project Name	8221 Nuernberg		A	VOCs (U.S. EPA Method 8260C)													
Work Order		Project Number	DETR0060		B	SVOCs (U.S. EPA Method 8270)													
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group		C	PCBs (U.S. EPA Method 8082)													
Send Report To	Ryan Montri and Olivia Mitchell	Invoice Attn			D	Mi 10 Metals (U.S. EPA 6000/7)													
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road		E	Chlorides (U.S. EPA Method													
					F	Pesticides (U.S. EPA Metho													
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188		G	Herbicides (U.S. EPA Method 8151)													
Phone	734-397-3100	Phone	734-397-3100		H														
Fax		Fax			I														
e-Mail Address	rmontri@mannaiksmithgroup.com	e-Mail Address	omitchell@mannaiksmithgroup.com		J														
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	8221 SB01 (1-2 ')_2026 01 29	1/29/26	1040	Soil	7	3	✓	✓	✓	✓	✓	✓	✓						
2	8221 SB02 (3-4 ')_2026 01 29	1	1044	Soil	7	3	✓	✓	✓	✓	✓	✓	✓						
3	8221 SB03 (5-6 ')_2026 01 29	1	1048	Soil	7	3	✓	✓	✓	✓	✓	✓	✓						
4																			
5																			
6																			
7																			
8																			
9																			
10																			
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:				Other				Results Due Date:							
WILEY DAVENPORT				☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour															
Relinquished by:		Date:	Time:	Received by:		Notes:													
Wiley Davenport		1/29/26	1559	N. Smith		QS + 0 BH 1/30/26 0600													
Relinquished by:		Date:	Time:	Received by (Laboratory):		QC Package: (Check Box Below)													
Wiley Davenport		1/29	1700	OS		Cooler Temp. 1.9c													
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		Level II: Standard QC TRRP-Checklist													
BH		1/30/26	0901			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
3352 128th Ave., Holland MI 49424

ALS Holland Sample Receiving Checklist

Received by:

BH

Date/Time:

1/30/26 0600

Carrier Name:

QS

Shipping container/cooler in good condition?

☒ Yes / No / Not Present

Custody seals intact on shipping container/cooler?

Yes / No / ☒ Not Present

Custody seals intact on sample bottles?

Yes / No / ☒ Not Present

Chain of Custody present?

☒ Yes / No

COC signed when relinquished and received?

☒ Yes / No

COC agrees with sample labels?

☒ Yes / No

Samples in proper container/bottle?

☒ Yes / No

Sample containers intact?

☒ Yes / No

Sufficient sample volume for indicated test?

☒ Yes / No

All samples received within holding time?

☒ Yes / No

Container/Temp Blank temperature in compliance?

☒ Yes / No

Temperature(s) (°C):

1.9/1.9C

Thermometer(s):

186

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

Soil/Solid

Cooler(s)/Kit(s):

2

Date/Time sample(s) sent to storage:

1/30/26 0901

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:

--

HN-SHT-160-R01, Sample Receipt Checklist

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 Method criteria
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.

LABORATORY CERTIFICATIONS¹

Agency	Type	ID	Issued	Expires
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	12/08/2025	12/31/2026
Indiana	Drinking Water (Secondary)	C-MI-08	12/31/2024	09/04/2026
Iowa	State Specific	403	09/01/2025	09/01/2027
Kansas	NELAP (Secondary)	E-10411	08/01/2025	07/31/2026
Kentucky	Waste Water	KY98004	1/1/2026	12/31/2026
Kentucky	UST	120474	07/07/2025	06/30/2026
Michigan	Drinking Water (Primary)	0022	12/19/2023	09/04/2026
Minnesota	NELAP (Secondary)	026-999-449	12/10/2025	12/31/2026
Missouri	Drinking Water (Secondary)	01262	11/14/2024	12/30/2027
New Jersey	NELAP (Secondary)	MI015	07/01/2025	6/30/2026
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	11/25/2025	07/31/2026
Texas	NELAP (Secondary)	T104704494	02/01/2026	01/31/2027
USDA	Domestic CA	Soil-MI-007	02/06/2025	08/07/2026
USDA	Soil Import	525-23-62-77572R1	01/28/2026	03/03/2029
West Virginia	State Specific	355	06/07/2025	08/31/2026
Wisconsin	State Specific	399084510	08/08/2025	08/31/2026

1 – Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg

Work Order: HN2601366

Sample Name: 8221 SB01(1-2')_20260129
Laboratory Code: HN2601366-001
Sample Matrix: SOIL/SOLID

Date Collected: 01/29/26
Date Received: 01/30/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2435646		3851284	Jacob Foley
EPA 6020B	EPA 3050B	001-AC	2438882	Weston Kotecki	3857383	Hunter Johnson
EPA 7471B	Method	001-AC	2437772	Maxx Richey	3856723	Maxx Richey
EPA 8081B	EPA 3546	001-AC	2436094	Benjamin Farmer	3854311	Nathaniel Dietlin
EPA 8082A	EPA 3546	001-AC	2436092	Benjamin Farmer	3855151	Kathy Jones-Gronda
EPA 8151A	Method	001-AC	2437714	Rachel Plantinga	3855556	Kathy Malmyga
EPA 8260D	EPA 5035A	001-AA	2435798	Jonathan Vazquez	3854688	Kathy Jones-Gronda
EPA 8270E	EPA 3546	001-AC	2437710	Benjamin Farmer	3862290	Alexa Montague
EPA 9056A	EPA 9056A	001-AC	2435630	Quoc Nguyen	3852814	Sage Hansen

Sample Name: 8221 SB02(3-4')_20260129
Laboratory Code: HN2601366-002
Sample Matrix: SOIL/SOLID

Date Collected: 01/29/26
Date Received: 01/30/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2435646		3851284	Jacob Foley
EPA 6020B	EPA 3050B	002-AC	2438882	Weston Kotecki	3857383	Hunter Johnson
EPA 7471B	Method	002-AC	2437772	Maxx Richey	3856723	Maxx Richey
EPA 8081B	EPA 3546	002-AC	2436094	Benjamin Farmer	3854311	Nathaniel Dietlin
EPA 8082A	EPA 3546	002-AC	2436092	Benjamin Farmer	3855151	Kathy Jones-Gronda
EPA 8151A	Method	002-AC	2437714	Rachel Plantinga	3855556	Kathy Malmyga
EPA 8260D	EPA 5035A	002-AA	2435798	Jonathan Vazquez	3854688	Kathy Jones-Gronda
EPA 8270E	EPA 3546	002-AC	2437710	Benjamin Farmer	3862290	Alexa Montague
EPA 9056A	EPA 9056A	002-AC	2435630	Quoc Nguyen	3852814	Sage Hansen

Sample Name: 8221 SB03(5-6')_20260129
Laboratory Code: HN2601366-003
Sample Matrix: SOIL/SOLID

Date Collected: 01/29/26
Date Received: 01/30/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AC	2435646		3851284	Jacob Foley

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg

Work Order: HN2601366

Sample Name: 8221 SB03(5-6')_20260129
Laboratory Code: HN2601366-003
Sample Matrix: SOIL/SOLID

Date Collected: 01/29/26
Date Received: 01/30/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3050B	003-AC	2438882	Weston Kotecki	3857383	Hunter Johnson
EPA 7471B	Method	003-AC	2437772	Maxx Richey	3856723	Maxx Richey
EPA 8081B	EPA 3546	003-AC	2436094	Benjamin Farmer	3854311	Nathaniel Dietlin
EPA 8082A	EPA 3546	003-AC	2436092	Benjamin Farmer	3855151	Kathy Jones-Gronda
EPA 8151A	Method	003-AC	2437714	Rachel Plantinga	3855556	Kathy Malmyga
EPA 8260D	EPA 5035A	003-AA	2435798	Jonathan Vazquez	3854688	Kathy Jones-Gronda
EPA 8270E	EPA 3546	003-AC	2437710	Benjamin Farmer	3862290	Alexa Montague
EPA 9056A	EPA 9056A	003-AC	2435630	Quoc Nguyen	3852814	Sage Hansen

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:40
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB01(1-2')_20260129

Lab ID: HN2601366-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<0.995	U	µg/kg	5.41	1	02/03/26 19:27	02/02/26 09:01
2,4,5-TP (Silvex)	EPA 8151A	<1.77	U	µg/kg	5.41	1	02/03/26 19:27	02/02/26 09:01
2,4-D	EPA 8151A	<2.89	U	µg/kg	10.8	1	02/03/26 19:27	02/02/26 09:01
Surr: DCAA	EPA 8151A	54.0		%REC	10-116	1	02/03/26 19:27	02/02/26 09:01
General Chemistry Parameters								
Percent Moisture	EPA 3550C	8.1		%	0.1	1	01/30/26 11:53	NA
Chloride	EPA 9056A	<3.39	U	mg/kg	10.9	1	01/31/26 04:14	01/30/26 11:57
Metals								
Arsenic	EPA 6020B	8.58		mg/kg	3.31	10	02/03/26 16:07	02/03/26 08:33
Barium	EPA 6020B	22.7		mg/kg	3.31	10	02/03/26 16:07	02/03/26 08:33
Cadmium	EPA 6020B	<0.199	U	mg/kg	1.33	10	02/03/26 16:07	02/03/26 08:33
Chromium	EPA 6020B	9.92		mg/kg	3.31	10	02/03/26 16:07	02/03/26 08:33
Copper	EPA 6020B	17.8		mg/kg	3.31	10	02/03/26 16:07	02/03/26 08:33
Lead	EPA 6020B	8.12		mg/kg	3.31	10	02/03/26 16:07	02/03/26 08:33
Selenium	EPA 6020B	<3.05	U	mg/kg	3.31	10	02/03/26 16:07	02/03/26 08:33
Silver	EPA 6020B	<0.437	U	mg/kg	3.31	10	02/03/26 16:07	02/03/26 08:33
Zinc	EPA 6020B	57.4		mg/kg	6.63	10	02/03/26 16:07	02/03/26 08:33
Mercury	EPA 7471B	<0.0136	U	mg/kg	0.0200	1	02/03/26 10:21	02/02/26 14:08
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<16.7	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
4,4'-DDE	EPA 8081B	<17.2	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
4,4'-DDT	EPA 8081B	<17.4	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
Aldrin	EPA 8081B	<17.0	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
alpha-BHC	EPA 8081B	<17.2	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
beta-BHC	EPA 8081B	<17.1	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
Chlordane, Technical	EPA 8081B	<25.9	U	µg/kg	65.3	1	01/31/26 21:36	01/30/26 13:36
cis-Chlordane	EPA 8081B	<17.5	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
delta-BHC	EPA 8081B	<17.1	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
Dieldrin	EPA 8081B	<18.3	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:40
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB01(1-2')_20260129

Lab ID: HN2601366-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<17.6	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
Endosulfan II	EPA 8081B	<17.3	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
Endosulfan sulfate	EPA 8081B	<16.1	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
Endrin	EPA 8081B	<21.1	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
Endrin aldehyde	EPA 8081B	<16.6	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
Endrin ketone	EPA 8081B	<15.9	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
gamma-BHC (Lindane)	EPA 8081B	<17.1	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
Heptachlor	EPA 8081B	<16.9	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
Heptachlor epoxide	EPA 8081B	<17.3	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
Methoxychlor	EPA 8081B	<17.5	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
Toxaphene	EPA 8081B	<28.2	U	µg/kg	157	1	01/31/26 21:36	01/30/26 13:36
trans-Chlordane	EPA 8081B	<17.3	U	µg/kg	26.1	1	01/31/26 21:36	01/30/26 13:36
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	122		%REC	53-151	1	01/31/26 21:36	01/30/26 13:36
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	106		%REC	67-127	1	01/31/26 21:36	01/30/26 13:36

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<59.7	U	µg/kg	174	1	01/31/26 18:33	01/30/26 13:54
Aroclor 1221	EPA 8082A	<59.7	U	µg/kg	174	1	01/31/26 18:33	01/30/26 13:54
Aroclor 1232	EPA 8082A	<59.7	U	µg/kg	174	1	01/31/26 18:33	01/30/26 13:54
Aroclor 1242	EPA 8082A	<59.7	U	µg/kg	174	1	01/31/26 18:33	01/30/26 13:54
Aroclor 1248	EPA 8082A	<59.7	U	µg/kg	174	1	01/31/26 18:33	01/30/26 13:54
Aroclor 1254	EPA 8082A	<48.6	U	µg/kg	174	1	01/31/26 18:33	01/30/26 13:54
Aroclor 1260	EPA 8082A	<48.6	U	µg/kg	174	1	01/31/26 18:33	01/30/26 13:54
Aroclor 1262	EPA 8082A	<48.6	U	µg/kg	174	1	01/31/26 18:33	01/30/26 13:54
Aroclor 1268	EPA 8082A	<48.6	U	µg/kg	174	1	01/31/26 18:33	01/30/26 13:54
Total PCB	EPA 8082A	<48.6	U	µg/kg	174	1	01/31/26 18:33	01/30/26 13:54
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	111		%REC	54-146	1	01/31/26 18:33	01/30/26 13:54
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	90.3		%REC	58-140	1	01/31/26 18:33	01/30/26 13:54

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<9.87	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<14.0	U	µg/kg	608	1	02/04/26 20:06	02/02/26 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:40
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB01(1-2')_20260129

Lab ID: HN2601366-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<43.6	U	µg/kg	304	1	02/04/26 20:06	02/02/26 13:19
1-Methylnaphthalene	EPA 8270E	<8.76	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<14.3	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
2,3,4,6-Tetrachlorophenol	EPA 8270E	<44.6	U	µg/kg	122	1	02/04/26 20:06	02/02/26 13:19
2,4,5-Trichlorophenol	EPA 8270E	<36.1	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
2,4,6-Trichlorophenol	EPA 8270E	<16.2	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
2,4-Dichlorophenol	EPA 8270E	<32.7	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
2,4-Dimethylphenol	EPA 8270E	<31.3	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
2,4-Dinitrophenol	EPA 8270E	<445	U	µg/kg	608	1	02/04/26 20:06	02/02/26 13:19
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<39.5	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<15.5	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
2-Chloronaphthalene	EPA 8270E	<8.51	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
2-Chlorophenol	EPA 8270E	<39.8	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<50.8	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
2-Methylnaphthalene	EPA 8270E	<6.19	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
2-Methylphenol (o-Cresol)	EPA 8270E	<16.4	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
2-Nitroaniline	EPA 8270E	<33.8	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
2-Nitrophenol	EPA 8270E	<17.3	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
3&4-Methylphenol	EPA 8270E	<33.2	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
3,3'-Dichlorobenzidine	EPA 8270E	<28.4	U	µg/kg	304	1	02/04/26 20:06	02/02/26 13:19
3-Nitroaniline	EPA 8270E	<35.3	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<33.3	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
4-Chloro-3-methylphenol	EPA 8270E	<17.3	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
4-Chloroaniline	EPA 8270E	<30.9	U	µg/kg	122	1	02/04/26 20:06	02/02/26 13:19
4-Chlorophenyl phenylether	EPA 8270E	<16.8	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
4-Nitroaniline	EPA 8270E	<94.4	U	µg/kg	304	1	02/04/26 20:06	02/02/26 13:19
4-Nitrophenol	EPA 8270E	<143	U	µg/kg	608	1	02/04/26 20:06	02/02/26 13:19
Acenaphthene	EPA 8270E	<8.80	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:40
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB01(1-2')_20260129

Lab ID: HN2601366-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<10.6	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
Acetophenone	EPA 8270E	<9.53	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Anthracene	EPA 8270E	<8.58	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
Atrazine	EPA 8270E	<35.6	SU	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Benzaldehyde	EPA 8270E	<93.5	U	µg/kg	122	1	02/04/26 20:06	02/02/26 13:19
Benzo(a)anthracene	EPA 8270E	<10.5	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
Benzo(a)pyrene	EPA 8270E	<7.47	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
Benzo(b)fluoranthene	EPA 8270E	<9.07	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
Benzo(g,h,i)perylene	EPA 8270E	<9.33	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
Benzo(k)fluoranthene	EPA 8270E	<9.22	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
bis(2-Chloroethoxy) methane	EPA 8270E	<38.5	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
bis(2-Chloroethyl) ether	EPA 8270E	<17.2	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Butyl benzyl phthalate	EPA 8270E	<76.2	U	µg/kg	122	1	02/04/26 20:06	02/02/26 13:19
Caprolactam	EPA 8270E	<54.9	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Carbazole	EPA 8270E	<17.9	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Chrysene	EPA 8270E	<9.84	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	66.9		µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Dibenz(a,h) anthracene	EPA 8270E	<6.57	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Dibenzofuran	EPA 8270E	<8.94	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Diethyl phthalate	EPA 8270E	<20.7	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Dimethyl phthalate	EPA 8270E	<11.9	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Fluoranthene	EPA 8270E	<5.84	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
Fluorene	EPA 8270E	<8.83	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
Hexachlorobenzene	EPA 8270E	<17.7	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Hexachlorobutadiene	EPA 8270E	<14.3	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Hexachlorocyclopentadiene	EPA 8270E	<57.7	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Hexachloroethane	EPA 8270E	<25.2	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Indeno(1,2,3-cd) pyrene	EPA 8270E	<8.47	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
Isophorone	EPA 8270E	<11.9	U	µg/kg	304	1	02/04/26 20:06	02/02/26 13:19
Methylphenol, Total	EPA 8270E	<16.4	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:40
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB01(1-2')_20260129

Lab ID: HN2601366-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<7.78	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
Nitrobenzene	EPA 8270E	<20.4	U	µg/kg	304	1	02/04/26 20:06	02/02/26 13:19
n-Nitrosodi-n-propylamine	EPA 8270E	<10.0	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
N-Nitrosodiphenylamine	EPA 8270E	<35.2	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Pentachlorophenol	EPA 8270E	<48.3	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Phenanthrene	EPA 8270E	<5.66	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
Phenol	EPA 8270E	<30.6	U	µg/kg	60.2	1	02/04/26 20:06	02/02/26 13:19
Pyrene	EPA 8270E	<6.07	U	µg/kg	12.2	1	02/04/26 20:06	02/02/26 13:19
Pyridine	EPA 8270E	<120	U	µg/kg	304	1	02/04/26 20:06	02/02/26 13:19
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	70.9		%REC	48-94	1	02/04/26 20:06	02/02/26 13:19
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	73.7		%REC	50-103	1	02/04/26 20:06	02/02/26 13:19
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	77.6		%REC	43-105	1	02/04/26 20:06	02/02/26 13:19
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	87.1		%REC	55-111	1	02/04/26 20:06	02/02/26 13:19
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	78.7		%REC	47-100	1	02/04/26 20:06	02/02/26 13:19
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	81.2		%REC	49-110	1	02/04/26 20:06	02/02/26 13:19

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<28.5	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
1,1,2,2-Tetrachloroethane	EPA 8260D	<27.8	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<39.8	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
1,1,2-Trichloroethane	EPA 8260D	<26.7	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
1,1-Dichloroethane	EPA 8260D	<22.9	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
1,1-Dichloroethylene	EPA 8260D	<20.4	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
1,2,3-Trichlorobenzene	EPA 8260D	<75.5	U	µg/kg	210	1	01/30/26 15:09	01/30/26 11:11
1,2,3-Trichloropropane	EPA 8260D	<26.3	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
1,2,4-Trichlorobenzene	EPA 8260D	<71.3	U	µg/kg	210	1	01/30/26 15:09	01/30/26 11:11
1,2,4-Trimethylbenzene	EPA 8260D	<46.1	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<57.9	U	µg/kg	210	1	01/30/26 15:09	01/30/26 11:11
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<37.0	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<23.9	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:40
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB01(1-2')_20260129

Lab ID: HN2601366-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<37.0	U	µg/kg	210	1	01/30/26 15:09	01/30/26 11:11
1,2-Dichloropropane	EPA 8260D	<46.3	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
1,3,5-Trimethylbenzene	EPA 8260D	<44.4	U	µg/kg	210	1	01/30/26 15:09	01/30/26 11:11
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<43.4	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
1,3-Dichloropropene	EPA 8260D	<35.1	U	µg/kg	126	1	01/30/26 15:09	01/30/26 11:11
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<51.1	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<150	U	µg/kg	419	1	01/30/26 15:09	01/30/26 11:11
2-Hexanone	EPA 8260D	<31.2	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<58.6	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Acetone	EPA 8260D	<187	U	µg/kg	210	1	01/30/26 15:09	01/30/26 11:11
Benzene	EPA 8260D	<30.5	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Bromochloromethane	EPA 8260D	<32.0	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Bromodichloromethane	EPA 8260D	<35.2	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Bromoform	EPA 8260D	<26.5	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Carbon disulfide	EPA 8260D	<32.6	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Carbon tetrachloride	EPA 8260D	<24.6	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Chlorobenzene	EPA 8260D	<20.9	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Chlorodibromomethane	EPA 8260D	<35.3	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Chloroethane (Ethyl chloride)	EPA 8260D	<176	U	µg/kg	210	1	01/30/26 15:09	01/30/26 11:11
Chloroform	EPA 8260D	<23.0	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
cis-1,2-Dichloroethylene	EPA 8260D	<40.4	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
cis-1,3-Dichloropropene	EPA 8260D	<47.4	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Cyclohexane	EPA 8260D	<48.1	U	µg/kg	210	1	01/30/26 15:09	01/30/26 11:11
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<76.1	U	µg/kg	210	1	01/30/26 15:09	01/30/26 11:11
Ethylbenzene	EPA 8260D	<44.6	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Isopropylbenzene	EPA 8260D	<39.7	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
m+p-Xylene	EPA 8260D	<83.8	U	µg/kg	126	1	01/30/26 15:09	01/30/26 11:11
Methyl acetate	EPA 8260D	<75.3	U	µg/kg	524	1	01/30/26 15:09	01/30/26 11:11
Methyl bromide (Bromomethane)	EPA 8260D	<120	U	µg/kg	210	1	01/30/26 15:09	01/30/26 11:11

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:40
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB01(1-2')_20260129

Lab ID: HN2601366-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<172	U	µg/kg	210	1	01/30/26 15:09	01/30/26 11:11
Methyl tert-butyl ether (MTBE)	EPA 8260D	<45.9	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Methylcyclohexane	EPA 8260D	<24.0	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Methylene chloride (Dichloromethane)	EPA 8260D	<167	U	µg/kg	524	1	01/30/26 15:09	01/30/26 11:11
o-Xylene	EPA 8260D	<24.3	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Styrene	EPA 8260D	<24.9	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<37.9	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Toluene	EPA 8260D	<51.8	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Total Xylene	EPA 8260D	<24.3	U	µg/kg	189	1	01/30/26 15:09	01/30/26 11:11
trans-1,2-Dichloroethylene	EPA 8260D	<51.9	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
trans-1,3-Dichloropropylene	EPA 8260D	<35.1	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Trichloroethene (Trichloroethylene)	EPA 8260D	<28.2	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<32.2	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
Vinyl chloride (Chloroethene)	EPA 8260D	<41.8	U	µg/kg	62.9	1	01/30/26 15:09	01/30/26 11:11
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	113		%REC	80-120	1	01/30/26 15:09	01/30/26 11:11
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	95.2		%REC	80-120	1	01/30/26 15:09	01/30/26 11:11
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	108		%REC	72-120	1	01/30/26 15:09	01/30/26 11:11
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	01/30/26 15:09	01/30/26 11:11

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:44
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB02(3-4')_20260129

Lab ID: HN2601366-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<1.00	U	µg/kg	5.44	1	02/03/26 19:40	02/02/26 09:01
2,4,5-TP (Silvex)	EPA 8151A	<1.78	U	µg/kg	5.44	1	02/03/26 19:40	02/02/26 09:01
2,4-D	EPA 8151A	<2.91	U	µg/kg	10.9	1	02/03/26 19:40	02/02/26 09:01
Surr: DCAA	EPA 8151A	62.0		%REC	10-116	1	02/03/26 19:40	02/02/26 09:01
General Chemistry Parameters								
Percent Moisture	EPA 3550C	9.2		%	0.1	1	01/30/26 11:53	NA
Chloride	EPA 9056A	<3.40	U	mg/kg	11.0	1	01/31/26 04:38	01/30/26 11:57
Metals								
Arsenic	EPA 6020B	8.29		mg/kg	3.03	10	02/03/26 16:08	02/03/26 08:33
Barium	EPA 6020B	21.4		mg/kg	3.03	10	02/03/26 16:08	02/03/26 08:33
Cadmium	EPA 6020B	<0.182	U	mg/kg	1.21	10	02/03/26 16:08	02/03/26 08:33
Chromium	EPA 6020B	11.5		mg/kg	3.03	10	02/03/26 16:08	02/03/26 08:33
Copper	EPA 6020B	16.3		mg/kg	3.03	10	02/03/26 16:08	02/03/26 08:33
Lead	EPA 6020B	8.21		mg/kg	3.03	10	02/03/26 16:08	02/03/26 08:33
Selenium	EPA 6020B	<2.79	U	mg/kg	3.03	10	02/03/26 16:08	02/03/26 08:33
Silver	EPA 6020B	<0.400	U	mg/kg	3.03	10	02/03/26 16:08	02/03/26 08:33
Zinc	EPA 6020B	52.9		mg/kg	6.07	10	02/03/26 16:08	02/03/26 08:33
Mercury	EPA 7471B	<0.0136	U	mg/kg	0.0200	1	02/03/26 10:23	02/02/26 14:08
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<17.4	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
4,4'-DDE	EPA 8081B	<18.0	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
4,4'-DDT	EPA 8081B	<18.1	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
Aldrin	EPA 8081B	<17.7	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
alpha-BHC	EPA 8081B	<18.0	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
beta-BHC	EPA 8081B	<17.9	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
Chlordane, Technical	EPA 8081B	<27.0	U	µg/kg	68.2	1	01/31/26 22:33	01/30/26 13:36
cis-Chlordane	EPA 8081B	<18.2	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
delta-BHC	EPA 8081B	<17.9	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
Dieldrin	EPA 8081B	<19.1	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:44
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB02(3-4')_20260129

Lab ID: HN2601366-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<18.3	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
Endosulfan II	EPA 8081B	<18.1	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
Endosulfan sulfate	EPA 8081B	<16.8	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
Endrin	EPA 8081B	<22.1	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
Endrin aldehyde	EPA 8081B	<17.3	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
Endrin ketone	EPA 8081B	<16.6	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
gamma-BHC (Lindane)	EPA 8081B	<17.9	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
Heptachlor	EPA 8081B	<17.6	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
Heptachlor epoxide	EPA 8081B	<18.0	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
Methoxychlor	EPA 8081B	<18.2	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
Toxaphene	EPA 8081B	<29.5	U	µg/kg	164	1	01/31/26 22:33	01/30/26 13:36
trans-Chlordane	EPA 8081B	<18.1	U	µg/kg	27.3	1	01/31/26 22:33	01/30/26 13:36
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	121		%REC	53-151	1	01/31/26 22:33	01/30/26 13:36
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	106		%REC	67-127	1	01/31/26 22:33	01/30/26 13:36

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<62.3	U	µg/kg	182	1	01/31/26 18:44	01/30/26 13:54
Aroclor 1221	EPA 8082A	<62.3	U	µg/kg	182	1	01/31/26 18:44	01/30/26 13:54
Aroclor 1232	EPA 8082A	<62.3	U	µg/kg	182	1	01/31/26 18:44	01/30/26 13:54
Aroclor 1242	EPA 8082A	<62.3	U	µg/kg	182	1	01/31/26 18:44	01/30/26 13:54
Aroclor 1248	EPA 8082A	<62.3	U	µg/kg	182	1	01/31/26 18:44	01/30/26 13:54
Aroclor 1254	EPA 8082A	<50.8	U	µg/kg	182	1	01/31/26 18:44	01/30/26 13:54
Aroclor 1260	EPA 8082A	<50.8	U	µg/kg	182	1	01/31/26 18:44	01/30/26 13:54
Aroclor 1262	EPA 8082A	<50.8	U	µg/kg	182	1	01/31/26 18:44	01/30/26 13:54
Aroclor 1268	EPA 8082A	<50.8	U	µg/kg	182	1	01/31/26 18:44	01/30/26 13:54
Total PCB	EPA 8082A	<50.8	U	µg/kg	182	1	01/31/26 18:44	01/30/26 13:54
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	117		%REC	54-146	1	01/31/26 18:44	01/30/26 13:54
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	94.1		%REC	58-140	1	01/31/26 18:44	01/30/26 13:54

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<10.1	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<14.4	U	µg/kg	622	1	02/04/26 20:33	02/02/26 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:44
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB02(3-4')_20260129

Lab ID: HN2601366-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<44.6	U	µg/kg	311	1	02/04/26 20:33	02/02/26 13:19
1-Methylnaphthalene	EPA 8270E	<8.96	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<14.6	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
2,3,4,6-Tetrachlorophenol	EPA 8270E	<45.6	U	µg/kg	124	1	02/04/26 20:33	02/02/26 13:19
2,4,5-Trichlorophenol	EPA 8270E	<36.9	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
2,4,6-Trichlorophenol	EPA 8270E	<16.6	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
2,4-Dichlorophenol	EPA 8270E	<33.5	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
2,4-Dimethylphenol	EPA 8270E	<32.0	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
2,4-Dinitrophenol	EPA 8270E	<455	U	µg/kg	622	1	02/04/26 20:33	02/02/26 13:19
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<40.4	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<15.9	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
2-Chloronaphthalene	EPA 8270E	<8.70	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
2-Chlorophenol	EPA 8270E	<40.7	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<52.0	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
2-Methylnaphthalene	EPA 8270E	<6.33	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
2-Methylphenol (o-Cresol)	EPA 8270E	<16.8	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
2-Nitroaniline	EPA 8270E	<34.6	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
2-Nitrophenol	EPA 8270E	<17.7	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
3&4-Methylphenol	EPA 8270E	<33.9	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
3,3'-Dichlorobenzidine	EPA 8270E	<29.1	U	µg/kg	311	1	02/04/26 20:33	02/02/26 13:19
3-Nitroaniline	EPA 8270E	<36.1	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<34.1	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
4-Chloro-3-methylphenol	EPA 8270E	<17.7	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
4-Chloroaniline	EPA 8270E	<31.6	U	µg/kg	124	1	02/04/26 20:33	02/02/26 13:19
4-Chlorophenyl phenylether	EPA 8270E	<17.2	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
4-Nitroaniline	EPA 8270E	<96.5	U	µg/kg	311	1	02/04/26 20:33	02/02/26 13:19
4-Nitrophenol	EPA 8270E	<146	U	µg/kg	622	1	02/04/26 20:33	02/02/26 13:19
Acenaphthene	EPA 8270E	<9.00	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:44
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB02(3-4')_20260129

Lab ID: HN2601366-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<10.8	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
Acetophenone	EPA 8270E	<9.75	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Anthracene	EPA 8270E	<8.78	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
Atrazine	EPA 8270E	<36.5	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Benzaldehyde	EPA 8270E	<95.6	U	µg/kg	124	1	02/04/26 20:33	02/02/26 13:19
Benzo(a)anthracene	EPA 8270E	<10.8	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
Benzo(a)pyrene	EPA 8270E	<7.64	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
Benzo(b)fluoranthene	EPA 8270E	<9.28	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
Benzo(g,h,i)perylene	EPA 8270E	<9.54	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
Benzo(k)fluoranthene	EPA 8270E	<9.43	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
bis(2-Chloroethoxy) methane	EPA 8270E	<39.4	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
bis(2-Chloroethyl) ether	EPA 8270E	<17.6	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Butyl benzyl phthalate	EPA 8270E	<77.9	U	µg/kg	124	1	02/04/26 20:33	02/02/26 13:19
Caprolactam	EPA 8270E	<56.2	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Carbazole	EPA 8270E	<18.3	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Chrysene	EPA 8270E	<10.1	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<51.5	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Dibenz(a,h) anthracene	EPA 8270E	<6.72	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Dibenzofuran	EPA 8270E	<9.15	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Diethyl phthalate	EPA 8270E	<21.2	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Dimethyl phthalate	EPA 8270E	<12.1	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Fluoranthene	EPA 8270E	<5.97	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
Fluorene	EPA 8270E	<9.04	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
Hexachlorobenzene	EPA 8270E	<18.1	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Hexachlorobutadiene	EPA 8270E	<14.7	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Hexachlorocyclopentadiene	EPA 8270E	<59.0	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Hexachloroethane	EPA 8270E	<25.8	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Indeno(1,2,3-cd) pyrene	EPA 8270E	<8.66	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
Isophorone	EPA 8270E	<12.2	U	µg/kg	311	1	02/04/26 20:33	02/02/26 13:19
Methylphenol, Total	EPA 8270E	<16.8	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:44
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB02(3-4')_20260129

Lab ID: HN2601366-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<7.95	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
Nitrobenzene	EPA 8270E	<20.9	U	µg/kg	311	1	02/04/26 20:33	02/02/26 13:19
n-Nitrosodi-n-propylamine	EPA 8270E	<10.3	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
N-Nitrosodiphenylamine	EPA 8270E	<36.0	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Pentachlorophenol	EPA 8270E	<49.4	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Phenanthrene	EPA 8270E	<5.79	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
Phenol	EPA 8270E	<31.3	U	µg/kg	61.6	1	02/04/26 20:33	02/02/26 13:19
Pyrene	EPA 8270E	<6.21	U	µg/kg	12.4	1	02/04/26 20:33	02/02/26 13:19
Pyridine	EPA 8270E	<122	U	µg/kg	311	1	02/04/26 20:33	02/02/26 13:19
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	72.2		%REC	48-94	1	02/04/26 20:33	02/02/26 13:19
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	76.1		%REC	50-103	1	02/04/26 20:33	02/02/26 13:19
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	78.6		%REC	43-105	1	02/04/26 20:33	02/02/26 13:19
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	91.9		%REC	55-111	1	02/04/26 20:33	02/02/26 13:19
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	81.1		%REC	47-100	1	02/04/26 20:33	02/02/26 13:19
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	82.5		%REC	49-110	1	02/04/26 20:33	02/02/26 13:19

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<26.6	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
1,1,2,2-Tetrachloroethane	EPA 8260D	<25.9	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<37.1	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
1,1,2-Trichloroethane	EPA 8260D	<24.9	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
1,1-Dichloroethane	EPA 8260D	<21.4	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
1,1-Dichloroethylene	EPA 8260D	<19.0	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
1,2,3-Trichlorobenzene	EPA 8260D	<70.3	U	µg/kg	195	1	01/30/26 15:28	01/30/26 11:11
1,2,3-Trichloropropane	EPA 8260D	<24.5	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
1,2,4-Trichlorobenzene	EPA 8260D	<66.4	U	µg/kg	195	1	01/30/26 15:28	01/30/26 11:11
1,2,4-Trimethylbenzene	EPA 8260D	<43.0	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<54.0	U	µg/kg	195	1	01/30/26 15:28	01/30/26 11:11
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<34.5	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<22.2	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:44
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB02(3-4')_20260129

Lab ID: HN2601366-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<34.5	U	µg/kg	195	1	01/30/26 15:28	01/30/26 11:11
1,2-Dichloropropane	EPA 8260D	<43.2	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
1,3,5-Trimethylbenzene	EPA 8260D	<41.4	U	µg/kg	195	1	01/30/26 15:28	01/30/26 11:11
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<40.5	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
1,3-Dichloropropene	EPA 8260D	<32.7	U	µg/kg	117	1	01/30/26 15:28	01/30/26 11:11
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<47.6	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<140	U	µg/kg	391	1	01/30/26 15:28	01/30/26 11:11
2-Hexanone	EPA 8260D	<29.1	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<54.6	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Acetone	EPA 8260D	<174	U	µg/kg	195	1	01/30/26 15:28	01/30/26 11:11
Benzene	EPA 8260D	<28.4	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Bromochloromethane	EPA 8260D	<29.8	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Bromodichloromethane	EPA 8260D	<32.8	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Bromoform	EPA 8260D	<24.7	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Carbon disulfide	EPA 8260D	<30.3	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Carbon tetrachloride	EPA 8260D	<22.9	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Chlorobenzene	EPA 8260D	<19.5	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Chlorodibromomethane	EPA 8260D	<32.9	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Chloroethane (Ethyl chloride)	EPA 8260D	<164	U	µg/kg	195	1	01/30/26 15:28	01/30/26 11:11
Chloroform	EPA 8260D	<21.5	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
cis-1,2-Dichloroethylene	EPA 8260D	<37.7	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
cis-1,3-Dichloropropene	EPA 8260D	<44.2	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Cyclohexane	EPA 8260D	<44.9	U	µg/kg	195	1	01/30/26 15:28	01/30/26 11:11
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<70.9	U	µg/kg	195	1	01/30/26 15:28	01/30/26 11:11
Ethylbenzene	EPA 8260D	<41.6	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Isopropylbenzene	EPA 8260D	<37.0	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
m+p-Xylene	EPA 8260D	<78.1	U	µg/kg	117	1	01/30/26 15:28	01/30/26 11:11
Methyl acetate	EPA 8260D	<70.2	U	µg/kg	488	1	01/30/26 15:28	01/30/26 11:11
Methyl bromide (Bromomethane)	EPA 8260D	<112	U	µg/kg	195	1	01/30/26 15:28	01/30/26 11:11

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:44
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB02(3-4')_20260129

Lab ID: HN2601366-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<160	U	µg/kg	195	1	01/30/26 15:28	01/30/26 11:11
Methyl tert-butyl ether (MTBE)	EPA 8260D	<42.7	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Methylcyclohexane	EPA 8260D	<22.3	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Methylene chloride (Dichloromethane)	EPA 8260D	<156	U	µg/kg	488	1	01/30/26 15:28	01/30/26 11:11
o-Xylene	EPA 8260D	<22.7	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Styrene	EPA 8260D	<23.2	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<35.3	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Toluene	EPA 8260D	<48.3	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Total Xylene	EPA 8260D	<22.7	U	µg/kg	176	1	01/30/26 15:28	01/30/26 11:11
trans-1,2-Dichloroethylene	EPA 8260D	<48.4	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
trans-1,3-Dichloropropylene	EPA 8260D	<32.7	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Trichloroethene (Trichloroethylene)	EPA 8260D	<26.3	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<30.0	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
Vinyl chloride (Chloroethene)	EPA 8260D	<39.0	U	µg/kg	58.6	1	01/30/26 15:28	01/30/26 11:11
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	118		%REC	<i>80-120</i>	<i>1</i>	<i>01/30/26 15:28</i>	<i>01/30/26 11:11</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	95.0		%REC	<i>80-120</i>	<i>1</i>	<i>01/30/26 15:28</i>	<i>01/30/26 11:11</i>
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	109		%REC	<i>72-120</i>	<i>1</i>	<i>01/30/26 15:28</i>	<i>01/30/26 11:11</i>
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	101		%REC	<i>80-120</i>	<i>1</i>	<i>01/30/26 15:28</i>	<i>01/30/26 11:11</i>

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:48
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB03(5-6')_20260129

Lab ID: HN2601366-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<3.39	U	µg/kg	18.4	1	02/03/26 19:54	02/02/26 09:01
2,4,5-TP (Silvex)	EPA 8151A	<6.04	U	µg/kg	18.4	1	02/03/26 19:54	02/02/26 09:01
2,4-D	EPA 8151A	<9.84	U	µg/kg	36.9	1	02/03/26 19:54	02/02/26 09:01
Surr: DCAA	EPA 8151A	58.0		%REC	10-116	1	02/03/26 19:54	02/02/26 09:01
General Chemistry Parameters								
Percent Moisture	EPA 3550C	17.2		%	0.1	1	01/30/26 11:53	NA
Chloride	EPA 9056A	19.8		mg/kg	12.2	1	01/31/26 04:46	01/30/26 11:57
Metals								
Arsenic	EPA 6020B	8.41		mg/kg	3.70	10	02/03/26 16:10	02/03/26 08:33
Barium	EPA 6020B	82.7		mg/kg	3.70	10	02/03/26 16:10	02/03/26 08:33
Cadmium	EPA 6020B	<0.222	U	mg/kg	1.48	10	02/03/26 16:10	02/03/26 08:33
Chromium	EPA 6020B	21.2		mg/kg	3.70	10	02/03/26 16:10	02/03/26 08:33
Copper	EPA 6020B	16.1		mg/kg	3.70	10	02/03/26 16:10	02/03/26 08:33
Lead	EPA 6020B	12.7		mg/kg	3.70	10	02/03/26 16:10	02/03/26 08:33
Selenium	EPA 6020B	<3.40	U	mg/kg	3.70	10	02/03/26 16:10	02/03/26 08:33
Silver	EPA 6020B	<0.488	U	mg/kg	3.70	10	02/03/26 16:10	02/03/26 08:33
Zinc	EPA 6020B	49.5		mg/kg	7.40	10	02/03/26 16:10	02/03/26 08:33
Mercury	EPA 7471B	0.0251		mg/kg	0.0212	1	02/03/26 10:24	02/02/26 14:08
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<19.3	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
4,4'-DDE	EPA 8081B	<19.9	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
4,4'-DDT	EPA 8081B	<20.0	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
Aldrin	EPA 8081B	<19.6	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
alpha-BHC	EPA 8081B	<19.8	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
beta-BHC	EPA 8081B	<19.8	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
Chlordane, Technical	EPA 8081B	<29.9	U	µg/kg	75.3	1	01/31/26 22:45	01/30/26 13:36
cis-Chlordane	EPA 8081B	<20.1	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
delta-BHC	EPA 8081B	<19.7	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
Dieldrin	EPA 8081B	<21.1	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:48
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB03(5-6')_20260129

Lab ID: HN2601366-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<20.3	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
Endosulfan II	EPA 8081B	<20.0	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
Endosulfan sulfate	EPA 8081B	<18.5	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
Endrin	EPA 8081B	<24.4	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
Endrin aldehyde	EPA 8081B	<19.1	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
Endrin ketone	EPA 8081B	<18.3	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
gamma-BHC (Lindane)	EPA 8081B	<19.8	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
Heptachlor	EPA 8081B	<19.4	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
Heptachlor epoxide	EPA 8081B	<19.9	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
Methoxychlor	EPA 8081B	<20.1	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
Toxaphene	EPA 8081B	<32.5	U	µg/kg	181	1	01/31/26 22:45	01/30/26 13:36
trans-Chlordane	EPA 8081B	<20.0	U	µg/kg	30.1	1	01/31/26 22:45	01/30/26 13:36
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	100		%REC	53-151	1	01/31/26 22:45	01/30/26 13:36
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	103		%REC	67-127	1	01/31/26 22:45	01/30/26 13:36

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<68.9	U	µg/kg	201	1	01/31/26 18:56	01/30/26 13:54
Aroclor 1221	EPA 8082A	<68.9	U	µg/kg	201	1	01/31/26 18:56	01/30/26 13:54
Aroclor 1232	EPA 8082A	<68.9	U	µg/kg	201	1	01/31/26 18:56	01/30/26 13:54
Aroclor 1242	EPA 8082A	<68.9	U	µg/kg	201	1	01/31/26 18:56	01/30/26 13:54
Aroclor 1248	EPA 8082A	<68.9	U	µg/kg	201	1	01/31/26 18:56	01/30/26 13:54
Aroclor 1254	EPA 8082A	<56.1	U	µg/kg	201	1	01/31/26 18:56	01/30/26 13:54
Aroclor 1260	EPA 8082A	<56.1	U	µg/kg	201	1	01/31/26 18:56	01/30/26 13:54
Aroclor 1262	EPA 8082A	<56.1	U	µg/kg	201	1	01/31/26 18:56	01/30/26 13:54
Aroclor 1268	EPA 8082A	<56.1	U	µg/kg	201	1	01/31/26 18:56	01/30/26 13:54
Total PCB	EPA 8082A	<56.1	U	µg/kg	201	1	01/31/26 18:56	01/30/26 13:54
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	105		%REC	54-146	1	01/31/26 18:56	01/30/26 13:54
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	88.6		%REC	58-140	1	01/31/26 18:56	01/30/26 13:54

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<14.3	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<20.4	U	µg/kg	882	1	02/04/26 21:01	02/02/26 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:48
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB03(5-6')_20260129

Lab ID: HN2601366-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<63.3	U	µg/kg	442	1	02/04/26 21:01	02/02/26 13:19
1-Methylnaphthalene	EPA 8270E	<12.7	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<20.7	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
2,3,4,6-Tetrachlorophenol	EPA 8270E	<64.7	U	µg/kg	177	1	02/04/26 21:01	02/02/26 13:19
2,4,5-Trichlorophenol	EPA 8270E	<52.3	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
2,4,6-Trichlorophenol	EPA 8270E	<23.5	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
2,4-Dichlorophenol	EPA 8270E	<47.5	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
2,4-Dimethylphenol	EPA 8270E	<45.4	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
2,4-Dinitrophenol	EPA 8270E	<646	U	µg/kg	882	1	02/04/26 21:01	02/02/26 13:19
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<57.4	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<22.5	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
2-Chloronaphthalene	EPA 8270E	<12.3	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
2-Chlorophenol	EPA 8270E	<57.8	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<73.7	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
2-Methylnaphthalene	EPA 8270E	<8.98	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
2-Methylphenol (o-Cresol)	EPA 8270E	<23.9	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
2-Nitroaniline	EPA 8270E	<49.0	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
2-Nitrophenol	EPA 8270E	<25.2	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
3&4-Methylphenol	EPA 8270E	<48.1	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
3,3'-Dichlorobenzidine	EPA 8270E	<41.2	U	µg/kg	442	1	02/04/26 21:01	02/02/26 13:19
3-Nitroaniline	EPA 8270E	<51.3	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<48.4	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
4-Chloro-3-methylphenol	EPA 8270E	<25.2	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
4-Chloroaniline	EPA 8270E	<44.9	U	µg/kg	177	1	02/04/26 21:01	02/02/26 13:19
4-Chlorophenyl phenylether	EPA 8270E	<24.4	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
4-Nitroaniline	EPA 8270E	<137	U	µg/kg	442	1	02/04/26 21:01	02/02/26 13:19
4-Nitrophenol	EPA 8270E	<207	U	µg/kg	882	1	02/04/26 21:01	02/02/26 13:19
Acenaphthene	EPA 8270E	<12.8	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:48
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB03(5-6')_20260129

Lab ID: HN2601366-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<15.3	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
Acetophenone	EPA 8270E	<13.8	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Anthracene	EPA 8270E	<12.5	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
Atrazine	EPA 8270E	<51.7	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Benzaldehyde	EPA 8270E	<136	U	µg/kg	177	1	02/04/26 21:01	02/02/26 13:19
Benzo(a)anthracene	EPA 8270E	<15.3	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
Benzo(a)pyrene	EPA 8270E	<10.8	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
Benzo(b)fluoranthene	EPA 8270E	<13.2	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
Benzo(g,h,i)perylene	EPA 8270E	<13.5	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
Benzo(k)fluoranthene	EPA 8270E	<13.4	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
bis(2-Chloroethoxy) methane	EPA 8270E	<55.9	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
bis(2-Chloroethyl) ether	EPA 8270E	<25.0	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Butyl benzyl phthalate	EPA 8270E	<111	U	µg/kg	177	1	02/04/26 21:01	02/02/26 13:19
Caprolactam	EPA 8270E	<79.7	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Carbazole	EPA 8270E	<26.0	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Chrysene	EPA 8270E	<14.3	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<73.0	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Dibenz(a,h) anthracene	EPA 8270E	<9.54	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Dibenzofuran	EPA 8270E	<13.0	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Diethyl phthalate	EPA 8270E	<30.0	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Dimethyl phthalate	EPA 8270E	<17.2	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Fluoranthene	EPA 8270E	<8.48	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
Fluorene	EPA 8270E	<12.8	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
Hexachlorobenzene	EPA 8270E	<25.7	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Hexachlorobutadiene	EPA 8270E	<20.8	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Hexachlorocyclopentadiene	EPA 8270E	<83.7	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Hexachloroethane	EPA 8270E	<36.6	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Indeno(1,2,3-cd) pyrene	EPA 8270E	<12.3	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
Isophorone	EPA 8270E	<17.2	U	µg/kg	442	1	02/04/26 21:01	02/02/26 13:19
Methylphenol, Total	EPA 8270E	<23.9	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:48
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB03(5-6')_20260129

Lab ID: HN2601366-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<11.3	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
Nitrobenzene	EPA 8270E	<29.7	U	µg/kg	442	1	02/04/26 21:01	02/02/26 13:19
n-Nitrosodi-n-propylamine	EPA 8270E	<14.6	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
N-Nitrosodiphenylamine	EPA 8270E	<51.1	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Pentachlorophenol	EPA 8270E	<70.1	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Phenanthrene	EPA 8270E	<8.21	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
Phenol	EPA 8270E	<44.3	U	µg/kg	87.4	1	02/04/26 21:01	02/02/26 13:19
Pyrene	EPA 8270E	<8.81	U	µg/kg	17.7	1	02/04/26 21:01	02/02/26 13:19
Pyridine	EPA 8270E	<174	U	µg/kg	442	1	02/04/26 21:01	02/02/26 13:19
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	72.2		%REC	48-94	1	02/04/26 21:01	02/02/26 13:19
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	73.3		%REC	50-103	1	02/04/26 21:01	02/02/26 13:19
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	78.1		%REC	43-105	1	02/04/26 21:01	02/02/26 13:19
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	83.9		%REC	55-111	1	02/04/26 21:01	02/02/26 13:19
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	79.1		%REC	47-100	1	02/04/26 21:01	02/02/26 13:19
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	82.5		%REC	49-110	1	02/04/26 21:01	02/02/26 13:19

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<32.5	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
1,1,2,2-Tetrachloroethane	EPA 8260D	<31.7	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<45.4	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
1,1,2-Trichloroethane	EPA 8260D	<30.5	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
1,1-Dichloroethane	EPA 8260D	<26.2	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
1,1-Dichloroethylene	EPA 8260D	<23.2	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
1,2,3-Trichlorobenzene	EPA 8260D	<86.1	U	µg/kg	239	1	01/30/26 15:48	01/30/26 11:11
1,2,3-Trichloropropane	EPA 8260D	<30.0	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
1,2,4-Trichlorobenzene	EPA 8260D	<81.3	U	µg/kg	239	1	01/30/26 15:48	01/30/26 11:11
1,2,4-Trimethylbenzene	EPA 8260D	<52.6	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<66.0	U	µg/kg	239	1	01/30/26 15:48	01/30/26 11:11
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<42.2	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<27.2	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:48
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB03(5-6')_20260129

Lab ID: HN2601366-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<42.2	U	µg/kg	239	1	01/30/26 15:48	01/30/26 11:11
1,2-Dichloropropane	EPA 8260D	<52.9	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
1,3,5-Trimethylbenzene	EPA 8260D	<50.7	U	µg/kg	239	1	01/30/26 15:48	01/30/26 11:11
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<49.5	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
1,3-Dichloropropene	EPA 8260D	<40.0	U	µg/kg	143	1	01/30/26 15:48	01/30/26 11:11
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<58.3	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<171	U	µg/kg	478	1	01/30/26 15:48	01/30/26 11:11
2-Hexanone	EPA 8260D	<35.6	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<66.8	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Acetone	EPA 8260D	<213	U	µg/kg	239	1	01/30/26 15:48	01/30/26 11:11
Benzene	EPA 8260D	<34.7	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Bromochloromethane	EPA 8260D	<36.5	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Bromodichloromethane	EPA 8260D	<40.2	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Bromoform	EPA 8260D	<30.2	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Carbon disulfide	EPA 8260D	<37.1	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Carbon tetrachloride	EPA 8260D	<28.1	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Chlorobenzene	EPA 8260D	<23.8	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Chlorodibromomethane	EPA 8260D	<40.3	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Chloroethane (Ethyl chloride)	EPA 8260D	<201	U	µg/kg	239	1	01/30/26 15:48	01/30/26 11:11
Chloroform	EPA 8260D	<26.3	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
cis-1,2-Dichloroethylene	EPA 8260D	<46.1	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
cis-1,3-Dichloropropene	EPA 8260D	<54.0	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Cyclohexane	EPA 8260D	<54.9	U	µg/kg	239	1	01/30/26 15:48	01/30/26 11:11
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<86.8	U	µg/kg	239	1	01/30/26 15:48	01/30/26 11:11
Ethylbenzene	EPA 8260D	<50.9	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Isopropylbenzene	EPA 8260D	<45.3	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
m+p-Xylene	EPA 8260D	<95.6	U	µg/kg	143	1	01/30/26 15:48	01/30/26 11:11
Methyl acetate	EPA 8260D	<85.9	U	µg/kg	598	1	01/30/26 15:48	01/30/26 11:11
Methyl bromide (Bromomethane)	EPA 8260D	<137	U	µg/kg	239	1	01/30/26 15:48	01/30/26 11:11

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID

Work Order: HN2601366
Date Collected: 01/29/26 10:48
Date Received: 01/30/26 06:00

CLIENT ID: 8221 SB03(5-6')_20260129

Lab ID: HN2601366-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<196	U	µg/kg	239	1	01/30/26 15:48	01/30/26 11:11
Methyl tert-butyl ether (MTBE)	EPA 8260D	<52.3	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Methylcyclohexane	EPA 8260D	<27.4	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Methylene chloride (Dichloromethane)	EPA 8260D	<190	U	µg/kg	598	1	01/30/26 15:48	01/30/26 11:11
o-Xylene	EPA 8260D	<27.7	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Styrene	EPA 8260D	<28.4	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<43.2	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Toluene	EPA 8260D	<59.1	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Total Xylene	EPA 8260D	<27.7	U	µg/kg	215	1	01/30/26 15:48	01/30/26 11:11
trans-1,2-Dichloroethylene	EPA 8260D	<59.2	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
trans-1,3-Dichloropropylene	EPA 8260D	<40.0	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Trichloroethene (Trichloroethylene)	EPA 8260D	<32.2	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<36.7	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
Vinyl chloride (Chloroethene)	EPA 8260D	<47.7	U	µg/kg	71.7	1	01/30/26 15:48	01/30/26 11:11
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	113		%REC	80-120	1	01/30/26 15:48	01/30/26 11:11
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	92.8		%REC	80-120	1	01/30/26 15:48	01/30/26 11:11
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	107		%REC	72-120	1	01/30/26 15:48	01/30/26 11:11
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	98.4		%REC	80-120	1	01/30/26 15:48	01/30/26 11:11



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2437714

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3855556

Chlorinated Herbicides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2437714-001
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 02/03/26 16:24
Prep Date: 02/02/26 09:02

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	<0.920	µg/kg	5.00							U
2,4,5-TP (Silvex)	<1.64	µg/kg	5.00							U
2,4-D	<2.67	µg/kg	10.0							U
Surr: DCAA	28.0	µg/kg		50		56.0	10-116			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2437714-002
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 02/03/26 16:37
Prep Date: 02/02/26 09:02

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	28.0	µg/kg	5.00	50		56.0	10-119			
2,4,5-TP (Silvex)	28.0	µg/kg	5.00	50		56.0	10-101			
2,4-D	28.0	µg/kg	10.0	50		56.0	10-128			
Surr: DCAA	35.0	µg/kg		50		70.0	10-116			

MS	CLIENT ID: Batch QC	Lab ID: QC-2437714-005
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 02/03/26 16:50
Prep Date: 02/02/26 09:02

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	31.9	µg/kg	5.46	49.88	<0.918	64.0	10-119			
2,4,5-TP (Silvex)	30.9	µg/kg	5.46	49.88	<1.64	62.0	10-101			
2,4-D	33.9	µg/kg	10.9	49.88	<2.66	68.0	10-128			
Surr: DCAA	38.9	µg/kg		49.88		78.0	10-116			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2437714-006
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 02/03/26 17:03
Prep Date: 02/02/26 09:02

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	24.9	µg/kg	5.45	49.816	<0.920	50.0	10-119	24.7	30	
2,4,5-TP (Silvex)	22.9	µg/kg	5.45	49.816	<1.64	46.0	10-101	29.8	30	
2,4-D	31.9	µg/kg	10.9	49.816	<2.67	64.0	10-128	6.19	30	
Surr: DCAA	33.9	µg/kg		49.816		68.0	10-116	13.8	30	

The following samples were analyzed in this batch: HN2601366-001, HN2601366-002, HN2601366-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2435630

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3852814

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2435630-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/31/26 01:24
Prep Date: 01/30/26 11:58

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	<3.10	mg/kg	10.0							U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2435630-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/31/26 01:32
Prep Date: 01/30/26 11:58

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	93.2	mg/kg	10.0	99.404		93.8	87-110			

MS	CLIENT ID: Batch QC	Lab ID: QC-2435630-004
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/31/26 01:48
Prep Date: 01/30/26 11:58

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	96.0	mg/kg	11.2	100	5.8	90.8	87-110			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2435630-005
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/31/26 01:56
Prep Date: 01/30/26 11:58

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	95.7	mg/kg	11.2	100	5.8	90.5	87-110	0.313	15	

The following samples were analyzed in this batch: HN2601366-001, HN2601366-002, HN2601366-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2435646

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3851284

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2435646-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/30/26 11:53
Prep Date: NA

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2435646-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/30/26 11:53
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	98-102			

DUP	CLIENT ID: Batch QC	Lab ID: QC-2435646-004
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/30/26 11:53
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	9.3	%	0.1		8.6			7.80	10	

DUP	CLIENT ID: 8221 SB03(5-6')_20260129	Lab ID: QC-2435646-015
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/30/26 11:53
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	17.2	%	0.1		17.2			0.407	10	

The following samples were analyzed in this batch: HN2601366-001, HN2601366-002, HN2601366-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2437772

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3856723

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2437772-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 02/03/26 09:58
Prep Date: 02/02/26 14:09

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	<0.0136	mg/kg	0.0200							U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2437772-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 02/03/26 09:59
Prep Date: 02/02/26 14:09

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.176	mg/kg	0.0200	0.1665		106	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2437772-004
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 02/03/26 10:03
Prep Date: 02/02/26 14:09

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.180	mg/kg	0.0200	0.1394	0.0165	118	75-125			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2437772-005
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 02/03/26 10:05
Prep Date: 02/02/26 14:09

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.154	mg/kg	0.0200	0.13991	0.0165	99.3	75-125	15.5	35	

The following samples were analyzed in this batch: HN2601366-001, HN2601366-002, HN2601366-003



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2438882

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3857383

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2438882-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 02/03/26 15:15
Prep Date: 02/03/26 08:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	<0.0300	mg/kg	0.250							U
Barium	<0.230	mg/kg	0.250							U
Cadmium	<0.0150	mg/kg	0.100							U
Chromium	<0.110	mg/kg	0.250							U
Copper	<0.250	mg/kg	0.250							U
Lead	<0.120	mg/kg	0.250							U
Selenium	<0.230	mg/kg	0.250							U
Silver	<0.0330	mg/kg	0.250							U
Zinc	<0.490	mg/kg	0.500							U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2438882-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 02/03/26 15:17
Prep Date: 02/03/26 08:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.84	mg/kg	0.250	5		96.8	80-120			
Barium	5.67	mg/kg	0.250	5		113	80-120			
Cadmium	5.45	mg/kg	0.100	5		109	80-120			
Chromium	4.97	mg/kg	0.250	5		99.5	80-120			
Copper	5.07	mg/kg	0.250	5		101	80-120			
Lead	5.69	mg/kg	0.250	5		114	80-120			
Selenium	5.46	mg/kg	0.250	5		109	80-120			
Silver	5.23	mg/kg	0.250	5		105	80-120			
Zinc	4.81	mg/kg	0.500	5		96.1	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2438882-004
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 02/03/26 15:20
Prep Date: 02/03/26 08:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	7.79	mg/kg	0.340	5.8275	2.32	99.6	75-125			
Barium	42.3	mg/kg	0.340	5	37.9	NC	75-125			O
Cadmium	5.33	mg/kg	0.136	5.8275	<0.0175	91.8	75-125			
Chromium	22.0	mg/kg	0.340	5.8275	17.6	119	75-125			
Copper	10.4	mg/kg	0.340	5.8275	4.80	107	75-125			
Lead	16.0	mg/kg	0.340	5.8275	10.2	124	75-125			
Selenium	4.53	mg/kg	0.340	5.8275	<0.268	74.8	75-125			S
Silver	5.44	mg/kg	0.340	5.8275	<0.0385	93.2	75-125			
Zinc	17.6	mg/kg	0.681	5.8275	9.97	156	75-125			S

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2438882

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3857383

MSD	CLIENT ID: Batch QC	Lab ID: QC-2438882-005
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 02/03/26 15:25
Prep Date: 02/03/26 08:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	7.31	mg/kg	0.334	5.7143	2.32	93.1	75-125	6.46	20	
Barium	42.8	mg/kg	0.334	5	37.9	NC	75-125	1.10	20	O
Cadmium	5.18	mg/kg	0.134	5.7143	<0.0171	91.0	75-125	2.85	20	
Chromium	18.2	mg/kg	0.334	5.7143	17.6	55.1	75-125	18.8	20	S
Copper	10.1	mg/kg	0.334	5.7143	4.80	105	75-125	2.42	20	
Lead	13.6	mg/kg	0.334	5.7143	10.2	83.9	75-125	16.4	20	
Selenium	4.77	mg/kg	0.334	5.7143	<0.263	80.4	75-125	4.99	20	
Silver	5.29	mg/kg	0.334	5.7143	<0.0377	92.5	75-125	2.69	20	
Zinc	17.1	mg/kg	0.668	5.7143	9.97	149	75-125	3.18	20	S

PDS	CLIENT ID: Batch QC	Lab ID: QC-2438882-007
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 02/03/26 15:28
Prep Date: 02/03/26 08:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	7.74	mg/kg	0.344	5.8893	2.32	97.7	75-125			
Barium	38.7	mg/kg	0.344	5	37.9	NC	75-125			O
Cadmium	5.56	mg/kg	0.138	5.8893	<0.0177	94.7	75-125			
Chromium	20.8	mg/kg	0.344	5.8893	17.6	98.0	75-125			
Copper	9.80	mg/kg	0.344	5.8893	4.80	96.6	75-125			
Lead	14.9	mg/kg	0.344	5.8893	10.2	104	75-125			
Selenium	5.68	mg/kg	0.344	5.8893	<0.271	93.5	75-125			
Silver	4.64	mg/kg	0.344	5.8893	<0.0389	78.7	75-125			
Zinc	13.9	mg/kg	0.688	5.8893	9.97	91.7	75-125			

The following samples were analyzed in this batch: HN2601366-001, HN2601366-002, HN2601366-003



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2436094

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3854311

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2436094-001
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 01/31/26 16:23**Prep Date:** 01/30/26 13:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	<6.39	µg/kg	10.0							U
4,4'-DDE	<6.59	µg/kg	10.0							U
4,4'-DDT	<6.65	µg/kg	10.0							U
Aldrin	<6.50	µg/kg	10.0							U
alpha-BHC	<6.58	µg/kg	10.0							U
beta-BHC	<6.57	µg/kg	10.0							U
Chlordane, Technical	<9.92	µg/kg	25.0							U
cis-Chlordane	<6.68	µg/kg	10.0							U
delta-BHC	<6.55	µg/kg	10.0							U
Dieldrin	<6.99	µg/kg	10.0							U
Endosulfan I	<6.72	µg/kg	10.0							U
Endosulfan II	<6.62	µg/kg	10.0							U
Endosulfan sulfate	<6.15	µg/kg	10.0							U
Endrin	<8.09	µg/kg	10.0							U
Endrin aldehyde	<6.34	µg/kg	10.0							U
Endrin ketone	<6.08	µg/kg	10.0							U
gamma-BHC (Lindane)	<6.56	µg/kg	10.0							U
Heptachlor	<6.45	µg/kg	10.0							U
Heptachlor epoxide	<6.62	µg/kg	10.0							U
Methoxychlor	<6.69	µg/kg	10.0							U
Toxaphene	<10.8	µg/kg	60.0							U
trans-Chlordane	<6.64	µg/kg	10.0							U
Surr: Decachlorobiphenyl	40.8	µg/kg		33.33		122	53-151			
Surr: Tetrachloro-m-xylene	33.2	µg/kg		33.33		99.5	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2436094-002
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 01/31/26 16:35**Prep Date:** 01/30/26 13:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	335	µg/kg	10.0	333.3		100	55-141			E
4,4'-DDE	420	µg/kg	10.0	333.3		126	55-143			E
4,4'-DDT	343	µg/kg	10.0	333.3		103	50-144			E
Aldrin	414	µg/kg	10.0	333.3		124	57-141			E
alpha-BHC	406	µg/kg	10.0	333.3		122	58-144			E
beta-BHC	388	µg/kg	10.0	333.3		116	55-147			E
cis-Chlordane	419	µg/kg	10.0	333.3		126	58-142			E
delta-BHC	405	µg/kg	10.0	333.3		122	59-142			E
Dieldrin	428	µg/kg	10.0	333.3		128	59-142			E
Endosulfan I	412	µg/kg	10.0	333.3		124	57-145			E
Endosulfan II	428	µg/kg	10.0	333.3		129	58-138			E
Endosulfan sulfate	350	µg/kg	10.0	333.3		105	54-136			E
Endrin	362	µg/kg	10.0	333.3		109	45-150			E

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2436094

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3854311

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2436094-002
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/31/26 16:35

Prep Date: 01/30/26 13:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Endrin aldehyde	354	µg/kg	10.0	333.3		106	41-147			E
Endrin ketone	332	µg/kg	10.0	333.3		99.6	54-146			E
gamma-BHC (Lindane)	407	µg/kg	10.0	333.3		122	58-145			E
Heptachlor	418	µg/kg	10.0	333.3		125	51-145			E
Heptachlor epoxide	418	µg/kg	10.0	333.3		125	59-143			E
Methoxychlor	361	µg/kg	10.0	333.3		108	43-144			E
trans-Chlordane	424	µg/kg	10.0	333.3		127	56-145			E
Surr: Decachlorobiphenyl	43.7	µg/kg		33.33		131	51-151			
Surr: Tetrachloro-m-xylene	33.7	µg/kg		33.33		101	67-127			

MS	CLIENT ID: Batch QC	Lab ID: QC-2436094-005
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/31/26 20:04

Prep Date: 01/30/26 13:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	765	µg/kg	26.3	801.2	<15.4	95.5	55-141			E
4,4'-DDE	1020	µg/kg	26.3	801.2	<15.8	127	55-143			E
4,4'-DDT	804	µg/kg	26.3	801.2	<16.0	100	50-144			E
Aldrin	992	µg/kg	26.3	801.2	<15.6	124	57-141			E
alpha-BHC	978	µg/kg	26.3	801.2	<15.8	122	58-144			E
beta-BHC	906	µg/kg	26.3	801.2	<15.8	113	55-147			E
cis-Chlordane	985	µg/kg	26.3	801.2	<16.1	123	58-142			E
delta-BHC	949	µg/kg	26.3	801.2	<15.7	118	59-142			E
Dieldrin	991	µg/kg	26.3	801.2	<16.8	124	59-142			E
Endosulfan I	954	µg/kg	26.3	801.2	<16.2	119	57-145			E
Endosulfan II	957	µg/kg	26.3	801.2	<15.9	119	58-138			E
Endosulfan sulfate	784	µg/kg	26.3	801.2	<14.8	97.9	54-135			E
Endrin	855	µg/kg	26.3	801.2	<19.4	107	45-150			E
Endrin aldehyde	832	µg/kg	26.3	801.2	<15.2	104	41-147			E
Endrin ketone	746	µg/kg	26.3	801.2	<14.6	93.1	54-146			E
gamma-BHC (Lindane)	962	µg/kg	26.3	801.2	<15.8	120	58-145			E
Heptachlor	965	µg/kg	26.3	801.2	<15.5	120	51-145			E
Heptachlor epoxide	977	µg/kg	26.3	801.2	<15.9	122	59-143			E
Methoxychlor	836	µg/kg	26.3	801.2	<16.1	104	43-144			E
trans-Chlordane	981	µg/kg	26.3	801.2	<16.0	122	56-145			E
Surr: Decachlorobiphenyl	101	µg/kg		80.12		126	53-151			
Surr: Tetrachloro-m-xylene	84.8	µg/kg		80.12		106	67-127			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2436094-006
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/31/26 20:15

Prep Date: 01/30/26 13:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	802	µg/kg	26.3	801.2	<15.4	100	55-141	4.79	20	E



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2436094

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3854311

MSD	CLIENT ID: Batch QC	Lab ID: QC-2436094-006
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/31/26 20:15

Prep Date: 01/30/26 13:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDE	1100	µg/kg	26.3	801.2	<15.8	137	55-143	7.60	20	E
4,4'-DDT	807	µg/kg	26.3	801.2	<16.0	101	50-144	0.348	20	E
Aldrin	1070	µg/kg	26.3	801.2	<15.6	133	57-141	7.37	20	E
alpha-BHC	1050	µg/kg	26.3	801.2	<15.8	131	58-144	7.14	20	E
beta-BHC	975	µg/kg	26.3	801.2	<15.8	122	55-147	7.34	20	E
cis-Chlordane	1060	µg/kg	26.3	801.2	<16.1	132	58-142	6.96	20	E
delta-BHC	1030	µg/kg	26.3	801.2	<15.7	128	59-142	7.78	20	E
Dieldrin	1060	µg/kg	26.3	801.2	<16.8	132	59-142	6.70	20	E
Endosulfan I	1020	µg/kg	26.3	801.2	<16.2	127	57-145	6.85	20	E
Endosulfan II	1030	µg/kg	26.3	801.2	<15.9	128	58-138	7.25	20	E
Endosulfan sulfate	841	µg/kg	26.3	801.2	<14.8	105	54-135	6.96	20	E
Endrin	856	µg/kg	26.3	801.2	<19.4	107	45-150	0.0843	20	E
Endrin aldehyde	926	µg/kg	26.3	801.2	<15.2	116	41-147	10.6	20	E
Endrin ketone	790	µg/kg	26.3	801.2	<14.6	98.6	54-146	5.77	20	E
gamma-BHC (Lindane)	1030	µg/kg	26.3	801.2	<15.8	128	58-145	6.76	20	E
Heptachlor	1020	µg/kg	26.3	801.2	<15.5	127	51-145	5.09	20	E
Heptachlor epoxide	1050	µg/kg	26.3	801.2	<15.9	131	59-143	6.87	20	E
Methoxychlor	840	µg/kg	26.3	801.2	<16.1	105	43-144	0.440	20	E
trans-Chlordane	1050	µg/kg	26.3	801.2	<16.0	131	56-145	6.64	20	E
Surr: Decachlorobiphenyl	105	µg/kg		80.12		131	53-151	3.93	30	
Surr: Tetrachloro-m-xylene	91.3	µg/kg		80.12		114	67-127	7.46	30	

The following samples were analyzed in this batch: HN2601366-001, HN2601366-002, HN2601366-003



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2436092

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3855151

Polychlorinated Biphenyls (PCBs) by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2436092-001
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/31/26 16:11

Prep Date: 01/30/26 13:55

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	<22.9	µg/kg	66.7							U
Aroclor 1221	<22.9	µg/kg	66.7							U
Aroclor 1232	<22.9	µg/kg	66.7							U
Aroclor 1242	<22.9	µg/kg	66.7							U
Aroclor 1248	<22.9	µg/kg	66.7							U
Aroclor 1254	<18.6	µg/kg	66.7							U
Aroclor 1260	<18.6	µg/kg	66.7							U
Aroclor 1262	<18.6	µg/kg	66.7							U
Aroclor 1268	<18.6	µg/kg	66.7							U
Total PCB	<18.6	µg/kg	66.7							U
Surr: Decachlorobiphenyl	37.4	µg/kg		33.3		112	54-146			
Surr: Tetrachloro-m-xylene	30.9	µg/kg		33.3		92.8	58-140			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2436092-002
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/31/26 16:23

Prep Date: 01/30/26 13:55

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	804	µg/kg	66.7	833		96.6	71-135			
Aroclor 1260	738	µg/kg	66.7	833		88.6	67-135			
Surr: Decachlorobiphenyl	39.2	µg/kg		33.3		118	54-146			
Surr: Tetrachloro-m-xylene	30.6	µg/kg		33.3		91.9	58-140			

MS	CLIENT ID: Batch QC	Lab ID: QC-2436092-005
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/31/26 16:35

Prep Date: 01/30/26 13:55

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	1950	µg/kg	176	2012.1	<55.2	97.0	71-135			
Aroclor 1260	1750	µg/kg	176	2012.1	<45.0	86.9	67-135			
Surr: Decachlorobiphenyl	91.3	µg/kg		80.435		113	54-146			
Surr: Tetrachloro-m-xylene	72.4	µg/kg		80.435		90.0	58-140			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2436092-006
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/31/26 16:47

Prep Date: 01/30/26 13:55

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	2000	µg/kg	176	2012.1	<55.2	99.3	71-135	2.38	20	
Aroclor 1260	1780	µg/kg	176	2012.1	<45.0	88.2	67-135	1.53	20	
Surr: Decachlorobiphenyl	88.9	µg/kg		80.435		111	54-146	2.64	30	
Surr: Tetrachloro-m-xylene	70.9	µg/kg		80.435		88.2	58-140	2.08	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2436092

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3855151

The following samples were analyzed in this batch: HN2601366-001, HN2601366-002, HN2601366-003



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2437710

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3862290

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2437710-001
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 02/04/26 18:18**Prep Date:** 02/02/26 13:20

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2437710

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3862290

MB	CLIENT ID: Method Blank	Lab ID: QC-2437710-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 02/04/26 18:18

Prep Date: 02/02/26 13:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Butyl benzyl phthalate	<41.7	µg/kg	67.0							U
Caprolactam	<30.1	µg/kg	33.0							U
Carbazole	<9.82	µg/kg	33.0							U
Chrysene	<5.39	µg/kg	6.67							U
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	<27.6	µg/kg	33.0							U
Dibenz(a,h) anthracene	<3.60	µg/kg	33.0							U
Dibenzofuran	<4.90	µg/kg	33.0							U
Diethyl phthalate	<11.3	µg/kg	33.0							U
Dimethyl phthalate	<6.50	µg/kg	33.0							U
Fluoranthene	<3.20	µg/kg	6.67							U
Fluorene	<4.84	µg/kg	6.67							U
Hexachlorobenzene	<9.70	µg/kg	33.0							U
Hexachlorobutadiene	<7.85	µg/kg	33.0							U
Hexachlorocyclopentadiene	<31.6	µg/kg	33.0							U
Hexachloroethane	<13.8	µg/kg	33.0							U
Indeno(1,2,3-cd) pyrene	<4.64	µg/kg	6.67							U
Isophorone	<6.51	µg/kg	167							U
Methylphenol, Total	<9.01	µg/kg	67.0							U
Naphthalene	<4.26	µg/kg	6.67							U
Nitrobenzene	<11.2	µg/kg	167							U
n-Nitrosodi-n-propylamine	<5.50	µg/kg	33.0							U
N-Nitrosodiphenylamine	<19.3	µg/kg	33.0							U
Pentachlorophenol	<26.5	µg/kg	33.0							U
Phenanthrene	<3.10	µg/kg	6.67							U
Phenol	<16.7	µg/kg	33.0							U
Pyrene	<3.33	µg/kg	6.67							U
Pyridine	<65.6	µg/kg	167							U
Surr: 2,4,6-Tribromophenol	2220	µg/kg		3333		66.6	48-94			
Surr: 2-Fluorobiphenyl	2450	µg/kg		3333		73.5	50-103			
Surr: 2-Fluorophenol	2450	µg/kg		3333		73.5	43-105			
Surr: 4-Terphenyl-d14	3070	µg/kg		3333		92.2	55-111			
Surr: Nitrobenzene-d5	2620	µg/kg		3333		78.7	47-100			
Surr: Phenol-d6	2660	µg/kg		3333		79.9	49-110			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2437710-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 02/04/26 18:45

Prep Date: 02/02/26 13:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1070	µg/kg	33.0	1333		80.3	57-101			
1,2,4,5-Tetrachlorobenzene	1040	µg/kg	33.0	1333		78.4	54-98			
1-Methylnaphthalene	1060	µg/kg	6.67	1333		79.4	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	966	µg/kg	33.0	1333		72.5	50-101			
2,3,4,6-Tetrachlorophenol	978	µg/kg	67.0	1333		73.4	48-103			



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2437710

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3862290

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2437710-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 02/04/26 18:45

Prep Date: 02/02/26 13:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	909	µg/kg	33.0	1333		68.2	54-98			
2,4,6-Trichlorophenol	929	µg/kg	33.0	1333		69.7	56-97			
2,4-Dichlorophenol	1010	µg/kg	33.0	1333		75.5	54-99			
2,4-Dimethylphenol	807	µg/kg	33.0	1333		60.5	47-102			
2,4-Dinitrophenol	621	µg/kg	333	1333		46.6	10-100			
2,4-Dinitrotoluene (2,4-DNT)	967	µg/kg	33.0	1333		72.6	62-105			
2,6-Dinitrotoluene (2,6-DNT)	991	µg/kg	33.0	1333		74.4	62-103			
2-Chloronaphthalene	1120	µg/kg	6.67	1333		83.7	57-101			
2-Chlorophenol	972	µg/kg	33.0	1333		72.9	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	785	µg/kg	33.0	1333		58.9	42-104			
2-Methylnaphthalene	1040	µg/kg	6.67	1333		78.1	55-102			
2-Methylphenol (o-Cresol)	964	µg/kg	33.0	1333		72.3	54-103			
2-Nitroaniline	775	µg/kg	33.0	1333		58.2	57-103			
2-Nitrophenol	1040	µg/kg	33.0	1333		78.2	52-102			
3&4-Methylphenol	977	µg/kg	33.0	1333		73.3	56-103			
3,3'-Dichlorobenzidine	555	µg/kg	167	1333		41.7	41-91			
3-Nitroaniline	670	µg/kg	33.0	1333		50.3	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1040	µg/kg	33.0	1333		77.9	63-104			
4-Chloro-3-methylphenol	1030	µg/kg	33.0	1333		77.0	57-103			
4-Chloroaniline	1010	µg/kg	67.0	1333		75.8	32-99			
4-Chlorophenyl phenylether	960	µg/kg	33.0	1333		72.0	62-100			
4-Nitroaniline	469	µg/kg	167	1333		35.2	19-124			
4-Nitrophenol	826	µg/kg	333	1333		62.0	44-106			
Acenaphthene	980	µg/kg	6.67	1333		73.5	60-101			
Acenaphthylene	967	µg/kg	6.67	1333		72.5	59-101			
Acetophenone	992	µg/kg	33.0	1333		74.4	54-102			
Anthracene	1010	µg/kg	6.67	1333		75.5	63-96			
Atrazine	1240	µg/kg	33.0	1333		93.0	60-110			
Benzaldehyde	239	µg/kg	67.0	1333		18.0	10-143			
Benzo(a)anthracene	1070	µg/kg	6.67	1333		80.2	66-102			
Benzo(a)pyrene	1060	µg/kg	6.67	1333		79.3	66-105			
Benzo(b)fluoranthene	957	µg/kg	6.67	1333		71.8	67-105			
Benzo(g,h,i)perylene	1070	µg/kg	6.67	1333		80.3	59-110			
Benzo(k)fluoranthene	1020	µg/kg	6.67	1333		76.5	68-106			
bis(2-Chloroethoxy)methane	966	µg/kg	33.0	1333		72.5	54-102			
bis(2-Chloroethyl) ether	1050	µg/kg	33.0	1333		78.6	51-101			
Butyl benzyl phthalate	995	µg/kg	67.0	1333		74.7	59-107			
Caprolactam	881	µg/kg	33.0	1333		66.1	49-103			
Carbazole	991	µg/kg	33.0	1333		74.4	63-103			
Chrysene	1110	µg/kg	6.67	1333		83.1	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1030	µg/kg	33.0	1333		77.0	63-101			
Dibenz(a,h) anthracene	1000	µg/kg	33.0	1333		75.1	61-109			
Dibenzofuran	971	µg/kg	33.0	1333		72.8	61-101			
Diethyl phthalate	991	µg/kg	33.0	1333		74.3	63-105			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2437710

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3862290

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2437710-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 02/04/26 18:45

Prep Date: 02/02/26 13:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Dimethyl phthalate	993	µg/kg	33.0	1333		74.5	64-104			
Fluoranthene	1000	µg/kg	6.67	1333		75.1	66-105			
Fluorene	955	µg/kg	6.67	1333		71.7	62-101			
Hexachlorobenzene	1040	µg/kg	33.0	1333		78.0	61-104			
Hexachlorobutadiene	1070	µg/kg	33.0	1333		80.0	52-99			
Hexachlorocyclopentadiene	921	µg/kg	33.0	1333		69.1	39-106			
Hexachloroethane	958	µg/kg	33.0	1333		71.9	59-99			
Indeno(1,2,3-cd) pyrene	1050	µg/kg	6.67	1333		78.5	57-114			
Isophorone	1050	µg/kg	167	1333		78.7	55-101			
Methylphenol, Total	1940	µg/kg	67.0	2667		72.8	54-103			
Naphthalene	1040	µg/kg	6.67	1333		77.8	54-99			
Nitrobenzene	1060	µg/kg	167	1333		79.3	53-100			
n-Nitrosodi-n-propylamine	967	µg/kg	33.0	1333		72.5	52-104			
N-Nitrosodiphenylamine	1020	µg/kg	33.0	1333		76.4	61-104			
Pentachlorophenol	859	µg/kg	33.0	1333		64.4	35-100			
Phenanthrene	1020	µg/kg	6.67	1333		76.4	64-101			
Phenol	975	µg/kg	33.0	1333		73.1	51-107			
Pyrene	1090	µg/kg	6.67	1333		81.5	62-114			
Pyridine	775	µg/kg	167	1333		58.1	40-84			
Surr: 2,4,6-Tribromophenol	2480	µg/kg		3333		74.3	48-94			
Surr: 2-Fluorobiphenyl	2450	µg/kg		3333		73.6	50-103			
Surr: 2-Fluorophenol	2480	µg/kg		3333		74.3	43-105			
Surr: 4-Terphenyl-d14	2760	µg/kg		3333		82.7	55-111			
Surr: Nitrobenzene-d5	2710	µg/kg		3333		81.4	47-100			
Surr: Phenol-d6	2580	µg/kg		3333		77.5	49-110			

MS	CLIENT ID: 8221 SB01(1-2')_20260129	Lab ID: QC-2437710-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 02/04/26 19:12

Prep Date: 02/02/26 13:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1840	µg/kg	60.4	2241.6	<9.10	82.2	57-101			
1,2,4,5-Tetrachlorobenzene	1810	µg/kg	609	2241.6	<12.9	80.6	54-98			
1-Methylnaphthalene	1810	µg/kg	12.2	2241.6	<8.07	80.9	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	1600	µg/kg	60.4	2241.6	<13.1	71.3	50-101			
2,3,4,6-Tetrachlorophenol	1760	µg/kg	122	2241.6	<41.0	78.6	48-103			
2,4,5-Trichlorophenol	1660	µg/kg	60.4	2241.6	<33.2	74.2	54-98			
2,4,6-Trichlorophenol	1620	µg/kg	60.4	2241.6	<14.9	72.4	56-97			
2,4-Dichlorophenol	1780	µg/kg	60.4	2241.6	<30.2	79.6	54-99			
2,4-Dimethylphenol	1560	µg/kg	60.4	2241.6	<28.8	69.8	47-102			
2,4-Dinitrophenol	<410	µg/kg	609	2241.6	<410	24.0	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1650	µg/kg	60.4	2241.6	<36.4	73.8	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1710	µg/kg	60.4	2241.6	<14.3	76.2	62-103			
2-Chloronaphthalene	1910	µg/kg	12.2	2241.6	<7.84	85.1	57-101			

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QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2437710

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3862290

MS	CLIENT ID: 8221 SB01(1-2')_20260129	Lab ID: QC-2437710-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 02/04/26 19:12

Prep Date: 02/02/26 13:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2-Chlorophenol	1640	µg/kg	60.4	2241.6	<36.7	73.0	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	1280	µg/kg	60.4	2241.6	<46.8	56.9	42-104			
2-Methylnaphthalene	1780	µg/kg	12.2	2241.6	<5.70	79.4	55-102			
2-Methylphenol (o-Cresol)	1650	µg/kg	60.4	2241.6	<15.2	73.6	54-103			
2-Nitroaniline	1350	µg/kg	60.4	2241.6	<31.1	60.1	57-103			
2-Nitrophenol	1800	µg/kg	60.4	2241.6	<16.0	80.2	52-102			
3&4-Methylphenol	1660	µg/kg	60.4	2241.6	<30.6	74.0	56-103			
3,3'-Dichlorobenzidine	1060	µg/kg	305	2241.6	<26.2	47.2	41-91			
3-Nitroaniline	1250	µg/kg	60.4	2241.6	<32.5	55.8	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1750	µg/kg	60.4	2241.6	<30.7	78.2	63-104			
4-Chloro-3-methylphenol	1820	µg/kg	60.4	2241.6	<16.0	81.3	57-103			
4-Chloroaniline	1760	µg/kg	122	2241.6	<28.5	78.5	32-99			
4-Chlorophenyl phenylether	1670	µg/kg	60.4	2241.6	<15.5	74.3	62-100			
4-Nitroaniline	861	µg/kg	305	2241.6	<86.9	38.4	19-124			
4-Nitrophenol	1460	µg/kg	609	2241.6	<131	65.3	44-106			
Acenaphthene	1660	µg/kg	12.2	2241.6	<8.11	74.2	60-101			
Acenaphthylene	1660	µg/kg	12.2	2241.6	<9.72	73.9	59-101			
Acetophenone	1650	µg/kg	60.4	2241.6	<8.78	73.8	54-102			
Anthracene	1700	µg/kg	12.2	2241.6	<7.90	75.8	63-96			
Atrazine	2240	µg/kg	60.4	2241.6	<32.8	99.9	60-110			
Benzaldehyde	416	µg/kg	122	2241.6	<86.1	18.6	10-143			
Benzo(a)anthracene	1850	µg/kg	12.2	2241.6	<9.69	82.3	66-102			
Benzo(a)pyrene	1850	µg/kg	12.2	2241.6	<6.88	82.7	66-105			
Benzo(b)fluoranthene	1650	µg/kg	12.2	2241.6	<8.36	73.8	67-105			
Benzo(g,h,i)perylene	1870	µg/kg	12.2	2241.6	<8.59	83.3	59-110			
Benzo(k)fluoranthene	1770	µg/kg	12.2	2241.6	<8.49	78.9	68-106			
bis(2-Chloroethoxy)methane	1600	µg/kg	60.4	2241.6	<35.5	71.3	54-102			
bis(2-Chloroethyl) ether	1750	µg/kg	60.4	2241.6	<15.9	77.9	51-101			
Butyl benzyl phthalate	1820	µg/kg	122	2241.6	<70.2	81.4	59-107			
Caprolactam	1560	µg/kg	60.4	2241.6	<50.6	68.0	49-103			
Carbazole	1700	µg/kg	60.4	2241.6	<16.5	75.9	63-103			
Chrysene	1890	µg/kg	12.2	2241.6	<9.57	84.5	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1830	µg/kg	60.4	2241.6	66.9	78.8	63-101			
Dibenz(a,h) anthracene	1760	µg/kg	60.4	2241.6	<6.05	78.6	61-109			
Dibenzofuran	1670	µg/kg	60.4	2241.6	<8.24	74.6	61-101			
Diethyl phthalate	1710	µg/kg	60.4	2241.6	<19.1	76.4	63-105			
Dimethyl phthalate	1710	µg/kg	60.4	2241.6	<10.9	76.2	64-104			
Fluoranthene	1760	µg/kg	12.2	2241.6	9.74	78.0	66-105			
Fluorene	1640	µg/kg	12.2	2241.6	<8.14	73.1	62-101			
Hexachlorobenzene	1760	µg/kg	60.4	2241.6	<16.3	78.6	61-104			
Hexachlorobutadiene	1800	µg/kg	60.4	2241.6	<13.2	80.5	52-99			
Hexachlorocyclopentadiene	1520	µg/kg	60.4	2241.6	<54.8	67.7	39-106			
Hexachloroethane	1600	µg/kg	60.4	2241.6	<23.2	71.2	59-99			
Indeno(1,2,3-cd) pyrene	1840	µg/kg	12.2	2241.6	<7.80	82.0	57-114			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2437710

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3862290

MS	CLIENT ID: 8221 SB01(1-2')_20260129	Lab ID: QC-2437710-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 02/04/26 19:12

Prep Date: 02/02/26 13:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Isophorone	1800	µg/kg	305	2241.6	<10.9	80.5	55-101			
Methylphenol, Total	3310	µg/kg	60.4	4484.9	<15.2	73.8	54-103			
Naphthalene	1750	µg/kg	12.2	2241.6	<7.16	78.2	54-99			
Nitrobenzene	1770	µg/kg	305	2241.6	<18.8	79.1	53-100			
n-Nitrosodi-n-propylamine	1620	µg/kg	60.4	2241.6	<9.25	72.1	52-104			
N-Nitrosodiphenylamine	1750	µg/kg	60.4	2241.6	<32.5	78.0	61-104			
Pentachlorophenol	1490	µg/kg	60.4	2241.6	<44.5	66.7	35-100			
Phenanthrene	1730	µg/kg	12.2	2241.6	<5.21	77.0	64-101			
Phenol	1620	µg/kg	60.4	2241.6	<28.2	72.4	51-107			
Pyrene	1860	µg/kg	12.2	2241.6	9.74	82.4	52-114			
Pyridine	1530	µg/kg	305	2241.6	<110	68.3	40-84			
Surr: 2,4,6-Tribromophenol	4290	µg/kg		5604.8		76.6	48-94			
Surr: 2-Fluorobiphenyl	4170	µg/kg		5604.8		74.3	50-103			
Surr: 2-Fluorophenol	4120	µg/kg		5604.8		73.5	43-105			
Surr: 4-Terphenyl-d14	4610	µg/kg		5604.8		82.2	55-111			
Surr: Nitrobenzene-d5	4560	µg/kg		5604.8		81.4	47-100			
Surr: Phenol-d6	4290	µg/kg		5604.8		76.6	49-110			

MSD	CLIENT ID: 8221 SB01(1-2')_20260129	Lab ID: QC-2437710-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 02/04/26 19:39

Prep Date: 02/02/26 13:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1950	µg/kg	60.4	2241.1	<9.10	87.0	57-101	5.71	30	
1,2,4,5-Tetrachlorobenzene	1880	µg/kg	609	2241.1	<12.9	83.7	54-98	3.75	30	
1-Methylnaphthalene	1900	µg/kg	12.2	2241.1	<8.07	84.7	56-100	4.57	30	
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	1680	µg/kg	60.4	2241.1	<13.1	75.0	50-101	5.04	30	
2,3,4,6-Tetrachlorophenol	2010	µg/kg	122	2241.1	<41.0	89.7	48-103	13.2	30	
2,4,5-Trichlorophenol	1730	µg/kg	60.4	2241.1	<33.2	77.2	54-98	4.01	30	
2,4,6-Trichlorophenol	1670	µg/kg	60.4	2241.1	<14.9	74.4	56-97	2.70	30	
2,4-Dichlorophenol	1850	µg/kg	60.4	2241.1	<30.2	82.6	54-99	3.68	30	
2,4-Dimethylphenol	1690	µg/kg	60.4	2241.1	<28.8	75.5	47-102	7.83	30	
2,4-Dinitrophenol	<410	µg/kg	609	2241.1	<410	23.3	10-100	0.0224	30	U
2,4-Dinitrotoluene (2,4-DNT)	1790	µg/kg	60.4	2241.1	<36.4	79.9	62-105	7.85	30	
2,6-Dinitrotoluene (2,6-DNT)	1800	µg/kg	60.4	2241.1	<14.3	80.4	62-103	5.35	30	
2-Chloronaphthalene	1900	µg/kg	12.2	2241.1	<7.83	84.7	57-101	0.435	30	
2-Chlorophenol	1720	µg/kg	60.4	2241.1	<36.7	76.8	52-102	4.99	30	
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	1420	µg/kg	60.4	2241.1	<46.8	63.6	42-104	11.0	30	
2-Methylnaphthalene	1860	µg/kg	12.2	2241.1	<5.70	83.2	55-102	4.59	30	
2-Methylphenol (o-Cresol)	1770	µg/kg	60.4	2241.1	<15.1	79.1	54-103	7.25	30	
2-Nitroaniline	1420	µg/kg	60.4	2241.1	<31.1	63.3	57-103	5.09	30	
2-Nitrophenol	1910	µg/kg	60.4	2241.1	<16.0	85.2	52-102	6.03	30	
3&4-Methylphenol	1820	µg/kg	60.4	2241.1	<30.5	81.0	56-103	9.01	30	
3,3'-Dichlorobenzidine	1200	µg/kg	305	2241.1	<26.2	53.4	41-91	12.3	30	



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2437710

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3862290

MSD	CLIENT ID: 8221 SB01(1-2')_20260129	Lab ID: QC-2437710-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 02/04/26 19:39

Prep Date: 02/02/26 13:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
3-Nitroaniline	1300	µg/kg	60.4	2241.1	<32.5	57.9	35-107	3.67	30	
4-Bromophenyl phenyl ether (BDE-3)	1810	µg/kg	60.4	2241.1	<30.7	80.8	63-104	3.25	30	
4-Chloro-3-methylphenol	1960	µg/kg	60.4	2241.1	<16.0	87.4	57-103	7.27	30	
4-Chloroaniline	1920	µg/kg	122	2241.1	<28.5	85.5	32-99	8.51	30	
4-Chlorophenyl phenylether	1730	µg/kg	60.4	2241.1	<15.5	77.3	62-100	3.94	30	
4-Nitroaniline	882	µg/kg	305	2241.1	<86.9	39.4	19-124	2.42	30	
4-Nitrophenol	1580	µg/kg	609	2241.1	<131	70.3	44-106	7.35	30	
Acenaphthene	1680	µg/kg	12.2	2241.1	<8.10	75.1	60-101	1.18	30	
Acenaphthylene	1680	µg/kg	12.2	2241.1	<9.72	74.8	59-101	1.12	30	
Acetophenone	1790	µg/kg	60.4	2241.1	<8.78	79.7	54-102	7.67	30	
Anthracene	1770	µg/kg	12.2	2241.1	<7.90	78.7	63-96	3.79	30	
Atrazine	2540	µg/kg	60.4	2241.1	<32.8	113	60-110	12.7	30	S
Benzaldehyde	400	µg/kg	122	2241.1	<86.1	17.9	10-143	3.87	30	
Benzo(a)anthracene	1920	µg/kg	12.2	2241.1	<9.68	85.4	66-102	3.72	30	
Benzo(a)pyrene	1940	µg/kg	12.2	2241.1	<6.88	86.5	66-105	4.47	30	
Benzo(b)fluoranthene	1720	µg/kg	12.2	2241.1	<8.36	76.9	67-105	4.09	30	
Benzo(g,h,i)perylene	1810	µg/kg	12.2	2241.1	<8.59	80.7	59-110	3.13	30	
Benzo(k)fluoranthene	1860	µg/kg	12.2	2241.1	<8.49	83.2	68-106	5.29	30	
bis(2-Chloroethoxy)methane	1680	µg/kg	60.4	2241.1	<35.5	75.0	54-102	5.04	30	
bis(2-Chloroethyl) ether	1850	µg/kg	60.4	2241.1	<15.9	82.7	51-101	5.96	30	
Butyl benzyl phthalate	2020	µg/kg	122	2241.1	<70.2	90.1	59-107	10.2	30	
Caprolactam	1720	µg/kg	60.4	2241.1	<50.6	75.1	49-103	9.61	30	
Carbazole	1780	µg/kg	60.4	2241.1	<16.5	79.3	63-103	4.36	30	
Chrysene	1970	µg/kg	12.2	2241.1	<9.57	88.0	66-105	4.09	30	
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	2040	µg/kg	60.4	2241.1	66.9	88.5	63-101	11.2	30	
Dibenz(a,h) anthracene	1750	µg/kg	60.4	2241.1	<6.05	78.1	61-109	0.597	30	
Dibenzofuran	1710	µg/kg	60.4	2241.1	<8.24	76.4	61-101	2.43	30	
Diethyl phthalate	1830	µg/kg	60.4	2241.1	<19.1	81.5	63-105	6.44	30	
Dimethyl phthalate	1780	µg/kg	60.4	2241.1	<10.9	79.3	64-104	3.96	30	
Fluoranthene	1870	µg/kg	12.2	2241.1	9.74	83.0	66-105	6.16	30	
Fluorene	1720	µg/kg	12.2	2241.1	<8.14	76.7	62-101	4.72	30	
Hexachlorobenzene	1810	µg/kg	60.4	2241.1	<16.3	80.7	61-104	2.68	30	
Hexachlorobutadiene	1800	µg/kg	60.4	2241.1	<13.2	80.5	52-99	0.0224	30	
Hexachlorocyclopentadiene	1520	µg/kg	60.4	2241.1	<54.8	67.6	39-106	0.170	30	
Hexachloroethane	1650	µg/kg	60.4	2241.1	<23.2	73.5	59-99	3.16	30	
Indeno(1,2,3-cd) pyrene	1890	µg/kg	12.2	2241.1	<7.80	84.3	57-114	2.68	30	
Isophorone	1880	µg/kg	305	2241.1	<10.9	83.9	55-101	4.05	30	
Methylphenol, Total	3590	µg/kg	67.0	4483.9	<15.1	80.0	54-103	8.14	30	
Naphthalene	1780	µg/kg	12.2	2241.1	<7.16	79.4	54-99	1.50	30	
Nitrobenzene	1790	µg/kg	305	2241.1	<18.8	80.0	53-100	1.11	30	
n-Nitrosodi-n-propylamine	1760	µg/kg	60.4	2241.1	<9.25	78.6	52-104	8.54	30	
N-Nitrosodiphenylamine	1790	µg/kg	60.4	2241.1	<32.4	80.0	61-104	2.45	30	
Pentachlorophenol	1680	µg/kg	60.4	2241.1	<44.5	74.9	35-100	11.6	30	
Phenanthrene	1770	µg/kg	12.2	2241.1	<5.21	78.9	64-101	2.48	30	
Phenol	1720	µg/kg	60.4	2241.1	<28.1	76.7	51-107	5.81	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2437710

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3862290

MSD	CLIENT ID: 8221 SB01(1-2')_20260129	Lab ID: QC-2437710-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 02/04/26 19:39

Prep Date: 02/02/26 13:20

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Pyrene	1930	µg/kg	12.2	2241.1	9.74	85.5	52-114	3.71	30	
Pyridine	1540	µg/kg	305	2241.1	<110	68.9	40-84	0.780	30	
<i>Surr: 2,4,6-Tribromophenol</i>	4500	µg/kg		5603.6		80.3	48-94	4.72	30	
<i>Surr: 2-Fluorobiphenyl</i>	4090	µg/kg		5603.6		72.9	50-103	1.98	30	
<i>Surr: 2-Fluorophenol</i>	4170	µg/kg		5603.6		74.4	43-105	1.19	30	
<i>Surr: 4-Terphenyl-d14</i>	4790	µg/kg		5603.6		85.5	55-111	3.87	30	
<i>Surr: Nitrobenzene-d5</i>	4570	µg/kg		5603.6		81.5	47-100	0.100	30	
<i>Surr: Phenol-d6</i>	4510	µg/kg		5603.6		80.4	49-110	4.87	30	

The following samples were analyzed in this batch: HN2601366-001, HN2601366-002, HN2601366-003



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2435798

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3854688

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2435798-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/30/26 12:09

Prep Date: 01/30/26 11:12

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	<13.6	µg/kg	30.0							U
1,1,2,2-Tetrachloroethane	<13.2	µg/kg	30.0							U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	<19.0	µg/kg	30.0							U
1,1,2-Trichloroethane	<12.8	µg/kg	30.0							U
1,1-Dichloroethane	<10.9	µg/kg	30.0							U
1,1-Dichloroethylene	<9.72	µg/kg	30.0							U
1,2,3-Trichlorobenzene	<36.0	µg/kg	100							U
1,2,3-Trichloropropane	<12.6	µg/kg	30.0							U
1,2,4-Trichlorobenzene	<34.0	µg/kg	100							U
1,2,4-Trimethylbenzene	<22.0	µg/kg	30.0							U
1,2-Dibromo-3-chloropropane (DBCP)	<27.6	µg/kg	100							U
1,2-Dibromoethane (EDB, Ethylene dibromide)	<17.6	µg/kg	30.0							U
1,2-Dichlorobenzene (o-Dichlorobenzene)	<11.4	µg/kg	30.0							U
1,2-Dichloroethane (Ethylene dichloride)	<26.3	µg/kg	100							U
1,2-Dichloropropane	<22.1	µg/kg	30.0							U
1,3,5-Trimethylbenzene	<21.2	µg/kg	100							U
1,3-Dichlorobenzene (m-Dichlorobenzene)	<20.7	µg/kg	30.0							U
1,3-Dichloropropene	<16.8	µg/kg	60.0							U
1,4-Dichlorobenzene (p-Dichlorobenzene)	<24.4	µg/kg	30.0							U
2-Butanone (Methyl ethyl ketone, MEK)	<71.4	µg/kg	200							U
2-Hexanone	<14.9	µg/kg	30.0							U
4-Methyl-2-pentanone (MIBK)	<28.0	µg/kg	30.0							U
Acetone	<89.0	µg/kg	100							U
Benzene	<14.5	µg/kg	30.0							U
Bromochloromethane	<15.3	µg/kg	30.0							U
Bromodichloromethane	<16.8	µg/kg	30.0							U
Bromoform	<12.6	µg/kg	30.0							U
Carbon disulfide	<15.5	µg/kg	30.0							U
Carbon tetrachloride	<11.7	µg/kg	30.0							U
Chlorobenzene	<9.96	µg/kg	30.0							U
Chlorodibromomethane	<16.8	µg/kg	30.0							U
Chloroethane (Ethyl chloride)	<84.0	µg/kg	100							U
Chloroform	<11.0	µg/kg	30.0							U
cis-1,2-Dichloroethylene	<19.3	µg/kg	30.0							U
cis-1,3-Dichloropropene	<22.6	µg/kg	30.0							U
Cyclohexane	<23.0	µg/kg	100							U
Dichlorodifluoromethane (Freon-12)	<36.3	µg/kg	100							U
Ethylbenzene	<21.3	µg/kg	30.0							U



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2435798

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3854688

MB	CLIENT ID: Method Blank	Lab ID: QC-2435798-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/30/26 12:09

Prep Date: 01/30/26 11:12

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Isopropylbenzene	<19.0	µg/kg	30.0							U
m+p-Xylene	<40.0	µg/kg	60.0							U
Methyl acetate	<35.9	µg/kg	250							U
Methyl bromide (Bromomethane)	<57.4	µg/kg	100							U
Methyl chloride (Chloromethane)	<82.0	µg/kg	100							U
Methyl tert-butyl ether (MTBE)	<21.9	µg/kg	30.0							U
Methylcyclohexane	<11.4	µg/kg	30.0							U
Methylene chloride (Dichloromethane)	<79.6	µg/kg	250							U
o-Xylene	<11.6	µg/kg	30.0							U
Styrene	<11.9	µg/kg	30.0							U
Tetrachloroethylene (Perchloroethylene)	<18.1	µg/kg	30.0							U
Toluene	<24.7	µg/kg	30.0							U
Total Xylene	<11.6	µg/kg	90.0							U
trans-1,2-Dichloroethylene	<24.8	µg/kg	30.0							U
trans-1,3-Dichloropropylene	<16.8	µg/kg	30.0							U
Trichloroethene (Trichloroethylene)	<13.4	µg/kg	30.0							U
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	<15.3	µg/kg	30.0							U
Vinyl chloride (Chloroethene)	<19.9	µg/kg	30.0							U
Surr: 1,2-Dichloroethane-d4	1010	µg/kg		1000		101	80-120			
Surr: 4-Bromofluorobenzene	997	µg/kg		1000		99.7	80-120			
Surr: Dibromofluoromethane	974	µg/kg		1000		97.4	72-120			
Surr: Toluene-d8	995	µg/kg		1000		99.5	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2435798-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/30/26 11:11

Prep Date: 01/30/26 11:12

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	938	µg/kg	30.0	1000		93.8	75-121			
1,1,2,2-Tetrachloroethane	894	µg/kg	30.0	1000		89.4	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1090	µg/kg	30.0	1000		109	62-129			
1,1,2-Trichloroethane	892	µg/kg	30.0	1000		89.2	80-123			
1,1-Dichloroethane	1110	µg/kg	30.0	1000		111	74-124			
1,1-Dichloroethylene	1020	µg/kg	30.0	1000		102	68-131			
1,2,3-Trichlorobenzene	913	µg/kg	100	1000		91.3	60-135			
1,2,3-Trichloropropane	886	µg/kg	30.0	1000		88.6	77-121			
1,2,4-Trichlorobenzene	915	µg/kg	100	1000		91.5	63-130			
1,2,4-Trimethylbenzene	916	µg/kg	30.0	1000		91.6	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	858	µg/kg	100	1000		85.8	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	899	µg/kg	30.0	1000		89.9	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	933	µg/kg	30.0	1000		93.3	77-122			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2435798

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3854688

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2435798-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/30/26 11:11

Prep Date: 01/30/26 11:12

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichloroethane (Ethylene dichloride)	938	µg/kg	100	1000		93.8	70-130			
1,2-Dichloropropane	908	µg/kg	30.0	1000		90.8	71-130			
1,3,5-Trimethylbenzene	935	µg/kg	100	1000		93.5	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	940	µg/kg	30.0	1000		94.0	78-121			
1,3-Dichloropropene	1800	µg/kg	60.0	2000		90.1	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	936	µg/kg	30.0	1000		93.6	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1040	µg/kg	200	1000		104	47-164			
2-Hexanone	1110	µg/kg	30.0	1000		111	70-137			
4-Methyl-2-pentanone (MIBK)	1710	µg/kg	30.0	1000		171	57-200			
Acetone	1250	µg/kg	100	1000		125	52-190			
Benzene	962	µg/kg	30.0	1000		96.2	78-122			
Bromochloromethane	963	µg/kg	30.0	1000		96.3	68-130			
Bromodichloromethane	934	µg/kg	30.0	1000		93.4	75-125			
Bromoform	862	µg/kg	30.0	1000		86.2	59-120			
Carbon disulfide	1060	µg/kg	30.0	1000		106	60-163			
Carbon tetrachloride	930	µg/kg	30.0	1000		93.0	69-123			
Chlorobenzene	900	µg/kg	30.0	1000		90.0	79-120			
Chlorodibromomethane	896	µg/kg	30.0	1000		89.6	57-123			
Chloroethane (Ethyl chloride)	1080	µg/kg	100	1000		108	38-132			
Chloroform	904	µg/kg	30.0	1000		90.4	72-122			
cis-1,2-Dichloroethylene	957	µg/kg	30.0	1000		95.7	74-125			
cis-1,3-Dichloropropene	932	µg/kg	30.0	1000		93.2	62-124			
Dichlorodifluoromethane (Freon-12)	741	µg/kg	100	1000		74.1	28-137			
Ethylbenzene	950	µg/kg	30.0	1000		95.0	75-121			
Isopropylbenzene	942	µg/kg	30.0	1000		94.2	74-121			
m+p-Xylene	1930	µg/kg	60.0	2000		96.6	67-129			
Methyl acetate	929	µg/kg	250	1000		92.9	61-125			
Methyl bromide (Bromomethane)	956	µg/kg	100	1000		95.6	31-169			
Methyl chloride (Chloromethane)	823	µg/kg	100	1000		82.3	24-119			
Methyl tert-butyl ether (MTBE)	1080	µg/kg	30.0	1000		108	79-139			
Methylene chloride (Dichloromethane)	1020	µg/kg	250	1000		102	62-135			
o-Xylene	948	µg/kg	30.0	1000		94.8	75-120			
Styrene	932	µg/kg	30.0	1000		93.2	74-126			
Tetrachloroethylene (Perchloroethylene)	1280	µg/kg	30.0	1000		128	76-128			
Toluene	920	µg/kg	30.0	1000		92.0	76-120			
Total Xylene	2880	µg/kg	90.0	3000		96.0	67-129			
trans-1,2-Dichloroethylene	968	µg/kg	30.0	1000		96.8	72-127			
trans-1,3-Dichloropropylene	870	µg/kg	30.0	1000		87.0	66-120			
Trichloroethene (Trichloroethylene)	936	µg/kg	30.0	1000		93.6	75-122			
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	822	µg/kg	30.0	1000		82.2	51-115			
Vinyl chloride (Chloroethene)	854	µg/kg	30.0	1000		85.4	43-128			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2435798

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3854688

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2435798-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/30/26 11:11

Prep Date: 01/30/26 11:12

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Surr: 1,2-Dichloroethane-d4	1020	µg/kg		1000		102	80-120			
Surr: 4-Bromofluorobenzene	987	µg/kg		1000		98.7	80-120			
Surr: Dibromofluoromethane	1010	µg/kg		1000		101	72-120			
Surr: Toluene-d8	994	µg/kg		1000		99.4	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2435798-005
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/30/26 19:23

Prep Date: 01/30/26 11:12

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	2360	µg/kg	69.2	2020.2	<27.5	117	75-121			
1,1,2,2-Tetrachloroethane	1340	µg/kg	69.2	2020.2	<26.7	66.4	79-125			S
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3130	µg/kg	69.2	2020.2	<38.4	155	62-129			S
1,1,2-Trichloroethane	1860	µg/kg	69.2	2020.2	<25.8	91.8	80-123			
1,1-Dichloroethane	2140	µg/kg	69.2	2020.2	<22.1	106	74-124			
1,1-Dichloroethylene	2550	µg/kg	69.2	2020.2	<19.6	126	68-131			
1,2,3-Trichlorobenzene	1980	µg/kg	231	2020.2	<72.7	97.9	60-135			
1,2,3-Trichloropropane	1920	µg/kg	69.2	2020.2	<25.4	94.9	77-121			
1,2,4-Trichlorobenzene	1960	µg/kg	231	2020.2	<68.7	96.9	63-130			
1,2,4-Trimethylbenzene	1940	µg/kg	69.2	2020.2	<44.4	96.0	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	1710	µg/kg	231	2020.2	<55.8	84.8	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	1920	µg/kg	69.2	2020.2	<35.6	95.0	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	2080	µg/kg	69.2	2020.2	<23.0	103	77-122			
1,2-Dichloroethane (Ethylene dichloride)	2160	µg/kg	231	2020.2	<53.2	107	70-130			
1,2-Dichloropropane	1880	µg/kg	69.2	2020.2	<44.7	93.2	71-130			
1,3,5-Trimethylbenzene	2010	µg/kg	231	2020.2	<42.8	99.5	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	2090	µg/kg	69.2	2020.2	<41.9	103	78-121			
1,3-Dichloropropene	3610	µg/kg	138	4040.4	<33.8	89.2	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	2070	µg/kg	69.2	2020.2	<49.3	102	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	2460	µg/kg	461	2020.2	<144	122	47-164			
2-Hexanone	2720	µg/kg	69.2	2020.2	<30.1	134	70-137			
4-Methyl-2-pentanone (MIBK)	2830	µg/kg	69.2	2020.2	<56.5	140	57-200			
Acetone	3930	µg/kg	231	2020.2	<180	194	52-190			S
Benzene	2050	µg/kg	69.2	2020.2	<29.4	102	78-122			
Bromochloromethane	1960	µg/kg	69.2	2020.2	<30.8	96.8	68-130			
Bromodichloromethane	2030	µg/kg	69.2	2020.2	<33.9	100	75-125			
Bromoform	1850	µg/kg	69.2	2020.2	<25.5	91.4	59-120			
Carbon disulfide	2620	µg/kg	69.2	2020.2	<31.4	130	60-163			
Carbon tetrachloride	2290	µg/kg	69.2	2020.2	<23.7	113	69-123			
Chlorobenzene	2000	µg/kg	69.2	2020.2	<20.1	99.0	79-120			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2435798

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3854688

MS	CLIENT ID: Batch QC	Lab ID: QC-2435798-005
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/30/26 19:23

Prep Date: 01/30/26 11:12

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlorodibromomethane	1910	µg/kg	69.2	2020.2	<34.0	94.4	57-123			
Chloroethane (Ethyl chloride)	1820	µg/kg	231	2020.2	<170	89.9	38-132			
Chloroform	2080	µg/kg	69.2	2020.2	<22.2	103	72-122			
cis-1,2-Dichloroethylene	2060	µg/kg	69.2	2020.2	<39.0	102	74-125			
cis-1,3-Dichloropropene	1830	µg/kg	69.2	2020.2	<45.7	90.4	62-124			
Dichlorodifluoromethane (Freon-12)	924	µg/kg	231	2020.2	<73.4	45.8	28-137			
Ethylbenzene	2040	µg/kg	69.2	2020.2	<43.0	101	75-121			
Isopropylbenzene	2070	µg/kg	69.2	2020.2	<38.3	102	74-121			
m+p-Xylene	4150	µg/kg	138	4040.4	<80.8	103	67-129			
Methyl acetate	2060	µg/kg	576	2020.2	<72.6	102	61-125			
Methyl bromide (Bromomethane)	1740	µg/kg	231	2020.2	<116	86.0	31-169			
Methyl chloride (Chloromethane)	2480	µg/kg	231	2020.2	<166	123	24-119			S
Methyl tert-butyl ether (MTBE)	2240	µg/kg	69.2	2020.2	<44.2	111	79-139			
Methylene chloride (Dichloromethane)	2180	µg/kg	576	2020.2	<161	108	62-135			
o-Xylene	1980	µg/kg	69.2	2020.2	<23.4	98.2	75-120			
Styrene	1940	µg/kg	69.2	2020.2	<24.0	96.0	74-126			
Tetrachloroethylene (Perchloroethylene)	4260	µg/kg	69.2	2020.2	<36.5	211	76-128			S
Toluene	1990	µg/kg	69.2	2020.2	<50.0	98.8	76-120			
Total Xylene	6130	µg/kg	207	6060.6	<23.4	101	67-129			
trans-1,2-Dichloroethylene	2090	µg/kg	69.2	2020.2	<50.0	103	72-127			
trans-1,3-Dichloropropylene	1780	µg/kg	69.2	2020.2	<33.8	88.0	66-120			
Trichloroethene (Trichloroethylene)	2630	µg/kg	69.2	2020.2	<27.2	130	75-122			S
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	2930	µg/kg	69.2	2020.2	<31.0	145	51-115			S
Vinyl chloride (Chloroethene)	2380	µg/kg	69.2	2020.2	<40.3	118	43-128			
Surr: 1,2-Dichloroethane-d4	2200	µg/kg		2020.2		109	80-120			
Surr: 4-Bromofluorobenzene	1880	µg/kg		2020.2		93.2	80-120			
Surr: Dibromofluoromethane	2140	µg/kg		2020.2		106	72-120			
Surr: Toluene-d8	1940	µg/kg		2020.2		96.2	80-120			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2435798-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/30/26 19:42

Prep Date: 01/30/26 11:12

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	2470	µg/kg	69.2	2020.2	<27.5	122	75-121	4.60	30	S
1,1,2,2-Tetrachloroethane	1380	µg/kg	69.2	2020.2	<26.7	68.1	79-125	2.45	30	S
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3370	µg/kg	69.2	2020.2	<38.4	167	62-129	7.21	30	S
1,1,2-Trichloroethane	2030	µg/kg	69.2	2020.2	<25.8	100	80-123	8.94	30	
1,1-Dichloroethane	2330	µg/kg	69.2	2020.2	<22.1	115	74-124	8.68	30	
1,1-Dichloroethylene	2680	µg/kg	69.2	2020.2	<19.6	133	68-131	4.90	30	S
1,2,3-Trichlorobenzene	2130	µg/kg	231	2020.2	<72.7	105	60-135	7.33	30	
1,2,3-Trichloropropane	2040	µg/kg	69.2	2020.2	<25.4	101	77-121	6.28	30	
1,2,4-Trichlorobenzene	2160	µg/kg	231	2020.2	<68.7	107	63-130	9.67	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2435798

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3854688

MSD	CLIENT ID: Batch QC	Lab ID: QC-2435798-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/30/26 19:42

Prep Date: 01/30/26 11:12

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	2070	µg/kg	69.2	2020.2	<44.4	103	64-126	6.70	30	
1,2-Dibromo-3-chloropropane (DBCP)	1790	µg/kg	231	2020.2	<55.8	88.6	55-135	4.44	30	
1,2-Dibromoethane (EDB, Ethylene dibromide)	2150	µg/kg	69.2	2020.2	<35.6	106	63-155	11.4	30	
1,2-Dichlorobenzene (o-Dichlorobenzene)	2240	µg/kg	69.2	2020.2	<23.0	111	77-122	7.15	30	
1,2-Dichloroethane (Ethylene dichloride)	2330	µg/kg	231	2020.2	<53.2	115	70-130	7.50	30	
1,2-Dichloropropane	2000	µg/kg	69.2	2020.2	<44.7	99.0	71-130	6.09	30	
1,3,5-Trimethylbenzene	2130	µg/kg	231	2020.2	<42.8	105	66-130	5.71	30	
1,3-Dichlorobenzene (m-Dichlorobenzene)	2200	µg/kg	69.2	2020.2	<41.9	109	78-121	5.23	30	
1,3-Dichloropropene	3790	µg/kg	138	4040.4	<33.8	93.8	62-124	4.92	30	
1,4-Dichlorobenzene (p-Dichlorobenzene)	2220	µg/kg	69.2	2020.2	<49.3	110	78-122	6.93	30	
2-Butanone (Methyl ethyl ketone, MEK)	2280	µg/kg	461	2020.2	<144	113	47-164	7.71	30	
2-Hexanone	2690	µg/kg	69.2	2020.2	<30.1	133	70-137	0.934	30	
4-Methyl-2-pentanone (MIBK)	2890	µg/kg	69.2	2020.2	<56.5	143	57-200	1.84	30	
Acetone	4180	µg/kg	231	2020.2	<180	207	52-190	6.18	30	S
Benzene	2170	µg/kg	69.2	2020.2	<29.4	108	78-122	5.69	30	
Bromochloromethane	2170	µg/kg	69.2	2020.2	<30.8	108	68-130	10.5	30	
Bromodichloromethane	2190	µg/kg	69.2	2020.2	<33.9	109	75-125	7.89	30	
Bromoform	1960	µg/kg	69.2	2020.2	<25.5	96.8	59-120	5.74	30	
Carbon disulfide	2860	µg/kg	69.2	2020.2	<31.4	142	60-163	8.89	30	
Carbon tetrachloride	2540	µg/kg	69.2	2020.2	<23.7	126	69-123	10.1	30	S
Chlorobenzene	2090	µg/kg	69.2	2020.2	<20.1	104	79-120	4.64	30	
Chlorodibromomethane	2100	µg/kg	69.2	2020.2	<34.0	104	57-123	9.53	30	
Chloroethane (Ethyl chloride)	1920	µg/kg	231	2020.2	<170	95.0	38-132	5.52	30	
Chloroform	2260	µg/kg	69.2	2020.2	<22.2	112	72-122	8.19	30	
cis-1,2-Dichloroethylene	2230	µg/kg	69.2	2020.2	<39.0	110	74-125	7.71	30	
cis-1,3-Dichloropropene	1900	µg/kg	69.2	2020.2	<45.7	93.9	62-124	3.74	30	
Dichlorodifluoromethane (Freon-12)	2570	µg/kg	231	2020.2	<73.4	127	28-137	94.3	30	R
Ethylbenzene	2140	µg/kg	69.2	2020.2	<43.0	106	75-121	4.83	30	
Isopropylbenzene	2170	µg/kg	69.2	2020.2	<38.3	107	74-121	4.77	30	
m+p-Xylene	4360	µg/kg	138	4040.4	<80.8	108	67-129	4.89	30	
Methyl acetate	2360	µg/kg	576	2020.2	<72.6	117	61-125	13.7	30	
Methyl bromide (Bromomethane)	1390	µg/kg	231	2020.2	<116	68.6	31-169	22.5	30	
Methyl chloride (Chloromethane)	2320	µg/kg	231	2020.2	<166	115	24-119	6.40	30	
Methyl tert-butyl ether (MTBE)	2440	µg/kg	69.2	2020.2	<44.2	121	79-139	8.71	30	
Methylene chloride (Dichloromethane)	2420	µg/kg	576	2020.2	<161	120	62-135	10.6	30	
o-Xylene	2110	µg/kg	69.2	2020.2	<23.4	104	75-120	6.22	30	
Styrene	2080	µg/kg	69.2	2020.2	<24.0	103	74-126	7.28	30	
Tetrachloroethylene (Perchloroethylene)	4520	µg/kg	69.2	2020.2	<36.5	224	76-128	6.05	30	S
Toluene	2070	µg/kg	69.2	2020.2	<50.0	102	76-120	3.53	30	
Total Xylene	6470	µg/kg	207	6060.6	<23.4	107	67-129	5.32	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8221 Nuernberg
Matrix: SOIL/SOLID
QC Lot: 2435798

Work Order: HN2601366
Date Collected: NA
Date Received: NA
Run ID: 3854688

MSD	CLIENT ID: Batch QC	Lab ID: QC-2435798-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/30/26 19:42

Prep Date: 01/30/26 11:12

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
trans-1,2-Dichloroethylene	2310	µg/kg	69.2	2020.2	<50.0	115	72-127	10.3	30	
trans-1,3-Dichloropropylene	1890	µg/kg	69.2	2020.2	<33.8	93.6	66-120	6.11	30	
Trichloroethene (Trichloroethylene)	2850	µg/kg	69.2	2020.2	<27.2	141	75-122	8.08	30	S
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	3340	µg/kg	69.2	2020.2	<31.0	165	51-115	13.1	30	S
Vinyl chloride (Chloroethene)	2560	µg/kg	69.2	2020.2	<40.3	127	43-128	7.44	30	
Surr: 1,2-Dichloroethane-d4	2180	µg/kg		2020.2		108	80-120	1.11	30	
Surr: 4-Bromofluorobenzene	1870	µg/kg		2020.2		92.6	80-120	0.592	30	
Surr: Dibromofluoromethane	2160	µg/kg		2020.2		107	72-120	0.988	30	
Surr: Toluene-d8	1940	µg/kg		2020.2		95.8	80-120	0.416	30	

The following samples were analyzed in this batch: HN2601366-001, HN2601366-002, HN2601366-003